

# TEST REPORT No.: 16-1-0188601T04a

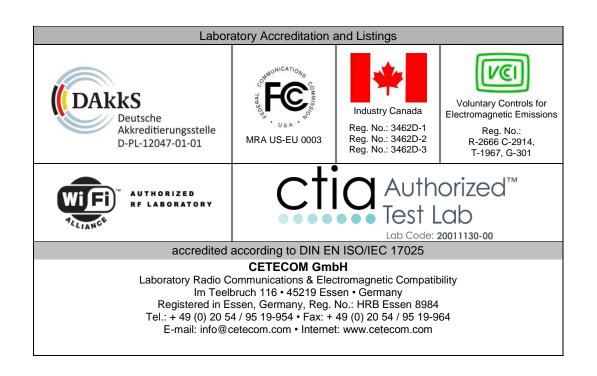
According to: FCC Regulations
Part 1.1310 , Part 2.1091

### for

## **Intel Corporation**

# VLMRX58G Video Link Module RX 5.8GHz + Intel FA5 Antenna TX Port 3

FCC ID: 2AJ2A-VLMRX58G





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## 1. Summary of test results

The test results apply exclusively to the test samples as presented in this Report. The CETECOM GmbH does not assume responsibility for any conclusions and generalizations taken in conjunction with other specimens or samples of the type of the item presented to tests.

Following tests have been performed to show compliance with applicable FCC Part 2.1091 and FCC Part 1.1310 of the FCC CFR 47 Rules.

The presented Equipment Under Test (in this report, hereinafter referred as EUT) supports radiofrequency technologies with 5GHz technology and operating frequency range from 5150 - 5850 with specified protocol implementation. Other implemented wireless technologies were not considered within this test report.

Measurements only valid and pass result with power setting: +11 dBm.

### 1.1. Summary of tests results

RF-Exposure Evaluation (separation distance user to RF-radiating element greater 20cm)							
Test cases	Port	Reference	s & Limits	EUT	EUT op.	Result	
Test cases	Fort	FCC Standard	Test Limit	set-up	mode	Result	
Radio frequency radiation exposure Requirements	Cabinet + Inter- Connecting Cables (conducted)	§2.1091 §2.1093	RF-Field Strength Limits: FCC: "general population/ uncontrolled" environment	1	1	Pass	

DiplIng. Rachid Acharkaoui	B.Eng. M. Nunier
Responsible for test section	Responsible for test report



# 1.2 Summary of product description

FCC ID:	2AJ2A-VLMRX58G				
Product name	VLMRX58G				
Exposure estadory	General population/uncontrolled environment				
Exposure category	Occupational exposure/controlled environment				
	☐ Conducted				
	□ ERP				
Output power	☐ EIRP				
	Peak				
	Source-based time-averaging				
Antenna gain	5.47dBi				
	☐ MIMO	☐ 3T3R			
Technology		☐ 4T4R			
		☐ 1T1R			
	non-MIMO	∑ 1T2R			
		☐ 2T1R			
Evaluation type					
Evaluation type	Simultaneous transmission				
Evaluation distance	∑ 20 cm				
Evaluation distance	XXX cm	declares by manufacturer			
EUT type	☐ Production Unit				
EO1 type	Engineering Unit				
Device type	Mobile device				
Device type	Fixed device				
	☐ CFR 47 FCC Part 2.1091				
Refer rules	☐ CFR 47 FCC Part 1.1310				
NOTO TUIES	KDB 447497 D01v06 October 23, 2015				
	XDB 865664 D01v01r02 October 23, 2015				

# 1.3 Refer Rules

ANSI C95.1–1999	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.				
KDB 447498 D01 v06 October 23,	Mobile and Portable Devices RF Exposure Procedures and Equipment				
2015	Authorization Policies.				
KDB 865664 D01v01r02 October 23, 2015	RF Exposure Compliance Reporting and Documentation Considerations.				
CFR 47 FCC Part 2.1091	Radiofrequency radiation exposure evaluation: mobile devices.				
CFR 47 FCC Part 1.1310	Radiofrequency radiation exposure limits.				

# 1.4 EUT Technologies

Wireless Technologies	Frequency bands	Operation mode	Duty cycle				
□GSM	□850 □1900	Voice (GMSK) 1 slot			<u>12.5%</u>		
_	Support DTM (Dual Transfer Mode)						
		CDDG (CMGK)	8	1 slot (1 Up, 4 Down)	12.5%		
			<u></u> 10	2 slots (2 Up, 4 Down)	☐12.5% ☐ 25%		
□GPRS	□850 □1900	GPRS (GMSK) Multi – Slot Class	☐ 12	4 slots (4 Up, 4 Down)	☐ 12.5% ☐ 25% ☐ 37.5% ☐ 50%		
Персе	850	EDGE (8-PSK)	□ 8	1 slot (1 Up, 4 Down)	12.5%		
□EDGE	1900	Multi – Slot Class	10	2 slots (2 Up, 4 Down)	12.5%		



					25%		
			☐ 12	4 slots (4 Up, 4 Down)	☐ 12.5% ☐ 25% ☐ 37.5% ☐ 50%		
□WCDMA (UMTS)	□Band II □Band IV □Band V	HSDPA(Rel.5) HSUPA(Rel.6) DC-HSDPA(Rel.7) HSPA+(Rel.7)	HSUPA(Rel.6) DC-HSDPA(Rel.8)				
CDMA (CDMA2000)	□BC0 □BC1 □BC10	1xEVDO Rel.0 1xEVDO Rel.A 1xAdvanced	1xEVDO Rel.A				
□LTE-FDD	Band 2 Band 4 Band 5 Band 7 Band 12 Band 13 Band 17 Band 25 Band 26 Band 27 Band 30	□ QPSK □ 16QAM □ Rel.11 Carrier Aggregation	2 Uplinks Uplinks	s 2 Downlinks s 3 Downlinks s 2 Downlinks s 3 Downlinks	100%		
	Supports SV-LTI	$\square QPSK$			63.3%		
□LTE-TDD	Band 38 Band 39 Band 40 Band 41 Band 42	☐ Rel.11 Carrier Aggregation	2 Uplinks Uplinks	s 2 Downlinks s 3 Downlinks s 2 Downlinks s 3 Downlinks	This device supports uplink –downlink configuration 0-6. The configuration with highest duty cycle was used (configuration. 0 at 63.3%)		
	Supports SV-LTI	E (1xRTT-LTE)			1		
		☐IEEE 802.11b	2412 - 24 $2412 - 24$ $2412 - 24$	472 MHz	□100%		
	□2.4GHz	☐ IEEE 802.11g ☐ IEEE 802.11n	2412 - 24 $2412 - 24$ $2412 - 24$	462 MHz	☐100% ☐100%		
		HT20 ☐ IEEE 802.11n HT40	2412 - 24		<u>100%</u>		
□Wi-Fi		☐IEEE 802.11a	☐ 5180 - 52 ☐ 5260 - 53 ☐ 5500 - 53 ☐ 5745 - 58	320 MHz 700 MHz 825 MHz	☐100%		
	□5GHz	☐ IEEE 802.11n HT20	☐ 5180 - 52 ☐ 5260 - 53 ☐ 5500 - 57 ☐ 5745 - 58	320 MHz 700 MHz 825 MHz	□100%		
		☐ IEEE 802.11n HT40		310 MHz 670 MHz 795 MHz	□100%		
		☐IEEE 802.11ac		240 MHz	<u>100%</u>		



Test Report 10-1-0	10000110+a, 1 age 0 oj 10			ANGELS DESCRIPTION OF THE
		VHT20	5260 − 5320 MHz 5500 − 5700 MHz 5745 − 5825 MHz	
		☐IEEE 802.11ac VHT40	5190 - 5230 MHz 5270 - 5310 MHz 5510 - 5670 MHz 5755 - 5795 MHz	□100%
		☐IEEE 802.11ac VHT80	5210 - 5210 MHz 5290 - 5290 MHz 5530 - 5530 MHz 5775 - 5775 MHz	100%
	Supports Band ga	p channels		
Others	⊠5GHz	☐ 40 MHz   Bandwidth	∑5190 – 5230 MHz ∑5270 – 5310 MHz ∑5510 – 5670 MHz ∑5755 – 5795 MHz	⊠100%
Bluetooth	□2.4GHz	Version 2.1+EDR  Version 3.0+HS  Version 4.0  Version 4.1+EDR  Version 4.2+EDR		77.5%
1.5 Antenna I	nformation			
Wireless Technologies	Frequency bands	Antenna type	Maximum antenna gain	
□GSM	<b>□</b> 850	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	☐Antenna 1	
□GSM	☐1900	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	Antenna 1	
		□PIFA		

□PCB

□PIFA □PCB

□PIFA □PCB

> □PIFA □PCB

PIFA

PCB

□PIFA □PCB

PIFA

PCB

PIFA

☐Band II

☐Band IV

Band V

CDMA800

Antenna 0

Antenna 1

Antenna 0

Antenna 1

Antenna 0

Antenna 1

Antenna 0

Antenna 1

□CDMA

(CDMA2000)

☐WCDMA (UMTS)



		□PCB		
	[]CDMA1000	□PIFA □PCB	☐Antenna 0	
	□CDMA1900	□PIFA □PCB	☐Antenna 1	
	_	□PIFA □PCB	☐Antenna 0	
	Band 2	□PIFA □PCB	☐Antenna 1	
	☐Band 4	□PIFA □PCB	Antenna 0	
	Band 4	□PIFA □PCB	Antenna 1	
	☐Band 5	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	Antenna 1	
		□PIFA □PCB	Antenna 0	
	□Band 7	□PIFA □PCB	Antenna 1	
□LTE-FDD	□Band 12	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	Antenna 1	
	☐Band 13	□PIFA □PCB	Antenna 0	
	Ванц 13	□PIFA □PCB	Antenna 1	
	☐Band 17	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	☐Antenna 1	
	□Band 25	□PIFA □PCB	Antenna 0	
		□PIFA □PCB	☐Antenna 1	
	☐Band 26	□PIFA □PCB	Antenna 0	
		∏PIFA ∏PCB	Antenna 1	



		☐ ☐PIFA		
	☐Band 27	□PCB	☐Antenna 0	
		□PIFA □PCB	☐Antenna 1	
	_	□PIFA □PCB	Antenna 0	
	Band 38	□PIFA □PCB	☐Antenna 1	
□LTE-TDD	☐Band 39	□PIFA □PCB	Antenna 0	
LIE-IDD	<u></u> вани 39	□PIFA □PCB	Antenna 1	
	Rand 40	□PIFA □PCB	Antenna 0	
	☐Band 40	□PIFA □PCB	☐Antenna 1	
	☐Band 41	□PIFA □PCB	☐Antenna 0	
		□PIFA □PCB	☐Antenna 1	
	☐Band 42	□PIFA □PCB	☐Antenna 0	
	<u></u> вани 42	□PIFA □PCB	☐Antenna 1	
		□PIFA □PCB	☐Antenna 0	
	□2.4GHz	□PIFA □PCB	☐Antenna 1	
∏Wi-Fi		□PIFA □PCB	☐Antenna 2	
	□5GHz	□PIFA □PCB	☐Antenna 0	
		□PIFA □PCB	☐Antenna 1	
		□PIFA □PCB	Antenna 2	
⊠Others	⊠5GHz	□PIFA □PCB ☑ Intel FA5	⊠Antenna 0	5190 – 5230 MHz: 6.15dBi 5270 – 5310 MHz: 6.15dBi 5510 – 5670 MHz: 8.02dBi 5755 – 5795 MHz: 8.02dBi
		│	☐Antenna 1	



		□PIFA		
		□РСВ	Antenna 2	
Bluetooth	□2.4GHz	□PIFA □PCB	Antenna 0	
		П	Antenna 0	

# 1.6 Description of EUT

Short description*)	EUT	Туре	S/N serial number	HW hardware status	SW software status
EUT A	VLMRX58G	Video Link Module RX 5.8 GHz	1ABOPRX10P RXD10031606 16	MAC Version 4.10.37.8	APP Version 3.13.20.0
EUT B	VLMRX58G	Video Link Module RX 5.8 GHz	1ABOPRX10P RXD10031604 83	MAC Version 4.10.37.8	APP Version 3.13.20.0
EUT C	Intel FA5	Circularly Polarized Patch Antenna	N/A	HW Version Antenna-002	
EUT D	Intel FA5	Circularly Polarized Patch Antenna	N/A	Antenna Cable Length: 40 cm	

<sup>\*)</sup> EUT short description is used to simplify the identification of the EUT in this test report.

# 1.7 Auxiliary Equipment (AE)

AE short description *)	Auxiliary Equipment	Туре	S/N serial number	HW hardware status	SW software status
AE 1	Test Tablet	Inari 8.3" AAVmobile		Intel® Atom <sup>TM</sup> CPU Z3795 RAM: 4 GB Full Touch Support	Windows Embedded 8.1 Industry Pro 64 bit + AppCom- Version 4.0.4.26 Software

<sup>\*)</sup> AE short description is used to simplify the identification of the auxiliary equipment in this test report.



# 1.8 EUT Set-ups

EUT set-up no.*)	Combination of EUT and AE	Remarks
set. 1	EUT B + EUT D + Cable 1 + Cable 2 + Cable 3 + Cable 4 + Cable 5 + (AE1)  (EUT D was used to terminate unused port) (AE 1 : was only used to activate test mode) [5 GHz RX Ports of EUT B were terminated using relevant ports of EUT D]	Set-up for conducted RF-tests.

<sup>\*)</sup> EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

# 1.9 Configuration of cables used for testing

Cable number	Item	Туре	S/N serial number	HW hardware status	Cable length
Cable 1	MCX to SMA Cable				40 cm
Cable 2	MCX to SMA Cable				40 cm
Cable 3	MCX to SMA Cable				40 cm
Cable 4	MCX to SMA Cable				40 cm
Cable 5	MCX to SMA Cable				40 cm



## 2 Administrative Data

## 2.1 Identification of the testing laboratory

Company name: CETECOM GmbH

Address: Im Teelbruch 116

45219 Essen - Kettwig

Germany

Responsible for testing laboratory: Dipl.-Ing. Rachid Acharkaoui

Deputy: Dipl.-Ing. Niels Jeß

### 2.2 Test location

### 2.2.1Test laboratory "CTC"

Company name: see chapter 2.1 Identification of the testing laboratory

## 2.3 Organizational items

Responsible for test report: B.Eng. Martin Nunier

Project leader: M.Sc. Ajit Phadtare

Receipt of EUT: 2017-01-12

Date(s) of test: 2017-02-01 to 2017-02-28

Date of report: 2017-04-24

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Version of template: 13.02

Remark 1: based on applicants tune-up info

#### 2.4 Applicant's details

Applicant's name: Intel Corporation

Address: 2200 Mission College Boulevard

Santa Clara, CA 95054

USA

Contact person: +1 408-765-8080

## 2.5 Manufacturer's details

Manufacturer's name: Intel Deutschland GmbH

Address: Konrad-Zuse-Bogen 4,

82152 Krailling, GERMANY



### 3 Measurements

#### 3.1.Test location

test location	☑ CETECOM Essen		
	For Evaluation instruments are not needed	d. Results are determined by calculation based	sed on applicants delivered Tune-Up
	procedure.		

#### 3.2 Evaluation Rules

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field planewave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

#### 3.3 Limits

Table 1: LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

	(A) Limits for Occupational/Controlled Exposure							
Frequency range [MHz)	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm <sup>2</sup> ]	Averaging time [minutes]				
0.3-3.0	614	1.63	(100)*	6				
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6				
30-300	61.4	0.163	1.0	6				
300-1500				6				
1500-100,000				6				
	(B) Limits for G	eneral Population/Uncontrol	olled Exposure					
Frequency range	Electric field strength	Magnetic field strength	Power density	Averaging time				
[MHz)	[V/m]	[A/m]	[mW/cm <sup>2</sup> ]	[minutes]				
0.3-3.0	614	1.63	*(100)	30				
3.0-30	824/f	2.19/f	*(180/f²)	30				
30-300	27.5	0.073	0.2	30				
300-1500	-	=	f/1500	30				
1500-100,000	-	=	1.0	30				

f=frequency in MHz

NOTE1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. These limits apply to amateur station licensees and members of their immediate household as discussed in the text.

NOTE2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. As discussed in the text, these limits apply to neighbours living near amateur radio stations.

<sup>\*</sup>Plane-wave equivalent power density



#### 3.4 MPE Calculation method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{EIRP}{4\pi R^2} = \frac{P * G}{4\pi R^2}$$

$$G_{NUMERIC} = \frac{S * 4\pi R^2}{P}$$

Where: S=power density P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the centre of radiation of the antenna

### 3.5 Conducted Output Power

	TT	NII-1 HT40				
E (MII-)		/	/	5220		
Frequency (MHz)	5190	/	/	5230		
Average Conducted Power	13.93	/	/	14.24		
(dBm)	13.73	/	,	14,24		
	U-N	NII-2A HT40				
Frequency (MHz)	5270	/	/	5310		
Average Conducted Power	14.41	/	/	15.11		
(dBm)	14.41	14.41	/	13.11		
	U-N	NII-2C HT40				
Frequency (MHz)	5510	5550	5590	5670		
Average Conducted Power	10.57	12.60	10.12	10.74		
(dBm)	12.57	12.68	12.13	12.74		
U-NII-3 HT40						
Frequency (MHz)	5755	/	/	5795		
Average Conducted Power	10.70	,	/	14.20		
(dBm)	12.78	/	/	14.30		

### 3.6 Evaluation Method

#### 3.6.1 Standalone

#### Valid for GSM/GPRS/EDGE mode:

- The power was tested on 3 frequencies (lowest/middle/highest) within each operable bands and the results compared to applicant's declared power values (tune-up info).
- Average burst power (slot power) and burst average values were measured;
- Measured burst average power at all TX slots possible for this device and calculated as worst-case
- A duty-cycle correction factor of 10\*log10 (max. number of possible active slots / 8 slots) were applied

Please find in the following tables the calculations based on applicants tune-up information for the power values. Also the maximum admissible allowed antenna gain is calculated which is not exceeding the MPE limit for fixed and mobile operations.

#### Valid for W-CDMA/LTE Mode:

- The power was checked on 3 frequencies (lowest/middle/highest) within each operable FDD-band and the results compared to applicant's declared power values (tune-up info).
- No duty-cycle correction factor is applicable



Please find in the following tables the calculations based on applicants tune-up information for the power values. Also the maximum admissible allowed antenna gain is calculated which is not exceeding the MPE limit for fixed and mobile operations.

#### Valid for WLAN/BT Mode:

- The average power was checked on 3 frequencies (lowest/middle/highest) within each operable WiFi band and the results compared to applicant's declared power values (tune-up info). A RMS detector was used.
- No duty-cycle correction factor is applicable

Please find in the following tables the calculations based on applicants tune-up information for the power values.

Wireless	Output power*		Antenna	Duty	MPE	MPE	
Technologies	dBm	mW	Gain (dBi)	Duty Cycle	(mW/cm <sup>2</sup> )	Limits (mW/cm <sup>2</sup> )	Verdict
U-NII-1 HT40	14.74	29.7852	6.15	100%	0.0244	1.0000	Pass
U-NII-2A HT40	17.11	51.4044	6.15	100%	0.0422	1.0000	Pass
U-NII-2C HT40	14.74	29.7852	8.02	100%	0.0376	1.0000	Pass
U-NII-3 HT40	16.30	42.6580	8.02	100%	0.0538	1.0000	Pass

#### Remark:

- 1. Output power (Average) including tune-up tolerance;
- 2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
- 3. MPE evaluate distance is 20cm from user manual provide by manufacturer;

#### 3.6.2 Simultaneous Transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;  $\sum$  of MPE ratios  $\leq 1.0$ 

VLMRX58G use only one transmitter antenna, no need consider simultaneous transmission.

#### 3.7 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.



## 4 Measurement uncertainties

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor  $\mathbf{k}$ , such that a confidence level of approximately 95% is achieved.

For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it's contribution to the overall uncertainty according it's statistical distribution calculated.

Following table shows expectable uncertainties for each measurement type performed.

RF-Measurement	Reference	Frequency range	Calculated uncertainty based on a confidence level of 95%			l	Remarks		
Conducted emissions (U CISPR)	CISPR 16-2-1	9 kHz - 150 kHz 150 kHz - 30 MHz	4.0 dB 3.6 dB						-
Radiated emissions Enclosure	CISPR 16-2-3	30 MHz - 1 GHz 1 GHz - 18 GHz	4.2 dE 5.1 dE						E-Field
Disturbance power	CISPR 16-2-2	30 MHz - 300 MHz	-						-
Power Output radiated	-	30 MHz - 4 GHz	3.17 d	В					Substitution method
De la Contraction de la contra		Set-up No.	Cel- C1	Cel- C2	BT1	W1	W2		
Power Output conducted	-	9 kHz - 12.75 GHz	N/A	0.60					-
		12.75 - 26.5GHz	N/A	0.82					
Conducted emissions	-	9 kHz - 2.8 GHz	0.70	N/A					N/A - not
on RF-port		2.8 GHz - 12.75GHz	1.48	N/A					applicable
		12.75 GHz - 18GHz	1.81	N/A					
		18 GHz - 26.5GHz	1.83	N/A					
			0.1272	2 ppm (	Delta N	Aarker)			Frequency
Occupied bandwidth	-	9 kHz - 4 GHz							error
			1.0 dE						Power
	-		0.1272	2 ppm (	Delta N	Aarker)			Frequency
Emission bandwidth		9 kHz - 4 GHz			<b>=</b> 0.15				error
	-		See above: 0.70 dB				Power		
Frequency stability	=	9 kHz - 20 GHz	0.0636 ppm				-		
Radiated emissions Enclosure	-	150 kHz - 30 MHz 30 MHz - 1 GHz 1 GHz - 20 GHz	5.0 dB 4.2 dB 3.17 dB			Magnetic field E-field Substitution			

Table: measurement uncertainties, valid for conducted/radiated measurements



# **5** Abbreviations used in this report

The abbreviation	S
ANSI	American National Standards Institute
AV, AVG, CAV	Average detector
EIRP	Equivalent isotropically radiated power, determined within a separate measurement
EUT	Equipment Under Test
FCC	Federal Communications Commission, USA
n.a.	not applicable
Op-Mode	Operating mode of the equipment
PK	Peak
RBW	resolution bandwidth
RF	Radio frequency
RSS	Radio Standards Specification, Documents from Industry Canada
Rx	Receiver
TCH	Traffic channel
Tx	Transmitter
QP	Quasi peak detector
VBW	Video bandwidth
ERP	Effective radiated power



# 6 Accreditation details of CETECOM's laboratories and test sites

Ref No.	Accreditation Certificate	Valid for laboratory area or test site	Accreditation Body
-	D-PL- 12047-01-01	All laboratories and test sites of CETECOM GmbH, Essen	DAkkS, Deutsche Akkreditierungsstelle GmbH
337 487 558 348 348	MRA US-EU 0003	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem.	FCC, Federal Communications Commission Laboratory Division, USA
337 487 550 558	3462D-1 3462D-2 3462D-2 3462D-3	Radiated Measurements 30 MHz to 1 GHz, 3 m / 10 m (OATS) Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Radiated Measurements above 1 GHz, 3 m (FAR)	IC, Industry Canada Certification and Engineering Bureau
487 550 348 348	R-2666 G-301 C-2914 T-1967	Radiated Measurements 30 MHz to 1 GHz, 3 m (SAR) Radiated Measurements 1 GHz to 6 GHz, 3 m (SAR) Mains Ports Conducted Interference Measurements Telecommunication Ports Conducted Interference Measurem. st Site, SAR = Semi Anechoic Room, FAR = Fully Anechoic Room	VCCI, Voluntary Control Council for Interference by Information Technology Equipment, Japan



# 7 Test report version

Version	Applied changes	Date of release
	Initial release	2017-04-24