

	CC LISTED, REGISTRATION IUMBER: 2764.01 Test report No:
ACCREDITED	SED LISTED REGISTRATION 2271ERM.002A1 IUMBER: 23595-1
Test	report
FCC Rules and Regulations CFR 4	7, Part 15, Subpart B (10-1-17 Edition) &
ICES-003 ISSUE 6	– Update April (2017)
Identification of item tested	Head unit with radio and Bluetooth
Trademark	Panasonic
Model and /or type reference	MIB3E_MQB_BT
Other identification of the product	FCC ID: WUQ-MIB3HBT IC: 216R-MIB3HBT PN: 654.035.867.A HW Version: X31 SW Version: X450
Features	Bluetooth, FM, AM, USB.
Manufacturer	PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29-63225 Langen- Germany
Test method requested, standard	FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-17 Edition) ICES-003 ISSUE 6 – Update April (2017)
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	01-22-2019
Report template No	FDT08_21



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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U(k=2)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB



Data provided by the client

Automotive head unit to be installed in cars with the following features: Bluetooth, FM, AM, USB.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial N ^o	Date of reception
2271.044	Car Radio	MIB3E_MQB_BT	04S PM6- 00124.07.18413E0007	12/21/2018
2271.019	Antenna	-	380	10/02/2018
2271.038	Power Cable	-	-	12/21/2018
2271.052	BNC to Fakra RF cable			12/28/2018
2271.053	SMA to Fakra RF cable			12/28/2018
2271.054	BNC to Fakra RF cable	-	-	12/28/2018
2271.055	BNC 1 to 2-way splitter			12/28/2018

1. Sample S/01 used for Radiated Emission tests indicated in appendix A.



Test sample description

Ports:			Cable						
	Port name and description		Specified max length [m]	Attac durine		Shielded		Coupled to patient ⁽³⁾	
	No D	ata provided]				
Supplementary information to the ports:				1					
Rated power supply	Volta	ge and Frequency	,		Re	ference p	oles		
		<u></u>	-	L1	L2	L3	N	PE	
		AC:							
		AC:							
		DC:	I			1	1	_	
		DC: 12 Vdc							
Rated Power	No Data provided								
Clock frequencies	No Data provided								
Other parameters:	No Data provided								
Software version:	X450								
Hardware version:	X31								
Dimensions in cm (W x H x D):	Data	not provided							
Mounting position		Table top equipr	nent						
		Wall/Ceiling mou	inted equipm	nent					
		Floor standing e	quipment						
		Hand-held equip	ment						
		Other: Car Equip	oment						
Modules/parts	Modu	le/parts of test iter	n		۲ ۱	уре	Man	ufacturer	
	No D	ata provided							



Accessories (not part of the test item)	Description	Туре	Manufacturer
	Not Provided Data		
Documents as provided by the applicant	Description	File name	Issue date
	FDT30_14 Data Declaration Equipment		
	Data		
	Copy of Marking plate:		
	27 28 29 50 31 32 6 8 4 9 5 6 MIB3_E1_MOB 654.035.867.A Image: Constraints Image: Constraints Image: Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints VARMONATION Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constraints Image: Constraints Image: Constraints Image: Constraints VARMONATION Image: Constraints Image: Constrates Image: Co		

Identification of the client

PANASONIC AUTOMOTIVE SYSTEMS EUROPE GMBH Robert Bosch Str. 27-29-63225 Langen- Germany.

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	01-15-2019
Date (finish)	01-17-2019

Document history

Report number	Date	Description
2271ERM.002	01-22-2019	First release
2271ERM.002A1	02-22-2019	Revision 1



Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2271ERM.002 related with				
the same samples, in the next clauses and sub-clauses:				
Clauses/ Sub-Clauses	Modification	Justification		
Page 12/ Description of The	Operation mode Elaborated with			
Operation Modes	details	Requested by the reviewer		

This modification in test report cancels and replaces the test report 2271ERM.002.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Koji Nishimoto & Poojita Bhattu



Testing verdicts

Not applicable :	N/A
Pass :	Ρ
Fail :	F
Not measured :	N/M

Summary

		Emission Test		
Report Section		Requirement – Test case	Verdict	Remark
A.1	Radia	ted emission test (30 MHz – 1000 MHz)	Р	N/A
A.1	Radia	ted emission test (1 GHz – 18 GHz)	Р	Refer 1
-	Radia	ted emission test (18 GHz – 40 GHz)	N/A	Refer 1
-	Condu	ucted emission test (150 KHz to 30 MHz)	N/A	Refer 2
Supplemen	ntary info	prmation and remarks:	·	
•	-	ndard 47 CFR 15.33 due to the highest frequency generated or used in the quency of measurement range is up to 5 th harmonic of the highest freque		

lower.2) The test is not applicable, not required by the standard.

List of equipment used during the test

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1014	Signal Analyzer	ROHDE & SCHWARZ	FSV40	2017/03	2019/03
1012	EMI Test Receiver	ROHDE & SCHWARZ	ESR26	2018/09	2020/09
1058	Double Ridged Waveguide Horn Antenna	ETS LINDGREN	3115	2017/03	2020/03
1055	Double Ridged Waveguide Horn Antenna	ETS LINDGREN	3116C	2016/12	2019/12
1065	Biconilog Antenna	ETS LINDGREN	3142E	2017/03	2020/03
0981	Preamplifier	BONN ELEKTRONIK	BLMA 0118-2A	2017/05	2019/05
0980	Preamplifier	BONN ELEKTRONIK	BLNA 0360-01N	2017/05	2019/05
0982	Preamplifier	BONN ELEKTRONIK	BLMA1840 -1M	2017/05	2019/05
1017	EMC measurement software	ROHDE & SCHWARZ	EMC32 V9.01		



Appendix A: Test results



Appendix A Content

DESCRIPTION OF THE OPERATION MODES	.11
A.1 RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASURE	.12



DESCRIPTION OF THE OPERATION MODES

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. The operation modes used by the samples to which the present report refers, are shown in the following table:

OPERATION MODE	DESCRIPTION
OM#01*	EUT ON. Power Supply 12Vdc. - AM Radio Receiver mode - FM Radio in Receiver mode - Bluetooth in Idle mode

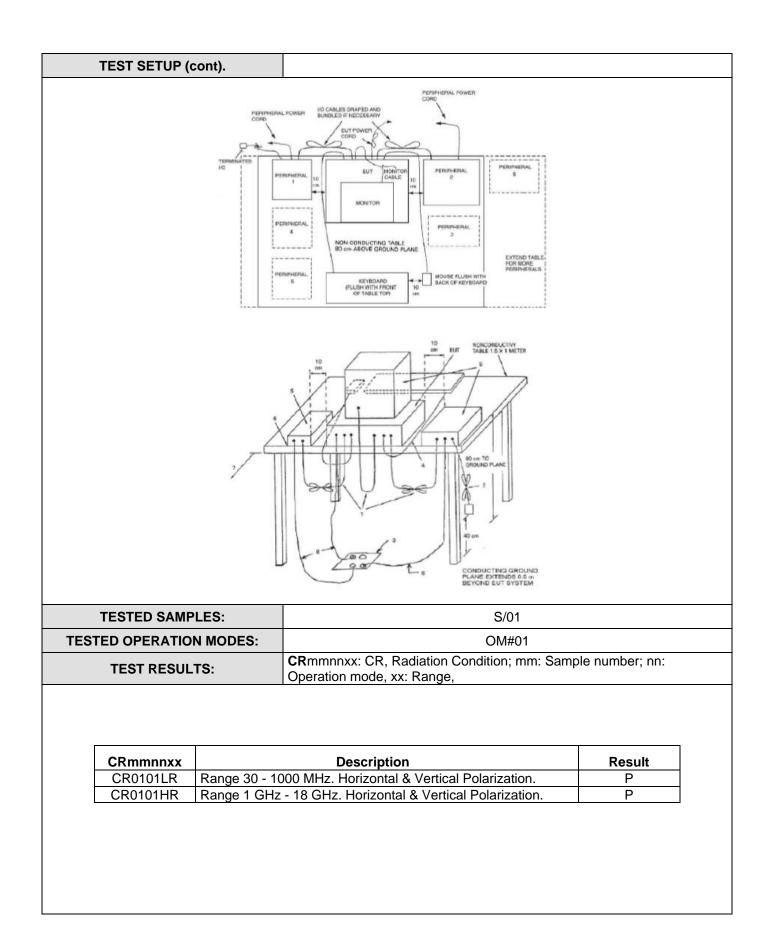
* Worst case detected

Г

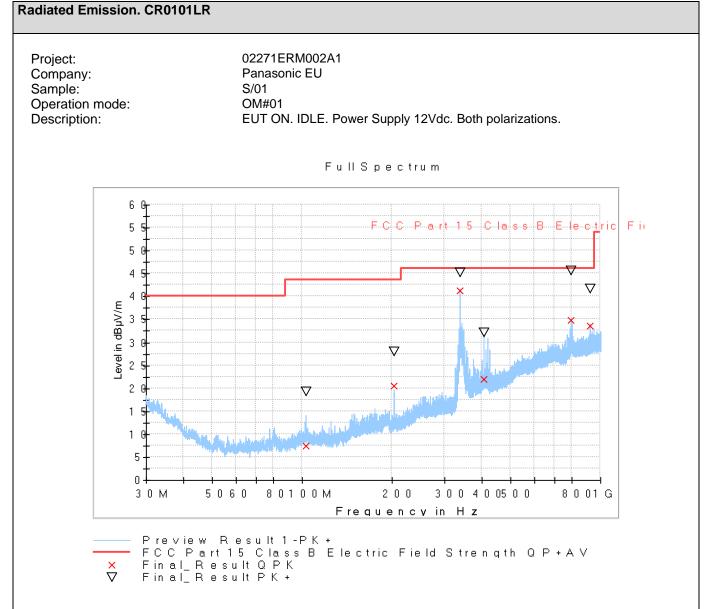


The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-01-17 Edition), Secs. 15.109 & ICES-003 Issue 6 – Update April 2017) in the frequency range 30 MHz to 40 GHz for class B equipment.	Limits of interference The applied limit for r Regulations 47 CFR F 2017) in the frequence (1) F perm TEST SE	Frequencies	B emissions, Subpart B (30 MHz to Freque (N 30 88 216 Abo ncy range [Hz) e 1000 s above 1 GHz,	& ICES-003 Is , 3 m distance, (10-01-17 Edition 40 GHz for classic ency range MHz) 0 to 88 to 216 5 to 960 0 ve 960 AVG Lin (μV/m) 500 the limit on peak radio	according wit on), Secs. 15. ss B equipmer QP Limi (μV/m) 100 150 200 500 mit for 3 m (dBμV/m 54	te April (201 th the requir 109 & ICES- nt. t for 3 m (dBμV/m) 40 43.5 46 54 PK Limi	7); ANSI C6 ements of F 003 Issue 6	53.4 (2014) FCC Rules and
Image:	The applied limit for r Regulations 47 CFR F (2017) in the frequenc (1) F perm TEST SE	radiated Part 15, s cy range Frequen (M Above Frequencies	emissions, Subpart B (30 MHz to Freque (N 30 88 216 Abo ncy range IHz) e 1000 s above 1 GHz,	(10-01-17 Editio 40 GHz for class ency range MHz) 0 to 88 to 216 5 to 960 5 ve 960 AVG Lin (μV/m) 500 the limit on peak radio	On), Secs. 15. ss B equipmer QP Limi (μV/m) 100 150 200 500 mit for 3 m (dBµV/m) 54	109 & ICES- nt. t for 3 m (dBμV/m) 40 43.5 46 54 PK Limi	003 Issue 6	
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							el from the	spectrum analyze





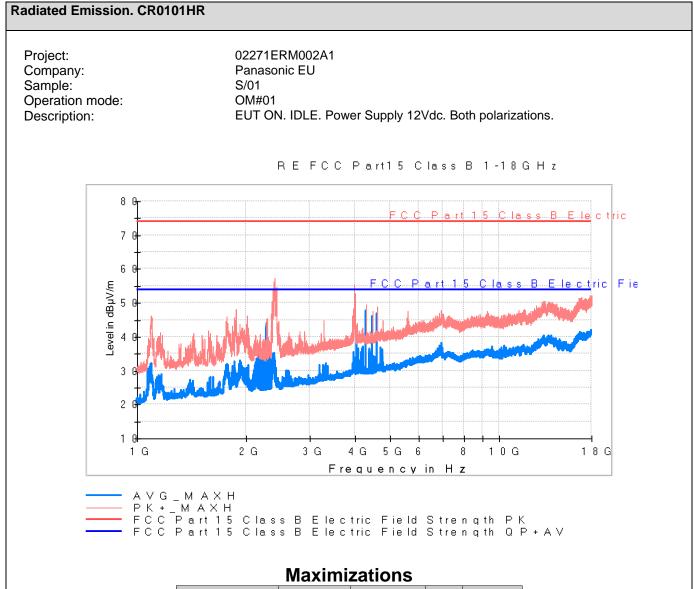




Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Height (cm)	Pol	Azimuth (deg)
102.820000	7.41	19.41	146.0	V	44.0
203.200000	20.45	27.97	147.0	Н	112.0
338.680000	41.41	45.31	161.0	Н	9.0
406.450000	22.07	32.21	184.0	Н	-82.0
796.000000	34.83	45.72	175.0	Н	-172.0
924.990000	33.64	41.73	100.0	V	31.0





Frequency (MHz)	PK+_MAXH (dBµV/m)	AVG_MAXH (dBµV/m)	Pol	Azimuth (deg)			
2282.968750	45.45	43.97	v	44.0			
2397.718750	57.47	32.55	н	88.0			
3973.937500	55.41	32.79	v	-14.0			
4286.843750	49.46	47.67	v	3.0			
4484.468750	47.48	45.99	v	-14.0			
4599.750000	48.74	46.68	v	44.0			