

TEST REPORT

No.I19N00406-MPE

For

DAIMLER AG

CTPDIN

Model Name: CTP2019

With

Hardware Version: A 000 446 5960

Software Version: 126.200.800

FCC ID: 2AMIOCTP4465960

Issued Date: 2019-09-30

Designation Number: CN1210

Note

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
I19N00406-MPE	Rev.0	2019-09-30	1st edition



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1 Test Laboratory

1.1 Testing Location

Company Name:	Shenzhen Academy of Information and Communications Technology	
Address: Building G, Shenzhen International Innovation Center, No.100 Shennan Road, Futian District, Shenzhen, Guangdong, P. R.		
		Postal Code:
Telephone:	+86-755-33322000	
Fax:	+86-755-33322001	

1.2 Testing Environment

Temperature:	18°C~25 °C	
Relative humidity:	30%~ 70%	
Ground system resistance:	<4Ω	
Ambient noise & Reflection:	< 0.012 W/kg	

1.3 Project Data

Testing Start Date:	Sep 30, 2019	
Testing End Date:	Sep 30, 2019	

1.4 Signature

Liu Jian

(Prepared this test report)

Zhang Yunzhuan

(Reviewed this test report)

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Deputy Director of the laboratory (Approved this test report)



2 Client Information

2.1 Applicant Information

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2.2 Manufacturer Information

Company Name:	Bosch Car Multimedia Portugal, S.A.
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Contact:	Eliseu Vieira
Email:	Eliseu.Vieira@pt.bosch.com
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Fax:	/



3 Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

Description:	CTPDIN	
Model name:	CTP2019	
Condition of EUT as received	No obvious damage in appearance	
Operating mode(s):	GSM850/1900, WCDMA850/1900,	
Operating mode(s):	LTE Band2/4/5/7/17, WIFI2.4G, Bluetooth	
GPRS/EDGE Multislot Class:	12	
GPRS capability Class:	В	
Test device Production information:	Production unit	
	825 – 848.8MHz (GSM 850)	
	1850.2 – 1910MHz (GSM 1900)	
	826.4 – 846.6MHz (WCDMA850 Band V)	
Ty Fraguency	1852.4 - 1907.6MHz (WCDMA1900 Band II)	
Tx Frequency:	824.7 – 848.3MHz (LTE_FDD Band 5)	
	2502.5 – 2567.5MHz (LTE_FDD Band 7)	
	2412 – 2462MHz (Wi-Fi 2.4G)	
	2402 – 2480MHz (BT 2.4G)	

3.2 Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	A 000 446 5960	126.200.800

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3 Internal Identification of AE used during the test

AE ID*	Description	Type	Manufacturer
/	/	/	/

^{*}AE ID: is used to identify the test sample in the lab internally.



4 Test Methodology

- FCC Part 2 (Section 2.1091 and 1.1310)
- 447498 D03 Supplement C Cross-Reference v01
- ➤ IEEE C95.1-1992

5 General Description

5.1 Evaluation Distance

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

5.2 Evaluation Method

Evaluation Method

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

6 Assessment Result

6.1 Reference Levels Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
30–300	27.5	0.073	0.2 f/1500 1.0	30 30 30

f = frequency in MHz

6.2 Reference Levels Evaluation

Antenna band	Average gain (dBm)	Max Conducted Power (dBm)
GSM 850	0	33.25
GSM 1900	0	30.20
WCDMA 850	0	24.50
WCDMA 1900	0	24.50
LTE Band 5	0	24.00
LTE Band 7	0	24.00

^{* =} Plane-wave equivalent power density



WIFI 2.4G	0	12.89
Bluetooth	0	9.65

Power Density Calculations					
Evaluation Mode	Maximum E.I.R.P. (dBm)	Power Density (W/m²)	Limit (W/m²)	Conclusion	
GSM 850	2113.49	0.42	0.56	Pass	
GSM 1900	1047.13	0.21	1.00	Pass	
WCDMA 850	281.84	0.06	0.56	Pass	
WCDMA 1900	281.84	0.06	1.00	Pass	
LTE Band 5	251.19	0.05	0.56	Pass	
LTE Band 7	251.19	0.05	1.00	Pass	
WIFI 2.4G	19.45	0.004	1.00	Pass	
Bluetooth	9.23	0.002	1.00	Pass	

Simultaneous transmission of WLAN and GSM as worst case 0.42 W/M² (GSM 850) + 0.004 W/M² (WIFI 2.4G) = 0.0424 W/M² 0.0424 W/M² is below limit of 0.56 W/M²

END OF REPORT