



CETECOM ICT Services

consulting - testing - certification >>>

TEST REPORT

Test report no.: 1-2065/16-01-05





Testing laboratory

CETECOM ICT Services GmbH

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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-12076-01-01

Applicant

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Manufacturer

SBO Hearing A/S

Kongebakken 9

2765 Smørum / DENMARK

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

RSS - 210 Issue 8 RSS-210, Amendment 1 — Licence-Exempt, Low-Power Radio Apparatus

Amendment 1 Operating in the Television Bands (February 2015)

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

Test Item

Kind of test item: Wireless programmer

Model name: FittingLINK WP-2

FCC ID: 2ACAHWLP021

IC: 11936A-WLP021

Frequency: 3.84 MHz

Technology tested: Magnetic coupling

Antenna: External loop-neck antenna
Power supply: 3.7 V DC by Li-lon battery

Temperature range: 22°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.

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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: 2016-06-16
Date of receipt of test item: 2016-08-15
Start of test: 2016-07-19
End of test: 2016-08-17

Person(s) present during the test: -/-

3 Test standard/s and references

Test standard	Date	Description
47 CFR Part 15	-/-	Title 47 of the Code of Federal Regulations; Chapter I; Part 15 - Radio frequency devices
RSS - 210 Issue 8	December 2010	Spectrum Management and Telecommunications Radio Standards Specification - Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment
RSS - 210 Issue 8 Amendment 1	February 2015	RSS-210, Amendment 1 — Licence-Exempt, Low-Power Radio Apparatus Operating in the Television Bands (February 2015)
RSS - Gen Issue 4	November 2014	Spectrum Management and Telecommunications Radio Standards Specifications - General Requirements and Information for the Certification of Radio Apparatus



Guidance	Version	Description
ANSI C63.4-2014	-/-	American national standard for methods of measurement of radio- noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
ANSI C63.10-2013	-/-	American national standard of procedures for compliance testing of unlicensed wireless devices



Test environment

Temperature		T _{nom} T _{max}	+22 °C during room temperature tests No tests under extreme conditions required.
		T _{min}	No tests under extreme conditions required.
Relative humidity content :			52 %
Barometric pressure :			not relevant for this kind of testing
		V_{nom}	3.7 V DC by Li-lon battery
Power supply	:	V_{max}	No tests under extreme conditions required.
		V_{min}	No tests under extreme conditions required.

Test item

General description 5.1

Kind of test item :	Wireless programmer
Type identification :	FittingLINK WP-2
HMN :	-/-
PMN :	FittingLINK
HVIN :	WP-2
FVIN :	3.0.7
S/N serial number :	EUT No. 1929160
HW hardware status :	Product rev: 142721 rev. 2, Assembly rev: 143001 rev. 3, PCB: 132524 rev. 05
SW software status :	3.0.7
Frequency band :	3.84 MHz
Type of radio transmission: Use of frequency spectrum:	Modulated carrier
Type of modulation :	MSK
Number of channels :	1
Antenna :	External loop-neck antenna
Power supply :	3.7 V DC by Li-lon battery
Temperature range :	22°C

5.2 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: 1-2065/16-01-01 AnnexA

1-2065/16-01-01 AnnexB

1-2065/16-01-01_AnnexD

Test laboratories sub-contracted

None



7 Description of the test setup

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 signaling 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).

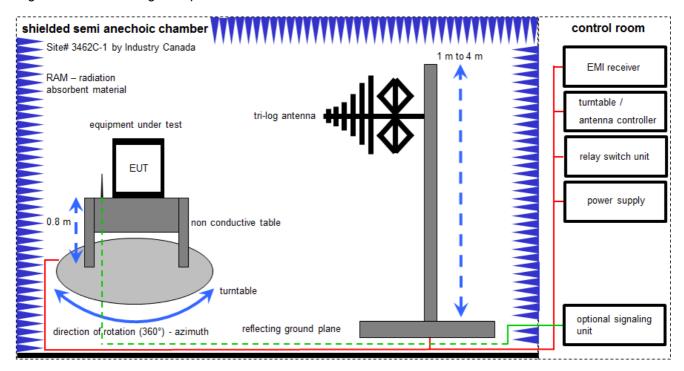
Agenda: Kind of Calibration

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
vlkl!	Attention: extended calibration interval		
NK!	Attention: not calibrated	*)	next calibration ordered / currently in progress



7.1 Shielded semi anechoic chamber

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 analyzers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Measurement distance: tri-log antenna 10 meter

FS = UR + CL + AF

(FS-field strength; UR-voltage at the receiver; CL-loss of the cable; AF-antenna factor)

Example calculation:

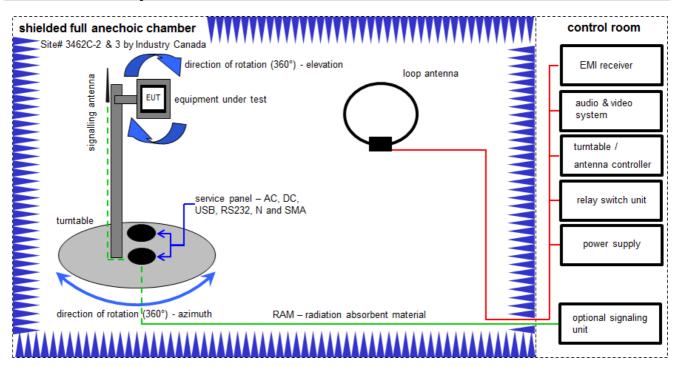
FS $[dB\mu V/m] = 12.35 [dB\mu V/m] + 1.90 [dB] + 16.80 [dB/m] = 31.05 [dB\mu V/m] (35.69 \(\mu V/m \))$

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Switch-Unit	3488A	HP	2719A14505	300000368	ev	-/-	-/-
2	Α	EMI Test Receiver	ESCI 3	R&S	100083	300003312	k	08.03.2016	08.03.2017
3	Α	Antenna Tower	Model 2175	ETS-Lindgren	64762	300003745	izw	-/-	-/-
4	Α	Positioning Controller	Model 2090	ETS-Lindgren	64672	300003746	izw	-/-	-/-
5	Α	Turntable Interface- Box	Model 105637	ETS-Lindgren	44583	300003747	izw	-/-	-/-
6	Α	TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787	k	25.04.2016	25.04.2018



7.2 Shielded fully anechoic chamber



Measurement distance: loop antenna 3 meter

FS = UR + CA + AF

(FS-field strength; UR-voltage at the receiver; CA-loss of the signal path; AF-antenna factor)

Example calculation:

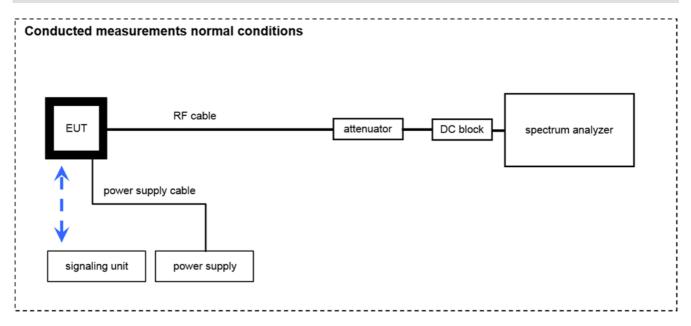
 $FS [dB\mu V/m] = 40.0 [dB\mu V/m] + (-35.8) [dB] + 32.9 [dB/m] = 37.1 [dB\mu V/m] (71.61 \ \mu V/m)$

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	Α	Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996	ev	-/-	-/-
2	Α	Switch / Control Unit	3488A	HP	*	300000199	ne	-/-	-/-
3	Α	Active Loop Antenna 10 kHz to 30 MHz	6502	EMCO/2	8905-2342	300000256	k	24.06.2015	24.06.2017
4	Α	4U RF Switch Platform	L4491A	Agilent Technologies	MY50000037	300004509	ne	-/-	-/-
5	А	EMI Test Receiver 9kHz-26,5GHz	ESR26	R&S	101376	300005063	k	04.09.2015	04.09.2016



7.3 Conducted measurements



OP = AV + CA

(OP-output power; AV-analyzer value; CA-loss signal path)

Example calculation:

OP [dBm] = 6.0 [dBm] + 11.7 [dB] = 17.7 [dBm] (58.88 mW)

Equipment table:

No.	Lab / Item	Equipment	Туре	Manufact.	Serial No.	INV. No Cetecom	Kind of Calibration	Last Calibration	Next Calibration
1	А	EMI Test Receiver 9 kHz - 3 GHz incl. Preselector	ESPI3	R&S	101713	300004059	k	26.01.2016	26.01.2017
2	Α	RF-Cable	ST18/SMAm/SMAm/ 60	Huber & Suhner	Batch no. 606844	400001181	ev	-/-	-/-
3	Α	DC-Blocker 0.1-40 GHz	8141A	Inmet	Batch no. 606844	400001185	ev	-/-	-/-



8 Sequence of testing

8.1 Sequence of testing radiated spurious 9 kHz to 30 MHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a 2-axis positioner with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed directly on the turn table.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.5 m.
- At each turntable position the analyzer sweeps with positive-peak detector to find the maximum of all
 emissions.

Final measurement

- Identified emissions during the premeasurement are maximized by the software by rotating the turntable from 0° to 360°. In case of the 2-axis positioner is used the elevation axis is also rotated from 0° to 360°.
- The final measurement is done in the position (turntable and elevation) causing the highest emissions with quasi-peak (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. A plot with the graph of the premeasurement and the limit is stored.



8.2 Sequence of testing radiated spurious 30 MHz to 1 GHz

Setup

- The equipment is set up to simulate normal operation mode as described in the user manual or defined by the manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables are positioned to simulate normal operation conditions as described in ANSI C 63.4.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- Measurement distance is 10 m or 3 m (see ANSI C 63.4) see test details.
- EUT is set into operation.

Premeasurement

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 m to 3 m.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement

- The final measurement is performed for at least six highest peaks according to the requirements of the ANSI C63.4.
- Based on antenna and turntable positions at which the peak values are measured the software maximize the peaks by changing turntable position ± 45° and antenna height between 1 and 4 m.
- The final measurement is done with quasi-peak detector (as described in ANSI C 63.4).
- Final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit are recorded. A plot with the graph of the premeasurement with marked maximum final results and the limit is stored.



9 Measurement uncertainty

Measurement uncertainty						
Test case Uncertainty						
Occupied bandwidth	± used RBW					
Field strength of the fundamental	± 3 dB					
Field strength of the harmonics and spurious	± 3 dB					
Receiver spurious emissions and cabinet radiations	± 3 dB					
Conducted limits	± 2.6 dB					



10 Summary of measurement results

\boxtimes	No deviations from the technical specifications were ascertained
	There were deviations from the technical specifications ascertained
	This test report is only a partial test report. The content and verdict of the performed test cases are listed below.

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210 Issue 8 RSS Gen Issue 4	See table!	2016-08-18	-/-

Test specification clause	Test case	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
RSS Gen Issue 4 (6.6)	Occupied bandwidth	Nominal	Nominal	\boxtimes				-/-
§ 15.209	Field strength of the fundamental	Nominal	Nominal	\boxtimes				-/-
§ 15.209 RSS Gen Issue 4 (6.13)	Field strength of the harmonics and spurious	Nominal	Nominal	\boxtimes				-/-
§ 15.109	Receiver spurious emissions and cabinet radiations	Nominal	Nominal	\boxtimes				-/-
§15.107 §15.207	Conducted limits	Nominal	Nominal			\boxtimes		-/-

Note: NA = Not applicable; NP = Not performed; C = Compliant; NC = Not compliant



1	1 /	bb4	itiona	l comm	ents

Reference documents: none

Manufacturer declaration:

The provided test sample for radiated measurements had a transmitter duty cycle of 50% for each of the tests, this is also the normal use duty cycle.

Special test descriptions:

We perform the radiated pre-scans in different spherical positions and consolidate the results in one result plot. The test procedure includes scans in the theta axes every 120° and in phi axes @ 0° and 90° for both polarizations vertical & horizontal or magnetic emissions.

Configuration descriptions: None



12 Measurement results

12.1 Occupied bandwidth

Measurement:

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

Measurement parameters			
Detector:	Peak		
Resolution bandwidth:	1 % – 5 % of the occupied bandwidth		
Video bandwidth:	≥ 3x RBW		
Trace mode:	Max hold		
Analyser function:	99 % power function		
Used test setup:	See sub clause 7.3 - A		
Measurement uncertainty:	See sub clause 8		

Limit:

IC
for RSP-100 test report coversheet only

Result:

99% emission bandwidth	
420 kHz	

Plot: EUT No 1929160

Plot 1: 99 % emission bandwidth



Date: 17.AUG.2016 14:18:35



12.2 Field strength of the fundamental

Measurement:

The maximum detected field strength for the carrier signal.

Measurement parameters				
Detector:	Quasi peak / peak (worst case)			
Resolution bandwidth:	9 kHz			
Video bandwidth:	≥ 3x RBW			
Trace mode:	Max hold			
Used test setup	See sub clause 7.2 - A			
Measurement uncertainty:	See sub clause 8			

Limit:

FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/m)	(m)		
1.705 – 30.0	30	30		

Recalculation:

According to ANSI C63.10				
Frequency Formula Correction value				
3.84 MHz	$FS_{limit} = FS_{max} - 40 \log \left(rac{d_{nearried}}{d_{measure}} - 20 \log \left(rac{d_{limit}}{d_{nearried}} ight)$	-32.35		

Result: EUT No 1929160

Field strength of the fundamental					
Frequency	3.84 MHz				
Distance	@ 3 m	@ 30 m			
Measured / calculated value (peak measurement)	57.3 dBμV/m	25.0 dBµV/m			
Measured / calculated value (QP measurement)	56.9 dBµV/m	24.6 dBµV/m			



12.3 Field strength of the harmonics and spurious

Measurement:

The maximum detected field strength for the harmonics and spurious.

Measurement parameters			
Detector:	Quasi peak / average or		
Detector.	peak (worst case – pre-scan)		
	F < 150 kHz: 200 Hz		
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz		
	30 MHz < F < 1 GHz: 120 kHz		
	F < 150 kHz: 1 kHz		
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz		
	30 MHz < F < 1 GHz: 300 kHz		
Trace mode:	Max hold		
Used test setup:	9 kHz to 30 MHz: see sub clause 7.2 - A		
	30 MHz to 1 GHz: see sub clause 7.1 - A		
Measurement uncertainty:	See sub clause 8		

Limit:

FCC & IC				
Frequency	Field strength	Measurement distance		
(MHz)	(dBµV/m)	(m)		
0.009 - 0.490	2400/F(kHz)	300		
0.490 - 1.705	24000/F(kHz)	30		
1.705 – 30	30 (29.5 dBμV/m)	30		
30 – 88	100 (40 dBμV/m)	3		
88 – 216	150 (43.5 dBµV/m)	3		
216 – 960	200 (46 dBμV/m)	3		

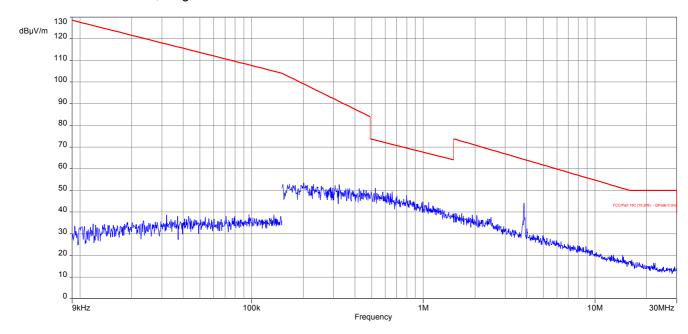
Result:

Detected emissions							
Frequency (MHz) Detector Resolution bandwidth (kHz) Detected value							
All emissions were more than 10 dB below the limit. For emissions between 30 MHz and 1 GHz, see table							
below the plot.							



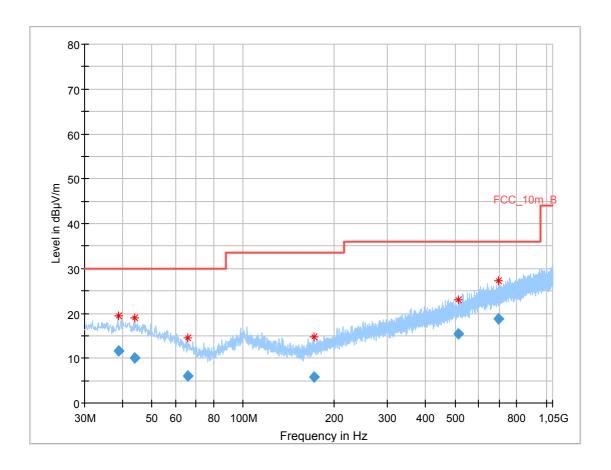
Plots: EUT No 1929160

Plot 1: 9 kHz – 30 MHz, magnetic emissions





Plot 2: 30 MHz – 1 GHz, vertical and horizontal polarisation



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.762550	11.55	30.00	18.45	1000.0	120.000	101.0	٧	190.0	14.0
43.755150	10.10	30.00	19.90	1000.0	120.000	101.0	٧	171.0	13.9
65.873100	5.95	30.00	24.05	1000.0	120.000	101.0	٧	171.0	9.3
171.558600	5.80	33.50	27.70	1000.0	120.000	101.0	٧	80.0	9.8
512.032650	15.43	36.00	20.57	1000.0	120.000	98.0	٧	280.0	18.9
695.967150	18.75	36.00	17.25	1000.0	120.000	100.0	٧	170.0	21.5



12.4 Receiver spurious emissions and cabinet radiations

Measurement:

The maximum detected field strength for the spurious.

Measurement parameters				
Detector:	Quasi peak / average or			
Detector.	peak (worst case – pre-scan)			
	F < 150 kHz: 200 Hz			
Resolution bandwidth:	150 kHz < F < 30 MHz: 9 kHz			
	30 MHz < F < 1 GHz: 120 kHz			
	F < 150 kHz: 1 kHz			
Video bandwidth:	150 kHz < F < 30 MHz: 100 kHz			
	30 MHz < F < 1 GHz: 300 kHz			
Trace mode:	Max hold			
Used test setup	See sub clause 7.1 - A			
Measurement uncertainty:	See sub clause 8			

Limit:

FCC & IC						
Frequency	Field strength	Measurement distance				
(MHz)	(dBµV/m)	(m)				
30 – 88	100 (40 dBμV/m)	3				
88 – 216	150 (43.5 dBµV/m)	3				
216 – 960	200 (46 dBμV/m)	3				

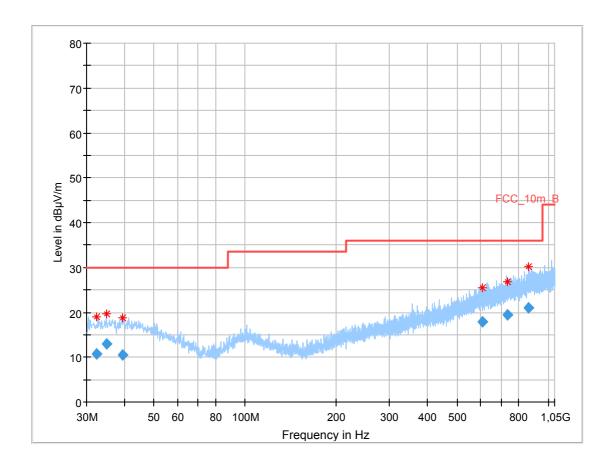
Result:

Detected emissions						
Frequency (MHz)	Detector	Resolution bandwidth (kHz)	Detected value			
See table below the plot.						



Plots: EUT No 1929160

Plot 1: 30 MHz – 1 GHz, vertical and horizontal polarisation



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.291250	10.76	30.00	19.24	1000.0	120.000	101.0	٧	100.0	13.6
35.031000	12.97	30.00	17.03	1000.0	120.000	101.0	٧	190.0	13.8
39.551550	10.44	30.00	19.56	1000.0	120.000	101.0	Н	10.0	14.0
607.495650	17.96	36.00	18.04	1000.0	120.000	170.0	Н	280.0	20.8
733.096050	19.41	36.00	16.59	1000.0	120.000	101.0	٧	81.0	22.3
858.847050	20.95	36.00	15.05	1000.0	120.000	100.0	Н	260.0	23.6



13 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	2016-08-18

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

PMN - Product marketing name HMN - Host marketing name

HVIN - Hardware version identification number FVIN - Firmware version identification number



Annex C Accreditation Certificate

Deutsche Akkreditierungsstelle GmbH

Ruitelene gemäß § Abstatz 1 Aktöselled IV.m. § 1 Abstatz 1 Aktöselled VUrterschnerin der Mutilitäterschen Aktorien von Ex. II.d. und M7 zur gegenzeitigen Anerkennung

Akkreditierung

Die Deutsche Akkreditierungsstelle GmbH bestätigt hiermit, dass des Prüflaboratorium

CEITECOM ICT Services GmbH

Untertürfindermer steht DN Ex 100/EC 17023-2005 bestätz, Prüfungen in folgenden Bereichen derunden von Ex. II.d. und M8 zur gegenzeitigen Anerkennung

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Manifelte (Sodd / Exc) - OTA.

Enthomogenation von erglichkeit (DMF)

Bill steht der Services GmbH

Manifelte (Sodd / Exc) - OTA.

Enthomogenation von erglichkeit (DMF)

Bill steht der Services (Sodd Abstation von gegenzeit einem Explain). Ausgewenen üben in der verzeitigen der Services (Sodd Abstation von gestellt einem Explain). Ausgewenen üben in der verzeitigen seine Vorsichen der verzeitigen der Services (Sodd Abstation von gestellt einem Explain). Ausgewenen üben in der verzeitigen seine Vorsichen von der Services (Sodd Abstation von der Services). Ausgewenen üben in der verzeitigen von dereitlichen von der Services der Services (Sodd Abstation von gestellt einem Explain). Ausgewenen üben ein der verzeitigen von dereitlichen von der Services der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von der Services) der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von der Services). Ausgewenen der Vorsichen der Services (Sodd Abstation von d

Note:

The current certificate including annex can be received from CETECOM ICT Services GmbH on request.