

Test report

Customer:

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EMC test report

120276-AU01+E02



Identive GmbH

Contact Card reader

CLOUD 2700 F



The test results refer exclusively
to the model tested.

This report must not be copied without
the written authorization by the lab.
Revision: 1.7



Deutsche
Akkreditierungsstelle
D-PL-12155-01-01

EMV **TESTHAUS** GmbH

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94315 Straubing
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Fax: +49 9421 56868 - 100
Email: company@emv-testhaus.com

Accreditation:



FCC facility registration number: 221458
Test Firm Type "2.948 listed": Valid until 27.06.2014
Test Firm Type "accredited": Valid until 19.06.2013
MRA US-EU, FCC designation number: DE0010

Location of testing:

EMV **TESTHAUS** GmbH
Gustav-Hertz-Straße 35
94315 Straubing

The technical accuracy is guaranteed through the quality management of the
EMV **TESTHAUS** GmbH.



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1 Test regulation

CFR 47 Part 2: 10-2010	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)
CFR 47 Part 15: 10-2010	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)
ANSI C63.4: 09-2009	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



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2 Summary of test results

FCC CFR 47 Part 15			
Section	Test	Page	Result
15.32 (1) (a) (i)	Radiated emission with open enclosure shall not exceed the limits specified in Section 15.109 by more than 6 dB	----	Not applicable
15.107	Conducted emission at AC power line 0,150 MHz to 30 MHz	12	Pass
15.107 15.109 (g) (4) 15.107	Conducted emission at AC power line 0,150 MHz to 30 MHz Limits: CISPR 22	12	<i>Pass</i>
15.109 15.33 (b)	Radiated emission 30 MHz – 1000 MHz Unintentional radiations 1.705 MHz – 108 MHz	19	Pass
15.109 15.33 (b) 15.109 (g)	Radiated emission 30 MHz – 1000 MHz Unintentional radiations 1.705 MHz – 108 MHz Limits: CISPR 22	19	<i>Pass</i>
15.109 15.33 (b)	Radiated emission above 1000 MHz	---	Not applicable (see note)

Note: No internal clock frequency above 108 MHz.



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3 Equipment under test

Product type:	Contact Card reader
Model name:	CLOUD 2700 F
Serial number:	5399YYWWMNNNNN
Manufacturer:	Identive Technologies India Pvt., Ltd.



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3.1 Photo documentation of EUT



Picture 1: Equipment under test



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3.2 Short description of the EUT

BAR CODE TYPE 128

3.3 Operation Mode

Settings: Continuously reading
Applied Software: CE Test V1.0.0, build 1

3.4 Configuration

The following peripheral devices and interface cables were connected during the tests:

Device	Model:	S/N
Contact Card reader	CLOUD 2700 F	5399YYWWMNNNNN
Notebook	Fujitsu test notebook	N/A
Chip card	Identive chip card	N/A

Used cables

Numbers:	Description: (type / lengths / remarks)	Serial No
1	USB cable, 1,5 m	N/A



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4 Product labeling

4.1 FCC Label and Location



Picture 2: Label

Information to the user:

Class B Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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5 Equipment modifications

To achieve compliance with the regulations, the following modifications were made by EMV **TESTHAUS** GmbH or a responsible employee of the manufacturer:

No modifications were carried out during testing.

The above modifications will be implemented in all production models of this equipment.

Applicant Signature _____ Date _____

Typed / Printed Name _____ Position _____



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6 Conducted emission test

according to CFR 47 Part 15 Subpart B Class B, Section 15.107

6.1 Conducted emission measurement from 150 kHz to 30 MHz

6.1.1 Location of measurement

Description	Manufacturer	Inventory Nr.
Shielded chamber	Siemens - Matsushita	E00107

6.1.2 Measurement equipment

	Description	Manufacturer	Inventory Nr.
<input checked="" type="checkbox"/>	ESU26	Rohde & Schwarz	W00001
<input type="checkbox"/>	ESH3 Z2	Rohde & Schwarz	E00028
<input checked="" type="checkbox"/>	ESH 2-Z5 (measuring)	Rohde & Schwarz	E00004
<input type="checkbox"/>	ESH 2-Z5 (decoupling)	Rohde & Schwarz	E00005
<input checked="" type="checkbox"/>	E10 v1.4.12	EMV TESTHAUS GmbH	E00443

Information about measurement uncertainty is on page 24.



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6.1.3 Limits

Frequency [MHz]	Quasi-peak [dB μ V]	Average [dB μ V]
0.15 – 0.5	66 - 56	56 – 46
0.5 – 5.0	56	46
5 – 30	60	50

6.1.4 Test method to demonstrate compliance

The tests of conducted emission were carried out in a shielded room using a line impedance stabilization network (LISN) 50 μ H/50 Ohms and a EMI test receiver.

The EMI test receiver was connected to the LISN and set to a measurement bandwidth of 9 kHz in the frequency range from 0.15 MHz to 30 MHz.

The EUT was placed on a wooden table and connected to the LISN.

To accelerate the measurement the detector of the EMI test receiver was set to peak and the whole frequency range from 0.15 MHz to 30 MHz were scanned. After that all peaks values with fewer margins than 10 dB to quasi-peak limit or exceeding the limit were marked and re-measured with quasi-peak detector. If after that all values are under the average limit no addition measurement is necessary. In case there are still values between quasi-peak and average limit than these values were re-measured again with an average detector.

These measurements were done on all current carrying conductors.



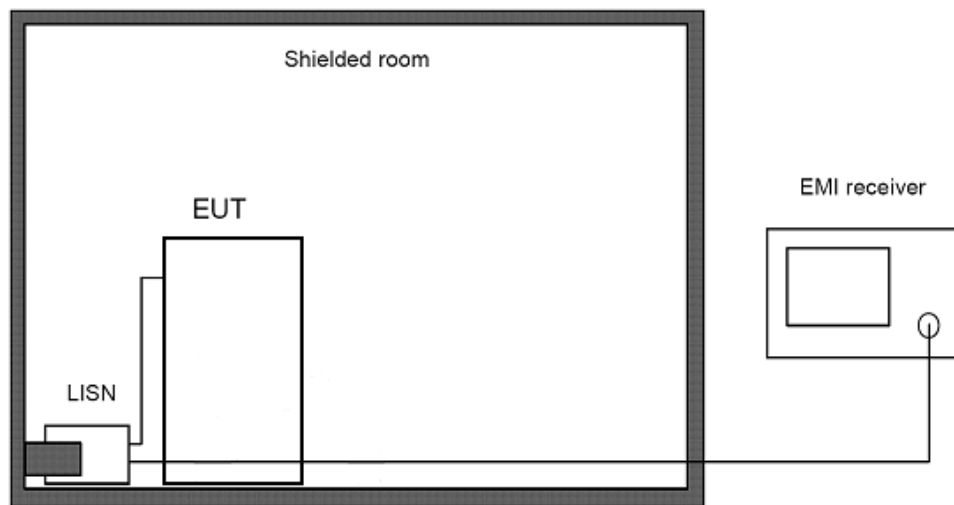
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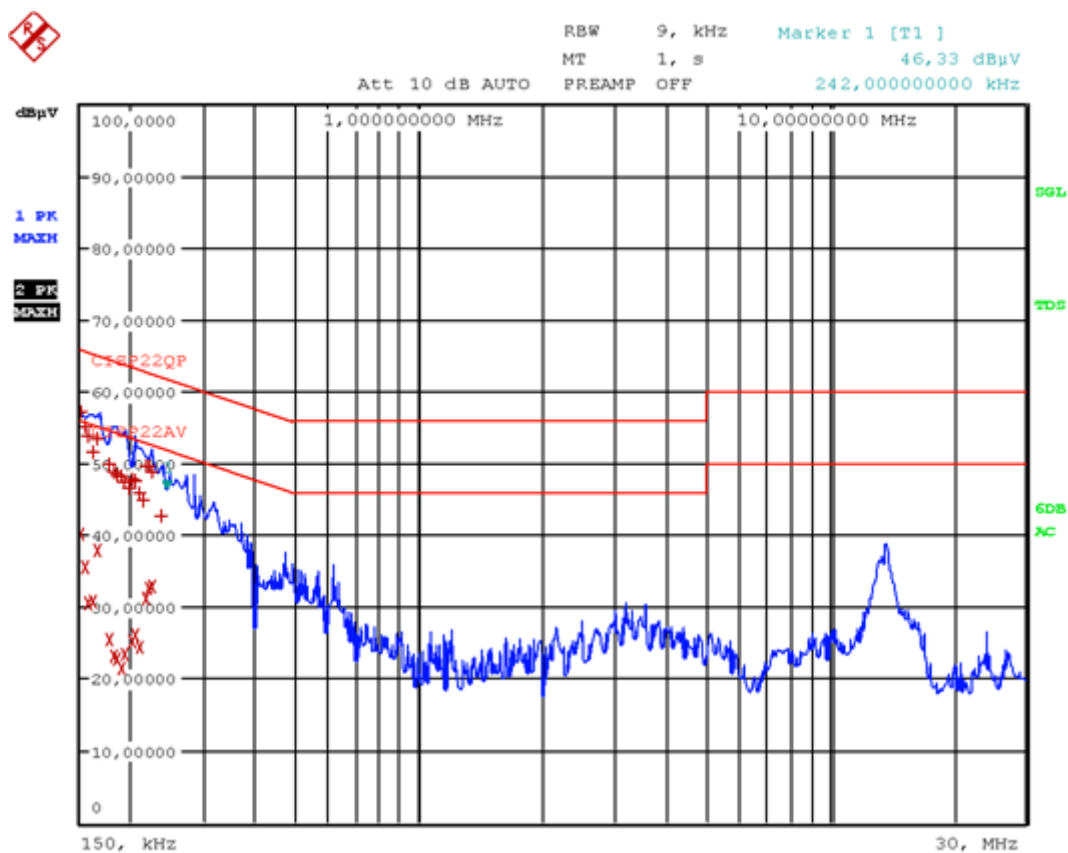
6.1.5 Test setup



Picture 3: Outline of conducted emission test setup

Comments:

6.2 Test result



Picture 4: Conducted emission – Line 1



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Trace#	Frequency#	Level(dBµV)#	Detector#	Delta-Limit/dB#
1#	150,000000000 ·kHz#	-57,30#	Quasi-Peak#	-8,70
2#	150,000000000 ·kHz#	-40,30#	Average#	-15,70
1#	154,000000000 ·kHz#	-55,08#	Quasi-Peak#	-10,70
2#	154,000000000 ·kHz#	-35,64#	Average#	-20,15
1#	158,000000000 ·kHz#	-53,90#	Quasi-Peak#	-11,67
2#	158,000000000 ·kHz#	-30,51#	Average#	-25,06
1#	162,000000000 ·kHz#	-51,65#	Quasi-Peak#	-13,71
2#	162,000000000 ·kHz#	-30,74#	Average#	-24,63
1#	166,000000000 ·kHz#	-53,42#	Quasi-Peak#	-11,74
2#	166,000000000 ·kHz#	-37,92#	Average#	-17,23
1#	178,000000000 ·kHz#	-49,90#	Quasi-Peak#	-14,68
2#	178,000000000 ·kHz#	-25,60#	Average#	-28,98
1#	182,000000000 ·kHz#	-48,94#	Quasi-Peak#	-15,45
2#	182,000000000 ·kHz#	-23,26#	Average#	-31,14
1#	186,000000000 ·kHz#	-48,45#	Quasi-Peak#	-15,76
2#	186,000000000 ·kHz#	-22,82#	Average#	-31,40
1#	190,000000000 ·kHz#	-48,24#	Quasi-Peak#	-15,80
2#	190,000000000 ·kHz#	-21,48#	Average#	-32,55
1#	194,000000000 ·kHz#	-47,41#	Quasi-Peak#	-16,45
2#	194,000000000 ·kHz#	-23,38#	Average#	-30,48
1#	198,000000000 ·kHz#	-46,63#	Quasi-Peak#	-17,06
1#	202,000000000 ·kHz#	-47,84#	Quasi-Peak#	-15,68
2#	202,000000000 ·kHz#	-25,30#	Average#	-28,23
1#	206,000000000 ·kHz#	-47,54#	Quasi-Peak#	-15,83
2#	206,000000000 ·kHz#	-26,07#	Average#	-27,30
1#	210,000000000 ·kHz#	-45,98#	Quasi-Peak#	-17,22
2#	210,000000000 ·kHz#	-24,46#	Average#	-28,74
1#	214,000000000 ·kHz#	-44,78#	Quasi-Peak#	-18,27
1#	218,000000000 ·kHz#	-49,61#	Quasi-Peak#	-13,29
2#	218,000000000 ·kHz#	-31,15#	Average#	-21,75
1#	222,000000000 ·kHz#	-49,63#	Quasi-Peak#	-13,11
2#	222,000000000 ·kHz#	-32,64#	Average#	-20,10
1#	226,000000000 ·kHz#	-48,88#	Quasi-Peak#	-13,72
2#	226,000000000 ·kHz#	-32,98#	Average#	-19,61
1#	238,000000000 ·kHz#	-42,79#	Quasi-Peak#	-19,37

Picture 5: Conducted emission – Line 1



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Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150,00000000 kHz	-59,82	Quasi Peak	-6,18
2	150,00000000 kHz	-41,90	Average	-14,10
1	154,00000000 kHz	-56,06	Quasi Peak	-9,72
2	154,00000000 kHz	-34,78	Average	-21,00
1	158,00000000 kHz	-52,88	Quasi Peak	-12,69
2	158,00000000 kHz	-29,15	Average	-26,42
1	162,00000000 kHz	-51,78	Quasi Peak	-13,58
2	162,00000000 kHz	-32,88	Average	-22,48
1	166,00000000 kHz	-54,50	Quasi Peak	-10,66
2	166,00000000 kHz	-39,84	Average	-15,32
1	170,00000000 kHz	-55,84	Quasi Peak	-9,12
2	170,00000000 kHz	-33,90	Average	-21,06
2	174,00000000 kHz	-34,25	Average	-20,51
1	178,00000000 kHz	-48,43	Quasi Peak	-16,15
2	178,00000000 kHz	-26,78	Average	-27,80
2	182,00000000 kHz	-22,86	Average	-31,54
1	182,00000000 kHz	-48,31	Quasi Peak	-16,08
2	186,00000000 kHz	-22,05	Average	-32,16
2	190,00000000 kHz	-21,47	Average	-32,57
1	190,00000000 kHz	-47,33	Quasi Peak	-16,71
2	194,00000000 kHz	-22,62	Average	-31,24
1	194,00000000 kHz	-46,80	Quasi Peak	-17,07
2	198,00000000 kHz	-24,47	Average	-29,23
2	206,00000000 kHz	-27,16	Average	-26,21
1	206,00000000 kHz	-47,51	Quasi Peak	-15,86
2	210,00000000 kHz	-23,30	Average	-29,91
1	210,00000000 kHz	-45,90	Quasi Peak	-17,30
1	226,00000000 kHz	-49,62	Quasi Peak	-12,97
1	230,00000000 kHz	-46,61	Quasi Peak	-15,84

Picture 6: Conducted emission – Line 2



7 Radiated emission test

according to CFR 47 Part 15 Subpart B Class B, Section 15.109

7.1 Radiated emission measurement from 30 MHz to 1000 MHz

7.1.1 Location of measurement

- ☒ Scan with peak detector in 3 m CDC which is correlated to the 10 m open site area.
- ☒ Final CISPR measurement with quasi peak detector on 10 m open site area.

Description	Manufacturer	Inventory No.
CDC	Albatross Projects	E00026
Open site area	EMV TESTHAUS GmbH	E00354

7.1.2 Measurement equipment

	Description	Manufacturer	Inventory No.
<input checked="" type="checkbox"/>	ESCS 30 (FF)	Rohde & Schwarz	E00003
<input type="checkbox"/>	ESU26 (FF)	Rohde & Schwarz	W00002
<input checked="" type="checkbox"/>	ESCI (CDC)	Rohde & Schwarz	E00001
<input checked="" type="checkbox"/>	VULB 9160 (CDC)	Schwarzbeck	E00011
<input checked="" type="checkbox"/>	VULB 9163 (FF)	Schwarzbeck	E00013
<input type="checkbox"/>	MDS 21	Rohde & Schwarz	E00010
<input type="checkbox"/>	MDS 20	Rohde & Schwarz	E00132
<input checked="" type="checkbox"/>	E10 v1.4.12	EMV TESTHAUS GmbH	E00443

Information about measurement uncertainty is on page 24.



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7.1.3 Limits

Frequency [MHz]	Field strength F_s [$\mu\text{V/m}$]	Field strength [dB $\mu\text{V/m}$]	Measurement distance d [m]
30 – 88	100	40	3
88 – 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

To calculate the limit for 10m measurement distance the following calculation was used.

$$L_{dm} = L_d + (-20 \frac{dB}{dec} * (\log(dm) - \log(d)))$$

L_{dm} = Limit at the new distance
 L_d = Limit according ANSI 63.4
 d = Distance according to ANSI 63.4
 dm = New distance for limit

$$L_{dm} = 40 \frac{dB\mu V}{m} + (-20 \frac{dB}{dec} * (\log(10m) - \log(3m))) = 30dB \quad \text{for 30MHz to 88MHz}$$

$$L_{dm} = 43,5 \frac{dB\mu V}{m} + (-20 \frac{dB}{dec} * (\log(10m) - \log(3m))) = 33.5dB \quad \text{for 88MHz to 216MHz}$$

$$L_{dm} = 46 \frac{dB\mu V}{m} + (-20 \frac{dB}{dec} * (\log(10m) - \log(3m))) = 36dB \quad \text{for 216MHz to 960MHz}$$

$$L_{dm} = 54 \frac{dB\mu V}{m} + (-20 \frac{dB}{dec} * (\log(10m) - \log(3m))) = 44dB \quad \text{above 960MHz}$$



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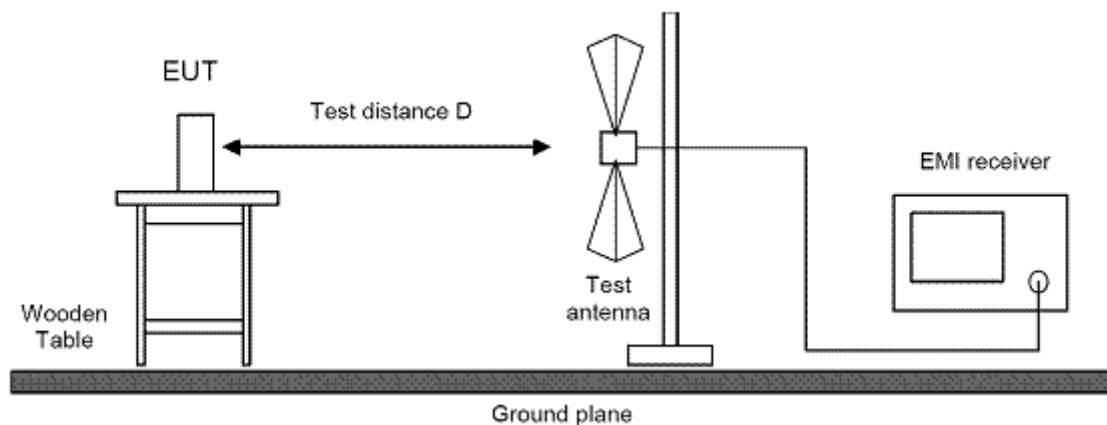
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7.1.4 Test method to demonstrate compliance

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 m above ground. The receiving antenna was placed 3 meters from the turntable. The test setup was placed inside a compact diagnostic chamber.
2. Power on the EUT and all peripherals.
3. The broadband antenna was set to vertical polarization.
4. The EMI receiver performed a scan from 30 MHz to 1000 MHz with the detector set to peak and the measurement bandwidth to 120 kHz.
5. The turn table was rotated to 6 different positions ($360^\circ / 6$) and the antenna polarization was changed to horizontal.
6. Repeat the test procedure at step 4 and 5.
7. The test setup was then placed in an OATS at 10 m distance and all peak values over or with less distance to limit then 6 dB were marked and re-measured with a quasi-peak detector.
8. The turntable was rotated by 360° to determine the position of the highest radiation.
9. The height of the broadband receiving antenna was varied between 1 m and 4 m above ground to find the maximum emissions field strength of both horizontal and vertical polarization. The highest value was recorded.

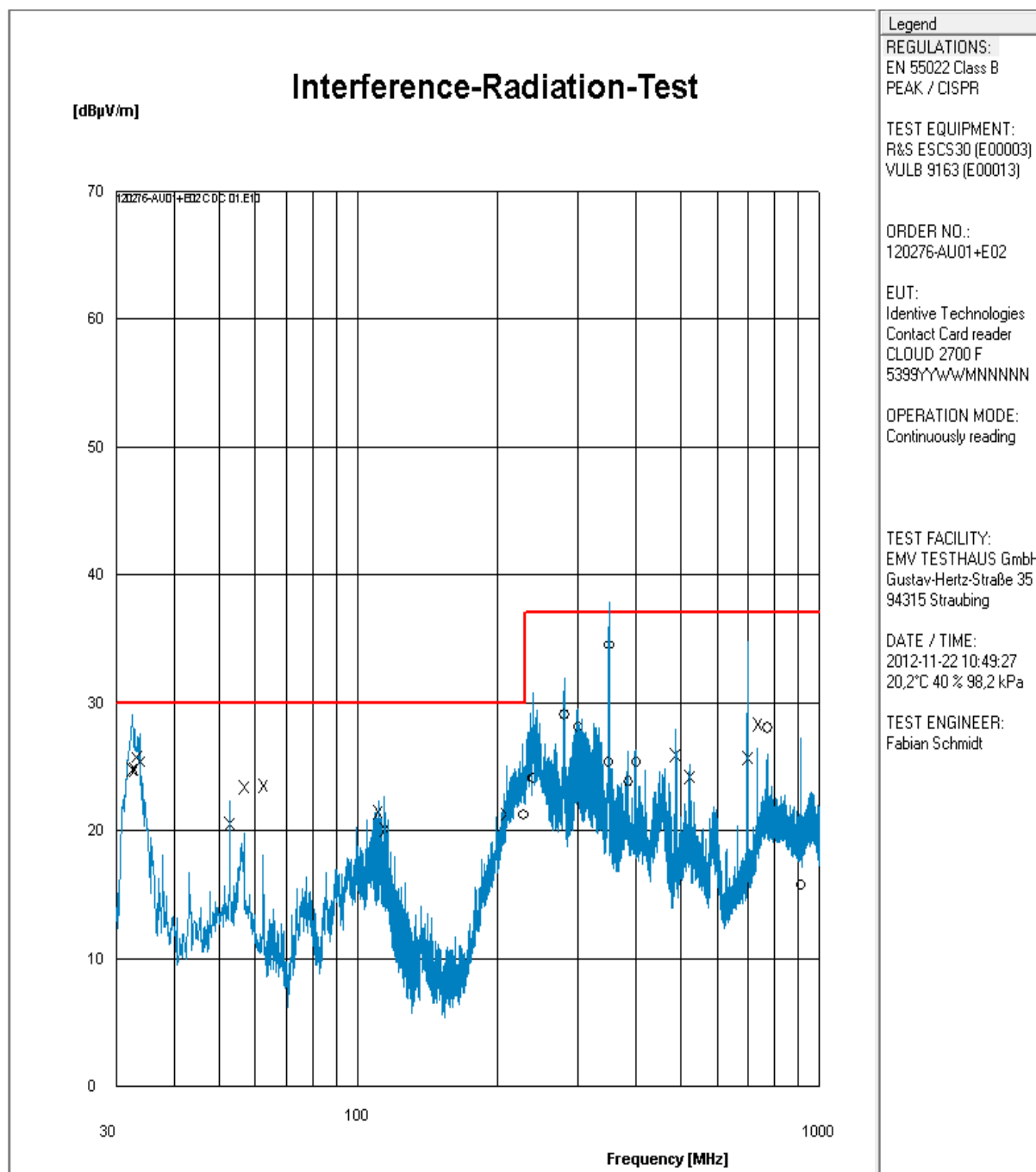
7.1.5 Test setup



Picture 7: Outline of radiated emission measurement (< 1 GHz)

Comments:

7.2 Test result



Picture 8: Radiated emission



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Interference Radiation Test

Freq. [MHz]	U_Rec [dBµV/m]	Limit [dBµV/m]	Corr. [dB]	U_Ant. [dBµV]	delta_U [dB]	Turn- table	Antenna	Pol.	Remark
120276-AU01+E02_CDC.01.F10									
32,50	24,7	30,0	4,6	20,1	5,3	17°	100 cm	V	
32,80	24,8	30,0	12,4	12,4	5,2	162°	108 cm	V	
33,30	25,9	30,0	12,5	13,3	4,1	218°	100 cm	V	
33,70	25,4	30,0	12,6	12,8	4,6	347°	100 cm	V	
52,80	20,6	30,0	10,5	10,0	9,4	231°	100 cm	V	
56,80	23,4	30,0	15,1	8,3	6,6	242°	100 cm	V	
62,40	23,5	30,0	13,0	10,5	6,5	319°	100 cm	V	
110,70	21,5	30,0	12,0	9,5	8,5	198°	100 cm	V	
114,30	20,1	30,0	5,8	14,3	9,9	58°	100 cm	V	
209,60	21,3	30,0	12,9	8,4	8,7	242°	100 cm	V	
228,00	21,3	30,0	13,7	7,6	8,7	207°	250 cm	H	
238,90	24,2	37,0	10,4	13,8	12,8	108°	100 cm	H	
240,00	24,2	37,0	14,4	9,8	12,8	89°	250 cm	H	
279,90	29,1	37,0	10,3	18,9	7,9	275°	100 cm	H	
299,50	28,1	37,0	10,2	17,9	8,9	147°	100 cm	H	
349,10	25,4	37,0	16,9	8,5	11,6	80°	250 cm	H	
349,80	34,6	37,0	11,8	22,8	2,4	83°	100 cm	H	
384,00	23,9	37,0	17,9	6,0	13,1	45°	250 cm	H	
399,80	25,4	37,0	18,4	7,0	11,6	85°	250 cm	H	
487,90	25,9	37,0	19,8	6,1	11,1	69°	100 cm	V	
522,80	24,2	37,0	20,4	3,8	12,8	48°	100 cm	V	
699,80	25,7	37,0	14,9	10,8	11,3	128°	100 cm	V	
734,70	28,3	37,0	23,6	4,8	8,7	6°	100 cm	V	
769,80	28,1	37,0	24,1	4,0	8,9	174°	250 cm	H	
911,00	15,8	37,0	19,2	-3,5	21,2	27°	100 cm	H	

Picture 9: Radiated emission



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8 Equipment Calibration Status

Inventory Number	Model Number	Manufacturer	Last calibration	Next calibration	Cycle of calibration
W00002	ESU26	Rohde & Schwarz	Sep. 11	Sep. 13	2 Years
E00001	ESCI	Rohde & Schwarz	Jul. 11	Jul. 13	2 Years
E00003	ESCS 30	Rohde & Schwarz	Oct. 12	Oct. 14	2 Years
E00004	ESH 2-Z5	Rohde & Schwarz	Jan. 12	Jan. 14	2 Years
E00005	ESH 2-Z5	Rohde & Schwarz	Sep. 11	Sep. 13	2 Years
E00060	HFH2-Z2	Rohde & Schwarz	Oct. 12	Oct. 16	4 Years
E00011	VULB 9160	Schwarzbeck	---	---	---
E00012	VULB 9163	Schwarzbeck	Mar. 12	Mar. 14	2 Years
E00354	OATS	EMV TESTHAUS	Oct. 12	Oct. 13	1 Year

9 Measurement uncertainty

Description	Max. deviation	k=
Conducted emission AMN (150 kHz to 30 MHz)	$\pm 4,1$ dB	2
Radiated emission open field (30 MHz to 300 MHz) (300 MHz to 1 GHz)	$\pm 5,4$ dB $\pm 4,7$ dB	2
Radiated emission anechoic chamber (above 1 GHz)	$\pm 4,5$ dB	2

Comment: The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k. If k=2 the value of the measurands lies within the assigned range of values with a probability of 95 %.



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10 Summary

Result according to the marked specifications:

☒ **PASS**

The EUT does fulfill the general approval requirements mentioned.

☐ **FAIL**

The EUT does not fulfill the general approval requirements mentioned.

These results are deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003.

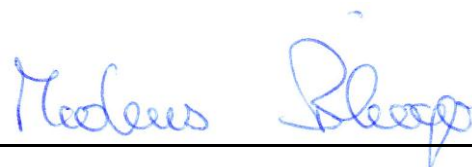
Straubing, November 22nd, 2012



Fabian Schmidt

Test engineer

EMV **TESTHAUS** GmbH



Markus Biberger

Technical executive

EMV **TESTHAUS** GmbH

The equipment shall be retested to demonstrate continued compliance with the applicable requirements if any modifications or changes that could adversely affect the emanation characteristics of the equipment are made. The responsible party bears responsibility for the continued compliance of subsequently produced equipment.

Official of responsible party



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Revision: 1.7

Identive GmbH
Contact Card reader

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