

RF Exposure Evaluation Report

Product Name	WMI
Model No.	D-WMI2017A
FCC ID	KR5DWMI2017A

Applicant	Continental Automotive GmbH
Address	Siemensstrasse 12 SV C TS RBG EMC-Laboratory, 93055 Regensburg Germany

Date of Receipt	Apr. 24, 2017
Date of Declaration	May 25, 2017
Report No.	1740538R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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1. RF Exposure Evaluation

1.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Radiation Meters	WG	EMR-20 / Y-0028	Oct., 2016

1.2. Description of the variants

The difference of each variant is shown below:

Variants	Description
A2C1094850	Antenna PCB for NFC & GSM Trace with the different orientation of the supply
A2C1094860	Antenna PCB for NFC & GSM Trace with the different orientation of the supply but Fakra connector and components around are not populated.
A2C1101490	Antenna PCB for NFC & GSM Trace with the different orientation of the supply.
A2C1101500	Antenna PCB for NFC & GSM Trace with the different orientation of the supply but Fakra connector and components around are not populated.
A2C1648860	Antenna PCB for NFC & GSM Trace with the different orientation of the supply.

1.3. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/F	4.89/F	*(900/F ²)	6
30-300	61.4	0.163	1	6
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/F	2.19/F	*(180/F ²)	30
300-1500	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

Note:

1. RF Exposure evaluation should be conducted assuming a separation distance of 10 cm

1.4. Test Procedure

Was tested for electric and magnetic field strength emissions, all six sides of the EUT were measured with the loop sensor positioned at a distance of 10 cm per the FCC 's request. (reference KDB 680106 D01 RF Exposure Wireless Charging Apps v02)

The temperature and related humidity: 18°C and 62% RH.

1.5. Test Result of RF Exposure Evaluation

Product : WMI
Test Item : RF Exposure Evaluation
Test Site : No.7 Chamber
Test Date : 2017/05/11

E-Field Emissions

Test Position	Frequency (KHz)	Measure Level @ 10cm (V/m)	Limit (V/m)	30% Limit (V/m)	Result
Side 1	113.6	0.290	614	184	PASS
Side 2	113.6	0.320	614	184	PASS
Side 3	113.6	0.350	614	184	PASS
Side 4	113.6	0.320	614	184	PASS
Top	113.6	0.320	614	184	PASS
Bottom	113.6	0.250	614	184	PASS

Note: All sides of EUT measured at 10cm

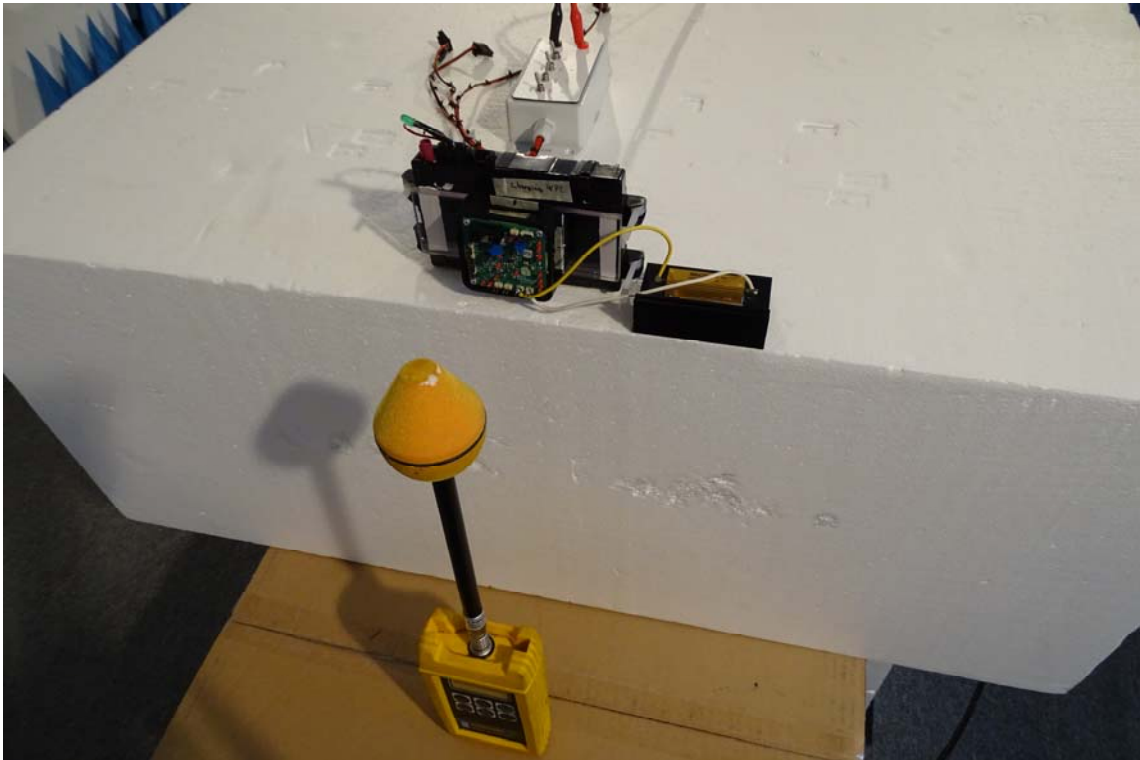
H-Field Emissions

Test Position	Frequency (KHz)	Measure Level @ 10cm (A/m)	Limit (A/m)	30% Limit (A/m)	Result
Side 1	113.6	0.001	1.63	0.489	PASS
Side 2	113.6	0.001	1.63	0.489	PASS
Side 3	113.6	0.001	1.63	0.489	PASS
Side 4	113.6	0.001	1.63	0.489	PASS
Top	113.6	0.001	1.63	0.489	PASS
Bottom	113.6	0.001	1.63	0.489	PASS

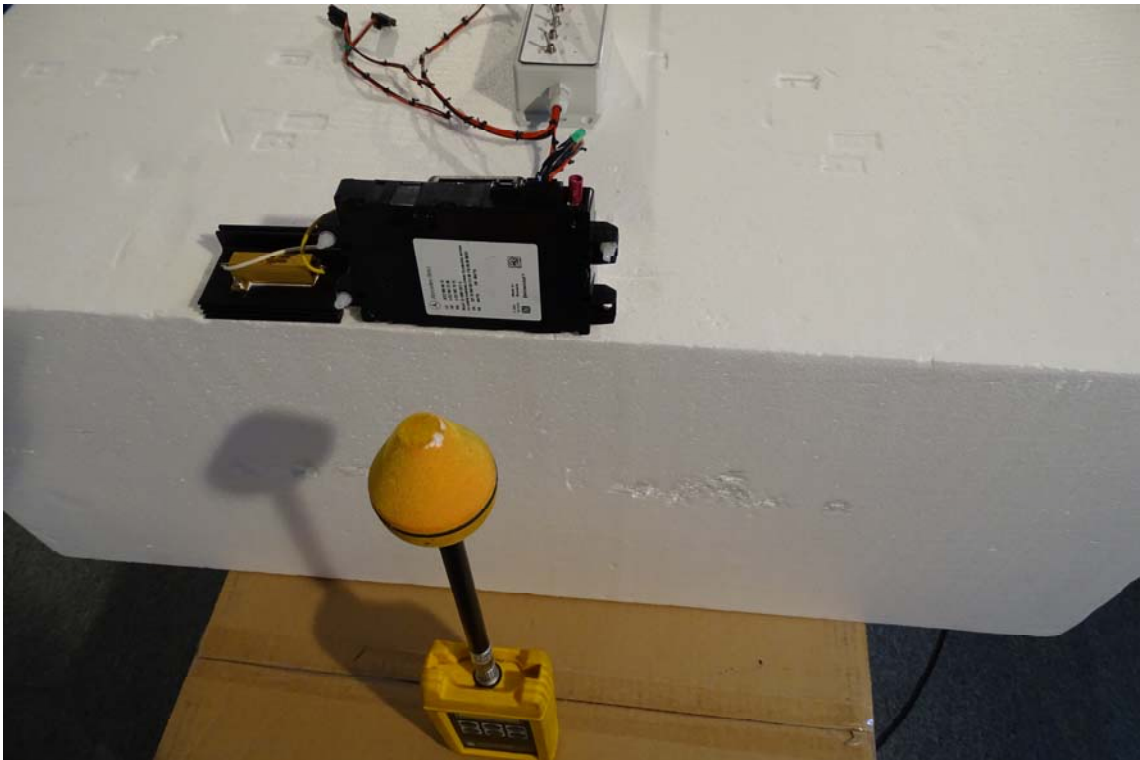
Note: All sides of EUT measured at 10cm

1.6. EUT Test Setup Photographs

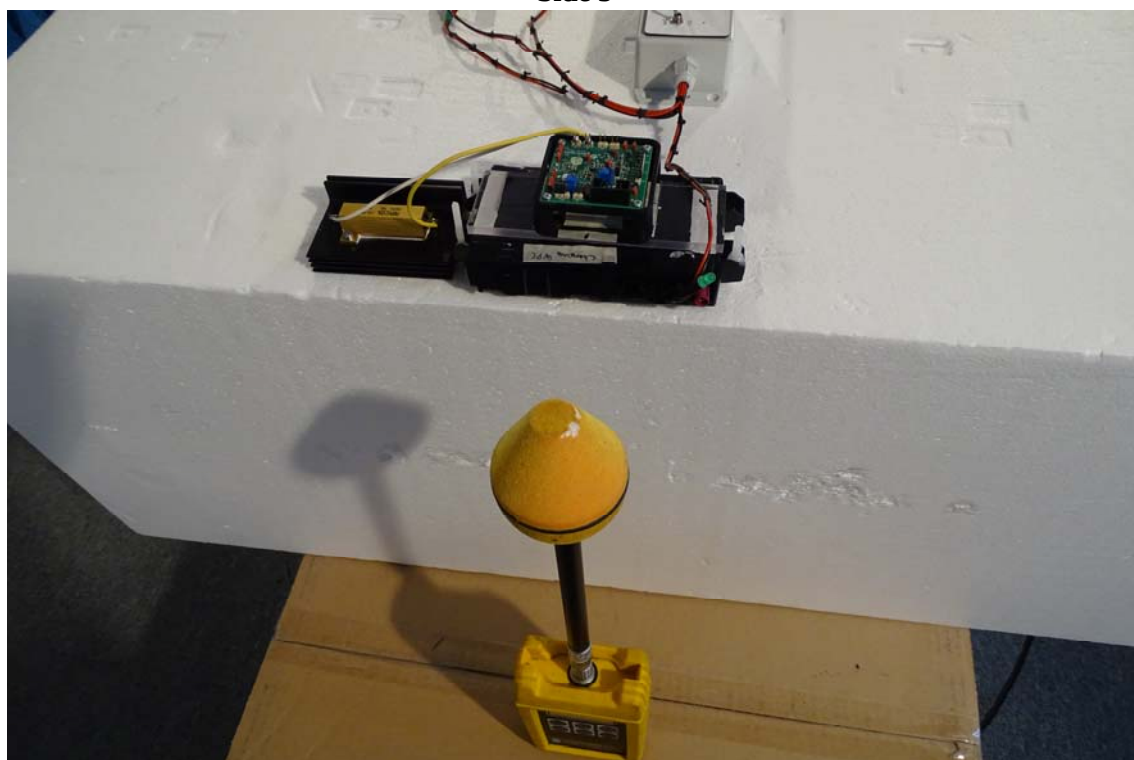
Side 1



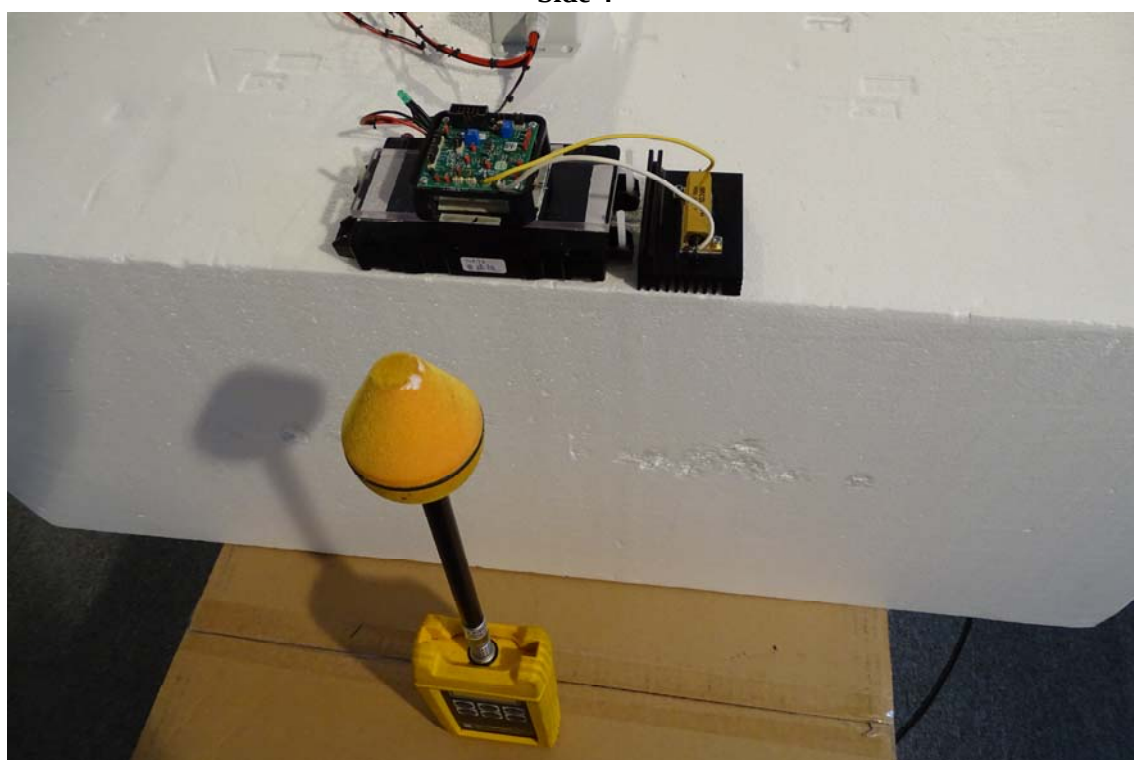
Side 2



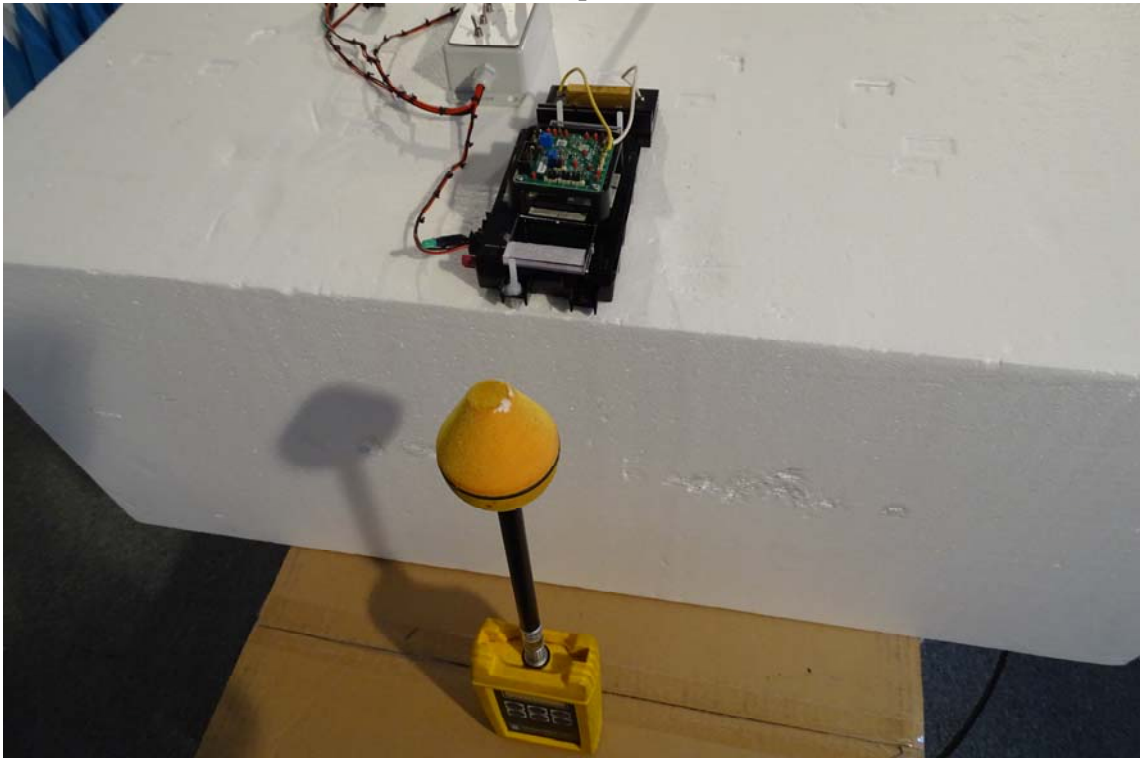
Side 3



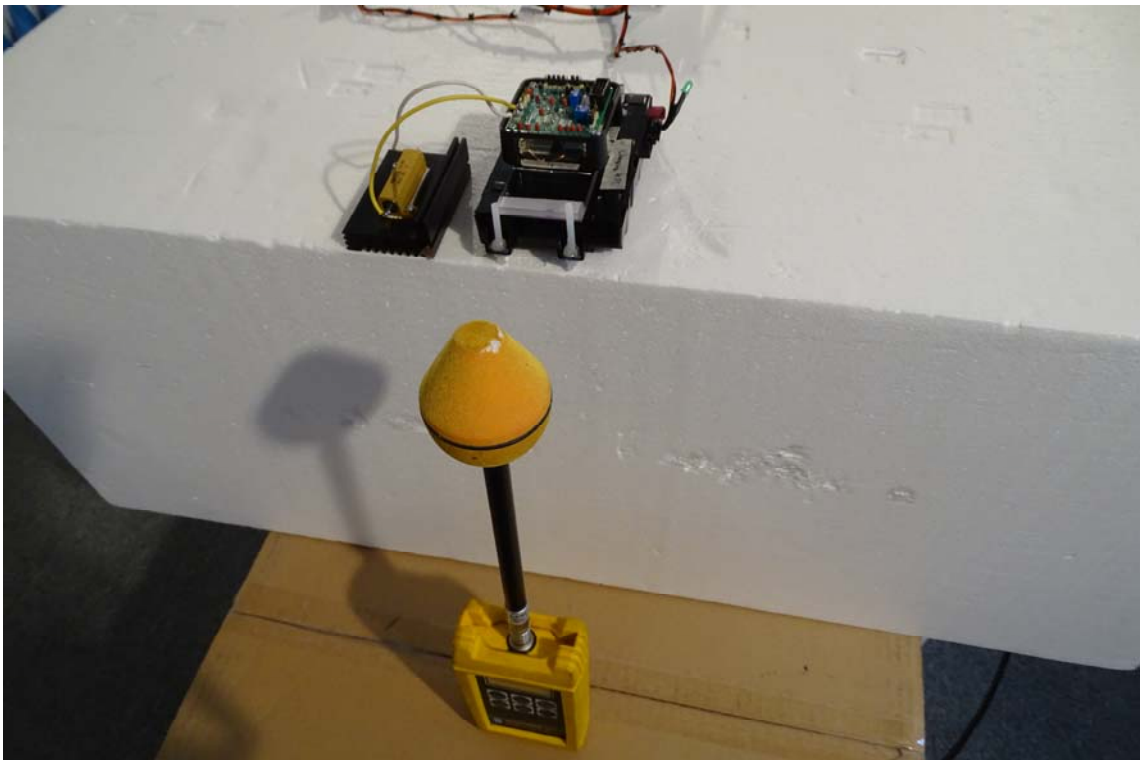
Side 4



Top



Bottom



Close-up

