



TESTING CERT #2518.01

FCC ID: AZ492FT1630 DECLARATION OF COMPLIANCE MPE ASSESSMENT

Networks & Enterprise EME Test Laboratory 8000 West Sunrise Blvd Fort Lauderdale, FL. 33322 Date of Report: 7/3/07 Report Revision: Rev. O

Report ID: MPE rpt_PM1200_ 37-50MHz _

Rev O 070703 SR4788

Responsible Engineer: Kim Uong (Principle Staff EME Eng.)

Date/s Tested: 5/4/07, 6/27/07
Manufacturer/Location: Vertex, Japan
Date submitted for test: 3/28/07

DUT Description: PM1200 37-50MHz 120W

Test TX mode(s): CW

Max. Power output: 132W, 50% Duty Cycle (PTT)

TX Frequency Bands: 37-50 MHz Signaling type: FM

Model(s) Tested:AAM32CMD9PW5ANModel(s) Certified:AAM32CMD9PW5AN

Serial Number(s): 1591HE0034

Classification: Occupational Controlled (Operator); General Population/Uncontrolled (Passengers/Bystanders)

Rule Part(s): 2.1091 (d)

Approved Accessories:

Antenna(s):

RAB4004ARB (42-50MHz ¼ Wave 0dBd) RAB4003ARB (36-42MHz ¼ Wave 0dBd)

Final RF Exposure Results:

Mobile max calculated Magnetic Field Strength = 0.05A/m

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 3.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.

Signature on file –Deanna Zakharia

Deanna Zakharia – N&E EME Lab Senior Resource Manager,

Laboratory Director,

Approval Date: 7/3/07

Certification Date: 7/3/07

Certification No.: L1070701

TABLE OF CONTENTS

1.0	Product and System Description						
2.0	Additional Options and Accessories						
3.0	Measure	ement and	d Limit Standards				
4.0	Data Co	ollection (Consideration				
5.0	Measure	ement Sys	stem Uncertainty Levels				
6.0	Method	of Measu	urement				
	6.1	EME me	easurements made with trunk mounted antenna				
		6.1.1	External vehicle EME measurements				
		6.1.2	Internal vehicle EME measurement				
7.0	Test Sit	e					
8.0	Measure	ement Sys	stem/Equipment				
9.0	Test Un	it Descrip	otion				
10.0	Test Set	t-Up Desc	cription				
11.0	Test Re	sults Sum	nmary				
12.0	Conclus	sion					
APPEN	DIX A	Illustrati	ion of Antenna Location and Test Distances				

APPENDIX B: Meter/Probe Calibration Certificates APPENDIX C: Photos of Assessed Antennas APPENDIX D: Detailed MPE Measurement Data

REVISION HISTORY

Date	Revision	Comments
7/3/07	О	Initial release

1.0 Product and System Description

FCC ID: AZ492FT1630, model AAM32CMD9PW5AN is a mobile transceiver that utilizes frequency modulation (FM) half duplex transmission technology. The modulation could be conventional analog voice, tone PL and DPL. This device uses the external $1/4\lambda$ antennas that are capable of transmitting within their respective ranges in the 37-50MHz bands and with transmit powers up to 132 watts maximum.

The intended use of the radio is Push-To-Talk (PTT) while the device is properly installed in a vehicle with an external antenna mounted at the center of the trunk.

This device will be marketed to and used by employees solely for work-related operations, such as public safety agencies, e.g. police, fire and emergency medical. User training is the responsibility of these agencies which can be expected to employ the usage instructions, safety information and operational cautions set forth in the user's manual, instructional sessions or other means.

Accordingly this product is classified as Occupational/Controlled Exposure. However, In accordance with FCC requirements, the passengers inside the vehicle and the bystanders external to the vehicle are evaluated to the General Population/Uncontrolled Exposure Limits.

(Note that "By-standers" as used herein mean people other than operator)

2.0 Additional Options and Accessories:

NA

3.0 Measurement and Limit Standards

Measurements were performed according to the recommended guidelines in IEEE/ANSI C95.3-2002 and compared to FCC Limits Per 47 CFR 2.1091 (d) for General Population/Uncontrolled RF Exposure.

For test frequencies ranging from 37-50 MHz the MPE (Maximum Permissible Exposure) limit to electromagnetic energy in equivalent plane wave free-space power density is 0.2mW/cm^2 , and 0.073 A/m for the Electromagnetic field strength.

4.0 Data Collection Consideration

Power density testing was performed with DUT installed in a 1991 Ford Taurus (4-door). Measurement data was taken with the vehicle running at idle and the vehicle battery measuring 13.8 volts.

5.0 Measurement System Uncertainty Levels

The information below presents an estimate of the possible errors that are associated with the measurement system.

Uncertainty Budget for Near Field Probe Measurements

		Prob		
	Tol.			\boldsymbol{u}_i
	(± %)	Dist.	Divisor	(±%)
Measurement System				
Survey Meter Calibration	3.0	N	1.00	3.0
Repeatability Accuracy	7.0	N	1.00	7.0
Combined Standard				
Uncertainty		RSS		7.6
Expanded Uncertainty		k=2		15

6.0 Method of Measurement

6.1 EME measurements made with trunk mounted antenna(s)

(For reference, see Illustration of antenna location and test distances in appendix A)

6.1.1 External vehicle EME measurement

(Antenna mounted at trunk center)

MPE measurements for by-stander conditions are determined by taking the average of (10) measurements in a 2m vertical line for each of the (3) test locations indicated in appendix A with 20cm increments at the test distance of 150cm from the vehicle's body, as stated in the user manual. The measurement probe sensor is rotated 180° at each of the ten incremental measurements to ensure the highest result is captured. These measurements are representative of persons other than the operator standing next to the vehicle.

The offered antenna mounted at the center of the trunk was assessed at the rear of the vehicle while maintaining a twenty (20) centimeter separation distance between the probe sensor and vehicle body. The worst case antenna/frequency was then tested at a 45° radial at the corner of the trunk, and 90° radial at the side of the trunk.

For the current test vehicle, the antenna to probe sensor separation distance is 180cm (directly behind vehicle), 226.5cm (45 degree radial) and 233cm (90 degree radial).

6.2.2 Internal vehicle EME measurement

(Antenna mounted at trunk center)

While rotating survey meter probe through 180 degrees to ensure that the highest level is found, scans were performed inside of the vehicle, at both front and back seating areas, across the TX band to ascertain the highest level at the head. After the highest level is found, scans were performed vertically making two (2) additional measurements within an area approximately 40cm wide (representing the width of a person) so as to have a total of three (3) measured points, indicated below, that are averaged.

- a) Head area
- b) Chest area
- c) Lower Trunk area

7.0 Test Site

The test site is the Motorola open area test site located at 8000 W. Sunrise Blvd., Plantation, FL. 33322.

8.0 Measurement System/Equipment

Equipment Type	Model #	SN	Calibration Due Date
Automobile	1991 Ford Taurus, 4-Door		
*Survey Meter	NARDA Model 8718	01108	7/11/07
*Probe - E-Field (Electric Field)	NARDA Model 8722B	13001	7/11/07
Survey Meter	NARDA Model 8718	01108	4/30/08
Probe - E-Field (Electric Field)	NARDA Model 8722B	13001	4/30/08
Probe - H-Field (Magnetic Field)	NARDA Model 8731	03006	4/30/08

^{*} Equipment used during Internal E-field assessment (test date 5/4/2007).

9.0 Test Unit Description

Power density measurements were performed on AAM32CMD9PW5AN with serial numbers 1591HE0034. The tested frequencies and associated power outputs are presented below.

Frequency (MHz)	Po (W)
37	132
39	132
42	132
43	132
46	132
50	132

10.0 Test Set-Up Description

The following is the mobile antenna test configuration used for this product. (for reference, see Illustration of antenna location and test distances in the appendix A)

The ½ Wave antennas RAB4003ARB (0dBd gain) and RAB4004ARB (0dBd gain) were assessed while mounted at the center of the trunk of the test vehicle.

Assessments were made internal and external to the test vehicle at the specified distances and test locations indicated in sections 6.0, 11.0, and appendix A.

11.0 Test Results Summary

Appendix D presents detailed MPE measurement information for each test configuration; person external or internal to the vehicle, TX frequency, antenna (location, model and gain), distance from antenna to probe sensor, E field measurements, calibration factor, MPE average over body, initial power, power density calc, power density max calc, IEEE/FCC controlled and uncontrolled limits, and maximum output power.

The Average over Body test methodology is consistent with IEEE/ANSI C95.3-2002 guidelines.

The MPE test measurements were done at 100% duty cycle test mode, then the final calculated results are based on a 50% actual duty cycle which is in accordance with the User Manual instructions.

External to vehicle - 10 measurements are averaged over the body (*Body_Avg*). Internal to vehicle - 3 measurements are averaged over the body (*Body_Avg*). Narda Survey Meter measures in percent of the controlled limit. Therefore the averages over the body used in the calculations below reflect percentages.

MPE results are based on a Push-To-Talk (PTT) 50% duty cycle in CW mode.

Therefore;

Note; For Initial Output Power> Max_Output_Power, Max_Output_Power / Initial Output Power = 1

The tables below summarizes the MPE results of the E/H field test configurations for the AAM32CMD9PW5AN mobile radio. See appendices A and D respectively for test positions and detailed MPE measurement data.

TABLE 1: E-Field

			TABLE 1:	211011			
			Test			Max Calc	% of
		Antenna	Frequency	E/H	Passenger /	Pwr Density	Uncontrolled
Tables	Antenna Model	Location	(MHz)	Field	By-stander	(mW/cm^2)	Limit
		T	Trunk Mount	– By Stan	der		
1	RAB4003ARB	Trunk	37	E	By-stander	0.12	60%
2	RAB4003ARB	Trunk	37	E	Passenger	0.05	25%
3	RAB4003ARB	Trunk	39	E	By-stander	0.03	15%
4	RAB4003ARB	Trunk	39	Е	Passenger	0.01	5%
5	RAB4003ARB	Trunk	42	Е	By-stander	0.01	5%
6	RAB4003ARB	Trunk	42	Е	Passenger	0.01	5%
7	RAB4004ARB	Trunk	43	E	By-stander	0.02	10%
8	RAB4004ARB	Trunk	43	Е	Passenger	0.01	5%
9	RAB4004ARB	Trunk	46	Е	By-stander	0.02	10%
10	RAB4004ARB	Trunk	46	Е	Passenger	0.01	5%
11	RAB4004ARB	Trunk	50	Е	By-stander	0.01	5%
12	RAB4004ARB	Trunk	50	Е	Passenger	0.00	0%
			45 Degree Fi	rom Trun	k		
13	RAB4003ARB	Trunk	37	Е	By-stander	0.06	30%
			90 Degree Fr	rom Trun	ık		
14	RAB4003ARB	Trunk	37	Е	By-stander	0.04	20%

TABLE 2: H-Field

				2 2		**Max Calc Magnetic	
			Test			Field	% of
		Antenna	Frequency	E/H	Passenger /	Strength	Uncontrolled
Tables	Antenna Model	Location	(MHz)	Field	By-stander	(A/m)	Limit
		Т	runk Mount	– By Stan	der		
15	RAB4003ARB	Trunk	37	Н	By-stander	0.05	68%
16	RAB4003ARB	Trunk	37	Н	Passenger	0.05	68%
17	RAB4003ARB	Trunk	39	Н	By-stander	0.00	0%
18	RAB4003ARB	Trunk	39	Н	Passenger	0.03	41%
19	RAB4003ARB	Trunk	42	Н	By-stander	0.00	0%
20	RAB4003ARB	Trunk	42	Н	Passenger	0.04	55%
21	RAB4004ARB	Trunk	43	Н	By-stander	0.03	41%
22	RAB4004ARB	Trunk	43	Н	Passenger	0.02	27%
23	RAB4004ARB	Trunk	46	Н	By-stander	0.03	41%
24	RAB4004ARB	Trunk	46	Н	Passenger	0.00	0%
25	RAB4004ARB	Trunk	50	Н	By-stander	0.04	55%
26	RAB4004ARB	Trunk	50	Н	Passenger	0.00	0%
			45 Degree Fr	rom Trun	ık		
27	RAB4003ARB	Trunk	37	Н	By-stander	0.04	55%
			90 Degree Fi	rom Trun	ık		
28	RAB4003ARB	Trunk	37	Н	By-stander	0.04	55%

 $^(**) All \ Electromagnetic \ field \ measurements \ were \ done \ using \ the \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ converted \ to \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ results \ are \ power \ Power \ Density \ H-field \ probe \ (mW/cm^2), \ then \ the \ probe \ Power \ Power$ Magnetic field strength (A/m) using the following formula: $SQRT(((H*10^{-3})/377)*10^{4}), where \ H \ is \ H-field \ Power \ Density \ (mW/cm^{2}).$

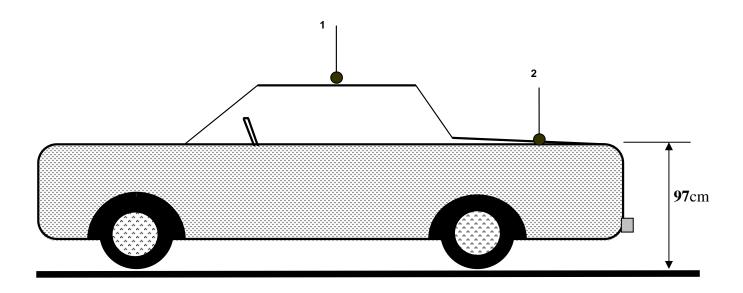
12.0 Conclusion

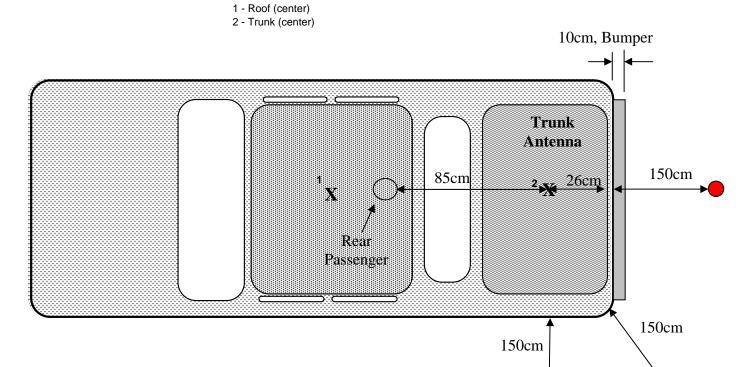
Depending on the test frequency, the AAM32CMD9PW5AN mobile assessments were performed with an output power range of 132-132W for 37-50 MHz. The highest power density results for the AAM32CMD9PW5AN mobile device scaled to the maximum allowable power output is 0.05A/m internal to the vehicle, and 0.05A/m external to the vehicle.

These MPE results demonstrate compliance to the FCC/IEEE General Population/Uncontrolled Exposure limit.

APPENDIX A

Illustration of Antenna Locations and Test Distances





By-Stander Test Locations

APPENDIX B

Meter/Probe Calibration Certificates

CERTIFICATION OF CALIBRATION CONFORMANCE

LIBERTY LABS, INC. 1346 Yellowwood Road Kimballton, IA 51543 EMAIL: mhoward@liberty-labs.com TEL: (712) 773-2199 FAX: (712)773-2299

This probe has been individually calibrated using IEEE Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz; IEEE Std. 1309-1996. All results of this calibration relate only to the items that were calibrated.

ACCREDITATION NOTES:

A complete copy of the scope of our A2LA accreditation is available upon request.

Instrumentation Environment: TEMP: 23°C

Calibration Environment: TEMP: 23°C RH: 41% Barometric Pressure (inches): 29.82

CERTIFICATE NO.: 2006061922

CLIENT: Motorola, Inc., 8000 W. Sunrise Blvd., Plantation, FL, 33322-9947, USA

MANUFACTURER: Narda MODEL NUMBER: 8722B & 8718

SERIAL NUMBER: 13001 & 01108 ASSET NUMBER:

DATE OF CALIBRATION: Tuesday, July 11, 2006

NAME OF CALIBRATING ORGANIZATION Liberty Labs, Inc.

CALIBRATED BY: DSG DSG

RE-CERTIFICATION DATE: Re-Certification interval is at customer discretion.

RECEIVED STATUS

Received in tolerance: 🗸

RETURNED STATUS

Returned in tolerance:

Returned limited cal.:

RH: 41%

NOTES: We have deviated from IEEE 1309 with the use of a tri-plate line as a transfer standard for frequencies at and/or below 1GHz. Client declined isotropic response testing. In/Out of tolerance based on alignment/mounting position and not on manufacturer's specifications. A probe position document is included with this certificate.

 $\operatorname{L}_{\operatorname{L},\operatorname{Inc.}}$

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ENGINEER IN CHARGE

MICHAEL W. HOWARD

NARTE CERTIFIED EMC ENGINEER, NO. EM C-000102-NE

ispb-position

Page 1 of 4



Rev. D: Issue Date 12/12/03

Date of Calibration: 11-July-2006
Date Printed: Tuesday, July 11, 2006
Customer Name: Motorola, Inc.
Probe Manufacturer: Narda
Probe Model: 8722B & 8718
Probe Serial No.: 13001 & 01108
Temperature (Deg C): 23
Humidity (%): 41
Notes: Calibrated with 8718 Monitor, s/n 01108.
CAL CERT #: 2006061922

Correction Factors Frequency in MHz Mutiplier 1.91 1.23 0.89 1 15 5.62 1.82 -1.04 -1.74 -3.02 0.36 30 0.82 75 100 150 1.04 -0.88 -2.79 -0.75 0.70 200 0.90 0.73 300 400 500 1.08 600 1.35 2.62 0.86 -1.29 0.47 3.97 700 800 900 1.58 0.68 -3.38 0.80 1000 2000 -0.49 -0.91 2.22 -0.92 2450 0.95 0.90 3000 4000 5000 0.90 6000 0.84 -1.52 7000 0.98 -0.15

CERTIFICATION OF CALIBRATION CONFORMANCE

LIBERTY LABS, INC. 1346 Yellowwood Road Kimballton, IA 51543 EMAIL: mhoward@liberty-labs.com TEL: (712) 773-2199 FAX: (712)773-2299

This probe has been individually calibrated using IEEE Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz; IEEE Std. 1309-1996. All results of this calibration relate only to the items that were calibrated.

ACCREDITATION NOTES:

A complete copy of the scope of our A2LA accreditation is available upon request.

Instrumentation Environment: TEMP: 23°C RH: 35% Calibration Environment: TEMP: 23°C RH: 35%

Barometric Pressure (inches): 29.85 CERTIFICATE NO.: 2007041704

CLIENT: Lockheed Martin IMC, Bldg. 5100, Stennis Space Center, MS, 39529, USA

MANUFACTURER: Narda MODEL NUMBER: 8722B & 8718 SERIAL NUMBER: 12023 & 01122

ASSET NUMBER: PRNRA002 & RFNRA001 DATE OF CALIBRATION: Monday, April 30, 2007

NAME OF CALIBRATING ORGANIZATION Liberty Labs, Inc.

CALIBRATED BY: DSG D56-

RE-CERTIFICATION DATE: 1 year from calibration date. This is a recommended recalibration interval but there are any number of factors that may cause the calibration item to drift out of calibration before the recommended interval has expired. Customer has been contacted concerning re-certification interval and documentation has been received and is on-file.

RECEIVED STATUS

Received in tolerance:

V

RETURNED STATUS
Returned in tolerance: ✓
Returned limited cal.:

NOTES: Below 1 GHz Liberty Labs uses a transfer standard calibrated to IEEE1309 Standards. Liberty Labs uses this transfer standard via the substitute method outlined in IEEE 1309 in a triplate test cell to calibrate probes. The uncertainty between the TEM and Triplate is minimal in this application. Client declined isotropic response testing. In/Out of tolerance based on alignment/mounting position and not on manufacturer's specifications. A probe position document is included with this certificate.

LL, Inc.

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ENGINEER IN CHARGE MICHAEL W. HOWARD

ispb-position

NARTE CERTIFIED EMC ENGINEER, NO. EM C-000102-NE

Page 1 of 4

Certificate Number: 2123.01 Rev. D: Issue Date 12/12/03

ACCREDITED

Probe01.txt

Probe01.txt
Date of Calibration: 30-April-2007
Date Printed: Monday, April 30, 2007
Customer Name: Lockheed Martin IMC
Probe Manufacturer: Narda
Probe Model: 87228 & 8718
Probe Serial No.: 12023 & 01122
Temperature (Deg C): 23
Humidity (%): 35
Notes: Calibrated with 8718 Monitor, s/n 01122.
CAL CERT #: 2007041704

Correction Factors

Frequency in MHz 1 15 30 75 100 150 200 250 300 400 500 600 700 800 900	Mutiplier 3.15 1.11 0.74 0.60 0.62 0.47 0.57 0.66 0.68 0.62 0.42 0.40 0.44 1.14	dB 9.96 0.87 -2.66 -4.44 -4.15 -6.56 -4.85 -3.45 -3.40 -4.16 -7.62 -8.05 -7.12
1000 2000 2450 3000 3500 4000 5000 5500 6000 7000 10000 11000	0.64 0.65 0.76 0.83 1.18 1.08 0.76 0.88 0.99 0.72 0.93 0.72	-3.85 -3.71 -2.40 -1.57 1.41 0.67 -2.37 -1.07 -0.08 -2.83 -0.64 -2.80 -3.07

CERTIFICATION OF CALIBRATION CONFORMANCE

LIBERTY LABS, INC. 1346 Yellowwood Road Kimballton, IA 51543
EMAIL: mhoward@liberty-labs.com TEL: (712) 773-2199 FAX: (712)773-2299

This probe has been individually calibrated using IEEE Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz; IEEE Std. 1309-1996. All results of this calibration relate only to the items that were calibrated.

ACCREDITATION NOTES:

A complete copy of the scope of our A2LA accreditation is available upon request.

Instrumentation Environment: TEMP: 23°C RH: 35%
Calibration Environment: TEMP: 23°C RH: 35%

Barometric Pressure (inches): 29.85 CERTIFICATE NO.: 2007041703

CLIENT: Lockheed Martin IMC, Bldg. 5100, Stennis Space Center, MS, 39529, USA

MANUFACTURER: Narda MODEL NUMBER: 8731 & 8718 SERIAL NUMBER: 03006 & 01122

ASSET NUMBER: PRNRH003 & RFNRA001
DATE OF CALIBRATION: Monday, April 30, 2007

NAME OF CALIBRATING ORGANIZATION Liberty Labs, Inc.

CALIBRATED BY: DSG 250

RE-CERTIFICATION DATE: 1 year from calibration date. This is a recommended recalibration interval but there are any number of factors that may cause the calibration item to drift out of calibration before the recommended interval has expired. Customer has been contacted concerning re-certification interval and documentation has been received and is on-file.

RECEIVED STATUS
Received in tolerance:

RETURNED STATUS
Returned in tolerance:
Returned limited cal.:

NOTES: Below 1 GHz Liberty Labs uses a transfer standard calibrated to IEEE1309 Standards. Liberty Labs uses this transfer standard via the substitute method outlined in IEEE 1309 in a triplate test cell to calibrate probes. The uncertainty between the TEM and Triplate is minimal in this application. Client declined isotropic response testing. In/Out of tolerance based on alignment mounting position and not on manufacturer's specifications. A probe position document is included with this certificate.

LL, Inc.

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ENGINEER IN CHARGE

MICHAEL W. HOWARD

NARTE CERTIFIED EMC ENGINEER, NO. EM C-000102-NE

ispb-position

Page 1 of 4

ACCREDITED
Certificate Number: 2123.01

Rev. D: Issue Date 12/12/03

SR4788 FCC ID: AZ492FT1630

Probe01.txt

Date of Calibration: 30-April-2007
Date Printed: Monday, April 30, 2007
Customer Name: Lockheed Martin IMC
Probe Manufacturer: Narda
Probe Model: 8731 & 8718
Probe Serial No.: 03006 & 01122
Temperature (Deg C): 23
Humidity (%): 35
Notes:

Notes:

CAL CERT #: 2007041703

Correction Factors for mW/cm^2

Frequency in MHZ	Multiplier	in dB
10	0.54	-5.32
15	0.63	-4.05
30	1.46	3.27
50	1.34	2.54
75	0.51	-5.92
100	0.67	-3.42
150	1.29	2.23
200	0.87	-1.25
250	0.91	-0.86
300	1.70	4.62

APPENDIX C
Photos of Assessed Antenna



Antenna kit numbers: RAB4003ARB, RAB4004ARB

APPENDIX D

Detailed MPE Measurement Data

Table 1

	External Vehicle MPE Assessment @ 37 MHz												
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)				
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	150	E	0.72	0.242	132.0	0.121	0.12				
				M	easurement Grid								
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% o Control i		IEEE Controlled Limit	IEEE Uncontrolled Limit				
1	20	6.1	70%	6	120	25.00	%	1.00	0.20				
2	40	8.9	90%	7	140	30.60	%						
3	60	13.	60%	8	160	36.60	%						
4	80	20.10%		9	180	40.30%			RF Po (*Max)				
5	100	18.	70%	10	200	41.50%			132.0				

Table 2

	1 able 2											
	Internal Vehicle MPE Assessment @ 37 MHz											
Antenna			Meas. Distance		Calibration	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm^2)		Initial Power	Pwr. Density	Pwr. Density Max Calc.		
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	Calc. (mW/cm^2)	(mW/cm^2)		
	RAB4003AR B (36-		Highest									
Trunk (ent)	42MHz)	2.15	Reading	E	0.88	0.009	0.109	132.0	0.055	0.05		
					Measurem	ent Grid						
Test I	osition				ontrol Limit Chest	% of Control Limit Lower Trunk		IEE	E Controlled Limit:	1.00		
Back	k Seat	1.	1.8%		0.5%	0.3%		IEEE 1	Uncontrolled Limit:	0.20		
Fron	t Seat	3.	6%	1	5.1%	14.09	6		RF Po (*Max):	132.0		

Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)
T 14.0	RAB4003AR B (36-	215	150	_	0.71	0.050		0.000	
Trunk (ent)	42MHz)	2.15	150	E	0.71	0.059	132.0	0.029	0.03
				M	easurement Grid				IDDD
Test Position	Height (cm)	% of Control Limit		Test Position	Height (cm)	% o Control l		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	2.5	50%	6	120	6.20%	6	1.00	0.20
2	40	3.0	00%	7	140	7.30%			
3	60	3.90%		8	160	8.00%			
4	80	5.50%		9	180	8.40%			RF Po (*Max)
5	100	5.1	70%	10	200	8.40%	6		132.0

Table 4

Internal Vehicle MPE Assessment @ 39 MHz												
						Average over H						
						Lower Trunk						
			Meas.		6.10	Back/Front seats (mW/cm^2)		T 101.33	·	Pwr. Density		
Antenna			Distance		Calibration	. ,		Initial Power	Pwr. Density	Max Cale.		
Location					Factor	Back	Front	(W)	Calc. (mW/cm^2)	(mW/cm^2)		
	RAB4003AR											
	B (36-		Highest									
Trunk (ent)	42MHz)	2.15	Reading	E	0.88	0.005	0.023	132.0	0.012	0.01		
					Measurem	ent Grid						
		% of Cor	trol Limit	% of Co	ontrol Limit	% of Contro	ol Limit					
Test P	Test Position Head		Chest		Lower Trunk		IEEE Controlled		1.00			
Back	Seat	0.	8%	(0.3%	0.3%		IEEE	Uncontrolled Limit:	0.20		
Fron	t Seat	2.0	6%		2.1%	2.3%			RF Po (*Max):	132.0		

Table 5

	Table 5													
	External Vehicle MPE Assessment @ 42 MHz													
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)					
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	150	E	0.7	0.028	132.0	0.014	0.01					
				M	easurement Grid									
									IEEE					
	Height	9/	of	Test	Height	% o	f	IEEE Controlled	Uncontrolled					
Test Position	(cm)	Contr	ol Limit	Position	(cm)	Control	Limit	Limit	Limit					
1	20	1.5	80%	6	120	2.90%	6	1.00	0.20					
2	40	1.9	90%	7	140	3.209	6							
3	60	2.1	20%	8	160	3.309	6							
4	80	2.7	70%	9	180	3.809	6		RF Po (*Max)					
5	100	2.5	50%	10	200	3.709	6		132.0					

1 able 0												
Internal Vehicle MPE Assessment @ 42 MHz												
Antenna			Meas. Distance		Calibration	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm^2)		Initial Power	Pwr. Density	Pwr. Density Max Calc.		
Location				Factor	Back	Front	(W)	Calc. (mW/cm^2)	(mW/cm^2)			
	RAB4003AR											
	B (36-		Highest									
Trunk (ent)	42MHz)	2.15	Reading	E	0.87	0.004	0.011	132.0	0.006	0.01		
					Measurem	ent Grid						
Tast P	osition		ntrol Limit ead		ontrol Limit Chest	% of Contr Lower T		IFF	E Controlled Limit:	1.00		
		0.5% 0.3%										
	Seat					0.3%		IEEE	Uncontrolled Limit:	0.20		
Fron	t Seat	1.	1%		1.1%	1.2%	5		RF Po (*Max):	132.0		

Table 7

			Externa	l Vehicle MP	E Assessment @	43	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)
Trunk (ent)	RAB4004AR B (42-50 MHz)	2.15	150	E	0.7	0.047	132.0	0.024	0.02
				M	easurement Grid				
Test Position	Height (cm)		of ol Limit	Test Position	Height (cm)	% o Control l	-	IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	2.3	30%	6	120	4.80%	6	1.00	0.20
2	40	2.5	80%	7	140	5.60%	6		
3	60	3.1	10%	8	160	6.409	6		
4	80	4.6	50%	9	180	6.70%	6		RF Po (*Max)
5	100	4.3	20%	10	200	6.80%	6		132.0

Table 8

	13016.0											
			Intern	al Vehicle MF	E Assessment @		MHz					
						Average over H						
						Lower Trunk						
			Meas.			Back/Front seats				Pwr. Density		
Antenna			Distance		Calibration	(mW/cm^2)		Initial Power	Pwr. Density	Max Calc.		
Location	Antenna	Gain (dBi)	(cm)			(W)	Calc. (mW/cm^2)	(mW/cm^2)				
	RAB4004AR											
	B (42-50		Highest									
Trunk (ent)	MHz)	2.15	Reading	E	0.87	0.005	0.018	132.0	0.009	0.01		
					Measurem	ent Grid						
		% of Cor	trol Limit	% of Co	entrol Limit	% of Contro	ol Limit					
Test P	est Position Head		(Chest		Lower Trunk		E Controlled Limit:	1.00			
Back	Seat	0.	7%	(0.5%	0.4%		IEEE	Uncontrolled Limit:	0.20		
Fron	t Seat	1.	7%		1.8%	1.9%	5		RF Po (*Max):	132.0		

			Externo	l Vahiela MP	E Assessment @	46	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)		Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)
Trunk (ent)	RAB4004AR B (42-50 MHz)	2.15	150	Е	0.69	0.031	132.0	0.015	0.02
				M	easurement Grid				
Test Position	Height (cm)		of ol Limit	Test Position	Height (cm)	% o Control l		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	1.0	60%	6	120	3.409	6	1.00	0.20
2	40	2.	10%	7	140	3.609	6		
3	60	2.1	20%	8	160	3.909	6		
4	80	2.9	90%	9	180	4.009	6		RF Po (*Max)
5	100	2.9	90%	10	200	3.909	6		132.0

Table 10

			Intorn	al Vahiala MI	E Assessment @	46	MHz			
Autenna			Meas. Distance	at Venicle MF	Calibration	Average over H Lower To Back/Fron (mW/cu	ead, Chest, runk t seats	Initial Power	Pwr. Density	Pwr. Density Max Calc.
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	Cale. (mW/cm^2)	(mW/cm^2)
	RAB4004AR									
	B (42-50		Highest							
Trunk (ent)	MHz)	2.15	Reading	E	0.87	0.004	0.011	132.0	0.006	0.01
					Measurem	ent Grid				
Test P	% of Control Limit % of Control Limit % of Control Limit Test Position Head Chest Lower Trunk IEEE Controlled Limit:									1.00
Back	Seat	0.4	4%	(0.3%	0.5%		IEEE	Uncontrolled Limit:	0.20
Fron	t Seat	1.	1%		1.1%	1.2%	,		RF Po (*Max):	132.0

	External Vehicle MPE Assessment @ 50 MHz													
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Cale. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)					
Trunk (ent)	RAB4004AR B (42-50 MHz)	2.15	150	Е	0.68	0.020	132.0	0.010	0.01					
				M	easurement Grid									
Test Position	Height (cm)		o of ol Limit	Test Position	Height (cm)	% o Control I		IEEE Controlled Limit	IEEE Uncontrolled Limit					
1	20	1.5	50%	6	120	2.009	6	1.00	0.20					
2	40	1.0	60%	7	140	2.109	6							
3	60	1.7	70%	8	160	2.40%	6							
4	80	1.9	90%	9	180	2.40%	6		RF Po (*Max)					
5	100	1.9	90%	10	200	2.50%	6		132.0					

					Table	12				
			Intern	al Vehicle MF	E Assessment @	50	MHz			
Autenna Location	Antenna	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm^2) Initial Power Back Front (W) Calc. (mW/cm^2)				Pwr. Density Max Calc. (mW/cm^2)
	RAB4004AR									-
	B (42-50		Highest							
Trunk (ent)	MHz)	2.15	Reading	E	0.86	0.002	0.006	132.0	0.003	0.00
					Measurem	ent Grid				
Test P	osition		ntrol Limit		ontrol Limit Chest	% of Contr Lower T		IEE	E Controlled Limit:	1.00
	Back Seat 0.2%			0.2%		0.2%			Uncontrolled Limit:	0.20
	t Seat		6%		0.6%	0.5%			RF Po (*Max):	132.0
				•						

Table 13 -- 45 Degree

			Externa	l Vehicle MP	E Assessment @	37	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)		Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	150	Е	0.72	0.113	132.0	0.056	0.06
				M	easurement Grid				
Test Position	Height (cm)		of ol Limit	Test Position	Height (cm)	% o Control l		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	3.4	10%	6	120	11.10	%	1.00	0.20
2	40	3.4	10%	7	140	14.00	%		
3	60	4.5	50%	8	160	16.60	%		
4	80	7.0	00%	9	180	19.80	%		RF Po (*Max)
5	100	9.0	00%	10	200	23.90	%		132.0

Table 14 -- 90 Degree

	Table 14 90 Degree											
			Externa	l Vehicle MP	E Assessment @	37	MHz					
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Pwr. Density Calc. (mW/cm^2)	Pwr. Density Max Calc. (mW/cm^2)			
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	150	E	0.72	0.083	132.0	0.042	0.04			
					easurement Grid		352.5	313.12	0.01			
				342	easurement Griu				IEEE			
	Height	9,4	of	Test	Height	% o	f	IEEE Controlled	Uncontrolled			
Test Position	(cm)	Contr	ol Limit	Position	(cm)	Control	Limit	Limit	Limit			
1	20	2.3	30%	6	120	7.309	6	1.00	0.20			
2	40	2.3	30%	7	140	9.50%	6					
3	60	2.9	90%	8	160	12.00	%					
4	80	4.5	50%	9	180	17.10	%		RF Po (*Max)			
5	100	5.4	10%	10	200	20.10	%		132.0			

Table 15

	14016-15										
			Externa	l Vehicle MP	E Assessment @	37	MHz				
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)		
	RAB4003AR B (36-										
Trunk (ent)	42MHz)	2.15	150	H	1.42	0.153	132.0	0.045	0.05		
				M	easurement Grid						
									IEEE		
	Height	Meas. Pv	vr. Density	Test	Height	Meas. Pwr.	Density	IEEE Controlled	Uncontrolled		
Test Position	(cm)	(mW	/cm^2)	Position	(cm)	(mW/cu	n^2)	Limit	Limit		
1	20	0.	120	6	120	0.170)	0.163	0.073		
2	40	0.	130	7	140	0.150)				
3	60	0.	160	8	160	0.210)				
4	80	0.	180	9	180	0.130)		RF Po (*Max)		
5	100	0.	180	10	200	0.100)		132.0		

Table 16

					Lable	10				
		Intern	al Vehicle MP	E Assessment	@ (30-100MHz)	37	MHz			
Autenna Antenna Antenna Antenna Cain (dBi) Antenna Antenna Cain (dBi) Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm^2) Initial Power Calc. (mW/cm^2) Initial Power Calc. (A/m)									Magnetic Field Strength Max Calc.	
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	(A/m)	(A/m)
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	Highest Reading	Н	1.42	0.177	0.060	132	0.048	0.05
					Measurem	ent Grid				
			r. Density ead		wr. Density Chest	Meas. Pwr. Lower T				
Test Position (mW/cm^2) (mW/cm^2) IEEE Controlled Limit:								0.163		
Back	Back Seat 0.280				0.150)	IEEE 1	Uncontrolled Limit:	0.073
Fron	t Seat	0.0	060	(0.060	0.060			RF Po (*Max):	132.0

					Table 17				
			Externa	l Vehicle MP	E Assessment @	39	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
T 14 0	RAB4003AR B (36-	216	150	н	1.0	0.000	122.0	0.000	
Trunk (ent)	42MHz)	2.15	150	п	1.41	0.000	132.0	0.000	0.00
				M	easurement Grid				
									IEEE
	Height	Meas. Pv	vr. Density	Test	Height	Meas. Pwr.	Density	IEEE Controlled	Uncontrolled
Test Position	(cm)	(mW	/cm^2)	Position	(cm)	(mW/cn	n^2)	Limit	Limit
1	20	0.	000	6	120	0.000)	0.163	0.073
2	40	0.	000	7	140	0.000)		
3	60	0.	000	8	160	0.000)		
4	80	0.	000	9	180	0.000)		RF Po (*Max)
5	100	0.	000	10	200	0.000)		132.0

Table 18

					Table					
		Intern	al Vehicle MP	E Assessment	@ (30-100MHz)	39	MHz			
Antenna	Meas. Antenna Meas. Distance Calibration Calibration Calibration Back/Front seats (mW/cm^2) Initial Power Calc.									Magnetic Field Strength Max Calc.
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	(A/m)	(A/m)
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	Highest Reading	Н	1.41	0.063	0.000	132	0.029	0.03
					Measurem	ent Grid				
			r. Density ead		wr. Density Chest	Meas. Pwr. Lower T				
Test Position (mW/cm^2) (mW/cm^2) IEEE Controlled Limit								0.163		
Back	: Seat	0.1	110	(0.050	0.030)	IEEE	Uncontrolled Limit:	0.073
Front Seat 0.000 0.000 0.000 RF Po (*Max):							132.0			

					Table 19				
			Externa	l Vehicle MP	E Assessment @	42	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
	RAB4003AR B (36-								
Trunk (ent)	42MHz)	2.15	150	H	1.39	0.001	132.0	0.003	0.00
				M	easurement Grid				
									IEEE
Test Position	Height (cm)		r. Density /cm^2)	Test Position	Height (cm)	Meas. Pwr. (mW/cu	·	IEEE Controlled Limit	Uncontrolled Limit
1	20	0.	000	6	120	0.000)	0.163	0.073
2	40	0.	000	7	140	0.000)		
3	60	0.	000	8	160	0.000)		
4	80	0.	000	9	180	0.000)		RF Po (*Max)
5	100	0.	800	10	200	0.000)		132.0

Table 20											
Internal Vehicle MPE Assessment @ (30-100MHz) 42 MHz											
Antenna	Average over Head, Chest, Lower Trunk Meas. Antenna Antenna Average over Head, Chest, Lower Trunk Back/Front seats (mW/cm^2) Initial Power Calc.									Magnetic Field Strength Max Calc.	
Location	Location Antenna Gain (dBi) (cm) E/H Field Factor Back Front (W) (A/m)										
Trunk (ent)	RAB4003AR B (36- 42MHz)	2.15	Highest Reading	Н	1.39	0.123	0.043	132	0.040	0.04	
					Measurem	ent Grid					
		He	r. Density ead	(wr. Density Chest	Meas. Pwr. Lower Tr	runk				
Back	: Seat	0.1	130	(0.120	0.120)	IEEE 1	Uncontrolled Limit:		
Front Seat 0.050 0.030 0.050 RF Po (*Max): 13										132.0	

Table 21

			Externa	l Vehicle MP	E Assessment @	43	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
Trunk (ent)	RAB4004AR B (42-50 MHz)	2.15	150	н	1.38	0.049	132.0	0.025	0.03
				М	easurement Grid				
Test Position	Height (cm)		vr. Density //cm^2)	Test Position	Height (cm)	Meas. Pwr. (mW/cu		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.	031	6	120	0.063	3	0.163	0.073
2	40	0.	045	7	140	0.043	3		
3	60	0.	064	8	160	0.030)		
4	80	0.	053	9	180	0.031	l		RF Po (*Max)
5	100	0.	081	10	200	0.046	5		132.0

Table 22										
		Intern	al Vehicle MP	E Assessment	: @ (30-100MHz)	43	MHz			
Antenna			Meas. Distance		Calibration	Average over H Lower T Back/Fron (mW/cu	runk it seats	Initial Power	Magnetic Field Strength Calc.	Magnetic Field Strength Max Calc.
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	(A/m)	(A/m)
Trunk (ent)	RAB4004AR B (42-50 MHz)	2.15	Highest Reading	Н	1.38	0.027	0.000	132	0.019	0.02
Trunk (cm)	WII12)	2.13	Reading	-11			0.000	132	0.019	0.02
					Measurem	ent Grid				
			r. Density ead		wr. Density Chest	Meas, Pwr. Lower T				
Test P	Test Position (mW/cm^2) (mW/cm^2) IEEE Controlled Limit: 0								0.163	
Back Seat 0.040					0.020 0.020		IEEE 1	Uncontrolled Limit:	0.073	
Fron	Front Seat 0.000 0.000 0.000 RF Po (*Max): 11									132.0

			Externa	l Vehicle MP	E Assessment @	46	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
T1 (0	RAB4004AR B (42-50	215	150		126	0.000	122.0	0.025	0.00
Trunk (ent)	MHz)	2.15	150	H	1.36	0.090	132.0	0.035	0.03
				M	easurement Grid				YEEE
Test Position	Height (cm)		vr. Density //cm^2)	Test Position	Height (cm)	Meas. Pwr. (mW/cu		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.	120	6	120	0.083	3	0.163	0.073
2	40	0.	120	7	140	0.056	5		
3	60	0.	110	8	160	0.053	3		
4	80	0.	086	9	180	0.060)		RF Po (*Max)
5	100	0.	140	10	200	0.075	5		132.0

Table 24

			Intern	al Vehicle MF	E Assessment @		MHz			
Antenna			Meas. Distance		Calibration	Average over H Lower T Back/Fron (mW/cu	runk t seats	Initial Power	Magnetic Field Strength Calc.	Magnetic Field Strength Max Calc.
Location	Antenna	Gain (dBi)	(cm)	E/H Field	Factor	Back	Front	(W)	(A/m)	(A/m)
	RAB4004AR									
	B (42-50		Highest							
Trunk (ent)	MHz)	2.15	Reading	H	1.36	0.000	0.000	132.0	0.000	0.00
					Measurem	ent Grid				
			r. Density ead		wr. Density Chest	Meas. Pwr. Lower T				
Test P	osition	(mW	/cm^2)	(mV	V/cm^2)	(mW/cn	n^2)	IEE	E Controlled Limit:	0.163
Back	Back Seat 0.000		000	0.000		0.000)	IEEE V	Uncontrolled Limit:	0.073
Fron	t Seat	0.0	000	(0.000	0.000			RF Po (*Max):	132.0

Table 25

					1 able 25				
			Externa	l Vehicle MP	E Assessment @	50	MHz		
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
	RAB4004AR								
Trunk (ent)	B (42-50 MHz)	2.15	150	Н	1.34	0.107	132.0	0.038	0.04
				M	easurement Grid				
Test Position	Height (cm)		vr. Density //cm^2)	Test Position	Height (cm)	Meas. Pwr. (mW/cu		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.	110	6	120	0.100)	0.163	0.073
2	40	0.	087	7	140	0.079)		
3	60	0.	079	8	160	0.120)		
4	80	0.	100	9	180	0.110)		RF Po (*Max)
5	100	0.	110	10	200	0.170)		132.0

		Intern	al Vehicle MP	E Assessment	@ (30-100MHz)	50	MHz						
Antenna Location													
		Ositi (ubi)	(сш)	Lannen	1 40101	2.11.11	21041	(11)	(1211)	(A/m)			
ľ	B (42-50		Highest										
Trunk (ent)	MHz)	2.15	Reading	H	1.34	0.000	0.000	132	0.000	0.00			
					Measurem	ent Grid							
	į	He	r. Density	(wr. Density Chest	Meas. Pwr. Lower Tr	runk			0.160			
Test Po		(mW/	(cm^2)	(mV	V/cm^2)	(mW/cn	n^2)		E Controlled Limit:				
Back										0.073			
Front	Seat	0.0	000		0.000	0.000)		RF Po (*Max):	132.0			

Table 27 -- 45 Degree

	Table 27 45 Degree												
			Externa	l Vehicle MP	E Assessment @	37	MHz						
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)				
	RAB4003AR B (36-												
Trunk (ent)	42MHz)	2.15	150	H	1.42	0.105	132.0	0.037	0.04				
				M	easurement Grid								
									IEEE				
	Height	Meas. Pv	vr. Density	Test	Height	Meas. Pwr.	Density	IEEE Controlled	Uncontrolled				
Test Position	(cm)	(mW	/cm^2)	Position	(cm)	(mW/en	n^2)	Limit	Limit				
1	20	0.	100	6	120	0.100)	0.163	0.073				
2	40	0.	097	7	140	0.100)						
3	60	0.	083	8	160	0.120)						
4	80	0.	082	9	180	0.110)		RF Po (*Max)				
5	100	0.	094	10	200	0.160)		132.0				

Table 28 -- 90 Degree

Table 28 90 Degree									
External Vehicle MPE Assessment @ 37 MHz									
Antenna Location	Antenna Model	Gain (dBi)	Meas. Distance (cm)	E/H Field	Calibration Factor	Average over Body (mW/cm^2)	Initial Power (W)	Magnetic Field Strength Calc. (A/m)	Magnetic Field Strength Max Calc. (A/m)
	RAB4003AR B (36-								
Trunk (ent)	42MHz)	2.15	150	H	1.42	0.137	132.0	0.043	0.04
Measurement Grid									
Test Position	Height (cm)	Meas, Pwr. Density (mW/cm^2)		Test Position	Height (cm)	Meas. Pwr. Density (mW/cm^2)		IEEE Controlled Limit	IEEE Uncontrolled Limit
1	20	0.140		6	120	0.110		0.163	0.073
2	40	0.110		7	140	0.130			
3	60	0.100		8	160	0.150			
4	80	0.120		9	180	0.160			RF Po (*Max)
5	100	0.110		10	200	0.240			132.0