

**CETECOM™****CETECOM ICT Services**
consulting - testing - certification >>>

TEST REPORT

Test report no.: 1-8971/14-01-02-A

Deutsche
Akkreditierungsstelle
D-PL-12076-01-00

Testing laboratory

CETECOM ICT Services GmbH

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Internet: <http://www.cetecom.com>e-mail: ict@cetecom.com**Accredited Testing Laboratory:**

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-00

Applicant

RSI Video Technologies

Siège Social -Headquarters

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67200 Strasbourg / FRANCE

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Fax: -/-

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Manufacturer

RSI Video Technologies

Siège Social -Headquarters

25 rue Jacobi-Netter

67200 Strasbourg / FRANCE

Test standard/s

47 CFR Part 15

Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices

RSS - 210 Issue 8

Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item: Alarm system**Model name:** IDC601B**FCC ID:** X46DC00**IC:** 8816A-DC00

Frequency: ISM band 902 MHz to 928 MHz

Technology tested: Proprietary FHSS system with FSK modulation

Antenna: Integrated wire antenna

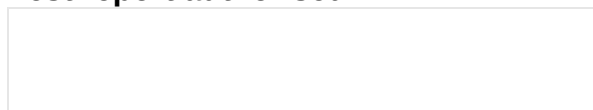
Power supply: 3.0 V DC by lithium battery (CR123A type)

Temperature range: -20°C to +50°C



This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:

Tobias Wittenmeier
Radio Communications & EMC

Test performed:

Marco Bertolino
Radio Communications & EMC

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2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. 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.

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This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

Date of receipt of order:	2014-11-13
Date of receipt of test item:	2015-01-27
Start of test:	2015-01-27
End of test:	2015-01-30
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	-/-	Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 210 Issue 8	01.12.2010	Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment

4 Test environment

Temperature:	T_{nom}	+22 °C during room temperature tests
	T_{max}	+50 °C during high temperature tests
	T_{min}	-20 °C during low temperature tests
Relative humidity content:		42 %
Barometric pressure:		not relevant for this kind of testing
Power supply:	V_{nom}	3.0 V DC by lithium battery (CR123A type)
	V_{max}	3.0 V
	V_{min}	2.7 V

5 Test item

Kind of test item	:	Alarm system
Type identification	:	IDC601B
S/N serial number	:	80022814D11A0115
HW hardware status	:	MD: 28/14 V.05.33.91.53
SW software status	:	RF test software
Frequency band [MHz]	:	ISM band 902 MHz to 928 MHz (lowest channel 904.5 MHz, highest channel 926.1 MHz)
Type of radio transmission	:	FHSS
Use of frequency spectrum	:	
Type of modulation	:	FSK
Number of channels	:	25
Antenna	:	Integrated wire antenna
Power supply	:	3.0 V DC by lithium battery (CR123A type)
Temperature range	:	-20°C to +50 °C

5.1 Additional information

The content of the following annexes is defined in the QA. It may be that not all of the listed annexes are necessary for this report, thus some values in between may be missing.

Test setup- and EUT-photos are included in test report: 1-8971/14-01-01_AnnexA
1-8971/14-01-01_AnnexB
1-8971/14-01-01_AnnexD

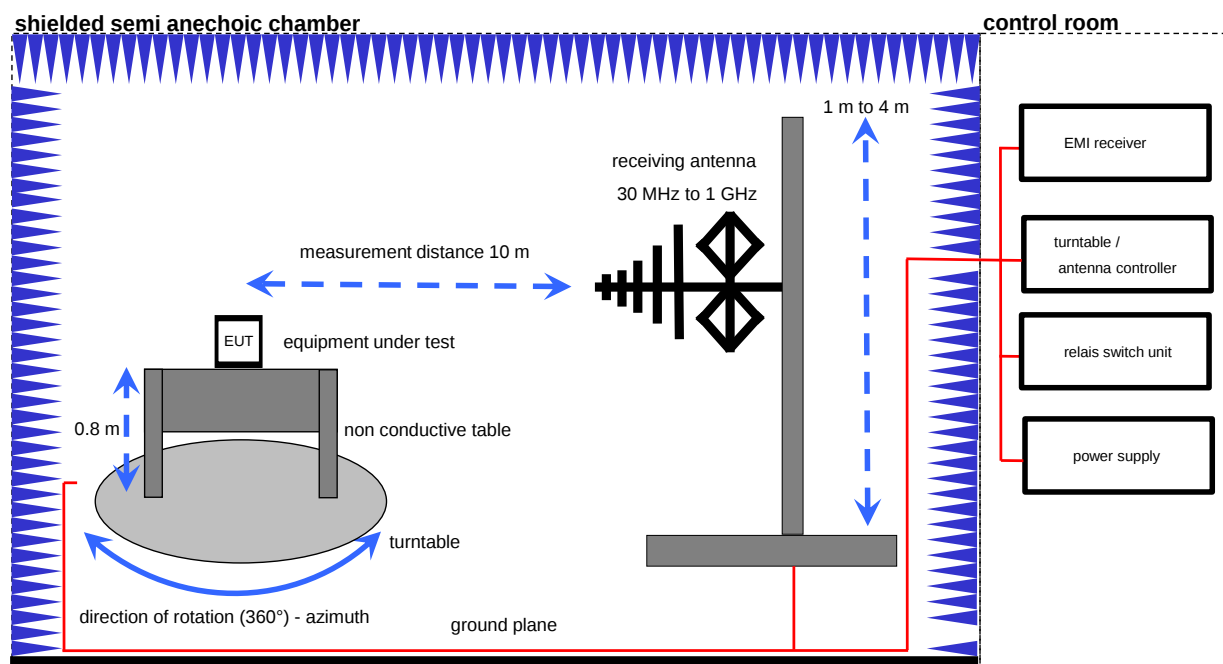
6 Test laboratories sub-contracted

None

7 Description of the test setup

7.1 Radiated measurements chamber F

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 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 confirmed with specifications ANSI C63. 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 setups 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.

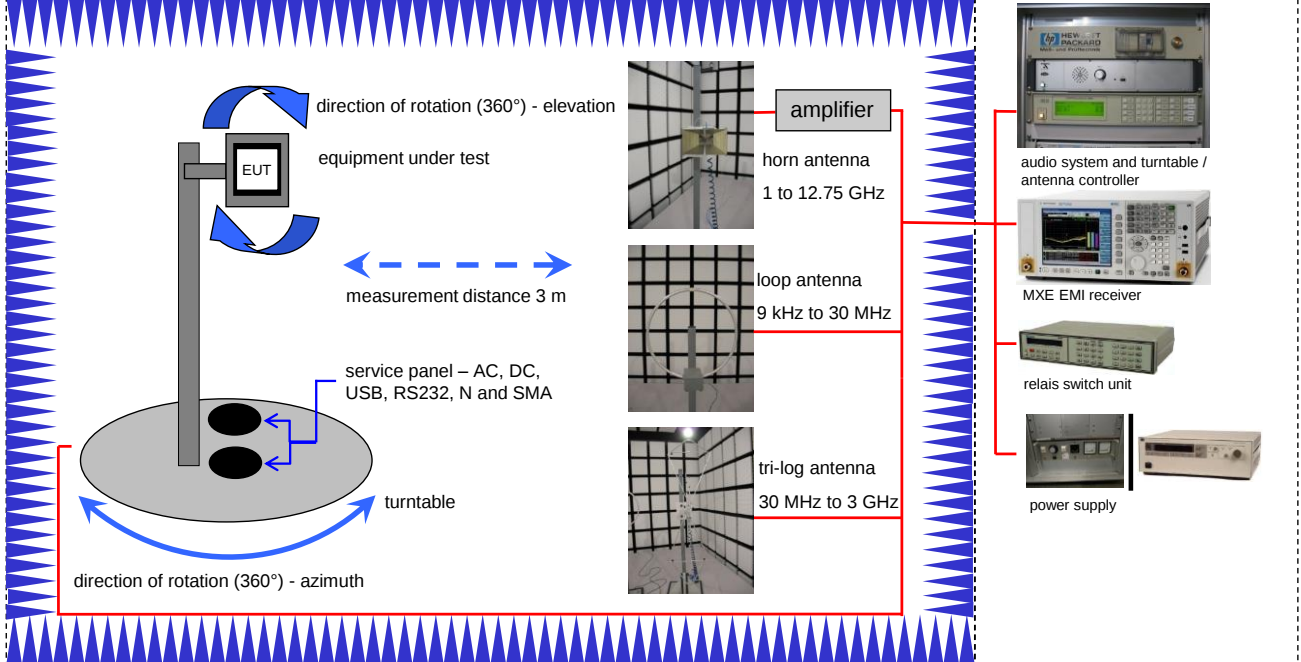


Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368
EMI Test Receiver	ESCI 3	R&S	100083	300003312
Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745
Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746
Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787

7.2 Radiated measurements chamber C

shielded full anechoic chamber



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032
Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996
Switch / Control Unit	3488A	HP Meßtechnik	*	300000199
Active Loop Antenna 10 kHz to 30 MHz	6502	Kontron Psychotech	8905-2342	300000256
Amplifier	js42-00502650-28-5a	Parzich GMBH	928979	300003143
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854
MXE EMI Receiver 20 Hz to 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405

8 Summary of measurement results



No deviations from the technical specifications were ascertained



There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	47 CFR Part 15 RSS 210, Issue 8	Passed	2015-03-03	Delta tests according to customer demand!

Test specification clause	Test case	Temperature conditions	Power source voltages	Mode	Pass	Fail	NA	NP	Remark
§15.247(b)(4) RSS 210 / A8.4(2)	Antenna gain	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(e) RSS 210 / A8.2(b)	Power spectral density	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(a)(1) RSS 210 / A8.1(b)	Carrier frequency separation	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(a)(1) RSS 210 / A8.1(d)	Number of hopping channels	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(a)(1) (iii) RSS 210 / A8.3(1)	Time of occupancy (dwell time)	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(a)(1) RSS 210 / A8.2(a)	Spectrum bandwidth of a FHSS system 20 dB bandwidth	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(b)(1) RSS-210 / A8.4(2)	Maximum output power	Nominal	Nominal	FSK	☒	☐	☐	☐	complies
§15.247(d) RSS-210 / A8.5	Band edge compliance conducted	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.205 RSS-210 / A8.5	Band edge compliance radiated	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(d) RSS-210 / A8.5	TX spurious emissions conducted	Nominal	Nominal	FSK	☐	☐	☐	☒	See 1-5658/13-08-02
§15.247(d) RSS-210 / A8.5	TX spurious emissions radiated	Nominal	Nominal	FSK	☒	☐	☐	☐	complies
§15.109 RSS-Gen	RX spurious emissions radiated	Nominal	Nominal	Idle + RX	☒	☐	☐	☐	complies
§15.209(a) RSS-Gen	TX spurious emissions radiated < 30 MHz	Nominal	Nominal	FSK	☒	☐	☐	☐	complies
§15.107(a) §15.207	Conducted emissions < 30 MHz	Nominal	Nominal	FSK	☐	☐	☒	☐	Battery powered only!

Note: NA = Not Applicable; NP = Not Performed

9 Additional comments

Reference documents: Main test report: 1-5658/13-08-02 (Cetecom ICT)
RSI - IDC_User guide - Certification

Special test descriptions: None

Configuration descriptions: P3Param - V3.9.1 (Software tool)

Test mode: ☐ Normal operation, no special test mode available.

 ☒ Special test software is used.

10 Measurement results

10.1 Maximum output power

Description:

Measurement of the maximum output power conducted and / or radiated. EUT in single channel mode.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Video bandwidth:	3 MHz
Resolution bandwidth:	10 MHz
Span:	5 MHz
Trace-Mode:	Max Hold

Limits:

FCC	IC
Maximum output power	
For frequency hopping systems operating in the 902–928 MHz band: 1 watt (30 dBm) for systems employing at least 50 hopping channels; and, 0.25 watts (24 dBm) for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.	

Results:

Modulation Frequency	Maximum output power radiated - ERP [dBm]		
	904.5 MHz	915.3 MHz	926.1 MHz
FSK	11.45	11.92	11.14
Measurement uncertainty	± 3 dB		

Verdict: **Passed**

10.2 TX spurious emissions radiated

Description:

Measurement of the radiated spurious emissions in transmit mode. The EUT is set to single channel mode.

Measurement:

Measurement parameter	
Detector:	Peak / Quasi Peak
Sweep time:	Auto
Video bandwidth:	3 x RBW
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Span:	30 MHz to 12.75 GHz
Trace-Mode:	Max Hold
Measured Modulation:	☒ FSK

The modulation with the highest output power was used to perform the transmitter spurious emissions. If spurious were detected a re-measurement was performed on the detected frequency with each modulation.

Limits:

FCC		IC
TX spurious emissions radiated		
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).		
§15.209		
Frequency (MHz)	Field strength (dBμV/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 – 960	36.0	10
Above 960	54.0	3

Results:

TX spurious emissions radiated [dBμV/m]								
904.5 MHz			915.3 MHz			926.1 MHz		
F [MHz]	Detector	Level [dBμV/m]	F [MHz]	Detector	Level [dBμV/m]	F [MHz]	Detector	Level [dBμV/m]
For emissions below 1 GHz, please take a look at the table below the 1 GHz plot.			For emissions below 1 GHz, please take a look at the table below the 1 GHz plot.			For emissions below 1 GHz, please take a look at the table below the 1 GHz plot.		
1808.9	No restricted band!		1830.7	No restricted band!		5556.3	No restricted band!	
3618.3	Peak	49.0	3661.3	Peak	46.29	6482.3	No restricted band!	
4522.3	Peak	46.7	4576.3	Peak	46.84	7409.1	Peak	56.7
5427.3	Peak	56.2	5492.2	No restricted band!		8335.1	AVG*	29.4
	AVG*	28.9					Peak	54.1
6331.3	No restricted band!		6407.2	No restricted band!				
7236.2	No restricted band!		7322.2	Peak	57.8			
				AVG*	30.50			
8140.2	Peak	55.2	8238.1	Peak	55.2			
	AVG*	27.9		AVG*	27.8			
Measurement uncertainty			± 3 dB					

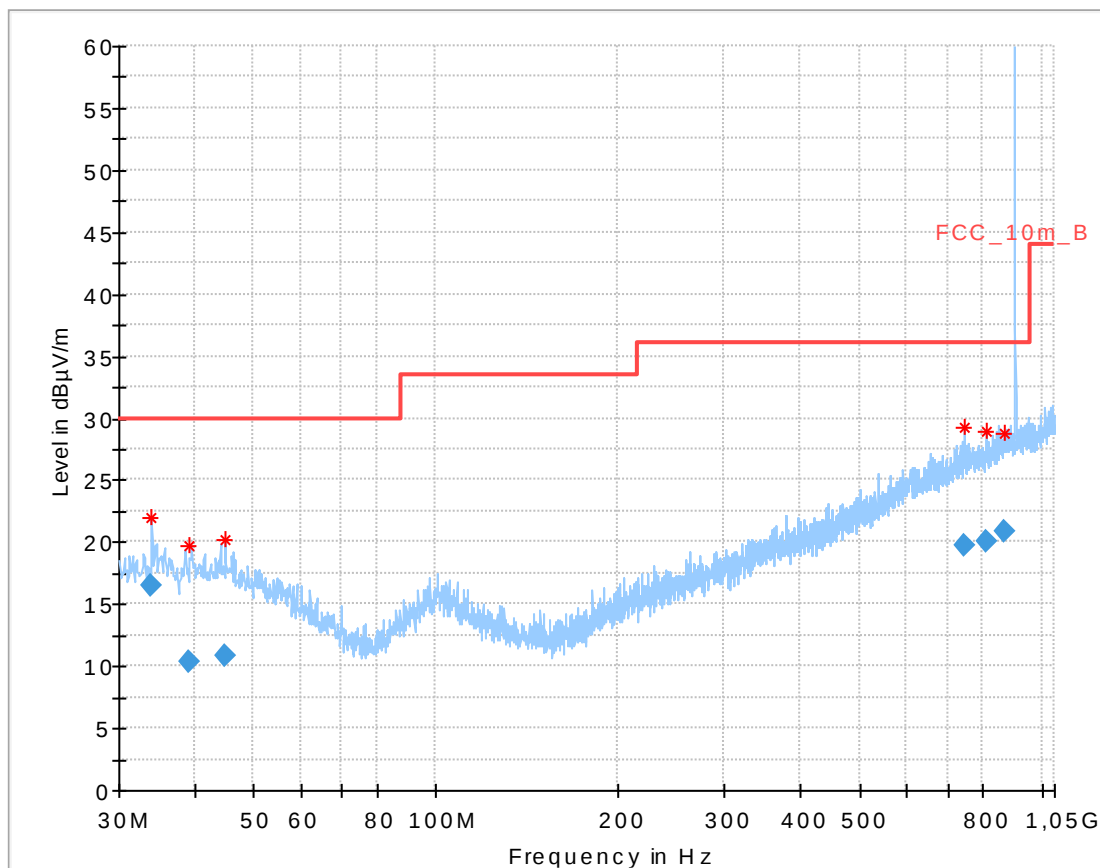
Verdict: Passed

Note: The limit was recalculated with 20 dB / decade (Part 15.31) for all radiated spurious emissions 30 MHz to 1 GHz from 3 meter limit to a 10 meter distance. (40dB/decade for emissions < 30MHz)

* DC correction factor according to main report: -27.35 dB

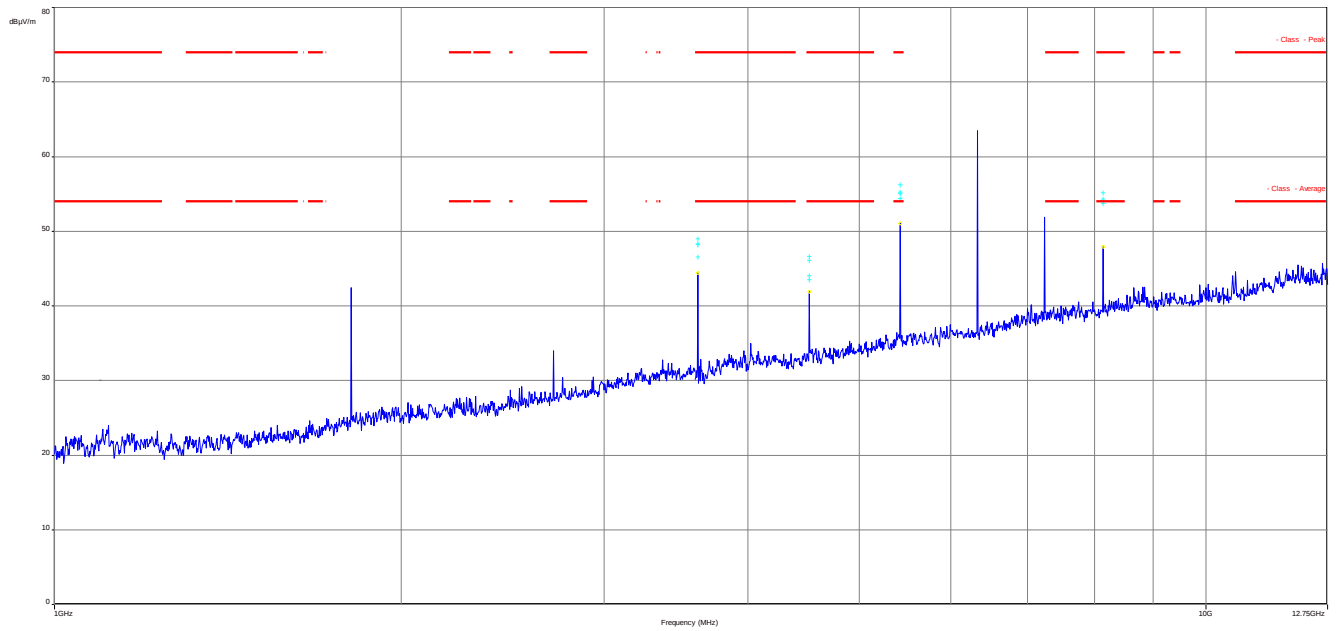
Plots:

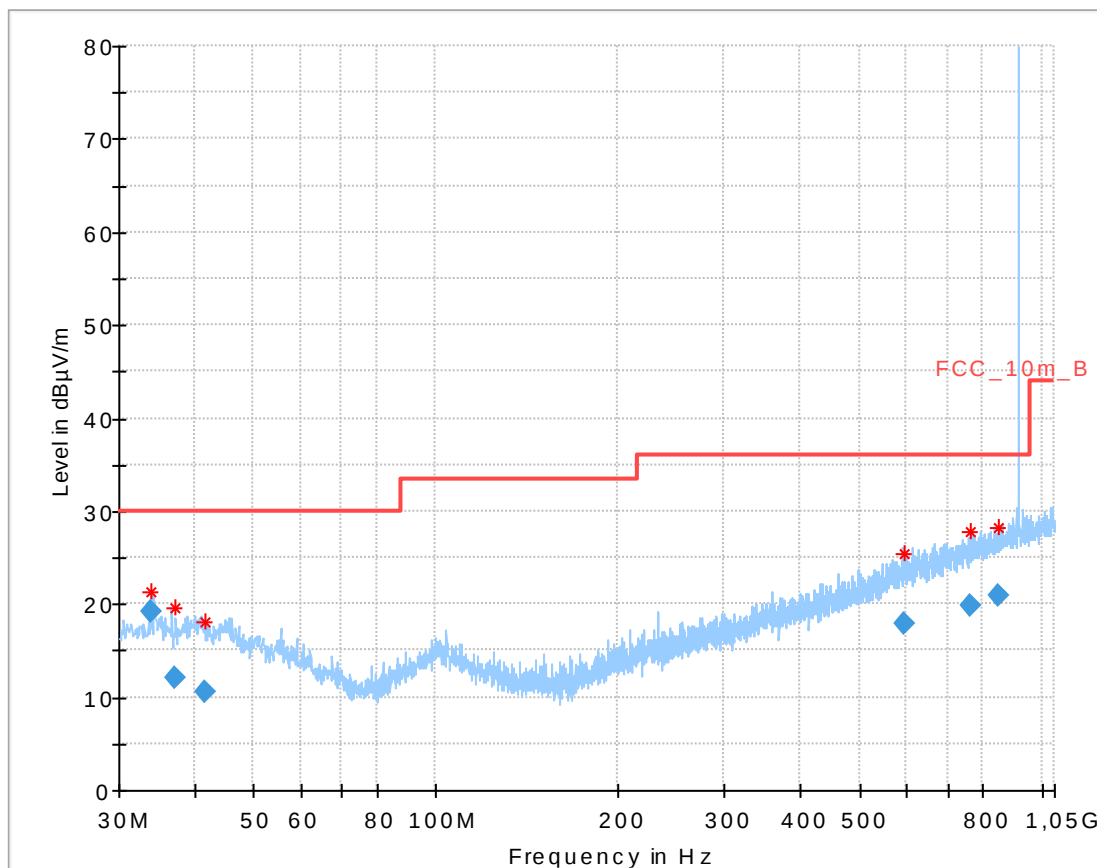
Plot 1: 30 MHz to 1 GHz, TX mode, low channel, vertical & horizontal polarization



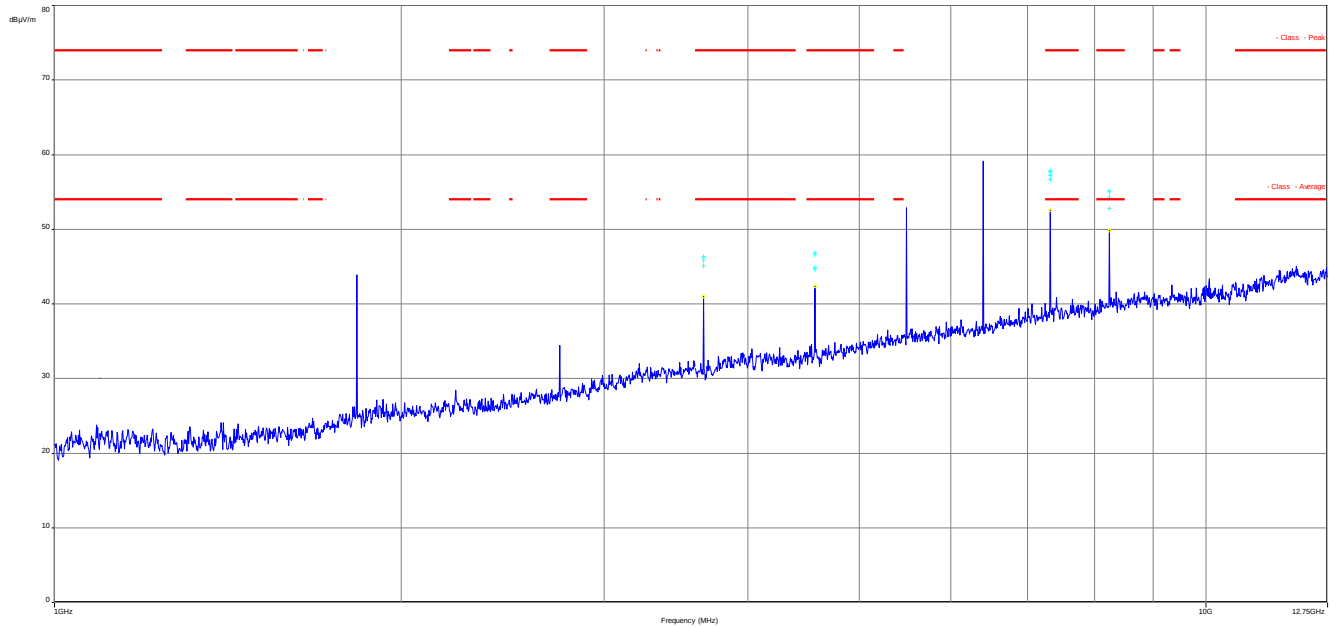
Final_Result:

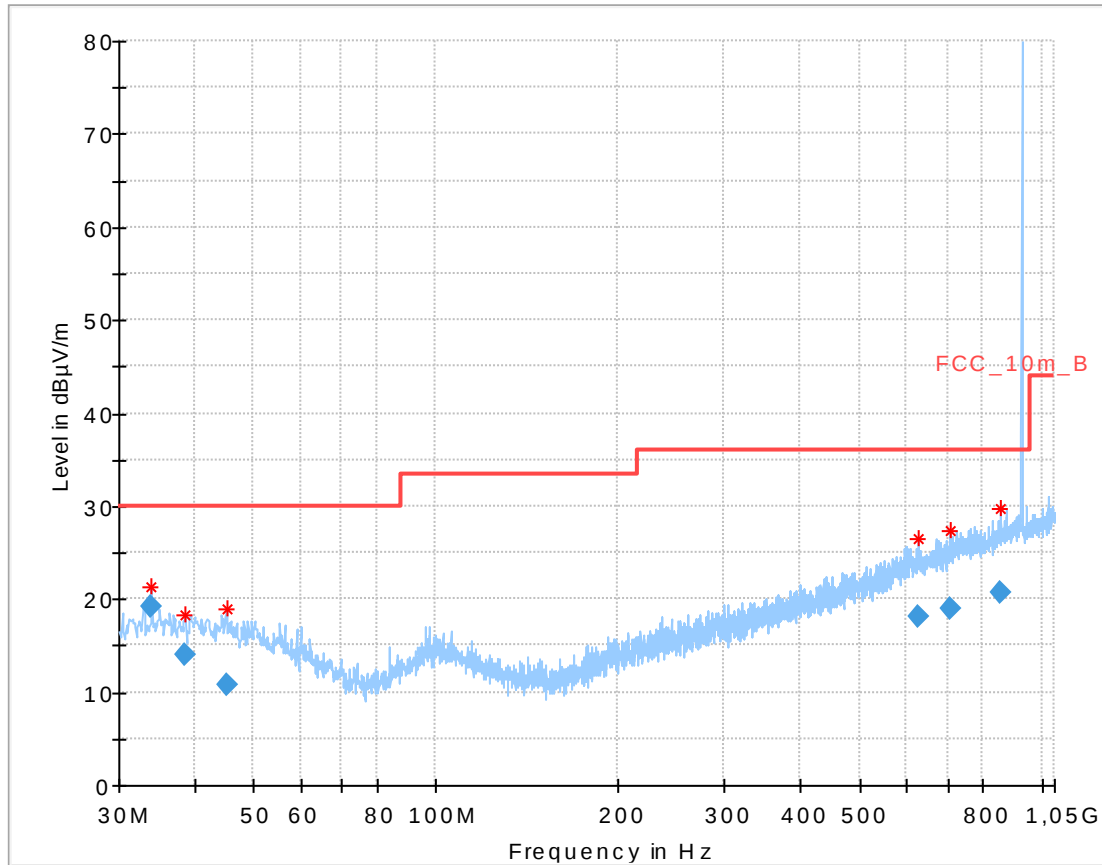
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.004700	16.44	30.00	13.56	1000.0	120.000	200.0	V	167	13.7
39.164550	10.30	30.00	19.70	1000.0	120.000	272.0	V	32	14.0
44.991600	10.89	30.00	19.11	1000.0	120.000	102.0	H	185	13.9
744.643650	19.69	36.00	16.31	1000.0	120.000	200.0	V	53	22.6
813.465600	20.01	36.00	15.99	1000.0	120.000	400.0	V	50	22.9
868.475550	20.91	36.00	15.09	1000.0	120.000	273.0	H	2	23.7

Plot 2: 1 GHz to 12.75 GHz, TX mode, low channel, vertical & horizontal polarization

Plot 3: 30 MHz to 1 GHz, TX mode, mid channel, vertical & horizontal polarization**Final_Result:**

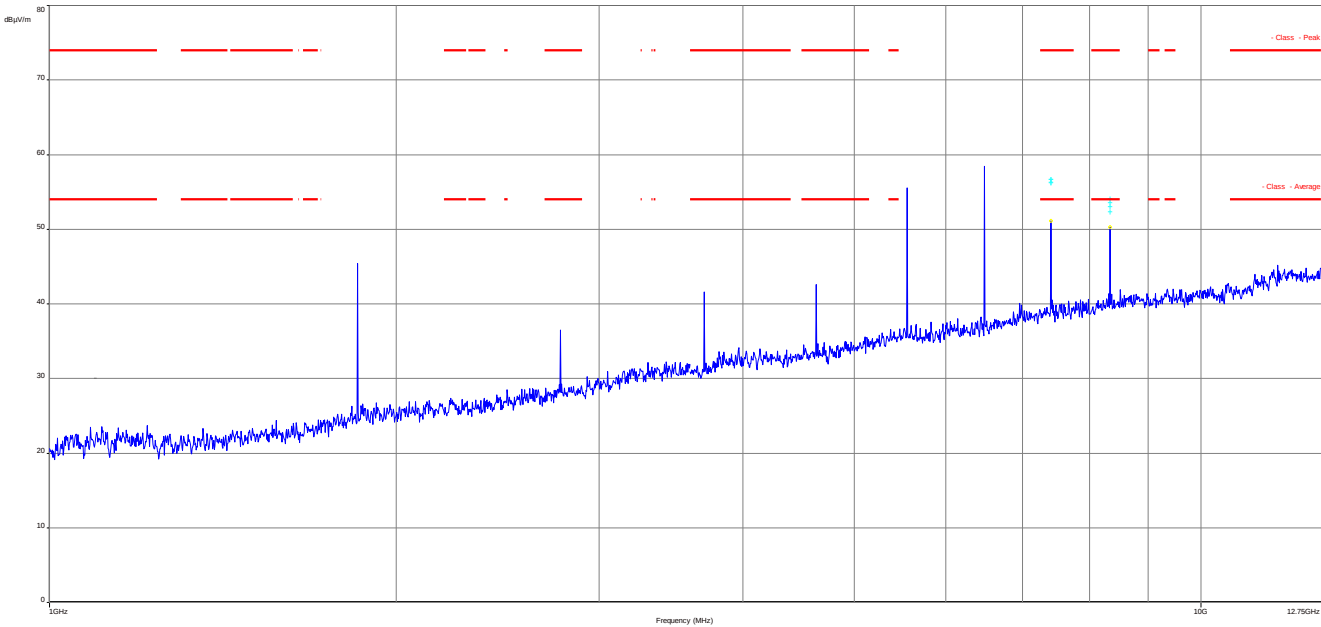
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.013850	19.21	30.00	10.79	1000.0	120.000	101.0	V	-24	13.7
37.017000	12.05	30.00	17.95	1000.0	120.000	170.0	V	65	13.9
41.708700	10.60	30.00	19.40	1000.0	120.000	101.0	V	174	14.0
594.869100	17.88	36.00	18.12	1000.0	120.000	170.0	V	-6	20.6
763.324350	19.78	36.00	16.22	1000.0	120.000	170.0	H	155	22.7
847.434900	20.94	36.00	15.06	1000.0	120.000	170.0	V	155	23.4

Plot 4: 1 GHz to 12.75 GHz, TX mode, mid channel, vertical & horizontal polarization

Plot 5: 30 MHz to 1 GHz, TX mode, high channel, vertical & horizontal polarization

Final_Result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.995400	19.24	30.00	10.76	1000.0	120.000	101.0	V	65	13.7
38.708700	14.04	30.00	15.96	1000.0	120.000	170.0	V	115	14.0
45.123750	10.76	30.00	19.24	1000.0	120.000	101.0	H	287	13.8
626.501250	18.12	36.00	17.88	1000.0	120.000	98.0	H	25	20.9
707.913000	18.92	36.00	17.08	1000.0	120.000	170.0	V	245	21.7
855.047100	20.76	36.00	15.24	1000.0	120.000	170.0	H	17	23.5

Plot 6: 1 GHz to 12.75 GHz, TX mode, high channel, vertical & horizontal polarization



10.3 RX spurious emissions radiated

Description:

Measurement of the radiated spurious emissions in idle/receive mode. The EUT is detached so all oscillators are active.

Measurement:

Measurement parameter	
Detector:	Peak / Quasi peak
Sweep time:	Auto
Video bandwidth:	3 x RBW
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Span:	30 MHz to 26 GHz
Trace-Mode:	Max Hold

Limits:

FCC		IC
RX Spurious Emissions Radiated		
Frequency (MHz)	Field strength (dB μ V/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 – 960	36.0	10
Above 960	54.0	3

Results:

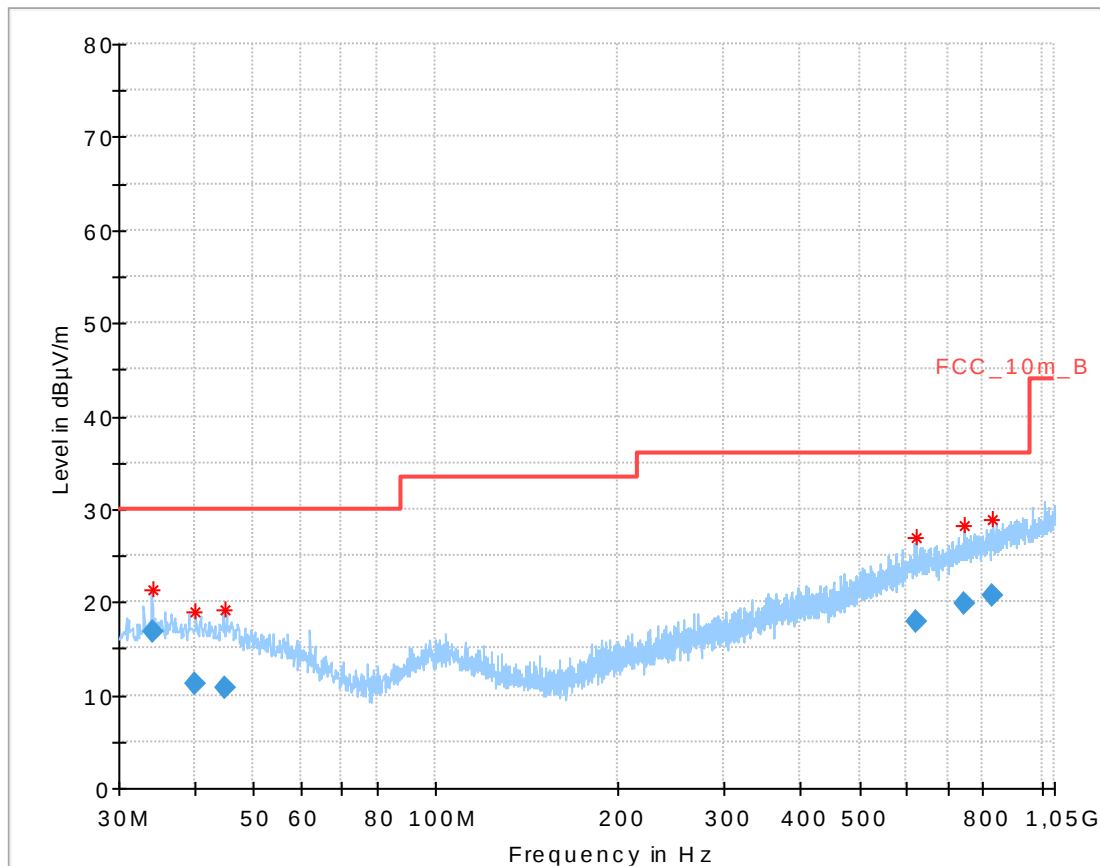
RX spurious emissions radiated [dB μ V/m]		
F [MHz]	Detector	Level [dB μ V/m]
For emissions below 1 GHz, please take a look at the table below the 1 GHz plot.		
No emissions detected above 1 GHz.		
Measurement uncertainty	± 3 dB	

Verdict: **Passed**

Note: The limit was recalculated with 20 dB / decade (Part 15.31) for all radiated spurious emissions 30 MHz to 1 GHz from 3 meter limit to a 10 meter distance. (40dB/decade for emissions < 30MHz)

Plots:

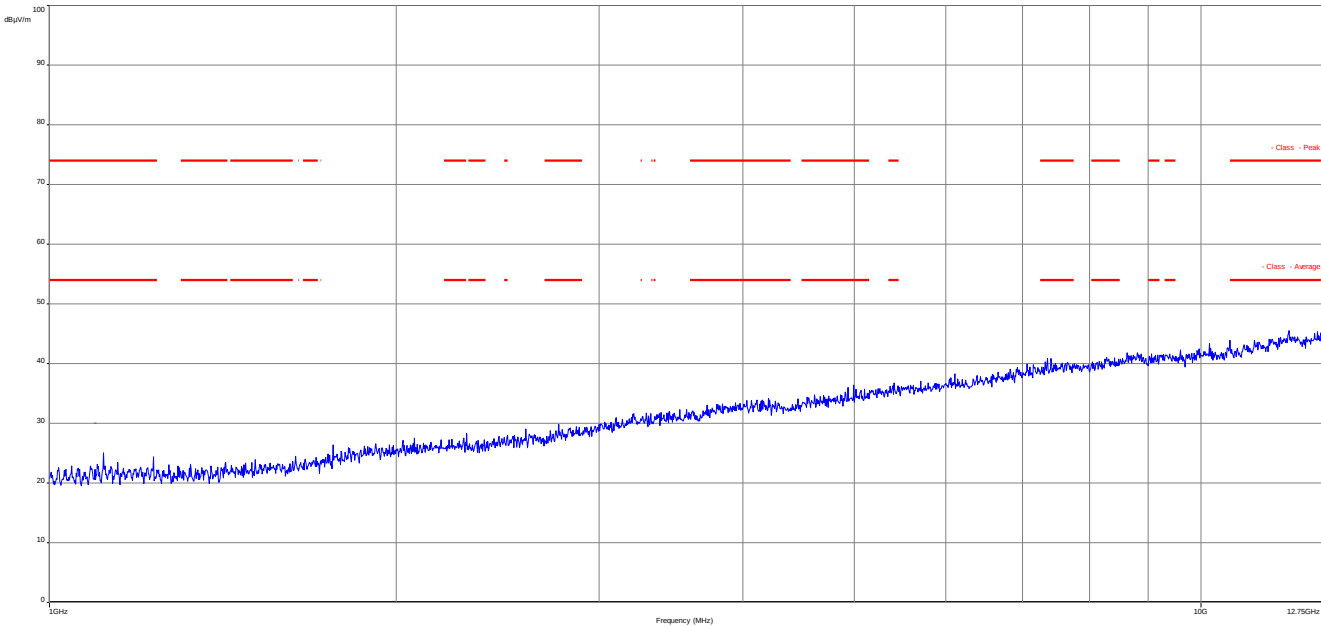
Plot 1: 30 MHz to 1 GHz, RX mode, vertical & horizontal polarization



Final_Result:

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.025550	16.92	30.00	13.08	1000.0	120.000	170.0	V	-6	13.7
40.124700	11.27	30.00	18.73	1000.0	120.000	101.0	V	205	14.0
44.784600	10.75	30.00	19.25	1000.0	120.000	101.0	V	173	13.9
619.393050	17.98	36.00	18.02	1000.0	120.000	170.0	V	205	20.9
746.945550	19.81	36.00	16.19	1000.0	120.000	170.0	V	25	22.6
832.021800	20.67	36.00	15.33	1000.0	120.000	170.0	V	295	23.2

Plot 2: 1 GHz to 12.75 GHz, RX mode, vertical & horizontal polarization



10.4 Spurious emissions radiated < 30 MHz**Description:**

Measurement of the radiated spurious emissions in transmit mode below 30 MHz. The limits are recalculated to a measurement distance of 3 m with 40 dB/decade according CFR Part 2.

Measurement:

Measurement parameter	
Detector:	Peak / Quasi peak
Sweep time:	Auto
Video bandwidth:	F < 150 kHz: 200 Hz F > 150 kHz: 9 kHz
Resolution bandwidth:	F < 150 kHz: 1 kHz F > 150 kHz: 100 kHz
Span:	9 kHz to 30 MHz
Trace-Mode:	Max Hold

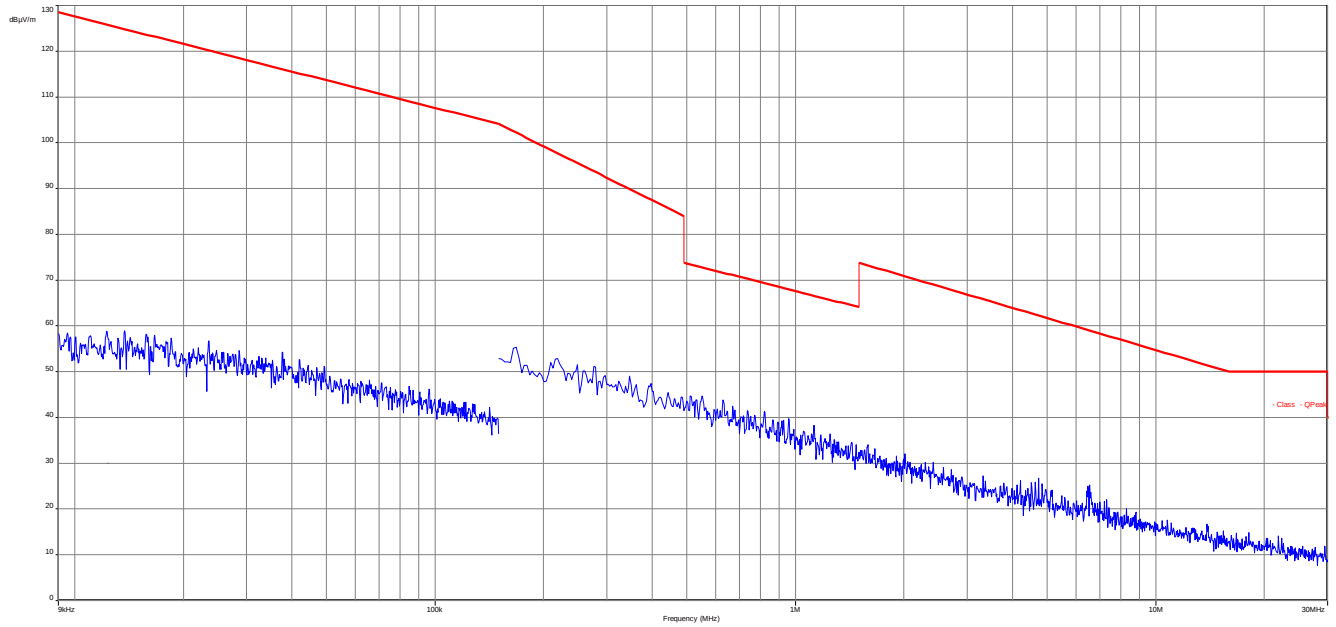
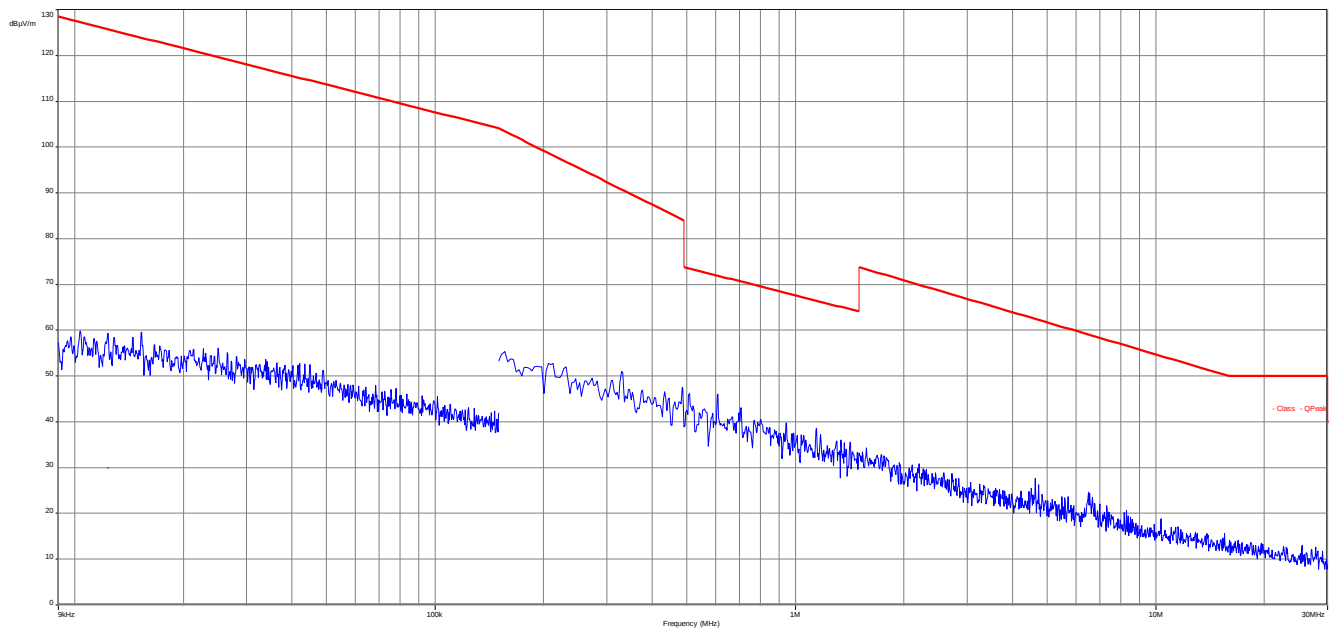
Limits:

FCC		IC
TX spurious emissions radiated < 30 MHz		
Frequency (MHz)	Field strength (dBμV/m)	Measurement distance
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Results:

TX spurious emissions radiated < 30 MHz [dBμV/m]		
F [MHz]	Detector	Level [dBμV/m]
No emissions detected!		
Measurement uncertainty	± 3 dB	

Verdict: **Passed**

Plots:**Plot 1: 9 kHz to 30 MHz, TX mode****Plot 2: 9 kHz to 30 MHz, RX mode**

11 Test equipment and ancillaries used for tests

Typically, the calibrations of the test apparatus are commissioned to and performed by an accredited calibration laboratory. The calibration intervals are determined in accordance with the DIN EN ISO/IEC 17025. In addition to the external calibrations, the laboratory executes comparison measurements with other calibrated test systems or effective verifications. Weekly chamber inspections and range calibrations are performed. Where possible, rf-generating and signalling equipment as well as measuring receivers and analyzers are connected to an external high-precision 10 MHz reference (GPS-based or rubidium frequency standard).

In order to simplify the identification of the equipment used at some special tests, some items of test equipment and ancillaries can be provided with an identifier or number in the equipment list below (Lab/Item).

No.	Lab / Item	Equipment	Type	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	45	Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368	g		
2	45	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	27.01.2014	27.01.2015
3	45	Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745	izw		
4	45	Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746	izw		
5	45	Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747	izw		
6	45	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	22.04.2014	22.04.2016
7	n. a.	Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032	vKI!	08.05.2013	08.05.2015
8	n. a.	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev		
9	n. a.	Switch / Control Unit	3488A	HP Meßtechnik	*	300000199	ne		
10	90	Active Loop Antenna 10 kHz to 30 MHz	6502	Kontron Psychotech	8905-2342	300000256	k	13.06.2013	13.06.2015
11	90	Amplifier	js42-00502650-28-5a	Parzich GMBH	928979	300003143	ne		
12	90	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	371	300003854	vKI!	29.10.2014	29.10.2017
13	90	MXE EMI Receiver 20 Hz to 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405	k	13.03.2014	13.03.2015

Agenda: Kind of Calibration

k	calibration / calibrated	EK	limited calibration
ne	not required (k, ev, izw, zw not required)	zw	cyclical maintenance (external cyclical maintenance)
ev	periodic self verification	izw	internal cyclical maintenance
Ve	long-term stability recognized	g	blocked for accredited testing
vKI!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress

12 Observations

No observations except those reported with the single test cases have been made.

Annex A Document history

Version	Applied changes	Date of release
	Initial release	2015-02-03
A	New model name	2015-03-03

Annex B Further information**Glossary**

AVG	-	Average
DUT	-	Device under test
EMC	-	Electromagnetic Compatibility
EN	-	European Standard
EUT	-	Equipment under test
ETSI	-	European Telecommunications Standard Institute
FCC	-	Federal Communication Commission
FCC ID	-	Company Identifier at FCC
HW	-	Hardware
IC	-	Industry Canada
Inv. No.	-	Inventory number
N/A	-	Not applicable
PP	-	Positive peak
QP	-	Quasi peak
S/N	-	Serial number
SW	-	Software

Annex C Accreditation Certificate

Front side of certificate

Back side of certificate



Deutsche Akkreditierungsstelle GmbH

Befehlens gemäß § 8 Absatz 1 AkkStelleG i.V.m. § 1 Absatz 1 AkkStelleGBV
 Unterzeichnerin der Multilateralen Abkommen
 von EA, ILAC und INF zur gegenseitigen Anerkennung

Akkreditierung



Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass das Prüflaboratorium

CETECOM ICT Services GmbH
 Untertürkheimer Straße 6-10, 66117 Saarbrücken

die Kompetenz nach DIN EN ISO/IEC 17025:2005 besitzt, Prüfungen in folgenden Bereichen durchzuführen:

Drahtgebundene Kommunikation einschließlich xDSL
 VoIP und DECT
 Akustik
 Funk einschließlich WLAN
 Short Range Devices (SRD)
 RFID
 WiMax und Richtfunk
 Mobilfunk (GSM / GPRS, Over the Air (OTA) Performance)
 Elektromagnetische Verträglichkeit (EMV) einschließlich Automotive
 Produktsicherheit
 SAR und Hearing Aid Compatibility (HAC)
 Umweltsimulation
 Smart Card/Terminals
 Bluetooth
 Wi-Fi Services

Die Akkreditierungsurkunde gilt nur in Verbindung mit dem Bescheid vom 07.03.2014 mit der
 Akkreditierungsnummer D-PL-12076-01 und ist gültig 17.01.2018. Sie besteht aus diesem Deckblatt, der
 Rückseite des Deckblatts und der folgenden Anlage mit insgesamt 77 Seiten.

Registrierungsnummer der Urkunde: D-PL-12076-01-00

Frankfurt am Main, 07.03.2014

Zehn Stempel auf der Rückseite

Im Auftrag (PL-12076-01) Ralf Klinger
 Akkreditierungsstellenleiter

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 38115 Braunschweig

Die auszugsweise Veröffentlichung der Akkreditierungsurkunde bedarf der vorherigen schriftlichen
 Zustimmung der Deutschen Akkreditierungsstelle GmbH (DAkkS). Ausgenommen davon ist die separate
 Weiterverbreitung des Deckblattes durch die umseitig genannte Konformitätsbewertungsstelle in
 unveränderter Form.

Es darf nicht der Anschein erweckt werden, dass sich die Akkreditierung auch auf Bereiche erstreckt,
 die über den durch die DAkkS bestätigten Akkreditierungsbereich hinausgehen.

Die Akkreditierung erfolgt gemäß des Gesetzes über die Akkreditierungsstellen (AkkStelleG) vom
 31. Juli 2009 (BGBl. I S. 2675) sowie der Verordnung (EG) Nr. 765/2008 des Europäischen Parlaments
 und des Rates vom 9. Juli 2008 über die Vorschriften für die Akkreditierung und Marktüberwachung
 im Zusammenhang mit der Vermarktung von Produkten (Abt. L 218 vom 9. Juli 2008, S. 30).
 Die DAkkS ist Unterzeichnerin der Multilateralen Abkommen zur gegenseitigen Anerkennung der
 European Cooperation for Accreditation (EA), des International Accreditation Forum (IAF) und
 der International Laboratory Accreditation Cooperation (ILAC). Die Unterzeichner dieser Abkommen
 erkennen ihre Akkreditierungen gegenseitig an.

Der aktuelle Stand der Mitgliedschaft kann folgenden Webseiten entnommen werden:

EA: www.european-accreditation.org
 ILAC: www.ilac.org
 IAF: www.iaf.eu

Note:

The current certificate including annex is published on our website (see link below) or may be received from CETECOM ICT Services on request.

<http://www.cetecom.com/eu/de/cetecom-group/europa/deutschland-saarbruecken/akkreditierungen.html>