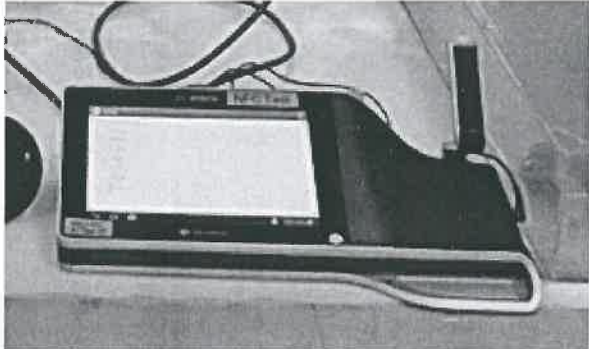


Prüfbericht-Nr.: Test Report No.:	16071003 001	Auftrags-Nr.: Order No.:	174039882	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: Client Reference No.:	474683	Auftragsdatum: Order date:	Sep 11, 2015	
Auftraggeber: Client:	Bosch Security Systems B.V. Torenallee 49, 5617 BA Eindhoven The Netherlands			
Prüfgegenstand: Test item:	DCN multimedia Multimedia Device			
Bezeichnung / Typ-Nr.: Identification / Type No.:	DCNM-MMD2			
Auftrags-Inhalt: Order content:	FCC Part 15C			
Prüfgrundlage: Test specification:	FCC 47CFR Part 15: Subpart C Section 15.225 FCC 47CFR Part 15: Subpart C Section 15.209 FCC 47CFR Part 15: Subpart C Section 15.207			
Wareneingangsdatum: Date of receipt:	31/8/2015			
Prüfmuster-Nr.: Test sample No.:	174039882-001			
Prüfzeitraum: Testing period:	Refer to test report.			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Guangdong) Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
2015-11-12 Amy Wang / Project Engineer		2016 April 2 Max Y. C. Yao / Department Manager		
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other: FCC ID: UX8- DCNMMMD2				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 RADIATED EMISSIONS

RESULT: Passed

5.1.3 FREQUENCY STABILITY

RESULT: Passed

5.1.4 MAINS CONDUCTED EMISSIONS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result of Radiated Emissions

Test Specifications
The following standards were applied (in bold: product standards, otherwise: basic standards).

Table 1: Applied Standard and Test Levels

Radio
FCC CFR47 Part 15: Subpart C Section 15.225
ANSI C63.10:2013

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

No.102, 1F of Southwest and No.205, 2F of West Warehouse Building, No.767
Tianyuan Road, Tianhe District, Guangzhou, Guangdong, P.R.China.

FCC Registration No.: 833845

2.2 List of Test and Measurement Instruments

Table 2: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until	Calibrated Interval
EMI Test Receiver	ESCI-3	Rohde & Schwarz	100216	16.Mar.2016	1 year
Software version	EMC32 V8.51.0	Rohde & Schwarz	N/A	N/A	N/A
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	16.Mar.2016	1 year
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	209	16.Mar.2016	2 years
Double-Ridged Waveguide Horn Antenna	HF906 (1-18GHz)	Rohde & Schwarz	100385	16.Mar.2016	2 years
Pre-amplifier	AFS42-00101800-25-S-42	MITEQ	1101599	16.Mar.2016	2 years
Band Reject Filter	BRM50702	Micro-Tronics	023	16.Mar.2016	2 years
Standard Gain Horn Antenna	3160-09 (18-26.5GHz)	EMCO	21642	16.Mar.2016	5 years
Pre-amplifier	AFS33-18002650-30-8P-44	MITEQ	1108282	16.Mar.2016	2 years
3m Anechoic Chamber	N/A	Albatross Project GmbH	N/A	16.Mar.2016	1 year
Loop Antenna	HFH2-Z2 (<30MHz)	Rohde & Schwarz	100111	16.Mar.2016	2 years
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	16.Mar.2016	1 year
Two-Line V-Network	ESH3-Z5	Rohde & Schwarz	100308	16.Mar.2016	1 year
Pulse Limiter	ESH3-Z2	Rohde & Schwarz	100701	16.Mar.2016	1 year

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

Table 3: Emission Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	$\pm 2.68 \text{ dB}$
Adjacent channel power	$\pm 3 \text{ dB}$
Radiated emission of transmitter, valid up to 26 GHz	$\pm 5.16 \text{ dB}$
Radiated emission of receiver, valid up to 26 GHz	$\pm 5.16 \text{ dB}$
Temperature	$\pm 2 \text{ }^{\circ}\text{C}$
Humidity	$\pm 10 \text{ } \%$

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Multimedia Device working at 13.56 MHz.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 Ratings and System Details

Table 4: Basic Information of EUT

Item	EUT information
Kind of Equipment	DCN multimedia Multimedia Device
Type Designation	DCNM-MMD 2
Brand Name	BOSCH
FCC ID	UX8- DCNMMMD2

Table 5: Technical Specification of EUT

Technical Specification	Value
Operating Frequency	13.56 MHz
Operation Voltage	49V DC
Extreme Voltage Range	48V DC
Modulation	CW
Antenna type	Internal Antenna

3.3 Independent Operation Modes

Basic operation modes are:

- A. Transmitting

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided with a digital interface which makes it possible to control them through a test software installed on a notebook computer.

4.3 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Kind of Equipment	Manufacturer	Model Name	S/N
DCNM-HDMIC DCN multimedia High Directive Microphone	Bosch	DCNM-HDMIC	095864142084310027
DCNM-HDMIC DCN multimedia Name Card Holder	Bosch	DCNM-NCH	N/A
PC	Lenovo	T530	4234EH7
DCN multimedia Powering Switch	Bosch	DCNM-PS	045000146012010002

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

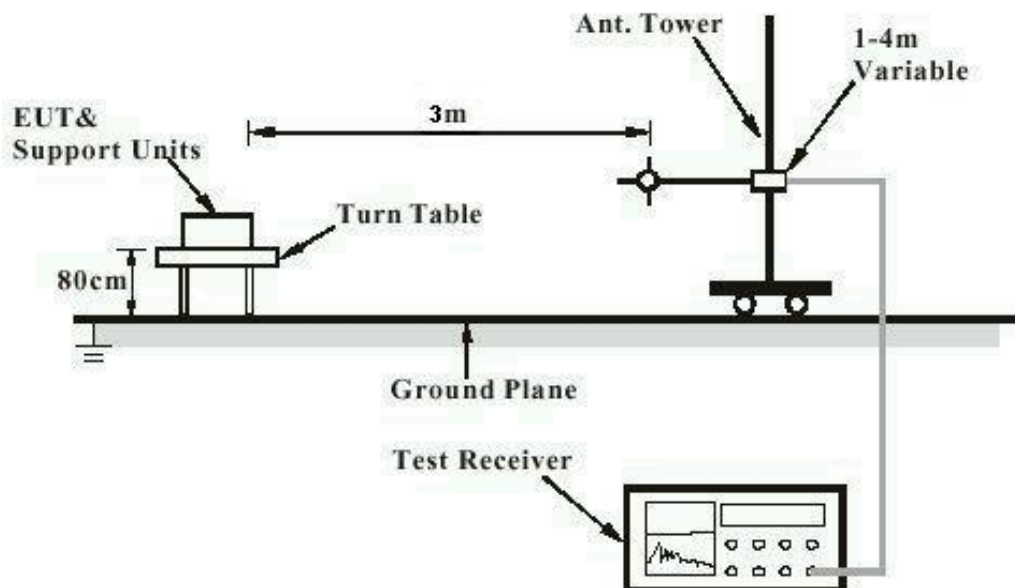


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

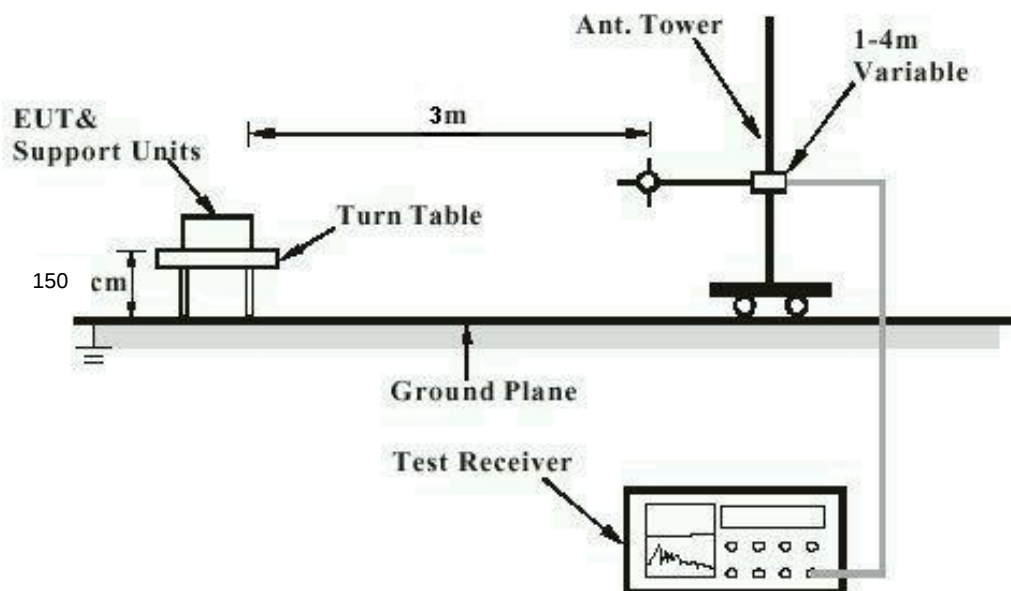
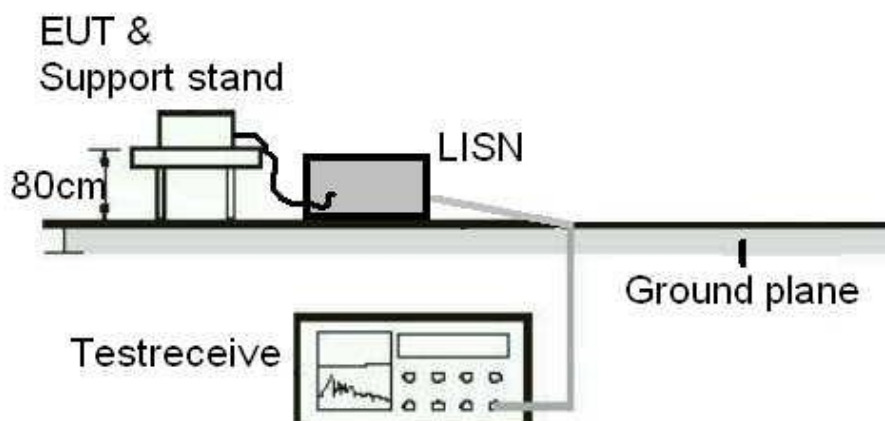


Diagram of Measurement Equipment Configuration for Mains Conduction Measurement (if applicable)



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Passed

Standard : Part 15.203
Requirement : use of approved antennas only

The antenna is a printed PCB trace with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

5.1.2 Radiated Emissions

RESULT:

Passed

Test standard	:	FCC Part 15. 225
Basic standard	:	ANSI C63.10:2013
Limits	:	15.225(a): The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.i.e. 124.0dBμV/m @ 3 m. 15.225(b): Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. i.e. 90.5dBμV/m @ 3 m. 15.225l: Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. i.e. 80.5dBμV/m @ 3 m. 15.225(d) :The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Frequency	:	13.56 MHz
Operation Mode	:	A
Relative humidity	:	50-65 %
Atmospheric pressure	:	100-103 kPa

Remark: For details refer to Appendix 1.

5.1.3 Frequency Stability

RESULT:

Passed

Test standard : FCC Part 15. 225(e)
Basic standard : ANSI C63.10:2013 Clause 6.8
Limits : 15.225(e): The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Kind of test site : Shielded room

Test setup

Test Frequency : 13.56 MHz
Operation Mode : A
Relative humidity : 50-65 %
Atmospheric pressure : 100-103 kPa

Table 6: Test result of Frequency Stability

13.56 MHz			Limit ($\pm 0.01\%$)	
Temperature	Voltage	Frequency	%	
0°C	Normal	13.55956	0.0026	PASS
10°C	Normal	13.55954	0.0026	PASS
20°C	High(+15%)	13.55956	0.0026	PASS
20°C	Normal	13.55960	0.0029	PASS
20°C	Low(-15%)	13.55958	0.0031	PASS
30°C	Normal	13.55954	0.0034	PASS
35°C	Normal	13.55958	0.0031	PASS

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5.1.4 Mains Conducted Emissions

RESULT:

Passed

Test standard : FCC Part 15.207
Limits : Mains Conducted emissions as defined in
above test standards must comply with the
mains conducted emission limits specified
Kind of test site : Shielded Room

Test setup

Test Channel : Middle
Operation mode : A

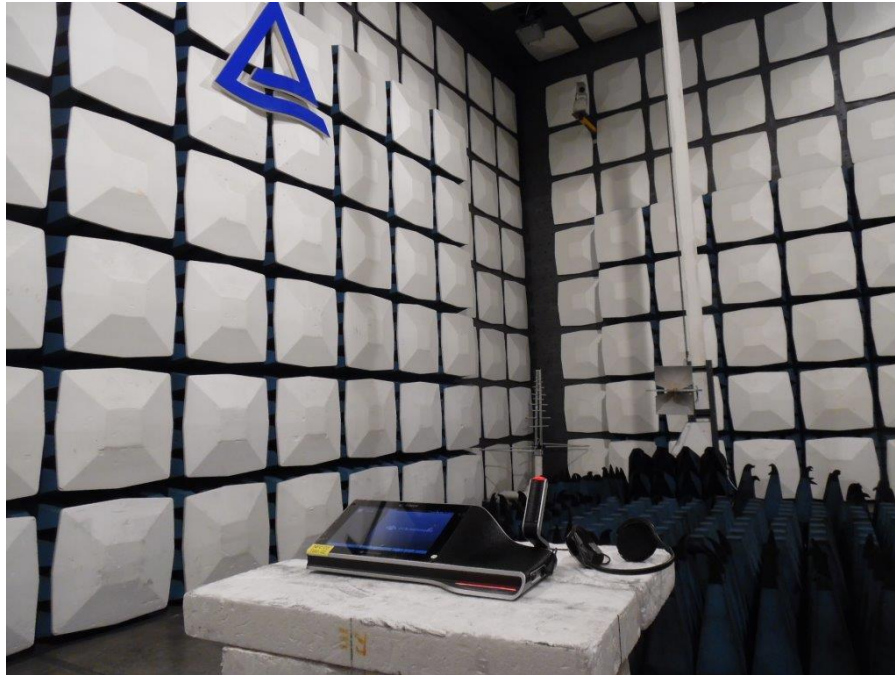
Remark: For details refer to Appendix 1.

6. Photographs of the Test Set-Up

Photograph 1: Set-up for Spurious Emissions (Below 1GHz)



Photograph 2: Set-up for Spurious Emissions (Above 1GHz)



Photograph 3: Set-up for Conducted testing



Photograph 4: Set-up for Conducted Emission testing



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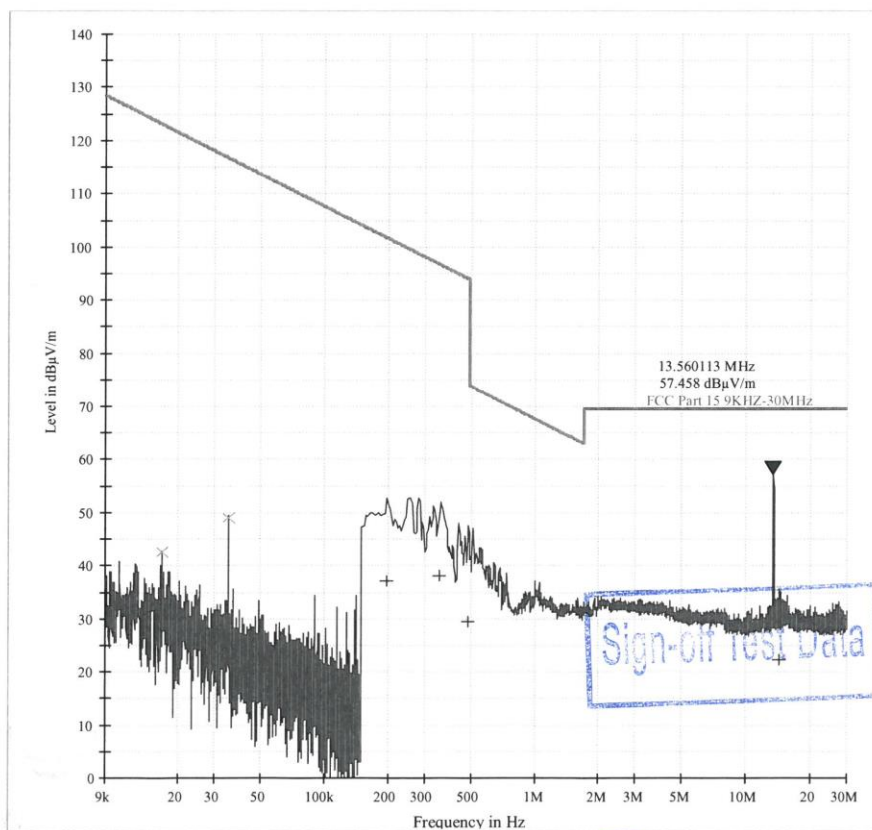
EMC Test Service Hotline: +86-20-28391188

EMC Report

Common Information

Manufacturer:	BOSCH
Test Item:	Multimedia Device
Identification:	DCNM-MMD2
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Normal operation
Climate Condition:	23 °C; 54 %RH; 101 kPa.
Test Voltage/ Freq:	DC 48 V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m

Subrange 1	
Frequency Range:	9KHz-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC FMZB1519



Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/)	Comment
0.198000	37.2	2.0	9.000	18.3	64.5	101.7	
0.354000	38.2	2.0	9.000	17.8	58.4	96.6	
0.482000	29.4	2.0	9.000	17.7	64.6	93.9	
14.442000	22.3	2.0	9.000	21.6	47.2	69.5	

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/)	Comment
0.016840	42.5	100.0	0.200	16.4	80.6	123.1	
0.034920	48.9	100.0	0.200	17.0	67.9	116.7	



Tested by:

Reviewed by:

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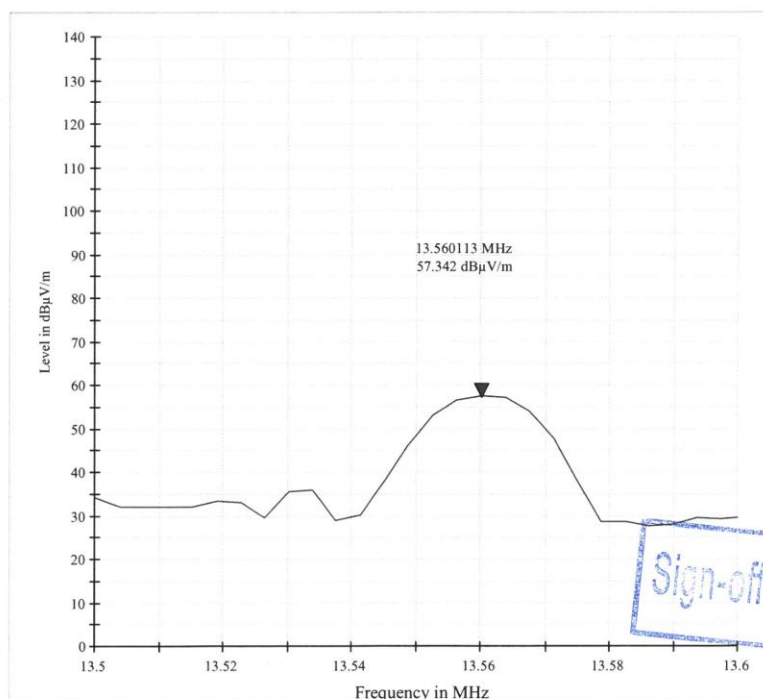
TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	BOSCH
Test Item:	Multimedia Device
Identification:	DCNM-MMD2
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Normal operation
Climate Condition:	23 °C; 54 %RH; 101 kPa.
Test Voltage/ Freq:	DC 48 V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m
Subrange 1	
Frequency Range:	9KHz-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC FMZB1519



Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

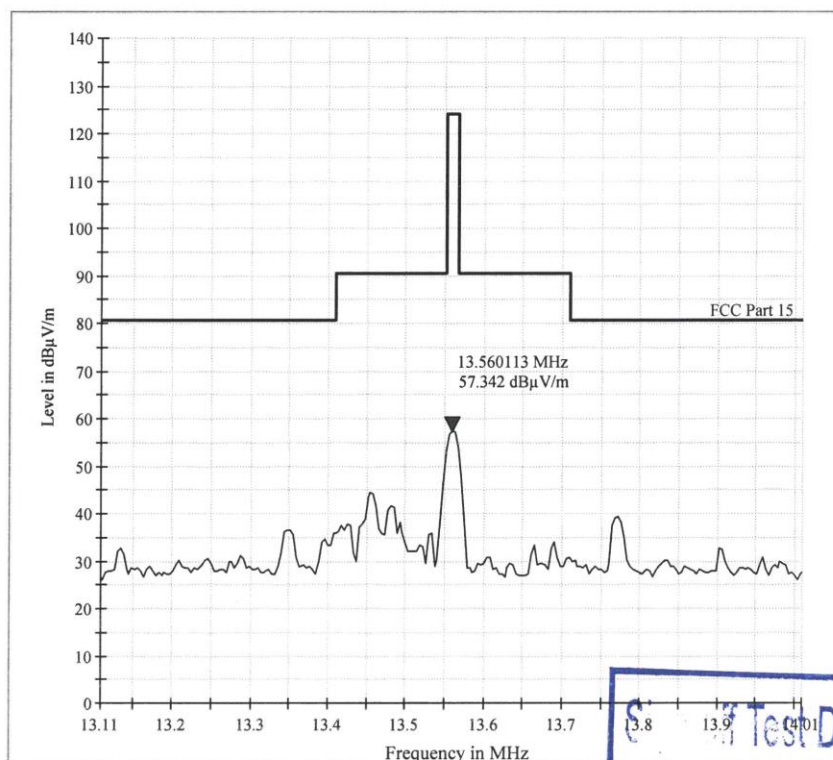
EMC Test Record (Emission)

Common Information

Manufacturer:	BOSCH
Test Item:	Multimedia Device
Identification:	DCNM-MMD2
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Normal operation
Climate Condition:	23 °C; 54 %RH; 101 kPa.
Test Voltage/ Freq:	DC 48 V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m

Subrange 1	
Frequency Range:	9KHz-30MHz
Receiver:	TUV ESCI
Transducer:	TUV SAC FMZB1519

EMCTT_EREFO11-A02-01_9KHz-30MHz



Date: 5/20/2015 - Time: 2:48:30

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

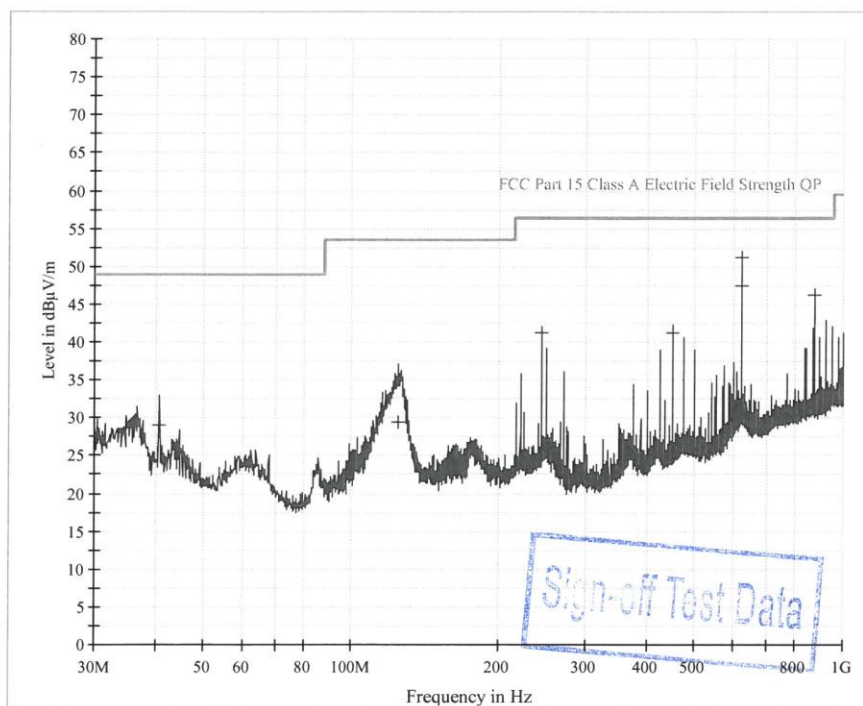
EMC Test Record (Emission)

Common Information

Manufacturer:	BOSCH
Test Item:	Multimedia Device
Identification:	DCNM-MMD2
Test Standard:	FCC Part 15 A
Test Detail:	Radiated Emission
Operation Mode:	Normal operation
Climate Condition:	23 °C; 54 %RH; 101 kPa.
Test Voltage/ Freq:	DC 48 V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical



Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:



Reviewed by:

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EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)	Comment
40.680000	29.1	1000.0	120.000	V	14.7	19.9	49.0	
124.680000	29.5	1000.0	120.000	V	13.4	24.0	53.5	
244.080000	41.2	1000.0	120.000	V	13.9	15.2	56.4	
450.000000	41.3	1000.0	120.000	V	20.1	15.1	56.4	
625.000000	47.5	1000.0	120.000	V	23.8	8.9	56.4	
625.000000	51.3	1000.0	120.000	V	23.8	5.1	56.4	
875.000000	46.2	1000.0	120.000	V	27.3	10.2	56.4	



Tested by:  2015-08-31

Reviewed by:  2015-09-02

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EMC Test Service Hotline: +86-20-28391188

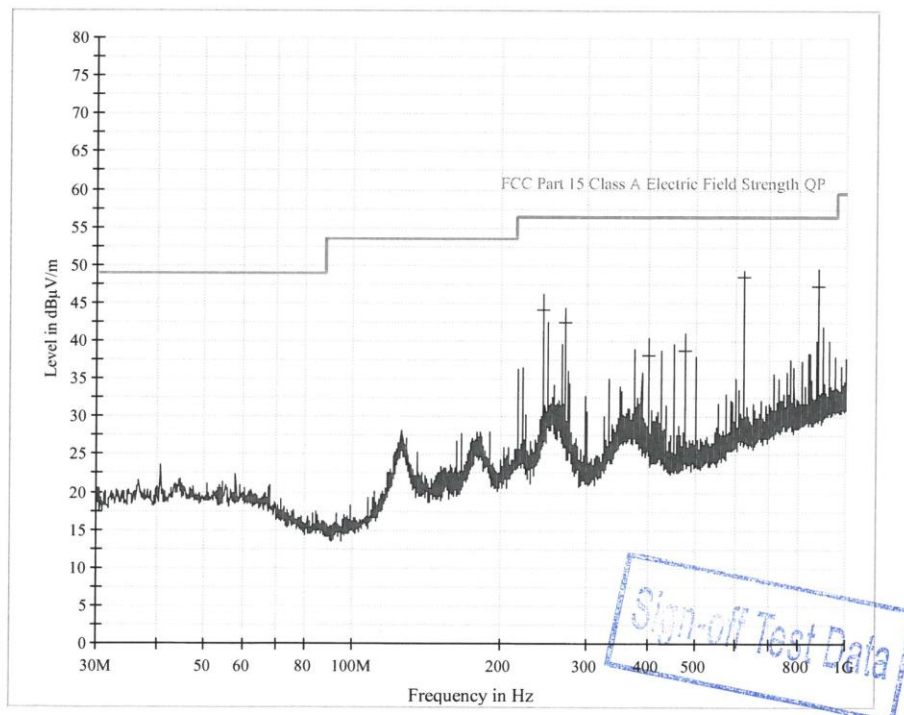
EMC Test Record (Emission)

Common Information

Manufacturer:	BOSCH
Test Item:	Multimedia Device
Identification:	DCNM-MMD2
Test Standard:	FCC Part 15 A
Test Detail:	Radiated Emission
Operation Mode:	Normal operation
Climate Condition:	23 °C; 54 %RH; 101 kPa.
Test Voltage/ Freq:	DC 48 V
Receipt No:	/
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal



Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by:



Reviewed by:

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)	Comment
244.000000	44.2	1000.0	120.000	H	13.9	12.2	56.4	
271.160000	42.5	1000.0	120.000	H	15.1	13.9	56.4	
399.920000	38.2	1000.0	120.000	H	18.6	18.2	56.4	
475.000000	38.8	1000.0	120.000	H	20.5	17.6	56.4	
625.000000	48.5	1000.0	120.000	H	23.8	7.9	56.4	
875.000000	47.4	1000.0	120.000	H	27.3	9.0	56.4	



Tested by: _____



Reviewed by: _____

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EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

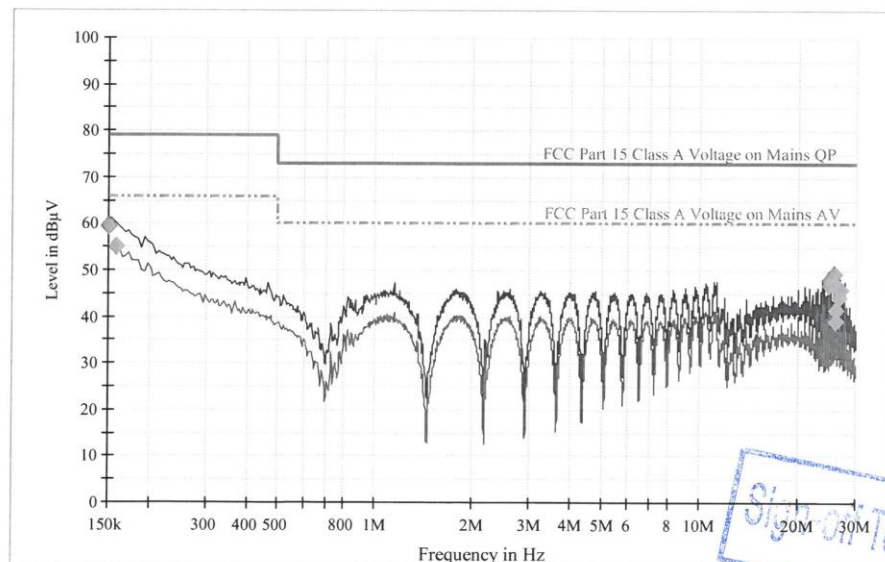
Test Information

Manufacturer: BOSCH
Test Item: Multimedia Device
Identification: DCNM-MMD2
Test Standard: FCC Part 15 A
Test Detail: Conducted Emission
Operation Mode: Normal operation
Climate Condition: 22 °C; 53 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V / 60 Hz
Port / Line: AC Mains(L1+N)
Receipt No.: /
Report No.: /
Result: Pass
Comment: /



Hardware Setup: 1phase LISN ESH3-Z5 to ESR 7
Level Unit: dBμV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESR 7



7/20/2015, 4:21:21

Tested by:



Reviewed by:



Prüfbericht - Nr.:

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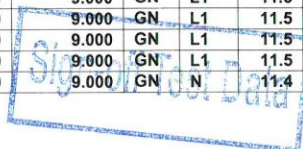
EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	59.5	1000.0	9.000	GN	N	10.1	19.5	79.0	
24.734000	47.9	1000.0	9.000	GN	L1	11.6	25.1	73.0	
25.626000	49.3	1000.0	9.000	GN	L1	11.5	23.7	73.0	
25.926000	46.9	1000.0	9.000	GN	L1	11.5	26.1	73.0	
26.522000	46.4	1000.0	9.000	GN	N	11.4	26.6	73.0	
26.822000	46.0	1000.0	9.000	GN	L1	11.6	27.0	73.0	

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.158000	54.9	1000.0	9.000	GN	L1	10.2	11.1	66.0	
24.734000	47.0	1000.0	9.000	GN	L1	11.6	13.0	60.0	
25.626000	47.1	1000.0	9.000	GN	L1	11.5	12.9	60.0	
25.922000	41.5	1000.0	9.000	GN	L1	11.5	18.5	60.0	
25.998000	39.3	1000.0	9.000	GN	L1	11.5	20.7	60.0	
26.522000	44.4	1000.0	9.000	GN	N	11.4	15.6	60.0	



7/20/2015, 4:21:21

Tested by: _____

Reviewed by: _____

