

 <b>MOTOROLA SOLUTIONS</b>	 <b>MS ISO/IEC 17025 TESTING SAMM No.0826</b>
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**DECLARATION OF COMPLIANCE: MPE ASSESSMENT Report Part 3 of 3**

<b>Motorola Solutions EME Test Laboratory</b> Motorola Solutions Malaysia Sdn Bhd (Innoplex) Plot 2A, Medan Bayan Lepas, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	<b>Date of Report:</b> 11/02/2018 <b>Report Revision:</b> A
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**Responsible Engineer:** Saw Sun Hock (EME Engineer)  
**Report author:** Saw Sun Hock (EME Engineer)  
**Date(s) Tested:** 2/17/2017-3/17/2017; 7/27/2018-9/26/2018  
**Manufacturer:** Futurecom Systems Group  
**Date submitted for test:** 01/13/2017  
**DUT Description:** DVR VHF (136-174 MHz), Digital Vehicular Repeater  
 Companion Mobile: APX8500 HP mobile All Bands (VHF, UHF, 7/800)  
**Test TX mode(s):** CW (for FM), 802.11 b/g/n (for WLAN 2.4GHz), 802.11 a/n/ac (for WLAN 5GHz)  
**Max. Power output:** **DVR:** 6W (100% duty cycle)  
**Companion Mobile:** 50% duty cycle, PTT with below maximum output power  
 120W (136-174 MHz), 120W (380-484 MHz), 48W (485-512 MHz), 30W (512-520 MHz),  
 36W (764-805 MHz), 42W (806-870 MHz); 63.1 mW (WLAN 2.4 GHz 802.11b),  
 25 mW (WLAN 2.4 GHz 802.11g/n) ; 31.6 mW (WLAN 5 GHz 802.11 a/n/ac)  
**TX Frequency Bands:** **DVR:** 136-174 MHz  
**Companion Mobile:**  
 136-174 MHz; 380-520 MHz; 764-805 MHz; 806-870 MHz; WLAN 2400-2483.5 MHz;  
 WLAN 5180-5825 MHz  
**Signaling type:** FM, TDMA, 802.11b/g/n (WLAN); 802.11 a/n/ac (WLAN 5 GHz)  
**Model(s) Tested:** **DVR:** MOBEXCOM DVRS VHF (DQPM DV3000P)  
**Companion Mobile:** M37TXS9PW1AN (HUW1001A)  
**Model(s) Certified:** MOBEXCOM DVRS VHF (DQPM DV3000P)  
**Serial Number(s):** 16082232 (DVR) , 681P3A0098 & 681P3A0116 (Companion Mobile)  
**Classification:** Occupational/Controlled Environment  
**FCC ID:** **DVR:** LO6-DVRSVHF  
 150.8-173.4 MHz  
**Companion Mobile:** AZ492FT7118  
 150.8-173.4 MHz, 406.1-512 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2412-2462  
 MHz, 5180-5825 MHz

The MPE results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits. FCC rules require compliance for Passengers and Bystanders to the FCC General Population/Uncontrolled limits.

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 Solutions Inc. EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-159 April 2006. The results and statements contained in this report pertain only to the device(s) evaluated herein.

 <b>Tiong Nguk Ing</b> Deputy Technical Manager (Approved Signatory) Approval Date: 11/12/2018	
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**Appendix I – MPE Measurement Results for DVR VHF**

**Table I.1**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS1	0.006	0.009	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	1.0	0.012	0.01	0.013
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS1	0.008	0.008	0.009	0.01	0.012	0.014	0.014	0.014	0.014	0.014	0.014	1.0	0.012	0.01	0.012
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS2	0.007	0.011	0.014	0.016	0.022	0.024	0.024	0.024	0.024	0.024	0.024	1.0	0.019	0.02	0.020
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS2	0.005	0.008	0.011	0.014	0.017	0.017	0.017	0.017	0.017	0.017	0.017	1.0	0.014	0.01	0.015
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS3	0.009	0.012	0.02	0.025	0.03	0.032	0.038	0.038	0.038	0.038	0.038	1.0	0.028	0.03	0.029
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS3	0.007	0.011	0.014	0.018	0.026	0.031	0.036	0.036	0.036	0.036	0.036	1.0	0.025	0.03	0.026
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS4	0.012	0.019	0.022	0.024	0.025	0.027	0.033	0.0333	0.033	0.033	0.033	1.0	0.026	0.03	0.027
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS4	0.01	0.017	0.02	0.02	0.021	0.027	0.031	0.031	0.031	0.031	0.031	1.0	0.024	0.02	0.025
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	BS5	0.01	0.01	0.01	0.014	0.016	0.021	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS5	0.015	0.015	0.015	0.015	0.019	0.024	0.024	0.024	0.024	0.024	0.024	1.0	0.020	0.02	0.021

Notes:

MPE calculations are defined in section 15.0  
Blue fonts: Frequencies not regulated by FCC.

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS1	0.006	0.007	0.009	0.013	0.018	0.018	0.018	0.018	0.018	0.018	1.0	0.014	0.01	0.015
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS1	0.002	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.007	0.007	1.0	0.006	0.01	0.006
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS2	0.006	0.009	0.012	0.017	0.018	0.019	0.02	0.02	0.02	0.02	1.0	0.016	0.02	0.017
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS2	0.002	0.005	0.006	0.009	0.013	0.015	0.015	0.015	0.015	0.015	1.0	0.011	0.01	0.012
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS3	0.007	0.013	0.018	0.019	0.031	0.033	0.036	0.036	0.036	0.036	1.0	0.027	0.03	0.028
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS3	0.007	0.012	0.017	0.019	0.03	0.035	0.04	0.04	0.04	0.04	1.0	0.028	0.03	0.029
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS4	0.013	0.019	0.022	0.024	0.026	0.029	0.031	0.031	0.031	0.031	1.0	0.026	0.03	0.027
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS4	0.013	0.013	0.024	0.025	0.03	0.044	0.044	0.044	0.044	0.044	1.0	0.033	0.03	0.034
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	BS5	0.014	0.016	0.016	0.016	0.018	0.025	0.026	0.026	0.026	0.026	1.0	0.021	0.02	0.022
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS5	0.008	0.008	0.009	0.009	0.015	0.019	0.019	0.019	0.019	0.019	1.0	0.014	0.01	0.015

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS1	0.003	0.003	0.006	0.007	0.007	0.007	0.007	0.007	0.008	0.009	1.0	0.006	0.01	0.007
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS1	0.003	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	1.0	0.005	0.01	0.005
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS1	0.003	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	1.0	0.004	0.00	0.005
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS2	0.002	0.006	0.007	0.01	0.012	0.013	0.014	0.014	0.014	0.014	1.0	0.011	0.01	0.011
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS2	0.005	0.009	0.01	0.017	0.017	0.02	0.02	0.02	0.02	0.02	1.0	0.016	0.02	0.016
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS2	0.006	0.009	0.011	0.021	0.027	0.027	0.027	0.027	0.027	0.027	1.0	0.021	0.02	0.022
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS3	0.006	0.011	0.017	0.018	0.027	0.032	0.036	0.036	0.036	0.036	1.0	0.026	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS3	0.009	0.016	0.021	0.021	0.028	0.044	0.049	0.049	0.049	0.049	1.0	0.034	0.03	0.035
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS3	0.014	0.021	0.027	0.031	0.051	0.051	0.052	0.052	0.052	0.052	1.0	0.040	0.041	0.042
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS4	0.012	0.018	0.021	0.022	0.025	0.032	0.039	0.039	0.039	0.039	1.0	0.029	0.03	0.030
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS4	0.011	0.017	0.021	0.023	0.029	0.03	0.034	0.034	0.034	0.034	1.0	0.027	0.03	0.028
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS4	0.016	0.025	0.03	0.031	0.038	0.049	0.051	0.051	0.051	0.051	1.0	0.039	0.04	0.041

Note:

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	BS5	0.007	0.007	0.007	0.007	0.013	0.018	0.018	0.018	0.018	0.018	0.018	1.0	0.013	0.01	0.014
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	BS5	0.01	0.01	0.011	0.011	0.018	0.026	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.020
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS5	0.01	0.01	0.01	0.012	0.021	0.026	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS1	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	1.0	0.005	0.00	0.005
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS1	0.002	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	1.0	0.004	0.00	0.004
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS1	0.005	0.005	0.005	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.008	1.0	0.007	0.01	0.007
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS2	0.005	0.011	0.011	0.011	0.016	0.016	0.018	0.018	0.018	0.018	0.018	1.0	0.014	0.01	0.015
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS2	0.005	0.008	0.01	0.014	0.02	0.024	0.026	0.026	0.026	0.026	0.026	1.0	0.019	0.02	0.019
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS2	0.005	0.006	0.008	0.01	0.015	0.016	0.018	0.018	0.018	0.018	0.018	1.0	0.013	0.01	0.014
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS3	0.012	0.015	0.018	0.02	0.028	0.038	0.038	0.038	0.038	0.038	0.038	1.0	0.028	0.03	0.029
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS3	0.01	0.02	0.025	0.036	0.036	0.048	0.053	0.054	0.054	0.054	0.054	1.0	0.039	0.04	0.040
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS3	0.012	0.017	0.02	0.021	0.037	0.038	0.043	0.043	0.043	0.043	0.043	1.0	0.032	0.03	0.033

Note:

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS4	0.011	0.017	0.021	0.021	0.024	0.033	0.037	0.037	0.037	0.037	1.0	0.028	0.03	0.029
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS4	0.017	0.026	0.032	0.032	0.041	0.05	0.05	0.05	0.05	0.05	1.0	0.040	0.04	0.041
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS4	0.021	0.021	0.023	0.024	0.033	0.041	0.042	0.042	0.042	0.042	1.0	0.033	0.03	0.034
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	BS5	0.006	0.006	0.007	0.007	0.012	0.013	0.021	0.021	0.021	0.021	1.0	0.014	0.01	0.014
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	BS5	0.01	0.01	0.01	0.014	0.021	0.027	0.027	0.027	0.027	0.027	1.0	0.020	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	BS5	0.005	0.006	0.006	0.008	0.016	0.016	0.016	0.016	0.016	0.016	1.0	0.012	0.01	0.012

Note:  
MPE calculations are defined in section 15.0

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS1	0.016	0.016	0.016	0.017	0.018	0.019	0.019	0.023	0.026	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS1	0.016	0.016	0.016	0.016	0.017	0.017	0.018	0.021	0.024	0.025	1.0	0.019	0.01	0.010
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS2	0.02	0.02	0.021	0.021	0.023	0.026	0.028	0.028	0.031	0.034	1.0	0.025	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS2	0.019	0.02	0.021	0.021	0.024	0.026	0.029	0.03	0.032	0.033	1.0	0.026	0.02	0.019
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS3	0.022	0.022	0.023	0.025	0.026	0.029	0.031	0.034	0.033	0.033	1.0	0.028	0.02	0.023
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS3	0.016	0.018	0.018	0.021	0.021	0.023	0.025	0.027	0.029	0.03	1.0	0.023	0.01	0.015
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS4	0.021	0.021	0.021	0.022	0.024	0.028	0.032	0.033	0.034	0.035	1.0	0.027	0.02	0.022
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS4	0.019	0.019	0.019	0.02	0.022	0.025	0.028	0.028	0.029	0.033	1.0	0.024	0.02	0.017
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	BS5	0.019	0.019	0.019	0.02	0.024	0.026	0.03	0.03	0.03	0.029	1.0	0.025	0.02	0.018
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS5	0.02	0.02	0.02	0.022	0.025	0.028	0.029	0.03	0.029	0.028	1.0	0.025	0.02	0.019

Notes:

MPE calculations are defined in section 15.0  
Blue fonts: Frequencies not regulated by FCC.



**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS1	0.016	0.017	0.017	0.017	0.017	0.017	0.018	0.02	0.023	0.024	1.0	0.019	0.01	0.010
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS1	0.016	0.017	0.017	0.017	0.018	0.019	0.021	0.023	0.026	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS2	0.018	0.019	0.02	0.021	0.024	0.025	0.027	0.029	0.03	0.032	1.0	0.025	0.02	0.018
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS2	0.018	0.018	0.019	0.02	0.021	0.022	0.024	0.025	0.027	0.029	1.0	0.022	0.01	0.015
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS3	0.017	0.018	0.02	0.022	0.022	0.024	0.025	0.028	0.029	0.028	1.0	0.023	0.02	0.016
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS3	0.024	0.024	0.025	0.026	0.026	0.028	0.03	0.034	0.034	0.032	1.0	0.028	0.02	0.024
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS4	0.018	0.018	0.018	0.02	0.022	0.026	0.028	0.029	0.029	0.033	1.0	0.024	0.02	0.017
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS4	0.026	0.026	0.026	0.026	0.026	0.031	0.034	0.035	0.035	0.037	1.0	0.030	0.03	0.027
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	BS5	0.02	0.02	0.02	0.023	0.026	0.028	0.03	0.031	0.028	0.027	1.0	0.025	0.02	0.019
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS5	0.022	0.022	0.022	0.023	0.027	0.028	0.029	0.029	0.028	0.027	1.0	0.026	0.02	0.019

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS1	0.016	0.016	0.016	0.018	0.018	0.02	0.02	0.025	0.027	0.026	1.0	0.020	0.01	0.012
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS1	0.017	0.017	0.017	0.017	0.018	0.019	0.02	0.022	0.023	0.023	1.0	0.019	0.01	0.011
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS1	0.017	0.019	0.019	0.02	0.02	0.021	0.021	0.023	0.026	0.026	1.0	0.021	0.01	0.013
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS2	0.017	0.018	0.018	0.019	0.02	0.02	0.022	0.025	0.027	0.028	1.0	0.021	0.01	0.013
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS2	0.018	0.02	0.02	0.021	0.023	0.023	0.024	0.026	0.027	0.028	1.0	0.023	0.01	0.015
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS2	0.02	0.02	0.02	0.021	0.025	0.025	0.027	0.03	0.03	0.03	1.0	0.025	0.02	0.017
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS3	0.022	0.023	0.024	0.025	0.025	0.027	0.029	0.031	0.031	0.031	1.0	0.027	0.02	0.021
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS3	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.026	0.026	0.026	1.0	0.024	0.02	0.016
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS3	0.026	0.027	0.027	0.03	0.03	0.033	0.034	0.035	0.035	0.033	1.0	0.031	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS4	0.025	0.025	0.025	0.026	0.027	0.031	0.033	0.035	0.036	0.039	1.0	0.030	0.03	0.027
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS4	0.025	0.026	0.026	0.026	0.026	0.03	0.031	0.032	0.032	0.031	1.0	0.029	0.02	0.023
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS4	0.028	0.028	0.028	0.028	0.03	0.034	0.036	0.036	0.036	0.037	1.0	0.032	0.03	0.029

Note:

MPE calculations are defined in section 15.0

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	BS5	0.021	0.021	0.021	0.023	0.026	0.027	0.029	0.029	0.029	0.028	1.0	0.025	0.02	0.019
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	BS5	0.023	0.023	0.023	0.025	0.028	0.03	0.031	0.031	0.031	0.03	1.0	0.028	0.02	0.021
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS5	0.022	0.022	0.022	0.025	0.029	0.03	0.032	0.032	0.032	0.031	1.0	0.028	0.02	0.022
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS1	0.017	0.017	0.017	0.017	0.017	0.018	0.019	0.021	0.023	0.023	1.0	0.019	0.01	0.010
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS1	0.016	0.016	0.016	0.018	0.018	0.02	0.021	0.023	0.026	0.02	1.0	0.019	0.01	0.010
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS1	0.016	0.016	0.016	0.017	0.019	0.021	0.022	0.024	0.025	0.026	1.0	0.020	0.01	0.011
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS2	0.016	0.016	0.018	0.019	0.022	0.023	0.025	0.026	0.034	0.03	1.0	0.023	0.01	0.015
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS2	0.016	0.017	0.018	0.017	0.02	0.022	0.024	0.026	0.029	0.027	1.0	0.022	0.01	0.013
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS2	0.017	0.018	0.018	0.019	0.021	0.023	0.024	0.026	0.028	0.026	1.0	0.022	0.01	0.013
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS3	0.022	0.022	0.024	0.025	0.026	0.028	0.029	0.031	0.029	0.028	1.0	0.026	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS3	0.026	0.028	0.029	0.03	0.03	0.032	0.033	0.036	0.036	0.034	1.0	0.031	0.03	0.027
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS3	0.025	0.028	0.028	0.029	0.03	0.032	0.034	0.034	0.035	0.035	1.0	0.031	0.03	0.026

Note:

MPE calculations are defined in section 15.0

**Table I.1 (Continued)**  
**DVR VHF - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS4	0.023	0.023	0.023	0.024	0.025	0.028	0.03	0.03	0.03	0.032	1.0	0.027	0.02	0.020
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS4	0.028	0.028	0.028	0.03	0.032	0.037	0.038	0.038	0.038	0.038	1.0	0.034	0.03	0.031
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS4	0.028	0.029	0.029	0.03	0.033	0.036	0.038	0.038	0.039	0.039	1.0	0.034	0.03	0.031
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	BS5	0.02	0.02	0.02	0.021	0.024	0.026	0.027	0.027	0.028	0.028	1.0	0.024	0.02	0.017
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	BS5	0.021	0.021	0.021	0.024	0.029	0.029	0.03	0.03	0.028	0.028	1.0	0.026	0.02	0.019
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	BS5	0.02	0.02	0.02	0.023	0.027	0.027	0.028	0.028	0.028	0.026	1.0	0.025	0.02	0.016

Note:  
MPE calculations are defined in section 15.0

**Table I.2**  
**DVR VHF - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	PB	0.28	0.164	0.114	1.0	0.186	0.19	0.196
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PB	0.181	0.166	0.132	1.0	0.160	0.16	0.168
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PB	0.141	0.153	0.123	1.0	0.139	0.14	0.146
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PB	0.131	0.098	0.064	1.0	0.098	0.10	0.103
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PB	0.106	0.09	0.083	1.0	0.093	0.09	0.098
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	PB	0.153	0.137	0.107	1.0	0.132	0.13	0.137
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PB	0.202	0.254	0.206	1.0	0.221	0.225	0.230
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PB	0.147	0.185	0.165	1.0	0.166	0.17	0.172
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	PB	0.11	0.194	0.169	1.0	0.158	0.16	0.161
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	PB	0.158	0.197	0.185	1.0	0.180	0.18	0.185

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table I.2 (Continued)**  
**DVR VHF - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	E	1.02	PF	0.011	0.015	0.015	1.0	0.014	0.01	0.014
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PF	0.015	0.015	0.022	1.0	0.017	0.02	0.018
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	E	1.02	PF	0.017	0.016	0.026	1.0	0.020	0.02	0.021
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PF	0.023	0.023	0.019	1.0	0.022	0.02	0.023
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	E	1.02	PF	0.023	0.023	0.024	1.0	0.023	0.02	0.025
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	E	1.02	PF	0.031	0.031	0.034	1.0	0.032	0.03	0.033
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PF	0.027	0.03	0.038	1.0	0.032	0.03	0.033
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	E	1.02	PF	0.018	0.022	0.027	1.0	0.022	0.02	0.023
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	E	1.01	PF	0.014	0.023	0.035	1.0	0.024	0.02	0.024
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	E	1.01	PF	0.012	0.022	0.045	1.0	0.026	0.03	0.027

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table I.2 (Continued)**  
**DVR VHF - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	PB	0.068	0.057	0.057	1.0	0.061	0.11	0.111
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PB	0.055	0.067	0.047	1.0	0.056	0.09	0.093
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PB	0.05	0.055	0.046	1.0	0.050	0.07	0.074
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PB	0.056	0.067	0.048	1.0	0.057	0.09	0.096
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PB	0.054	0.052	0.046	1.0	0.051	0.07	0.076
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	PB	0.065	0.088	0.06	1.0	0.071	0.14	0.142
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PB	0.068	0.081	0.086	1.0	0.078	0.17	0.175
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PB	0.059	0.067	0.068	1.0	0.065	0.12	0.119
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	PB	0.064	0.078	0.086	1.0	0.076	0.16	0.159
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	PB	0.05	0.064	0.062	1.0	0.059	0.09	0.093

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table I.2 (Continued)**  
**DVR VHF - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	6.00	5.82	CW	H	0.88	PF	0.03	0.028	0.022	1.0	0.027	0.02	0.021
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PF	0.031	0.03	0.025	1.0	0.029	0.02	0.024
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	6.00	5.83	CW	H	0.87	PF	0.031	0.031	0.025	1.0	0.029	0.02	0.025
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PF	0.032	0.033	0.029	1.0	0.031	0.03	0.029
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	6.00	5.81	CW	H	0.87	PF	0.033	0.033	0.026	1.0	0.031	0.03	0.028
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	6.00	5.92	CW	H	0.86	PF	0.039	0.037	0.031	1.0	0.036	0.04	0.036
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PF	0.038	0.036	0.031	1.0	0.035	0.03	0.035
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	6.00	5.88	CW	H	0.86	PF	0.032	0.033	0.029	1.0	0.031	0.03	0.028
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	167.7000	6.00	5.95	CW	H	0.85	PF	0.032	0.034	0.038	1.0	0.035	0.03	0.033
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.4000	6.00	5.91	CW	H	0.84	PF	0.023	0.03	0.031	1.0	0.028	0.02	0.021

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Appendix J – MPE Measurement Results for LMR VHF**

**Table J.1**

**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS1	0.146	0.158	0.187	0.178	0.154	0.148	0.161	0.140	0.144	0.163	0.5	0.155	0.077	0.087
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS1	0.171	0.258	0.285	0.252	0.196	0.195	0.213	0.229	0.220	0.191	0.5	0.217	0.108	0.110
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.196	0.245	0.230	0.183	0.142	0.139	0.143	0.133	0.118	0.103	0.5	0.160	0.080	0.082
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS1	0.211	0.255	0.239	0.185	0.152	0.155	0.164	0.162	0.143	0.125	0.5	0.176	0.088	0.091
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS1	0.167	0.196	0.168	0.117	0.092	0.099	0.113	0.118	0.127	0.143	0.5	0.130	0.065	0.066
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS1	0.089	0.100	0.081	0.054	0.050	0.062	0.078	0.094	0.113	0.146	0.5	0.084	0.042	0.042
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS2	0.069	0.133	0.144	0.155	0.144	0.139	0.143	0.152	0.151	0.137	0.5	0.134	0.067	0.075
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS2	0.173	0.261	0.318	0.332	0.316	0.312	0.316	0.320	0.304	0.272	0.5	0.287	0.143	0.146
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.166	0.247	0.288	0.285	0.262	0.243	0.250	0.244	0.234	0.215	0.5	0.239	0.119	0.122
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS2	0.172	0.263	0.297	0.284	0.257	0.254	0.257	0.250	0.228	0.197	0.5	0.241	0.120	0.125
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS2	0.136	0.199	0.213	0.194	0.179	0.178	0.186	0.175	0.161	0.147	0.5	0.171	0.086	0.086
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS2	0.095	0.137	0.154	0.148	0.148	0.175	0.189	0.187	0.176	0.158	0.5	0.152	0.076	0.077

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS3	0.050	0.084	0.114	0.130	0.128	0.121	0.117	0.116	0.115	0.112	0.5	0.107	0.053	0.060	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS3	0.083	0.123	0.157	0.164	0.162	0.155	0.156	0.165	0.168	0.162	0.5	0.147	0.073	0.074	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.084	0.127	0.156	0.163	0.161	0.156	0.156	0.159	0.152	0.135	0.5	0.142	0.071	0.073	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS3	0.125	0.166	0.196	0.203	0.209	0.214	0.224	0.229	0.215	0.198	0.5	0.194	0.097	0.100	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS3	0.084	0.106	0.121	0.128	0.134	0.140	0.145	0.141	0.132	0.124	0.5	0.122	0.061	0.061	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS3	0.077	0.111	0.142	0.160	0.173	0.176	0.178	0.175	0.168	0.162	0.5	0.148	0.074	0.074	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS4	0.026	0.044	0.059	0.068	0.065	0.064	0.060	0.056	0.054	0.051	0.5	0.054	0.027	0.030	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS4	0.037	0.059	0.074	0.082	0.081	0.080	0.079	0.080	0.081	0.084	0.5	0.072	0.036	0.037	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.059	0.091	0.120	0.132	0.130	0.127	0.121	0.117	0.107	0.093	0.5	0.108	0.054	0.055	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS4	0.060	0.089	0.113	0.128	0.131	0.127	0.133	0.135	0.133	0.128	0.5	0.115	0.058	0.060	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS4	0.061	0.093	0.117	0.123	0.119	0.113	0.107	0.098	0.091	0.079	0.5	0.097	0.049	0.049	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS4	0.071	0.103	0.121	0.127	0.115	0.108	0.096	0.086	0.075	0.067	0.5	0.094	0.047	0.047	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS5	0.023	0.038	0.046	0.047	0.042	0.038	0.035	0.036	0.039	0.040	0.5	0.038	0.019	0.021	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS5	0.024	0.038	0.044	0.042	0.038	0.039	0.043	0.050	0.058	0.064	0.5	0.043	0.022	0.022	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS5	0.050	0.070	0.076	0.069	0.063	0.058	0.063	0.066	0.071	0.070	0.5	0.064	0.032	0.033	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS5	0.049	0.070	0.079	0.077	0.075	0.076	0.085	0.092	0.098	0.100	0.5	0.078	0.039	0.041	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS5	0.063	0.085	0.099	0.097	0.110	0.112	0.114	0.108	0.094	0.079	0.5	0.093	0.047	0.047	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS5	0.048	0.061	0.063	0.058	0.056	0.057	0.060	0.058	0.054	0.043	0.5	0.054	0.027	0.027	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS1	0.035	0.062	0.069	0.059	0.039	0.052	0.102	0.173	0.242	0.294	0.5	0.110	0.055	0.062	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	E	0.98	BS1	0.039	0.066	0.065	0.047	0.041	0.068	0.129	0.198	0.255	0.286	0.5	0.117	0.059	0.059	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS1	0.056	0.087	0.084	0.058	0.049	0.076	0.138	0.212	0.273	0.315	0.5	0.132	0.066	0.068	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS1	0.085	0.115	0.105	0.067	0.049	0.078	0.140	0.203	0.254	0.297	0.5	0.137	0.068	0.071	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS1	0.059	0.065	0.047	0.025	0.036	0.084	0.146	0.202	0.256	0.301	0.5	0.118	0.059	0.060	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS1	0.080	0.098	0.074	0.052	0.062	0.110	0.179	0.246	0.305	0.360	0.5	0.152	0.076	0.077	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS2	0.034	0.063	0.078	0.073	0.061	0.059	0.076	0.112	0.150	0.173	0.5	0.086	0.043	0.048	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	E	0.98	BS2	0.039	0.071	0.089	0.087	0.082	0.088	0.110	0.149	0.175	0.207	0.5	0.108	0.054	0.055	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS2	0.063	0.095	0.111	0.100	0.088	0.095	0.115	0.141	0.170	0.201	0.5	0.116	0.058	0.059	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS2	0.074	0.115	0.126	0.106	0.087	0.094	0.119	0.151	0.178	0.206	0.5	0.123	0.062	0.064	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS2	0.055	0.083	0.082	0.067	0.060	0.073	0.100	0.121	0.141	0.165	0.5	0.092	0.046	0.046	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS2	0.063	0.087	0.089	0.082	0.096	0.133	0.176	0.209	0.237	0.255	0.5	0.138	0.069	0.070	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS3	0.030	0.050	0.063	0.065	0.057	0.051	0.051	0.059	0.073	0.087	0.5	0.057	0.029	0.032	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	E	0.98	BS3	0.036	0.059	0.071	0.070	0.063	0.061	0.067	0.084	0.100	0.110	0.5	0.071	0.035	0.036	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS3	0.035	0.049	0.053	0.049	0.043	0.048	0.058	0.071	0.084	0.095	0.5	0.057	0.029	0.029	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS3	0.042	0.052	0.060	0.064	0.074	0.090	0.115	0.127	0.135	0.138	0.5	0.088	0.044	0.045	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS3	0.051	0.065	0.070	0.066	0.062	0.066	0.072	0.076	0.078	0.084	0.5	0.067	0.033	0.034	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS3	0.044	0.059	0.073	0.109	0.111	0.135	0.151	0.165	0.170	0.179	0.5	0.116	0.058	0.058	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS4	0.019	0.028	0.035	0.037	0.034	0.033	0.033	0.034	0.035	0.038	0.5	0.032	0.016	0.018	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	E	0.98	BS4	0.030	0.045	0.054	0.059	0.059	0.059	0.062	0.063	0.065	0.063	0.5	0.055	0.027	0.028	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS4	0.017	0.025	0.031	0.032	0.031	0.031	0.028	0.031	0.031	0.030	0.5	0.028	0.014	0.014	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS4	0.047	0.065	0.080	0.088	0.092	0.094	0.096	0.095	0.093	0.090	0.5	0.082	0.041	0.043	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS4	0.030	0.041	0.047	0.047	0.041	0.037	0.033	0.031	0.030	0.031	0.5	0.036	0.018	0.018	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS4	0.048	0.070	0.081	0.083	0.081	0.077	0.075	0.069	0.067	0.070	0.5	0.070	0.035	0.035	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS5	0.015	0.020	0.020	0.018	0.015	0.015	0.021	0.030	0.039	0.047	0.5	0.024	0.012	0.013	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	E	0.98	BS5	0.021	0.030	0.032	0.030	0.029	0.034	0.044	0.050	0.057	0.060	0.5	0.038	0.019	0.019	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS5	0.012	0.015	0.014	0.013	0.014	0.017	0.022	0.027	0.030	0.029	0.5	0.019	0.009	0.010	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS5	0.042	0.055	0.057	0.052	0.049	0.052	0.060	0.067	0.072	0.073	0.5	0.057	0.028	0.029	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS5	0.027	0.031	0.031	0.030	0.030	0.034	0.038	0.038	0.038	0.035	0.5	0.032	0.016	0.016	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS5	0.041	0.052	0.051	0.052	0.053	0.057	0.061	0.066	0.069	0.068	0.5	0.055	0.028	0.028	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS1	0.037	0.065	0.080	0.079	0.075	0.087	0.123	0.184	0.240	0.233	0.5	0.118	0.059	0.066
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	E	0.98	BS1	0.048	0.075	0.088	0.101	0.147	0.167	0.161	0.235	0.241	0.258	0.5	0.149	0.075	0.075
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS1	0.080	0.124	0.135	0.119	0.106	0.124	0.177	0.243	0.298	0.237	0.5	0.161	0.081	0.083
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS1	0.111	0.157	0.153	0.113	0.094	0.111	0.155	0.199	0.226	0.256	0.5	0.154	0.077	0.080
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS1	0.103	0.124	0.115	0.085	0.078	0.104	0.150	0.193	0.229	0.239	0.5	0.138	0.069	0.069
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS1	0.085	0.100	0.084	0.057	0.055	0.082	0.121	0.164	0.208	0.253	0.5	0.117	0.059	0.059
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS2	0.033	0.058	0.076	0.083	0.084	0.096	0.122	0.156	0.188	0.212	0.5	0.109	0.054	0.061
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	E	0.98	BS2	0.050	0.088	0.119	0.144	0.158	0.176	0.161	0.232	0.256	0.270	0.5	0.162	0.081	0.082
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS2	0.083	0.122	0.144	0.150	0.152	0.155	0.176	0.193	0.207	0.226	0.5	0.158	0.079	0.081
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS2	0.102	0.154	0.177	0.171	0.153	0.155	0.167	0.186	0.184	0.181	0.5	0.160	0.080	0.083
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS2	0.082	0.125	0.141	0.134	0.126	0.124	0.147	0.156	0.163	0.182	0.5	0.134	0.067	0.067
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS2	0.073	0.107	0.123	0.124	0.130	0.152	0.173	0.198	0.210	0.223	0.5	0.147	0.073	0.074

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS3	0.032	0.047	0.061	0.070	0.074	0.081	0.093	0.104	0.119	0.128	0.5	0.079	0.040	0.044	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	E	0.98	BS3	0.050	0.080	0.101	0.111	0.111	0.119	0.130	0.146	0.159	0.168	0.5	0.115	0.058	0.058	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS3	0.039	0.056	0.065	0.068	0.072	0.081	0.094	0.107	0.118	0.121	0.5	0.080	0.040	0.041	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS3	0.069	0.088	0.101	0.119	0.129	0.149	0.172	0.185	0.186	0.182	0.5	0.135	0.068	0.070	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS3	0.067	0.082	0.092	0.096	0.103	0.115	0.125	0.130	0.129	0.128	0.5	0.103	0.052	0.052	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS3	0.055	0.079	0.102	0.124	0.143	0.165	0.177	0.183	0.188	0.186	0.5	0.136	0.068	0.069	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS4	0.018	0.030	0.039	0.045	0.049	0.050	0.052	0.059	0.060	0.062	0.5	0.045	0.023	0.025	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	E	0.98	BS4	0.038	0.056	0.074	0.082	0.085	0.088	0.089	0.089	0.089	0.084	0.5	0.076	0.038	0.038	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS4	0.031	0.046	0.058	0.060	0.061	0.061	0.058	0.061	0.061	0.058	0.5	0.054	0.027	0.028	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS4	0.058	0.082	0.102	0.116	0.126	0.130	0.137	0.132	0.126	0.118	0.5	0.110	0.055	0.057	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS4	0.049	0.069	0.085	0.092	0.089	0.085	0.081	0.076	0.069	0.058	0.5	0.073	0.037	0.037	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS4	0.072	0.104	0.125	0.131	0.128	0.119	0.109	0.100	0.091	0.083	0.5	0.103	0.052	0.052	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	E	0.98	BS5	0.021	0.032	0.037	0.036	0.032	0.033	0.036	0.044	0.053	0.062	0.5	0.038	0.019	0.021	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	E	0.98	BS5	0.024	0.036	0.040	0.038	0.036	0.039	0.049	0.059	0.067	0.073	0.5	0.045	0.023	0.023	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	E	0.98	BS5	0.027	0.031	0.032	0.028	0.027	0.030	0.037	0.043	0.047	0.048	0.5	0.034	0.017	0.018	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	E	0.98	BS5	0.047	0.065	0.069	0.067	0.063	0.064	0.070	0.080	0.086	0.090	0.5	0.069	0.034	0.036	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	E	0.97	BS5	0.049	0.062	0.064	0.073	0.077	0.082	0.083	0.078	0.074	0.061	0.5	0.068	0.034	0.034	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	E	0.97	BS5	0.048	0.062	0.063	0.061	0.060	0.065	0.068	0.068	0.063	0.054	0.5	0.059	0.030	0.030	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS1	0.117	0.178	0.212	0.206	0.193	0.189	0.201	0.215	0.216	0.206	0.5	0.189	0.095	0.106	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS1	0.180	0.262	0.289	0.260	0.220	0.206	0.221	0.228	0.215	0.160	0.5	0.220	0.110	0.111	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.182	0.231	0.212	0.168	0.128	0.130	0.132	0.122	0.110	0.095	0.5	0.148	0.074	0.076	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS1	0.208	0.269	0.263	0.209	0.163	0.162	0.166	0.160	0.132	0.117	0.5	0.181	0.091	0.094	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS1	0.152	0.184	0.164	0.113	0.087	0.089	0.099	0.102	0.089	0.086	0.5	0.114	0.057	0.058	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS2	0.070	0.111	0.146	0.150	0.142	0.141	0.148	0.159	0.158	0.144	0.5	0.134	0.067	0.075
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS2	0.147	0.246	0.310	0.327	0.316	0.307	0.306	0.304	0.293	0.262	0.5	0.276	0.138	0.139
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.152	0.240	0.283	0.280	0.260	0.247	0.252	0.246	0.234	0.217	0.5	0.236	0.118	0.121
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS2	0.169	0.265	0.303	0.284	0.252	0.240	0.236	0.225	0.200	0.168	0.5	0.230	0.115	0.119
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS2	0.133	0.198	0.226	0.218	0.198	0.204	0.205	0.198	0.181	0.164	0.5	0.189	0.094	0.096
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS3	0.054	0.091	0.122	0.137	0.137	0.131	0.127	0.127	0.127	0.124	0.5	0.115	0.058	0.065
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS3	0.092	0.145	0.190	0.201	0.178	0.188	0.183	0.191	0.166	0.183	0.5	0.168	0.084	0.085
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.089	0.133	0.149	0.172	0.169	0.162	0.162	0.153	0.157	0.143	0.5	0.146	0.073	0.075
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS3	0.119	0.157	0.185	0.193	0.194	0.219	0.221	0.221	0.209	0.187	0.5	0.187	0.093	0.097
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS3	0.100	0.131	0.154	0.159	0.159	0.161	0.162	0.165	0.150	0.136	0.5	0.145	0.072	0.074

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS4	0.023	0.049	0.065	0.074	0.074	0.074	0.071	0.067	0.065	0.061	0.5	0.061	0.031	0.034
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS4	0.047	0.075	0.097	0.107	0.108	0.108	0.101	0.105	0.103	0.107	0.5	0.094	0.047	0.047
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.067	0.104	0.130	0.142	0.144	0.136	0.126	0.122	0.113	0.101	0.5	0.116	0.058	0.060
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS4	0.061	0.094	0.121	0.137	0.147	0.148	0.152	0.151	0.144	0.137	0.5	0.127	0.063	0.065
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS4	0.050	0.078	0.093	0.101	0.093	0.093	0.092	0.089	0.084	0.076	0.5	0.083	0.042	0.042
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BSS	0.023	0.038	0.046	0.047	0.043	0.037	0.035	0.035	0.037	0.039	0.5	0.037	0.019	0.021
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BSS	0.030	0.051	0.061	0.058	0.050	0.046	0.049	0.053	0.061	0.067	0.5	0.052	0.026	0.026
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BSS	0.046	0.067	0.072	0.064	0.057	0.055	0.061	0.066	0.068	0.067	0.5	0.061	0.031	0.031
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BSS	0.054	0.078	0.087	0.087	0.080	0.078	0.088	0.099	0.104	0.111	0.5	0.085	0.042	0.044
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BSS	0.047	0.059	0.067	0.069	0.067	0.066	0.072	0.070	0.060	0.051	0.5	0.062	0.031	0.031

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS1	0.139	0.200	0.216	0.187	0.152	0.141	0.154	0.152	0.135	0.114	0.5	0.156	0.078	0.079
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.145	0.198	0.206	0.177	0.147	0.148	0.158	0.157	0.141	0.119	0.5	0.156	0.078	0.080
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS1	0.208	0.257	0.240	0.186	0.148	0.140	0.148	0.133	0.106	0.087	0.5	0.162	0.081	0.084
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS1	0.173	0.215	0.187	0.123	0.089	0.093	0.111	0.132	0.141	0.165	0.5	0.139	0.069	0.070
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS1	0.098	0.103	0.082	0.061	0.064	0.085	0.104	0.117	0.136	0.171	0.5	0.099	0.050	0.050
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS2	0.098	0.154	0.189	0.190	0.184	0.180	0.181	0.182	0.171	0.152	0.5	0.165	0.082	0.084
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.098	0.152	0.185	0.179	0.164	0.152	0.153	0.155	0.145	0.131	0.5	0.148	0.074	0.076
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS2	0.154	0.236	0.269	0.258	0.234	0.236	0.242	0.233	0.211	0.184	0.5	0.221	0.111	0.114
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS2	0.164	0.236	0.254	0.234	0.218	0.223	0.226	0.221	0.206	0.189	0.5	0.211	0.105	0.106
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS2	0.133	0.184	0.194	0.168	0.177	0.193	0.211	0.208	0.158	0.166	0.5	0.174	0.087	0.088

Notes:

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 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS3	0.057	0.083	0.103	0.106	0.102	0.099	0.096	0.104	0.105	0.105	0.5	0.094	0.047	0.048
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.064	0.097	0.118	0.125	0.125	0.123	0.122	0.121	0.115	0.101	0.5	0.109	0.054	0.056
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS3	0.125	0.166	0.198	0.205	0.207	0.218	0.229	0.237	0.222	0.193	0.5	0.196	0.098	0.101
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS3	0.093	0.122	0.145	0.150	0.153	0.156	0.168	0.155	0.142	0.129	0.5	0.137	0.069	0.069
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS3	0.100	0.146	0.188	0.209	0.220	0.227	0.221	0.215	0.199	0.186	0.5	0.185	0.093	0.093
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS4	0.025	0.044	0.050	0.054	0.054	0.052	0.051	0.052	0.054	0.052	0.5	0.048	0.024	0.024
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.044	0.066	0.084	0.090	0.093	0.088	0.083	0.078	0.070	0.063	0.5	0.074	0.037	0.038
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS4	0.064	0.097	0.126	0.139	0.144	0.143	0.143	0.141	0.138	0.124	0.5	0.123	0.062	0.064
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS4	0.075	0.111	0.140	0.150	0.148	0.134	0.139	0.129	0.118	0.100	0.5	0.121	0.060	0.061
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS4	0.090	0.133	0.160	0.167	0.160	0.143	0.128	0.114	0.100	0.090	0.5	0.125	0.062	0.063

Notes:

MPE calculations are defined in section 15.0  
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**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	E	0.98	BS5	0.016	0.025	0.030	0.029	0.027	0.026	0.029	0.033	0.037	0.039	0.5	0.029	0.014	0.015	
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS5	0.034	0.050	0.052	0.049	0.039	0.037	0.038	0.041	0.042	0.041	0.5	0.041	0.021	0.021	
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS5	0.043	0.058	0.065	0.066	0.064	0.063	0.066	0.072	0.077	0.081	0.5	0.064	0.032	0.033	
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS5	0.066	0.085	0.096	0.095	0.099	0.103	0.105	0.100	0.088	0.078	0.5	0.089	0.044	0.045	
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS5	0.053	0.070	0.072	0.063	0.058	0.057	0.061	0.056	0.051	0.047	0.5	0.057	0.029	0.029	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS1	0.123	0.176	0.204	0.198	0.180	0.173	0.185	0.199	0.201	0.183	0.5	0.179	0.089	0.100	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS1	0.159	0.230	0.239	0.208	0.169	0.164	0.177	0.184	0.172	0.144	0.5	0.181	0.090	0.091	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.198	0.272	0.279	0.245	0.208	0.205	0.220	0.221	0.207	0.180	0.5	0.219	0.110	0.112	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS1	0.181	0.227	0.214	0.168	0.132	0.140	0.135	0.123	0.103	0.084	0.5	0.148	0.074	0.076	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS1	0.135	0.172	0.148	0.103	0.081	0.077	0.091	0.102	0.111	0.131	0.5	0.112	0.056	0.056	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS1	0.073	0.080	0.064	0.047	0.050	0.065	0.080	0.092	0.107	0.134	0.5	0.077	0.038	0.039	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS2	0.063	0.102	0.127	0.132	0.128	0.127	0.132	0.138	0.136	0.127	0.5	0.119	0.059	0.067	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS2	0.131	0.218	0.273	0.282	0.260	0.253	0.254	0.250	0.236	0.211	0.5	0.232	0.116	0.117	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.156	0.230	0.268	0.264	0.245	0.235	0.240	0.236	0.224	0.202	0.5	0.225	0.113	0.116	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS2	0.135	0.207	0.239	0.227	0.207	0.208	0.209	0.204	0.187	0.163	0.5	0.195	0.097	0.101	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS2	0.129	0.149	0.199	0.187	0.174	0.173	0.178	0.175	0.159	0.151	0.5	0.162	0.081	0.082	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS2	0.097	0.137	0.143	0.132	0.131	0.144	0.156	0.157	0.145	0.126	0.5	0.133	0.066	0.067	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS3	0.052	0.083	0.118	0.133	0.132	0.124	0.118	0.116	0.114	0.112	0.5	0.108	0.054	0.061	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS3	0.089	0.137	0.166	0.180	0.174	0.169	0.167	0.172	0.172	0.171	0.5	0.157	0.078	0.079	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.083	0.124	0.155	0.164	0.162	0.157	0.157	0.160	0.150	0.133	0.5	0.142	0.071	0.073	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS3	0.107	0.141	0.165	0.172	0.179	0.182	0.191	0.194	0.188	0.166	0.5	0.165	0.083	0.085	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS3	0.073	0.096	0.111	0.116	0.119	0.123	0.125	0.121	0.114	0.104	0.5	0.107	0.053	0.054	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS3	0.070	0.102	0.129	0.145	0.157	0.158	0.155	0.151	0.144	0.131	0.5	0.130	0.065	0.066	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS4	0.023	0.048	0.063	0.073	0.073	0.072	0.067	0.065	0.062	0.060	0.5	0.059	0.030	0.033
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS4	0.041	0.067	0.089	0.094	0.100	0.094	0.093	0.091	0.092	0.087	0.5	0.083	0.042	0.042
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.062	0.095	0.122	0.134	0.132	0.126	0.117	0.106	0.099	0.092	0.5	0.106	0.053	0.055
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BS4	0.056	0.086	0.110	0.123	0.126	0.127	0.127	0.128	0.122	0.116	0.5	0.110	0.055	0.057
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS4	0.064	0.100	0.127	0.127	0.125	0.115	0.116	0.109	0.092	0.082	0.5	0.103	0.051	0.052
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS4	0.067	0.098	0.117	0.122	0.116	0.108	0.097	0.085	0.075	0.067	0.5	0.092	0.046	0.047
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BSS	0.019	0.033	0.040	0.041	0.037	0.036	0.035	0.036	0.036	0.037	0.5	0.034	0.017	0.019
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BSS	0.029	0.046	0.054	0.054	0.049	0.048	0.050	0.054	0.061	0.065	0.5	0.050	0.025	0.025
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BSS	0.049	0.068	0.074	0.069	0.059	0.054	0.055	0.060	0.061	0.060	0.5	0.060	0.030	0.031
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	E	0.98	BSS	0.040	0.056	0.064	0.060	0.061	0.060	0.064	0.068	0.073	0.074	0.5	0.061	0.030	0.031
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BSS	0.053	0.071	0.078	0.079	0.080	0.083	0.084	0.078	0.072	0.062	0.5	0.072	0.036	0.036
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BSS	0.039	0.054	0.053	0.047	0.044	0.042	0.044	0.043	0.040	0.034	0.5	0.043	0.021	0.022

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS1	0.175	0.250	0.296	0.285	0.259	0.247	0.261	0.277	0.278	0.258	0.5	0.253	0.127	0.142	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	E	0.98	BS1	0.189	0.286	0.289	0.271	0.223	0.206	0.217	0.239	0.239	0.209	0.5	0.232	0.116	0.119	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS1	0.176	0.268	0.270	0.236	0.193	0.183	0.204	0.213	0.200	0.164	0.5	0.206	0.103	0.104	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS2	0.095	0.160	0.201	0.212	0.202	0.204	0.210	0.220	0.218	0.200	0.5	0.188	0.094	0.106	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	E	0.98	BS2	0.115	0.201	0.258	0.271	0.261	0.247	0.245	0.237	0.223	0.197	0.5	0.221	0.110	0.113	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS2	0.152	0.248	0.311	0.322	0.310	0.298	0.294	0.291	0.273	0.244	0.5	0.269	0.134	0.136	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS3	0.073	0.123	0.168	0.189	0.170	0.174	0.164	0.166	0.165	0.161	0.5	0.152	0.076	0.085	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	E	0.98	BS3	0.093	0.160	0.209	0.230	0.221	0.208	0.200	0.192	0.183	0.166	0.5	0.182	0.091	0.094	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS3	0.101	0.154	0.197	0.208	0.200	0.188	0.179	0.194	0.164	0.193	0.5	0.174	0.087	0.088	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS4	0.036	0.061	0.081	0.091	0.092	0.089	0.080	0.074	0.071	0.067	0.5	0.073	0.036	0.041	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	E	0.98	BS4	0.053	0.083	0.106	0.117	0.122	0.121	0.119	0.118	0.122	0.120	0.5	0.106	0.053	0.054	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS4	0.044	0.074	0.096	0.107	0.106	0.102	0.096	0.096	0.094	0.093	0.5	0.089	0.044	0.045	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	E	0.98	BS5	0.026	0.044	0.055	0.057	0.052	0.048	0.050	0.048	0.050	0.053	0.5	0.047	0.024	0.027
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	E	0.98	BS5	0.044	0.072	0.086	0.084	0.076	0.073	0.074	0.077	0.082	0.085	0.5	0.074	0.037	0.038
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS5	0.032	0.053	0.065	0.063	0.057	0.054	0.057	0.064	0.072	0.075	0.5	0.058	0.029	0.029
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS1	0.171	0.244	0.266	0.234	0.192	0.182	0.197	0.207	0.192	0.156	0.5	0.200	0.100	0.101
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.199	0.280	0.298	0.257	0.218	0.216	0.233	0.236	0.221	0.198	0.5	0.231	0.115	0.118
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS2	0.148	0.237	0.300	0.314	0.298	0.287	0.286	0.280	0.263	0.240	0.5	0.260	0.130	0.131
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.155	0.234	0.280	0.276	0.259	0.254	0.252	0.247	0.237	0.218	0.5	0.236	0.118	0.121
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS3	0.105	0.154	0.167	0.203	0.187	0.194	0.195	0.196	0.197	0.169	0.5	0.173	0.087	0.087
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.099	0.149	0.181	0.192	0.190	0.185	0.179	0.186	0.176	0.157	0.5	0.166	0.083	0.085
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS4	0.043	0.069	0.099	0.100	0.099	0.096	0.092	0.091	0.091	0.091	0.5	0.085	0.043	0.043
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.068	0.106	0.138	0.153	0.156	0.148	0.140	0.135	0.125	0.114	0.5	0.126	0.063	0.064

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

Table J.1 (Continued)

VHF band - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	E	0.98	BS5	0.031	0.051	0.061	0.061	0.054	0.053	0.057	0.063	0.069	0.075	0.5	0.056	0.028	0.028
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS5	0.054	0.077	0.087	0.073	0.065	0.062	0.061	0.065	0.068	0.067	0.5	0.067	0.033	0.034
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS1	0.156	0.216	0.226	0.196	0.163	0.164	0.176	0.179	0.166	0.149	0.5	0.176	0.088	0.090
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS1	0.192	0.250	0.243	0.193	0.154	0.156	0.162	0.148	0.124	0.105	0.5	0.169	0.085	0.088
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS1	0.177	0.214	0.195	0.144	0.117	0.123	0.131	0.132	0.118	0.110	0.5	0.143	0.072	0.073
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS2	0.120	0.188	0.220	0.218	0.197	0.187	0.188	0.183	0.175	0.153	0.5	0.179	0.090	0.092
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS2	0.172	0.267	0.309	0.296	0.262	0.253	0.252	0.236	0.208	0.172	0.5	0.238	0.119	0.123
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS2	0.187	0.278	0.305	0.279	0.258	0.260	0.269	0.268	0.252	0.228	0.5	0.253	0.127	0.129
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS3	0.074	0.111	0.139	0.146	0.140	0.137	0.136	0.134	0.127	0.115	0.5	0.123	0.062	0.063
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS3	0.130	0.177	0.206	0.219	0.217	0.231	0.240	0.242	0.191	0.210	0.5	0.202	0.101	0.105
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS3	0.121	0.170	0.196	0.206	0.204	0.201	0.202	0.196	0.183	0.168	0.5	0.181	0.091	0.092

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS4	0.053	0.082	0.106	0.118	0.119	0.114	0.106	0.100	0.092	0.083	0.5	0.095	0.048	0.049
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS4	0.067	0.100	0.128	0.144	0.148	0.148	0.149	0.145	0.142	0.132	0.5	0.128	0.064	0.066
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS4	0.071	0.110	0.136	0.141	0.136	0.133	0.130	0.119	0.111	0.105	0.5	0.117	0.058	0.059
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	E	0.98	BS5	0.040	0.061	0.066	0.056	0.049	0.047	0.049	0.051	0.052	0.051	0.5	0.051	0.026	0.026
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	E	0.98	BS5	0.058	0.082	0.096	0.090	0.085	0.084	0.092	0.100	0.106	0.111	0.5	0.089	0.044	0.046
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS5	0.071	0.091	0.103	0.104	0.106	0.109	0.108	0.104	0.092	0.079	0.5	0.095	0.047	0.048
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS1	0.156	0.197	0.177	0.124	0.102	0.108	0.119	0.116	0.106	0.099	0.5	0.128	0.064	0.065
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS1	0.163	0.206	0.187	0.132	0.098	0.104	0.121	0.132	0.146	0.166	0.5	0.141	0.071	0.071
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS1	0.097	0.105	0.085	0.064	0.065	0.072	0.085	0.094	0.110	0.148	0.5	0.090	0.045	0.045
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS2	0.163	0.234	0.258	0.239	0.228	0.235	0.242	0.241	0.222	0.187	0.5	0.220	0.110	0.112
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS2	0.172	0.244	0.260	0.241	0.226	0.230	0.236	0.230	0.212	0.192	0.5	0.218	0.109	0.110
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS2	0.149	0.169	0.222	0.209	0.207	0.216	0.236	0.226	0.203	0.181	0.5	0.196	0.098	0.099

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS3	0.107	0.148	0.174	0.183	0.178	0.179	0.179	0.176	0.164	0.150	0.5	0.161	0.080	0.082
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS3	0.089	0.117	0.138	0.144	0.145	0.148	0.153	0.147	0.135	0.125	0.5	0.130	0.065	0.066
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS3	0.099	0.143	0.190	0.208	0.211	0.219	0.218	0.210	0.196	0.185	0.5	0.182	0.091	0.092
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS4	0.064	0.095	0.119	0.123	0.123	0.117	0.111	0.105	0.095	0.086	0.5	0.102	0.051	0.052
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS4	0.081	0.120	0.151	0.163	0.153	0.146	0.135	0.124	0.113	0.097	0.5	0.124	0.062	0.063
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS4	0.098	0.141	0.171	0.172	0.160	0.145	0.129	0.113	0.100	0.089	0.5	0.128	0.064	0.064
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	E	0.98	BS5	0.061	0.081	0.091	0.092	0.091	0.094	0.096	0.090	0.080	0.069	0.5	0.083	0.041	0.042
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	E	0.97	BS5	0.069	0.096	0.108	0.111	0.117	0.120	0.120	0.116	0.104	0.084	0.5	0.101	0.051	0.051
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	E	0.97	BS5	0.058	0.072	0.074	0.064	0.058	0.056	0.058	0.055	0.051	0.046	0.5	0.057	0.029	0.029

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS1	0.087	0.082	0.077	0.080	0.087	0.098	0.106	0.107	0.103	0.093	0.5	0.228	0.114	0.128
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS1	0.109	0.104	0.097	0.095	0.106	0.115	0.119	0.115	0.104	0.091	0.5	0.291	0.146	0.148
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.110	0.104	0.095	0.098	0.110	0.119	0.121	0.116	0.106	0.096	0.5	0.295	0.147	0.151
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS1	0.112	0.103	0.091	0.093	0.104	0.107	0.105	0.093	0.085	0.075	0.5	0.229	0.114	0.118
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS1	0.100	0.092	0.083	0.084	0.092	0.093	0.089	0.082	0.083	0.087	0.5	0.185	0.092	0.093
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS1	0.075	0.064	0.060	0.069	0.078	0.082	0.083	0.084	0.089	0.095	0.5	0.138	0.069	0.070
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS2	0.075	0.073	0.072	0.074	0.082	0.091	0.098	0.096	0.095	0.088	0.5	0.192	0.096	0.108
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS2	0.097	0.094	0.088	0.091	0.100	0.112	0.120	0.114	0.113	0.108	0.5	0.282	0.141	0.143
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.095	0.092	0.085	0.091	0.103	0.114	0.119	0.115	0.110	0.102	0.5	0.270	0.135	0.138
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS2	0.104	0.099	0.095	0.101	0.114	0.124	0.130	0.124	0.118	0.105	0.5	0.303	0.151	0.157
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS2	0.094	0.087	0.081	0.091	0.102	0.109	0.108	0.101	0.097	0.087	0.5	0.217	0.109	0.110
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS2	0.087	0.088	0.091	0.101	0.113	0.118	0.119	0.108	0.106	0.099	0.5	0.240	0.120	0.121

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS3	0.066	0.070	0.071	0.072	0.074	0.076	0.079	0.080	0.082	0.078	0.5	0.149	0.075	0.084
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS3	0.080	0.084	0.085	0.087	0.090	0.094	0.095	0.097	0.096	0.092	0.5	0.211	0.106	0.107
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.081	0.082	0.084	0.086	0.088	0.093	0.097	0.095	0.090	0.083	0.5	0.197	0.098	0.101
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS3	0.087	0.088	0.087	0.093	0.100	0.106	0.110	0.108	0.104	0.097	0.5	0.233	0.117	0.121
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS3	0.078	0.081	0.082	0.083	0.087	0.092	0.093	0.088	0.084	0.078	0.5	0.169	0.084	0.085
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS3	0.081	0.086	0.086	0.088	0.090	0.093	0.095	0.093	0.088	0.085	0.5	0.175	0.088	0.088
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS4	0.054	0.056	0.046	0.053	0.058	0.059	0.063	0.064	0.062	0.060	0.5	0.089	0.044	0.050
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS4	0.070	0.072	0.068	0.070	0.069	0.074	0.075	0.077	0.075	0.076	0.5	0.137	0.069	0.070
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.075	0.074	0.073	0.075	0.079	0.084	0.083	0.082	0.080	0.075	0.5	0.155	0.077	0.079
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS4	0.071	0.075	0.071	0.074	0.081	0.084	0.088	0.087	0.084	0.085	0.5	0.155	0.078	0.080
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS4	0.083	0.082	0.083	0.087	0.089	0.091	0.092	0.090	0.085	0.079	0.5	0.175	0.087	0.088
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS4	0.090	0.090	0.089	0.090	0.092	0.093	0.095	0.090	0.082	0.080	0.5	0.178	0.089	0.090

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS5	0.042	0.047	0.043	0.045	0.052	0.062	0.060	0.050	0.053	0.049	0.5	0.068	0.034	0.038		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS5	0.050	0.049	0.052	0.053	0.064	0.067	0.066	0.063	0.062	0.061	0.5	0.091	0.045	0.046		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.060	0.057	0.058	0.063	0.061	0.081	0.079	0.081	0.075	0.074	0.5	0.123	0.061	0.063		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS5	0.060	0.061	0.062	0.069	0.078	0.072	0.081	0.084	0.081	0.082	0.5	0.131	0.065	0.068		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS5	0.066	0.067	0.062	0.068	0.079	0.086	0.085	0.082	0.075	0.076	0.5	0.132	0.066	0.067		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS5	0.056	0.058	0.059	0.060	0.070	0.077	0.071	0.072	0.061	0.052	0.5	0.092	0.046	0.046		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS1	0.061	0.054	0.045	0.051	0.034	0.057	0.054	0.051	0.063	0.074	0.5	0.081	0.041	0.046		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	H	0.83	BS1	0.057	0.054	0.047	0.040	0.054	0.047	0.063	0.068	0.080	0.095	0.5	0.102	0.051	0.052		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS1	0.062	0.050	0.044	0.055	0.061	0.067	0.070	0.072	0.084	0.100	0.5	0.118	0.059	0.061		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS1	0.077	0.071	0.050	0.069	0.072	0.074	0.073	0.077	0.091	0.108	0.5	0.145	0.072	0.075		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS1	0.063	0.057	0.051	0.056	0.061	0.064	0.067	0.076	0.093	0.109	0.5	0.121	0.061	0.061		
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS1	0.076	0.064	0.056	0.066	0.075	0.083	0.090	0.102	0.119	0.137	0.5	0.182	0.091	0.092		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS2	0.044	0.046	0.039	0.045	0.055	0.056	0.060	0.058	0.067	0.071	0.5	0.080	0.040	0.045
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	H	0.83	BS2	0.056	0.054	0.050	0.051	0.060	0.062	0.065	0.064	0.068	0.075	0.5	0.097	0.048	0.049
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS2	0.059	0.055	0.045	0.040	0.041	0.068	0.068	0.069	0.074	0.081	0.5	0.096	0.048	0.049
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS2	0.069	0.065	0.060	0.065	0.074	0.080	0.083	0.079	0.088	0.091	0.5	0.140	0.070	0.072
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS2	0.064	0.062	0.056	0.061	0.067	0.071	0.069	0.066	0.075	0.083	0.5	0.108	0.054	0.055
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS2	0.065	0.066	0.067	0.078	0.090	0.096	0.097	0.094	0.105	0.109	0.5	0.174	0.087	0.088
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS3	0.049	0.052	0.041	0.046	0.051	0.052	0.055	0.056	0.057	0.058	0.5	0.072	0.036	0.040
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	H	0.83	BS3	0.054	0.055	0.053	0.055	0.058	0.061	0.062	0.063	0.062	0.063	0.5	0.090	0.045	0.046
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS3	0.055	0.056	0.053	0.054	0.057	0.060	0.063	0.060	0.059	0.060	0.5	0.085	0.042	0.043
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS3	0.056	0.057	0.054	0.055	0.063	0.067	0.070	0.068	0.069	0.070	0.5	0.096	0.048	0.050
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS3	0.062	0.061	0.056	0.057	0.061	0.062	0.061	0.057	0.059	0.058	0.5	0.083	0.042	0.042
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS3	0.066	0.068	0.069	0.072	0.077	0.078	0.080	0.081	0.078	0.079	0.5	0.126	0.063	0.063

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS4	0.053	0.049	0.046	0.046	0.052	0.054	0.058	0.050	0.051	0.052	0.5	0.070	0.035	0.039
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	H	0.83	BS4	0.062	0.059	0.058	0.059	0.063	0.066	0.072	0.069	0.066	0.063	0.5	0.106	0.053	0.054
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS4	0.055	0.051	0.047	0.048	0.053	0.059	0.060	0.056	0.052	0.050	0.5	0.072	0.036	0.037
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS4	0.062	0.055	0.056	0.059	0.065	0.072	0.076	0.073	0.069	0.066	0.5	0.104	0.052	0.054
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS4	0.061	0.058	0.050	0.058	0.066	0.069	0.071	0.067	0.061	0.060	0.5	0.092	0.046	0.046
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS4	0.077	0.079	0.076	0.077	0.082	0.084	0.083	0.079	0.075	0.070	0.5	0.137	0.069	0.069
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS5	0.042	0.047	0.043	0.044	0.058	0.057	0.051	0.049	0.048	0.050	0.5	0.064	0.032	0.036
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	118	CW	H	0.83	BS5	0.042	0.054	0.045	0.048	0.060	0.063	0.065	0.064	0.061	0.063	0.5	0.085	0.042	0.043
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS5	0.043	0.046	0.045	0.047	0.051	0.057	0.058	0.057	0.050	0.057	0.5	0.067	0.033	0.034
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS5	0.059	0.061	0.054	0.055	0.072	0.080	0.067	0.074	0.068	0.067	0.5	0.106	0.053	0.055
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS5	0.054	0.055	0.040	0.050	0.064	0.065	0.061	0.054	0.046	0.052	0.5	0.070	0.035	0.035
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS5	0.050	0.052	0.048	0.055	0.066	0.070	0.066	0.062	0.058	0.053	0.5	0.076	0.038	0.039

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS1	0.055	0.047	0.048	0.052	0.061	0.068	0.076	0.078	0.086	0.090	0.5	0.122	0.061	0.069
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	H	0.83	BS1	0.065	0.057	0.059	0.068	0.078	0.085	0.089	0.091	0.096	0.097	0.5	0.165	0.083	0.083
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS1	0.070	0.065	0.062	0.068	0.080	0.088	0.093	0.095	0.101	0.118	0.5	0.186	0.093	0.096
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS1	0.087	0.081	0.076	0.078	0.087	0.090	0.088	0.085	0.092	0.108	0.5	0.185	0.093	0.096
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS1	0.085	0.077	0.074	0.076	0.083	0.087	0.088	0.089	0.099	0.112	0.5	0.181	0.090	0.091
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS1	0.076	0.065	0.058	0.068	0.078	0.084	0.088	0.093	0.106	0.119	0.5	0.163	0.081	0.082
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS2	0.048	0.047	0.048	0.054	0.066	0.073	0.082	0.083	0.089	0.090	0.5	0.130	0.065	0.073
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	H	0.83	BS2	0.060	0.059	0.060	0.070	0.077	0.082	0.090	0.089	0.099	0.100	0.5	0.166	0.083	0.084
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS2	0.064	0.062	0.057	0.065	0.076	0.085	0.091	0.090	0.093	0.096	0.5	0.159	0.079	0.081
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS2	0.081	0.077	0.072	0.079	0.090	0.101	0.108	0.103	0.102	0.101	0.5	0.205	0.103	0.106
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS2	0.076	0.073	0.069	0.077	0.085	0.093	0.096	0.091	0.096	0.094	0.5	0.172	0.086	0.087
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS2	0.075	0.076	0.080	0.092	0.105	0.111	0.112	0.105	0.110	0.108	0.5	0.217	0.108	0.109

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS3	0.047	0.049	0.050	0.051	0.055	0.061	0.067	0.072	0.073	0.074	0.5	0.098	0.049	0.055
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	H	0.83	BS3	0.059	0.063	0.064	0.066	0.072	0.075	0.080	0.081	0.082	0.081	0.5	0.138	0.069	0.069
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS3	0.064	0.061	0.060	0.061	0.067	0.073	0.077	0.075	0.076	0.075	0.5	0.121	0.061	0.062
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS3	0.066	0.067	0.068	0.071	0.080	0.086	0.091	0.090	0.087	0.085	0.5	0.153	0.077	0.079
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS3	0.070	0.071	0.072	0.073	0.078	0.081	0.083	0.080	0.078	0.075	0.5	0.137	0.068	0.069
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS3	0.071	0.077	0.078	0.080	0.084	0.087	0.088	0.086	0.085	0.084	0.5	0.151	0.075	0.076
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS4	0.054	0.052	0.046	0.053	0.054	0.056	0.062	0.059	0.060	0.059	0.5	0.082	0.041	0.046
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	H	0.83	BS4	0.063	0.064	0.065	0.066	0.070	0.072	0.080	0.079	0.078	0.077	0.5	0.133	0.067	0.067
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS4	0.062	0.055	0.056	0.057	0.059	0.064	0.067	0.065	0.064	0.060	0.5	0.094	0.047	0.048
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS4	0.064	0.060	0.061	0.065	0.071	0.074	0.082	0.081	0.079	0.077	0.5	0.125	0.062	0.064
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS4	0.075	0.069	0.074	0.071	0.078	0.082	0.087	0.085	0.080	0.077	0.5	0.143	0.072	0.072
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS4	0.082	0.087	0.083	0.089	0.087	0.086	0.089	0.084	0.079	0.076	0.5	0.159	0.079	0.080

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	107	CW	H	0.84	BS5	0.047	0.046	0.038	0.046	0.053	0.062	0.063	0.065	0.057	0.053	0.5	0.077	0.038	0.043
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	119	CW	H	0.83	BS5	0.049	0.051	0.049	0.053	0.057	0.069	0.074	0.069	0.070	0.067	0.5	0.098	0.049	0.050
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	117	CW	H	0.82	BS5	0.052	0.054	0.046	0.054	0.063	0.069	0.070	0.067	0.063	0.066	0.5	0.094	0.047	0.048
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	116	CW	H	0.80	BS5	0.056	0.062	0.051	0.063	0.069	0.077	0.079	0.076	0.073	0.072	0.5	0.113	0.056	0.058
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	119	CW	H	0.79	BS5	0.060	0.058	0.056	0.065	0.076	0.082	0.078	0.077	0.068	0.067	0.5	0.113	0.056	0.057
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	119	CW	H	0.77	BS5	0.059	0.058	0.050	0.061	0.073	0.077	0.075	0.070	0.065	0.066	0.5	0.097	0.049	0.049
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS1	0.090	0.085	0.081	0.084	0.091	0.100	0.105	0.103	0.100	0.091	0.5	0.232	0.116	0.130
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS1	0.103	0.095	0.090	0.093	0.105	0.116	0.122	0.118	0.109	0.096	0.5	0.288	0.144	0.145
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.113	0.106	0.099	0.101	0.113	0.122	0.124	0.117	0.108	0.097	0.5	0.309	0.154	0.158
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS1	0.116	0.106	0.096	0.098	0.106	0.110	0.106	0.094	0.084	0.078	0.5	0.247	0.124	0.128
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS1	0.097	0.087	0.080	0.084	0.094	0.097	0.092	0.083	0.081	0.079	0.5	0.185	0.093	0.094

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS2	0.078	0.079	0.075	0.078	0.088	0.096	0.103	0.099	0.096	0.090	0.5	0.209	0.105	0.117		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS2	0.092	0.091	0.089	0.092	0.099	0.107	0.113	0.111	0.110	0.104	0.5	0.266	0.133	0.134		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.096	0.092	0.090	0.096	0.106	0.117	0.122	0.116	0.115	0.103	0.5	0.284	0.142	0.146		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS2	0.104	0.098	0.092	0.098	0.108	0.119	0.122	0.115	0.109	0.098	0.5	0.282	0.141	0.146		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS2	0.092	0.088	0.085	0.091	0.101	0.108	0.109	0.102	0.098	0.091	0.5	0.226	0.113	0.115		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS3	0.068	0.072	0.073	0.074	0.075	0.078	0.079	0.081	0.084	0.082	0.5	0.157	0.078	0.088		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS3	0.084	0.088	0.090	0.091	0.093	0.096	0.099	0.100	0.101	0.095	0.5	0.229	0.114	0.115		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.081	0.085	0.086	0.087	0.091	0.095	0.098	0.095	0.092	0.087	0.5	0.205	0.102	0.105		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS3	0.086	0.089	0.090	0.092	0.098	0.103	0.106	0.104	0.101	0.093	0.5	0.230	0.115	0.119		
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS3	0.083	0.084	0.085	0.087	0.090	0.093	0.094	0.092	0.088	0.081	0.5	0.186	0.093	0.095		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS4	0.061	0.057	0.058	0.062	0.066	0.072	0.070	0.064	0.061	0.058	0.5	0.106	0.053	0.059	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS4	0.074	0.071	0.072	0.076	0.077	0.078	0.080	0.082	0.083	0.084	0.5	0.157	0.079	0.079	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.072	0.074	0.072	0.073	0.078	0.080	0.085	0.083	0.078	0.075	0.5	0.151	0.075	0.077	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS4	0.072	0.077	0.071	0.073	0.080	0.081	0.087	0.088	0.087	0.085	0.5	0.160	0.080	0.083	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS4	0.071	0.070	0.069	0.070	0.072	0.074	0.082	0.079	0.075	0.072	0.5	0.130	0.065	0.066	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS5	0.047	0.043	0.040	0.044	0.050	0.053	0.058	0.057	0.055	0.054	0.5	0.068	0.034	0.038	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS5	0.052	0.049	0.044	0.045	0.056	0.065	0.063	0.064	0.065	0.066	0.5	0.086	0.043	0.043	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.058	0.063	0.056	0.059	0.069	0.078	0.077	0.081	0.073	0.070	0.5	0.120	0.060	0.062	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS5	0.065	0.068	0.063	0.068	0.077	0.084	0.084	0.087	0.085	0.084	0.5	0.147	0.073	0.076	
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS5	0.061	0.065	0.056	0.061	0.072	0.078	0.077	0.076	0.069	0.068	0.5	0.114	0.057	0.058	

Notes:

MPE calculations are defined in section 15.0  
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**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS1	0.088	0.082	0.077	0.081	0.088	0.096	0.099	0.093	0.086	0.072	0.5	0.195	0.097	0.099
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.093	0.087	0.080	0.084	0.093	0.104	0.103	0.097	0.089	0.079	0.5	0.211	0.106	0.108
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS1	0.112	0.101	0.090	0.092	0.101	0.105	0.104	0.092	0.082	0.075	0.5	0.222	0.111	0.115
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS1	0.107	0.098	0.087	0.088	0.096	0.101	0.096	0.091	0.089	0.091	0.5	0.211	0.105	0.106
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS1	0.079	0.069	0.065	0.074	0.087	0.088	0.086	0.081	0.085	0.091	0.5	0.146	0.073	0.074
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS2	0.081	0.079	0.076	0.078	0.085	0.094	0.097	0.092	0.093	0.083	0.5	0.193	0.096	0.098
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.082	0.080	0.075	0.082	0.089	0.096	0.099	0.093	0.089	0.083	0.5	0.192	0.096	0.099
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS2	0.100	0.097	0.091	0.097	0.109	0.119	0.122	0.115	0.109	0.097	0.5	0.272	0.136	0.140
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS2	0.098	0.091	0.085	0.094	0.107	0.115	0.113	0.106	0.100	0.090	0.5	0.237	0.118	0.119
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS2	0.090	0.091	0.093	0.103	0.113	0.118	0.116	0.106	0.099	0.095	0.5	0.237	0.118	0.119

Notes:

MPE calculations are defined in section 15.0  
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**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS3	0.067	0.069	0.070	0.071	0.073	0.076	0.080	0.081	0.079	0.077	0.5	0.144	0.072	0.073
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.072	0.073	0.074	0.075	0.078	0.079	0.082	0.079	0.077	0.072	0.5	0.147	0.074	0.075
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS3	0.085	0.089	0.090	0.094	0.097	0.104	0.107	0.106	0.101	0.093	0.5	0.226	0.113	0.117
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS3	0.083	0.086	0.087	0.088	0.092	0.094	0.096	0.093	0.086	0.079	0.5	0.184	0.092	0.093
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS3	0.085	0.089	0.091	0.093	0.095	0.097	0.099	0.093	0.091	0.087	0.5	0.190	0.095	0.096
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS4	0.056	0.061	0.062	0.061	0.066	0.061	0.071	0.067	0.065	0.063	0.5	0.104	0.052	0.053
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.063	0.067	0.064	0.068	0.069	0.075	0.074	0.071	0.068	0.064	0.5	0.119	0.059	0.061
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS4	0.077	0.072	0.075	0.074	0.080	0.083	0.089	0.087	0.082	0.081	0.5	0.155	0.077	0.080
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS4	0.083	0.085	0.088	0.089	0.092	0.094	0.098	0.091	0.088	0.084	0.5	0.188	0.094	0.095
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS4	0.092	0.095	0.096	0.095	0.097	0.098	0.092	0.089	0.083	0.079	0.5	0.188	0.094	0.095

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	118	CW	H	0.83	BS5	0.040	0.049	0.041	0.042	0.046	0.060	0.050	0.049	0.048	0.049	0.5	0.059	0.030	0.030
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.049	0.054	0.049	0.051	0.063	0.067	0.065	0.066	0.061	0.060	0.5	0.088	0.044	0.045
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS5	0.059	0.060	0.056	0.065	0.071	0.075	0.076	0.080	0.074	0.076	0.5	0.117	0.059	0.061
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS5	0.065	0.066	0.063	0.070	0.081	0.087	0.085	0.083	0.076	0.075	0.5	0.134	0.067	0.068
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS5	0.062	0.064	0.054	0.060	0.070	0.078	0.073	0.069	0.062	0.063	0.5	0.097	0.048	0.049
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS1	0.088	0.084	0.079	0.082	0.088	0.098	0.103	0.101	0.097	0.090	0.5	0.222	0.111	0.124
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS1	0.100	0.095	0.089	0.092	0.101	0.112	0.116	0.112	0.103	0.091	0.5	0.268	0.134	0.135
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.109	0.102	0.093	0.098	0.108	0.118	0.120	0.112	0.103	0.093	0.5	0.285	0.142	0.146
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS1	0.107	0.097	0.086	0.089	0.096	0.101	0.095	0.087	0.078	0.074	0.5	0.202	0.101	0.105
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS1	0.098	0.088	0.080	0.082	0.088	0.083	0.089	0.083	0.084	0.086	0.5	0.175	0.087	0.088
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS1	0.073	0.063	0.058	0.067	0.076	0.078	0.074	0.073	0.078	0.073	0.5	0.115	0.057	0.058

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS2	0.075	0.076	0.072	0.077	0.085	0.091	0.100	0.095	0.096	0.089	0.5	0.197	0.099	0.111	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS2	0.093	0.092	0.088	0.094	0.101	0.111	0.116	0.111	0.114	0.102	0.5	0.274	0.137	0.138	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.097	0.092	0.087	0.093	0.101	0.114	0.118	0.112	0.106	0.096	0.5	0.264	0.132	0.135	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS2	0.098	0.093	0.086	0.093	0.104	0.113	0.116	0.109	0.103	0.098	0.5	0.250	0.125	0.129	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS2	0.087	0.081	0.076	0.086	0.094	0.104	0.102	0.095	0.091	0.086	0.5	0.193	0.097	0.097	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS2	0.078	0.079	0.089	0.091	0.100	0.104	0.101	0.093	0.089	0.086	0.5	0.187	0.093	0.094	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS3	0.065	0.069	0.070	0.072	0.073	0.076	0.078	0.079	0.083	0.079	0.5	0.148	0.074	0.083	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS3	0.079	0.084	0.087	0.089	0.090	0.093	0.095	0.096	0.098	0.093	0.5	0.213	0.107	0.107	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.079	0.082	0.083	0.084	0.088	0.092	0.095	0.093	0.090	0.084	0.5	0.193	0.096	0.099	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS3	0.083	0.085	0.084	0.083	0.094	0.098	0.103	0.100	0.097	0.088	0.5	0.203	0.102	0.105	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS3	0.075	0.076	0.078	0.081	0.082	0.085	0.086	0.083	0.080	0.072	0.5	0.150	0.075	0.076	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS3	0.074	0.080	0.081	0.082	0.085	0.086	0.086	0.084	0.082	0.078	0.5	0.150	0.075	0.076	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS4	0.054	0.055	0.056	0.057	0.059	0.060	0.058	0.061	0.057	0.056	0.5	0.087	0.044	0.049	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS4	0.068	0.070	0.071	0.072	0.075	0.078	0.080	0.082	0.077	0.076	0.5	0.146	0.073	0.074	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.071	0.074	0.075	0.073	0.075	0.078	0.080	0.081	0.077	0.072	0.5	0.145	0.073	0.074	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS4	0.066	0.067	0.068	0.070	0.072	0.075	0.078	0.078	0.078	0.077	0.5	0.129	0.064	0.067	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS4	0.078	0.083	0.082	0.080	0.084	0.086	0.085	0.083	0.080	0.075	0.5	0.157	0.078	0.079	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS4	0.081	0.085	0.083	0.083	0.083	0.084	0.082	0.078	0.074	0.069	0.5	0.144	0.072	0.073	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS5	0.050	0.048	0.042	0.048	0.053	0.058	0.059	0.057	0.053	0.059	0.5	0.075	0.037	0.042	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS5	0.051	0.058	0.045	0.056	0.055	0.067	0.069	0.063	0.065	0.064	0.5	0.093	0.046	0.047	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.060	0.059	0.055	0.070	0.071	0.079	0.081	0.074	0.073	0.072	0.5	0.124	0.062	0.063	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	116	CW	H	0.80	BS5	0.059	0.065	0.054	0.064	0.069	0.077	0.085	0.075	0.073	0.074	0.5	0.118	0.059	0.061	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS5	0.059	0.065	0.060	0.068	0.076	0.084	0.085	0.076	0.075	0.070	0.5	0.123	0.062	0.062	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS5	0.061	0.068	0.054	0.062	0.072	0.074	0.072	0.066	0.062	0.063	0.5	0.096	0.048	0.049	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS1	0.103	0.098	0.092	0.096	0.103	0.114	0.121	0.119	0.115	0.104	0.5	0.304	0.152	0.171
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	H	0.84	BS1	0.106	0.102	0.094	0.095	0.104	0.115	0.119	0.117	0.111	0.101	0.5	0.303	0.152	0.155
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS1	0.107	0.101	0.095	0.096	0.106	0.118	0.123	0.119	0.111	0.096	0.5	0.301	0.150	0.152
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS2	0.086	0.087	0.085	0.088	0.096	0.107	0.115	0.111	0.109	0.104	0.5	0.263	0.131	0.147
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	H	0.84	BS2	0.091	0.090	0.088	0.092	0.102	0.110	0.117	0.111	0.108	0.101	0.5	0.274	0.137	0.140
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS2	0.100	0.098	0.095	0.101	0.108	0.117	0.122	0.120	0.118	0.109	0.5	0.310	0.155	0.156
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS3	0.077	0.081	0.081	0.082	0.083	0.086	0.090	0.092	0.092	0.087	0.5	0.193	0.097	0.108
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	H	0.84	BS3	0.080	0.088	0.090	0.095	0.097	0.098	0.100	0.101	0.098	0.091	0.5	0.235	0.118	0.121
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS3	0.084	0.090	0.093	0.094	0.096	0.099	0.102	0.103	0.102	0.097	0.5	0.240	0.120	0.121
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS4	0.062	0.063	0.064	0.065	0.069	0.068	0.069	0.070	0.065	0.064	0.5	0.116	0.058	0.065
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	H	0.84	BS4	0.070	0.073	0.075	0.077	0.078	0.080	0.086	0.083	0.080	0.079	0.5	0.163	0.081	0.083
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS4	0.072	0.074	0.075	0.076	0.079	0.080	0.082	0.082	0.082	0.083	0.5	0.160	0.080	0.081

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	107	CW	H	0.84	BS5	0.049	0.052	0.047	0.051	0.056	0.065	0.068	0.067	0.066	0.070	0.5	0.095	0.047	0.053
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	117	CW	H	0.84	BS5	0.055	0.058	0.048	0.051	0.069	0.074	0.078	0.076	0.079	0.081	0.5	0.123	0.061	0.063
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS5	0.049	0.061	0.048	0.056	0.058	0.067	0.070	0.068	0.071	0.072	0.5	0.102	0.051	0.051
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS1	0.110	0.104	0.096	0.097	0.111	0.123	0.124	0.121	0.110	0.096	0.5	0.312	0.156	0.158
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.120	0.113	0.102	0.107	0.117	0.128	0.130	0.122	0.111	0.097	0.5	0.336	0.168	0.172
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS2	0.098	0.096	0.093	0.096	0.104	0.113	0.121	0.117	0.116	0.109	0.5	0.296	0.148	0.149
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.101	0.097	0.094	0.098	0.108	0.117	0.124	0.117	0.111	0.102	0.5	0.292	0.146	0.150
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS3	0.085	0.091	0.093	0.094	0.098	0.100	0.103	0.103	0.102	0.098	0.5	0.244	0.122	0.123
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.085	0.089	0.090	0.092	0.095	0.100	0.102	0.100	0.097	0.089	0.5	0.224	0.112	0.115
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS4	0.073	0.072	0.073	0.074	0.076	0.078	0.080	0.082	0.081	0.080	0.5	0.154	0.077	0.078
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.081	0.077	0.078	0.079	0.081	0.083	0.085	0.086	0.081	0.076	0.5	0.165	0.083	0.085

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	119	CW	H	0.83	BS5	0.055	0.054	0.040	0.055	0.059	0.068	0.070	0.065	0.069	0.067	0.5	0.096	0.048	0.049
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.065	0.069	0.058	0.067	0.071	0.086	0.081	0.080	0.077	0.071	0.5	0.135	0.067	0.069
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS1	0.101	0.095	0.088	0.090	0.101	0.111	0.112	0.105	0.097	0.086	0.5	0.248	0.124	0.127
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS1	0.116	0.107	0.097	0.101	0.108	0.110	0.107	0.093	0.083	0.076	0.5	0.250	0.125	0.129
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS1	0.107	0.097	0.089	0.091	0.101	0.106	0.101	0.091	0.088	0.087	0.5	0.223	0.111	0.113
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS2	0.089	0.086	0.083	0.088	0.095	0.104	0.110	0.102	0.098	0.091	0.5	0.229	0.114	0.117
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS2	0.108	0.103	0.096	0.098	0.108	0.119	0.120	0.115	0.108	0.098	0.5	0.286	0.143	0.148
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS2	0.100	0.097	0.091	0.097	0.109	0.118	0.121	0.112	0.108	0.100	0.5	0.270	0.135	0.137
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS3	0.074	0.078	0.077	0.079	0.083	0.086	0.090	0.087	0.084	0.077	0.5	0.169	0.085	0.087
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS3	0.088	0.091	0.092	0.094	0.100	0.107	0.110	0.107	0.103	0.097	0.5	0.243	0.122	0.126
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS3	0.091	0.091	0.094	0.096	0.099	0.102	0.103	0.100	0.095	0.086	0.5	0.222	0.111	0.113

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS4	0.070	0.071	0.068	0.067	0.069	0.072	0.075	0.074	0.071	0.069	0.5	0.126	0.063	0.065	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS4	0.078	0.079	0.077	0.078	0.084	0.085	0.090	0.093	0.090	0.089	0.5	0.177	0.088	0.091	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS4	0.081	0.083	0.080	0.081	0.083	0.085	0.090	0.091	0.089	0.082	0.5	0.173	0.086	0.088	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	117	CW	H	0.82	BS5	0.059	0.073	0.051	0.057	0.059	0.072	0.074	0.070	0.069	0.066	0.5	0.109	0.054	0.056	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	116	CW	H	0.81	BS5	0.067	0.069	0.061	0.068	0.073	0.081	0.085	0.082	0.083	0.085	0.5	0.142	0.071	0.074	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS5	0.063	0.066	0.060	0.071	0.078	0.082	0.083	0.081	0.077	0.075	0.5	0.132	0.066	0.067	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS1	0.104	0.093	0.084	0.088	0.098	0.103	0.099	0.090	0.085	0.083	0.5	0.209	0.104	0.106	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS1	0.108	0.100	0.088	0.093	0.103	0.104	0.098	0.091	0.092	0.093	0.5	0.222	0.111	0.112	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS1	0.084	0.075	0.068	0.078	0.089	0.093	0.086	0.082	0.089	0.093	0.5	0.158	0.079	0.080	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS2	0.098	0.092	0.089	0.095	0.108	0.117	0.120	0.110	0.104	0.096	0.5	0.258	0.129	0.131	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS2	0.099	0.093	0.087	0.096	0.109	0.117	0.118	0.108	0.102	0.095	0.5	0.249	0.124	0.126	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS2	0.094	0.096	0.097	0.108	0.120	0.124	0.125	0.110	0.105	0.098	0.5	0.262	0.131	0.132	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.1 (Continued)**  
**VHF band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurements										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS3	0.085	0.087	0.088	0.090	0.095	0.096	0.099	0.094	0.091	0.084	0.5	0.200	0.100	0.102
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS3	0.081	0.082	0.083	0.085	0.087	0.091	0.091	0.087	0.083	0.073	0.5	0.168	0.084	0.085
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS3	0.085	0.090	0.094	0.095	0.098	0.099	0.100	0.095	0.092	0.088	0.5	0.196	0.098	0.099
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS4	0.078	0.085	0.078	0.078	0.078	0.083	0.086	0.085	0.084	0.081	0.5	0.161	0.080	0.082
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS4	0.085	0.095	0.087	0.090	0.088	0.092	0.096	0.093	0.091	0.085	0.5	0.192	0.096	0.097
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS4	0.091	0.096	0.094	0.093	0.092	0.093	0.092	0.090	0.086	0.082	0.5	0.185	0.093	0.093
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	118	CW	H	0.80	BS5	0.060	0.068	0.065	0.069	0.072	0.080	0.079	0.074	0.072	0.070	0.5	0.122	0.061	0.062
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	119	CW	H	0.79	BS5	0.069	0.072	0.064	0.070	0.078	0.087	0.088	0.084	0.078	0.073	0.5	0.138	0.069	0.070
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	119	CW	H	0.77	BS5	0.061	0.070	0.056	0.070	0.071	0.081	0.078	0.068	0.043	0.062	0.5	0.100	0.050	0.050

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PB	0.732	0.400	0.207	0.5	0.451	0.23	0.23
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	112	CW	E	1.02	PB	0.684	0.510	0.390	0.5	0.539	0.27	0.29
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PB	0.640	0.544	0.355	0.5	0.523	0.26	0.29
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	120	CW	E	1.01	PB	0.764	0.750	0.692	0.5	0.743	0.37	0.37
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PB	0.447	0.755	0.795	0.5	0.666	0.33	0.35
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PB	0.147	0.253	0.329	0.5	0.241	0.12	0.13
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	117	CW	E	1.01	PB	0.139	0.089	0.051	0.5	0.094	0.047	0.05
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	112	CW	E	1.02	PB	0.096	0.092	0.064	0.5	0.086	0.043	0.05
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	110	CW	E	1.02	PB	0.129	0.117	0.075	0.5	0.109	0.055	0.06
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	120	CW	E	1.01	PB	0.171	0.199	0.172	0.5	0.182	0.091	0.09
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	114	CW	E	1.00	PB	0.069	0.142	0.145	0.5	0.119	0.059	0.06
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	115	CW	E	0.99	PB	0.072	0.156	0.168	0.5	0.131	0.065	0.07

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	117	CW	E	1.01	PB	0.049	0.081	0.053	0.5	0.062	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	113	CW	E	1.02	PB	0.221	0.150	0.110	0.5	0.164	0.08	0.09
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	110	CW	E	1.02	PB	0.242	0.220	0.14	0.5	0.205	0.10	0.11
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	120	CW	E	1.01	PB	0.304	0.310	0.265	0.5	0.296	0.15	0.15
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	114	CW	E	1.05	PB	0.220	0.347	0.326	0.5	0.313	0.16	0.16
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	115	CW	E	0.99	PB	0.087	0.175	0.249	0.5	0.169	0.08	0.09
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PB	0.752	0.434	0.193	0.5	0.464	0.23	0.24
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PB	0.828	0.564	0.356	0.5	0.594	0.30	0.32
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PB	0.642	0.598	0.386	0.5	0.553	0.28	0.30
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	119	CW	E	1.01	PB	0.579	0.719	0.592	0.5	0.638	0.32	0.32
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PB	0.520	0.727	0.695	0.5	0.655	0.33	0.34

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	112	CW	E	1.05	PB	0.592	0.431	0.293	0.5	0.461	0.23	0.25
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	110	CW	E	1.05	PB	0.441	0.394	0.295	0.5	0.396	0.20	0.22
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	120	CW	E	1.05	PB	0.617	0.782	0.647	0.5	0.716	0.36	0.36
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	114	CW	E	1.05	PB	0.469	0.805	0.714	0.5	0.696	0.35	0.37
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	115	CW	E	1.05	PB	0.209	0.313	0.279	0.5	0.280	0.14	0.15
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PB	0.793	0.436	0.219	0.5	0.487	0.24	0.25
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PB	0.83	0.588	0.407	0.5	0.621	0.31	0.33
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PB	0.699	0.568	0.438	0.5	0.580	0.29	0.32
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	120	CW	E	1.01	PB	0.672	0.691	0.596	0.5	0.660	0.33	0.33
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PB	0.340	0.622	0.619	0.5	0.527	0.26	0.28
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PB	0.130	0.216	0.229	0.5	0.190	0.09	0.10

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

Ant Loc.	Ant. Model/ Desc.	D.U.T. Info.					Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PB	1.016	0.578	0.269	0.5	0.627	0.31	0.32
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	115	CW	E	1.02	PB	1.030	0.659	0.457	0.5	0.729	0.36	0.38
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PB	0.932	0.727	0.485	0.5	0.728	0.36	0.39
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PB	0.864	0.698	0.493	0.5	0.698	0.35	0.37
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PB	0.823	0.665	0.509	0.5	0.678	0.34	0.37
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PB	0.55	0.436	0.365	0.5	0.459	0.23	0.25
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	119	CW	E	1.01	PB	0.684	0.714	0.657	0.5	0.693	0.35	0.35
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PB	0.560	0.720	0.657	0.5	0.654	0.33	0.34

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PB	0.393	0.608	0.614	0.5	0.545	0.27	0.28
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PB	0.514	0.719	0.736	0.5	0.658	0.33	0.35
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PB	0.2	0.176	0.176	0.5	0.183	0.09	0.10
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PF	0.117	0.169	0.082	0.5	0.124	0.062	0.06
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	112	CW	E	1.02	PF	0.108	0.215	0.145	0.5	0.159	0.080	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.092	0.197	0.124	0.5	0.140	0.070	0.08
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	120	CW	E	1.01	PF	0.101	0.231	0.174	0.5	0.170	0.085	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PF	0.106	0.207	0.159	0.5	0.157	0.079	0.08
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PF	0.196	0.202	0.180	0.5	0.191	0.095	0.10

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	117	CW	E	1.01	PF	0.021	0.019	0.024	0.5	0.022	0.011	0.01
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	112	CW	E	1.02	PF	0.039	0.049	0.041	0.5	0.044	0.022	0.02
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	110	CW	E	1.02	PF	0.017	0.033	0.045	0.5	0.032	0.016	0.02
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	120	CW	E	1.01	PF	0.009	0.006	0.012	0.5	0.009	0.005	0.00
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	114	CW	E	1.00	PF	0.014	0.022	0.021	0.5	0.019	0.010	0.01
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	115	CW	E	0.99	PF	0.022	0.028	0.05	0.5	0.033	0.017	0.02
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	117	CW	E	1.01	PF	0.039	0.041	0.030	0.5	0.037	0.019	0.02
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	113	CW	E	1.02	PF	0.032	0.046	0.042	0.5	0.041	0.020	0.02
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	110	CW	E	1.02	PF	0.045	0.084	0.070	0.5	0.068	0.034	0.04
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	120	CW	E	1.01	PF	0.027	0.053	0.030	0.5	0.037	0.019	0.02
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	114	CW	E	1.00	PF	0.049	0.112	0.084	0.5	0.082	0.041	0.04
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	115	CW	E	0.99	PF	0.047	0.063	0.074	0.5	0.061	0.030	0.03

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC

**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

Ant Loc.	Ant. Model/ Desc.	D.U.T. Info.					Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PF	0.147	0.206	0.098	0.5	0.152	0.076	0.08
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PF	0.112	0.190	0.164	0.5	0.158	0.079	0.08
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.109	0.21	0.188	0.5	0.172	0.086	0.09
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	119	CW	E	1.01	PF	0.087	0.160	0.141	0.5	0.131	0.065	0.07
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PF	0.142	0.296	0.15	0.5	0.198	0.099	0.10
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	112	CW	E	1.02	PF	0.088	0.177	0.132	0.5	0.135	0.07	0.07
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.070	0.148	0.101	0.5	0.108	0.05	0.06
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	120	CW	E	1.01	PF	0.108	0.180	0.210	0.5	0.168	0.08	0.08
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PF	0.127	0.255	0.162	0.5	0.181	0.09	0.10
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PF	0.210	0.169	0.185	0.5	0.186	0.09	0.10

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PF	0.099	0.177	0.072	0.5	0.117	0.059	0.06
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PF	0.087	0.185	0.147	0.5	0.142	0.071	0.08
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.085	0.170	0.121	0.5	0.128	0.064	0.07
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	120	CW	E	1.01	PF	0.098	0.201	0.156	0.5	0.153	0.077	0.08
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PF	0.105	0.190	0.156	0.5	0.150	0.075	0.08
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PF	0.163	0.156	0.104	0.5	0.140	0.070	0.07
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	117	CW	E	1.01	PF	0.157	0.282	0.121	0.5	0.189	0.094	0.10
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	115	CW	E	1.02	PF	0.117	0.212	0.131	0.5	0.156	0.078	0.08
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PF	0.116	0.227	0.171	0.5	0.175	0.087	0.09
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	113	CW	E	1.02	PF	0.103	0.215	0.156	0.5	0.161	0.081	0.09
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.110	0.217	0.125	0.5	0.154	0.077	0.08

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	110	CW	E	1.02	PF	0.070	0.169	0.119	0.5	0.122	0.061	0.07
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	119	CW	E	1.01	PF	0.105	0.212	0.127	0.5	0.149	0.074	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PF	0.129	0.263	0.222	0.5	0.206	0.103	0.11
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	115	CW	E	1.01	PF	0.123	0.224	0.199	0.5	0.183	0.09	0.10
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	114	CW	E	1.00	PF	0.169	0.242	0.187	0.5	0.200	0.10	0.11
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	115	CW	E	0.99	PF	0.242	0.235	0.202	0.5	0.225	0.11	0.12

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PB	0.158	0.127	0.104	0.5	0.512	0.26	0.26
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	112	CW	H	0.88	PB	0.146	0.132	0.120	0.5	0.519	0.26	0.28
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.132	0.128	0.111	0.5	0.451	0.23	0.25
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	120	CW	H	0.87	PB	0.139	0.154	0.142	0.5	0.606	0.30	0.30
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PB	0.115	0.135	0.147	0.5	0.502	0.25	0.26
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PB	0.093	0.062	0.065	0.5	0.156	0.08	0.08
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	117	CW	H	0.90	PB	0.076	0.059	0.049	0.5	0.119	0.059	0.06
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	112	CW	H	0.88	PB	0.064	0.056	0.051	0.5	0.096	0.048	0.05
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	110	CW	H	0.88	PB	0.061	0.058	0.055	0.5	0.099	0.049	0.05
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	120	CW	H	0.87	PB	0.074	0.078	0.072	0.5	0.161	0.080	0.08
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	114	CW	H	0.87	PB	0.052	0.051	0.047	0.5	0.071	0.036	0.04
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	115	CW	H	0.86	PB	0.053	0.044	0.06	0.5	0.078	0.039	0.04

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	136.0000	120.0	117	CW	H	0.89		PB	0.078	0.062				
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	144.0000	120.0	113	CW	H	0.88	PB	0.083	0.079	0.068	0.5	0.173	0.09	0.09
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	150.8000	120.0	110	CW	H	0.88	PB	0.075	0.078	0.068	0.5	0.160	0.08	0.09
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	158.0125	120.0	120	CW	H	0.86	PB	0.103	0.106	0.099	0.5	0.294	0.15	0.15
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	165.0125	120.0	114	CW	H	0.87	PB	0.087	0.108	0.122	0.5	0.323	0.16	0.17
Roof	HAD4022A, 5/8 Wave (132- 174MHz)	5.15	173.0125	120.0	115	CW	H	0.86	PB	0.061	0.077	0.092	0.5	0.169	0.08	0.09
Roof	HAD4016A, 1/4 Wave (136- 162MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PB	0.142	0.117	0.108	0.5	0.449	0.22	0.23
Roof	HAD4016A, 1/4 Wave (136- 162MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PB	0.149	0.138	0.122	0.5	0.545	0.27	0.29
Roof	HAD4016A, 1/4 Wave (136- 162MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.138	0.132	0.12	0.5	0.494	0.25	0.27
Roof	HAD4016A, 1/4 Wave (136- 162MHz)	2.15	156.4000	120.0	119	CW	H	0.87	PB	0.139	0.149	0.136	0.5	0.571	0.29	0.29
Roof	HAD4016A, 1/4 Wave (136- 162MHz)	2.15	162.0000	120.0	115	CW	H	0.87	PB	0.129	0.150	0.159	0.5	0.613	0.31	0.32

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	112	CW	H	0.88	PB	0.106	0.101	0.089	0.5	0.287	0.14	0.15
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.119	0.107	0.093	0.5	0.333	0.17	0.18
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	120	CW	H	0.87	PB	0.145	0.155	0.139	0.5	0.609	0.30	0.30
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PB	0.140	0.179	0.183	0.5	0.806	0.40	0.42
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	115	CW	H	0.83	PB	0.111	0.101	0.095	0.5	0.273	0.14	0.14
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PB	0.155	0.128	0.106	0.5	0.509	0.25	0.26
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PB	0.145	0.138	0.119	0.5	0.530	0.26	0.28
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.135	0.13	0.111	0.5	0.463	0.23	0.25
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	120.0	120	CW	H	0.86	PB	0.132	0.147	0.135	0.5	0.532	0.27	0.27
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PB	0.112	0.133	0.139	0.5	0.469	0.23	0.25
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PB	0.072	0.077	0.09	0.5	0.179	0.09	0.09

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PB	0.177	0.139	0.11	0.5	0.618	0.31	0.32
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	120.0	115	CW	H	0.88	PB	0.184	0.158	0.13	0.5	0.740	0.37	0.39
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PB	0.162	0.15	0.128	0.5	0.636	0.32	0.34
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PB	0.157	0.144	0.124	0.5	0.593	0.30	0.32
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.136	0.133	0.118	0.5	0.489	0.24	0.27
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PB	0.122	0.119	0.104	0.5	0.388	0.19	0.21
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	120.0	119	CW	H	0.87	PB	0.147	0.155	0.139	0.5	0.625	0.31	0.32
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	120.0	115	CW	H	0.87	PB	0.132	0.165	0.167	0.5	0.698	0.35	0.36

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	120.0	115	CW	H	0.87	PB	0.12	0.147	0.146	0.5	0.551	0.28	0.29
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PB	0.110	0.143	0.153	0.5	0.530	0.26	0.28
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PB	0.078	0.086	0.098	0.5	0.215	0.11	0.11
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PF	0.096	0.083	0.067	0.5	0.203	0.101	0.10
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	146.0000	120.0	112	CW	H	0.88	PF	0.079	0.084	0.066	0.5	0.172	0.086	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PF	0.079	0.08	0.065	0.5	0.165	0.082	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	158.0125	120.0	120	CW	H	0.87	PF	0.086	0.089	0.084	0.5	0.215	0.107	0.11
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	165.0125	120.0	114	CW	H	0.85	PF	0.094	0.101	0.072	0.5	0.220	0.110	0.12
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PF	0.096	0.086	0.087	0.5	0.226	0.113	0.12

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**  
**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	136.0000	120.0	117	CW	H	0.89	PF	0.049	0.04	0.043	0.5	0.058	0.029	0.03
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	120.0	112	CW	H	0.88	PF	0.045	0.046	0.04	0.5	0.056	0.028	0.03
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	120.0	110	CW	H	0.88	PF	0.049	0.042	0.04	0.5	0.056	0.028	0.03
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	120.0	120	CW	H	0.86	PF	0.041	0.035	0.031	0.5	0.036	0.018	0.02
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	120.0	114	CW	H	0.87	PF	0.050	0.048	0.039	0.5	0.060	0.030	0.03
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	120.0	115	CW	H	0.86	PF	0.052	0.043	0.055	0.5	0.071	0.035	0.04
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	136.0000	120.0	117	CW	H	0.89	PF	0.056	0.045	0.050	0.5	0.076	0.038	0.04
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	120.0	113	CW	H	0.88	PF	0.045	0.042	0.044	0.5	0.056	0.028	0.03
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	120.0	110	CW	H	0.88	PF	0.052	0.048	0.050	0.5	0.073	0.037	0.04
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	120.0	120	CW	H	0.87	PF	0.048	0.049	0.042	0.5	0.062	0.031	0.03
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	120.0	114	CW	H	0.87	PF	0.067	0.068	0.054	0.5	0.114	0.057	0.06
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	120.0	115	CW	H	0.86	PF	0.07	0.056	0.063	0.5	0.112	0.056	0.06

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PF	0.102	0.082	0.053	0.5	0.196	0.098	0.10
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PF	0.077	0.075	0.063	0.5	0.152	0.076	0.08
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PF	0.079	0.081	0.061	0.5	0.161	0.081	0.09
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	120.0	119	CW	H	0.87	PF	0.068	0.073	0.057	0.5	0.127	0.063	0.06
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	120.0	115	CW	H	0.87	PF	0.095	0.099	0.075	0.5	0.231	0.116	0.12
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	120.0	112	CW	H	0.88	PF	0.074	0.07	0.068	0.5	0.147	0.07	0.08
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	120.0	110	CW	H	0.87	PF	0.069	0.068	0.063	0.5	0.127	0.06	0.07
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	120.0	120	CW	H	0.86	PF	0.087	0.088	0.077	0.5	0.197	0.10	0.10
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	120.0	114	CW	H	0.85	PF	0.102	0.109	0.091	0.5	0.278	0.14	0.15
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	120.0	115	CW	H	0.83	PF	0.101	0.114	0.078	0.5	0.253	0.13	0.13

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	136.0000	120.0	117	CW	H	0.89		PF	0.098	0.084				
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PF	0.07	0.075	0.056	0.5	0.133	0.067	0.07
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PF	0.08	0.083	0.068	0.5	0.175	0.087	0.10
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	158.0125	120.0	120	CW	H	0.87	PF	0.081	0.086	0.076	0.5	0.189	0.095	0.09
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PF	0.093	0.102	0.081	0.5	0.243	0.121	0.13
Roof	HAD4021A, 1/4 Wave (136- 174MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PF	0.090	0.089	0.070	0.5	0.195	0.098	0.10
Roof	HAD4006A, 1/4 Wave (136- 144MHz)	2.15	136.0000	120.0	117	CW	H	0.89	PF	0.094	0.086	0.066	0.5	0.203	0.101	0.10
Roof	HAD4006A, 1/4 Wave (136- 144MHz)	2.15	140.0000	120.0	115	CW	H	0.88	PF	0.087	0.074	0.069	0.5	0.174	0.087	0.09
Roof	HAD4006A, 1/4 Wave (136- 144MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PF	0.091	0.083	0.070	0.5	0.196	0.098	0.10

Notes:

MPE calculations are defined in section 15.0  
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**Table J.2 (Continued)**

**VHF band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3					Lower Trunk/ Bottom 1/3
Roof	HAD4007A, 1/4 Wave (144- 150.8MHz)	2.15	144.0000	120.0	113	CW	H	0.88	PF	0.078	0.076	0.06	0.5	0.151	0.075	0.08
Roof	HAD4007A, 1/4 Wave (144- 150.8MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PF	0.087	0.086	0.071	0.5	0.195	0.098	0.11
Roof	HAD4008A, 1/4 Wave (150.8- 162MHz)	2.15	150.8000	120.0	110	CW	H	0.88	PF	0.073	0.08	0.067	0.5	0.158	0.079	0.09
Roof	HAD4008A, 1/4 Wave (150.8- 162MHz)	2.15	156.4000	120.0	119	CW	H	0.87	PF	0.080	0.097	0.068	0.5	0.197	0.098	0.10
Roof	HAD4008A, 1/4 Wave (150.8- 162MHz)	2.15	162.0000	120.0	115	CW	H	0.85	PF	0.112	0.109	0.096	0.5	0.305	0.15	0.16
Roof	HAD4009A, 1/4 Wave (162- 174MHz)	2.15	162.0000	120.0	115	CW	H	0.87	PF	0.097	0.119	0.088	0.5	0.301	0.15	0.16
Roof	HAD4009A, 1/4 Wave (162- 174MHz)	2.15	165.0125	120.0	114	CW	H	0.87	PF	0.109	0.123	0.088	0.5	0.334	0.17	0.18
Roof	HAD4009A, 1/4 Wave (162- 174MHz)	2.15	173.0125	120.0	115	CW	H	0.86	PF	0.094	0.091	0.069	0.5	0.204	0.10	0.11

Notes:

MPE calculations are defined in section 15.0  
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**Appendix K – MPE Measurement Results for LMR UHF R1**

**Table K.1**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.05	BS1	0.040	0.020	0.030	0.040	0.050	0.070	0.060	0.060	0.070	0.110	0.5	0.058	0.029	0.030
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.07	BS1	0.010	0.040	0.030	0.050	0.080	0.100	0.090	0.070	0.080	0.140	0.5	0.074	0.037	0.037
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.07	BS1	0.010	0.010	0.030	0.050	0.080	0.120	0.150	0.110	0.080	0.140	0.5	0.083	0.042	0.042
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.03	BS1	0.020	0.040	0.070	0.080	0.110	0.120	0.120	0.100	0.080	0.090	0.5	0.085	0.043	0.046
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.00	BS1	0.040	0.060	0.100	0.120	0.150	0.130	0.090	0.070	0.090	0.150	0.5	0.100	0.050	0.056
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.060	0.060	0.110	0.140	0.170	0.140	0.120	0.110	0.140	0.210	0.5	0.122	0.061	0.062
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.060	0.070	0.100	0.110	0.100	0.090	0.080	0.070	0.110	0.170	0.5	0.089	0.045	0.046
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.05	BS2	0.037	0.036	0.033	0.034	0.030	0.041	0.051	0.050	0.045	0.054	0.5	0.043	0.022	0.023
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.07	BS2	0.044	0.038	0.040	0.051	0.048	0.057	0.060	0.058	0.061	0.080	0.5	0.057	0.029	0.029
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.07	BS2	0.058	0.047	0.053	0.052	0.045	0.050	0.054	0.055	0.065	0.073	0.5	0.059	0.030	0.030
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.03	BS2	0.041	0.035	0.041	0.036	0.037	0.045	0.049	0.043	0.048	0.090	0.5	0.048	0.024	0.026
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.00	BS2	0.030	0.016	0.020	0.022	0.031	0.043	0.061	0.085	0.106	0.110	0.5	0.052	0.026	0.029
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.034	0.028	0.026	0.028	0.042	0.065	0.091	0.113	0.121	0.113	0.5	0.064	0.032	0.032
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.023	0.016	0.022	0.027	0.043	0.060	0.075	0.071	0.067	0.097	0.5	0.047	0.023	0.024

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.05	BS3	0.046	0.050	0.031	0.051	0.050	0.030	0.031	0.032	0.033	0.036	0.5	0.041	0.020	0.021
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.07	BS3	0.063	0.070	0.062	0.079	0.061	0.035	0.034	0.033	0.040	0.050	0.5	0.056	0.028	0.028
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.07	BS3	0.058	0.064	0.060	0.069	0.047	0.031	0.022	0.021	0.035	0.066	0.5	0.051	0.025	0.026
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.03	BS3	0.028	0.026	0.031	0.045	0.039	0.042	0.049	0.050	0.045	0.050	0.5	0.042	0.021	0.023
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.00	BS3	0.033	0.036	0.045	0.048	0.038	0.040	0.039	0.038	0.051	0.059	0.5	0.043	0.021	0.024
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.038	0.045	0.059	0.056	0.046	0.040	0.039	0.049	0.058	0.065	0.5	0.048	0.024	0.024
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.042	0.039	0.046	0.045	0.038	0.041	0.048	0.055	0.054	0.056	0.5	0.043	0.022	0.022
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.05	BS4	0.030	0.041	0.029	0.023	0.027	0.030	0.026	0.019	0.012	0.010	0.5	0.026	0.013	0.014
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.07	BS4	0.050	0.062	0.037	0.038	0.043	0.045	0.035	0.024	0.018	0.017	0.5	0.039	0.020	0.020
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.07	BS4	0.034	0.046	0.037	0.048	0.064	0.061	0.039	0.015	0.007	0.013	0.5	0.039	0.019	0.020
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.03	BS4	0.033	0.030	0.019	0.022	0.030	0.035	0.036	0.025	0.016	0.012	0.5	0.027	0.013	0.014
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.00	BS4	0.030	0.033	0.030	0.031	0.033	0.026	0.017	0.012	0.016	0.027	0.5	0.026	0.013	0.014
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.037	0.039	0.031	0.032	0.037	0.033	0.026	0.015	0.018	0.027	0.5	0.029	0.014	0.014
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.023	0.022	0.015	0.025	0.024	0.019	0.012	0.013	0.020	0.036	0.5	0.019	0.010	0.010

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**

**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.05	BS5	0.004	0.002	0.003	0.004	0.006	0.010	0.010	0.005	0.001	0.004	0.5	0.005	0.003	0.003
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.07	BS5	0.003	0.002	0.004	0.007	0.011	0.014	0.010	0.003	0.002	0.005	0.5	0.007	0.003	0.003
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.07	BS5	0.002	0.002	0.001	0.001	0.005	0.007	0.010	0.013	0.012	0.009	0.5	0.007	0.003	0.003
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.03	BS5	0.002	0.004	0.006	0.011	0.012	0.011	0.012	0.014	0.020	0.022	0.5	0.012	0.006	0.006
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.00	BS5	0.002	0.003	0.005	0.008	0.014	0.020	0.019	0.018	0.017	0.020	0.5	0.013	0.006	0.007
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.002	0.003	0.005	0.008	0.017	0.023	0.026	0.021	0.018	0.023	0.5	0.014	0.007	0.007
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.006	0.004	0.009	0.015	0.025	0.029	0.025	0.018	0.011	0.013	0.5	0.014	0.007	0.007

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.05	BS1	0.000	0.000	0.000	0.000	0.020	0.060	0.170	0.300	0.400	0.380	0.5	0.140	0.070	0.073
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.07	BS1	0.000	0.000	0.000	0.000	0.020	0.080	0.200	0.380	0.490	0.500	0.5	0.179	0.089	0.089
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.07	BS1	0.000	0.000	0.000	0.000	0.010	0.060	0.170	0.300	0.410	0.440	0.5	0.149	0.074	0.076
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.04	BS1	0.000	0.000	0.000	0.010	0.030	0.060	0.120	0.220	0.300	0.310	0.5	0.109	0.055	0.058
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.01	BS1	0.000	0.000	0.000	0.000	0.010	0.020	0.070	0.120	0.170	0.180	0.5	0.058	0.029	0.032
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.05	BS2	0.004	0.005	0.009	0.020	0.045	0.100	0.183	0.290	0.367	0.370	0.5	0.146	0.073	0.076
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.07	BS2	0.004	0.003	0.003	0.012	0.037	0.095	0.212	0.359	0.477	0.491	0.5	0.181	0.091	0.091
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.07	BS2	0.006	0.005	0.006	0.008	0.016	0.050	0.133	0.241	0.337	0.339	0.5	0.122	0.061	0.062
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.04	BS2	0.002	0.003	0.005	0.007	0.016	0.034	0.076	0.145	0.215	0.151	0.5	0.068	0.034	0.036
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.01	BS2	0.003	0.002	0.002	0.002	0.007	0.019	0.044	0.082	0.117	0.111	0.5	0.039	0.020	0.022

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.05	BS3	0.008	0.015	0.020	0.035	0.047	0.059	0.093	0.151	0.211	0.209	0.5	0.089	0.045	0.046
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.07	BS3	0.008	0.012	0.020	0.035	0.050	0.064	0.088	0.131	0.142	0.140	0.5	0.074	0.037	0.037
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.07	BS3	0.008	0.011	0.016	0.027	0.038	0.056	0.088	0.134	0.186	0.210	0.5	0.083	0.041	0.042
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.04	BS3	0.004	0.005	0.009	0.016	0.025	0.038	0.060	0.088	0.122	0.133	0.5	0.052	0.026	0.028
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.01	BS3	0.002	0.003	0.004	0.011	0.019	0.030	0.044	0.064	0.081	0.086	0.5	0.035	0.017	0.019
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.05	BS4	0.011	0.015	0.016	0.027	0.043	0.064	0.079	0.094	0.125	0.155	0.5	0.066	0.033	0.034
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.07	BS4	0.010	0.020	0.024	0.041	0.073	0.101	0.115	0.127	0.152	0.175	0.5	0.090	0.045	0.045
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.07	BS4	0.014	0.018	0.019	0.025	0.032	0.044	0.057	0.073	0.092	0.120	0.5	0.053	0.026	0.027
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.04	BS4	0.005	0.006	0.007	0.009	0.020	0.026	0.028	0.032	0.038	0.046	0.5	0.023	0.011	0.012
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.01	BS4	0.003	0.006	0.007	0.014	0.019	0.023	0.029	0.031	0.035	0.040	0.5	0.021	0.010	0.012

Notes:

MPE calculations are defined in section 15.0  
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**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.05	BS5	0.010	0.010	0.010	0.010	0.030	0.040	0.060	0.060	0.080	0.110	0.5	0.044	0.022	0.023
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.07	BS5	0.010	0.010	0.010	0.010	0.020	0.040	0.060	0.080	0.110	0.160	0.5	0.055	0.027	0.027
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.07	BS5	0.000	0.000	0.000	0.010	0.020	0.040	0.050	0.060	0.070	0.090	0.5	0.036	0.018	0.018
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.04	BS5	0.000	0.000	0.000	0.000	0.010	0.030	0.050	0.060	0.070	0.090	0.5	0.032	0.016	0.017
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.01	BS5	0.000	0.000	0.000	0.000	0.010	0.010	0.020	0.030	0.040	0.060	0.5	0.017	0.009	0.010

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

Table K.1 (Continued)

UHF R1 band - MPE measurement data for Bystander

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS1	0.030	0.020	0.030	0.060	0.090	0.140	0.230	0.310	0.340	0.320	0.5	0.165	0.082	0.086		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS1	0.030	0.020	0.030	0.040	0.070	0.130	0.190	0.250	0.300	0.330	0.5	0.149	0.074	0.074		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS1	0.010	0.010	0.020	0.060	0.120	0.230	0.330	0.370	0.410	0.400	0.5	0.210	0.105	0.107		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS1	0.020	0.040	0.070	0.100	0.150	0.210	0.260	0.290	0.310	0.300	0.5	0.180	0.090	0.097		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS1	0.030	0.060	0.100	0.130	0.180	0.200	0.220	0.270	0.350	0.400	0.5	0.194	0.097	0.108		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.050	0.060	0.080	0.130	0.180	0.220	0.250	0.340	0.410	0.400	0.5	0.206	0.103	0.104		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.055	0.077	0.114	0.138	0.165	0.163	0.188	0.176	0.234	0.311	0.5	0.154	0.077	0.077		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.030	0.030	0.060	0.090	0.110	0.120	0.150	0.220	0.290	0.320	0.5	0.132	0.066	0.068		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS2	0.034	0.038	0.046	0.060	0.077	0.122	0.170	0.209	0.231	0.237	0.5	0.129	0.064	0.067		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS2	0.034	0.031	0.036	0.052	0.078	0.123	0.171	0.221	0.254	0.262	0.5	0.135	0.068	0.068		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS2	0.034	0.030	0.041	0.044	0.055	0.086	0.128	0.184	0.223	0.213	0.5	0.111	0.056	0.056		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS2	0.042	0.049	0.068	0.070	0.081	0.107	0.145	0.198	0.144	0.291	0.5	0.123	0.062	0.067		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS2	0.027	0.022	0.028	0.040	0.071	0.116	0.190	0.276	0.317	0.321	0.5	0.141	0.070	0.078		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.031	0.033	0.032	0.039	0.068	0.113	0.171	0.178	0.230	0.195	0.5	0.106	0.053	0.053		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.024	0.022	0.026	0.035	0.065	0.110	0.155	0.196	0.147	0.118	0.5	0.085	0.043	0.043		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.016	0.017	0.019	0.026	0.047	0.076	0.113	0.149	0.169	0.196	0.5	0.077	0.039	0.040		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS3	0.051	0.056	0.043	0.072	0.083	0.071	0.088	0.123	0.156	0.161	0.5	0.095	0.047	0.050		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS3	0.054	0.058	0.051	0.078	0.074	0.063	0.074	0.107	0.141	0.150	0.5	0.091	0.045	0.045		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS3	0.051	0.057	0.056	0.066	0.050	0.044	0.056	0.080	0.121	0.172	0.5	0.081	0.040	0.041		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS3	0.034	0.035	0.047	0.065	0.068	0.083	0.103	0.119	0.132	0.149	0.5	0.086	0.043	0.046		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS3	0.033	0.036	0.054	0.065	0.058	0.075	0.097	0.125	0.157	0.164	0.5	0.086	0.043	0.048		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.031	0.034	0.051	0.062	0.067	0.079	0.092	0.111	0.133	0.149	0.5	0.078	0.039	0.040		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.052	0.061	0.083	0.089	0.082	0.090	0.113	0.164	0.229	0.258	0.5	0.116	0.058	0.058		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.030	0.035	0.045	0.054	0.052	0.059	0.076	0.092	0.110	0.113	0.5	0.062	0.031	0.032		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS4	0.038	0.057	0.045	0.050	0.067	0.081	0.080	0.074	0.068	0.073	0.5	0.066	0.033	0.035		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS4	0.054	0.070	0.045	0.052	0.082	0.097	0.092	0.083	0.082	0.088	0.5	0.080	0.040	0.040		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS4	0.047	0.055	0.051	0.066	0.078	0.081	0.065	0.044	0.038	0.053	0.5	0.062	0.031	0.031		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS4	0.043	0.047	0.043	0.068	0.093	0.107	0.104	0.090	0.094	0.120	0.5	0.083	0.042	0.045		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS4	0.053	0.062	0.053	0.059	0.071	0.077	0.065	0.057	0.073	0.113	0.5	0.068	0.034	0.038		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.051	0.062	0.054	0.056	0.068	0.069	0.061	0.059	0.073	0.107	0.5	0.064	0.032	0.032		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.060	0.061	0.037	0.043	0.058	0.054	0.045	0.033	0.041	0.070	0.5	0.048	0.024	0.024		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.031	0.026	0.016	0.032	0.042	0.043	0.044	0.045	0.073	0.123	0.5	0.044	0.022	0.023		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	B5S	0.012	0.008	0.009	0.010	0.016	0.027	0.032	0.030	0.032	0.043	0.5	0.023	0.011	0.012		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	B5S	0.006	0.005	0.008	0.012	0.023	0.030	0.039	0.044	0.064	0.098	0.5	0.035	0.018	0.018		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	B5S	0.005	0.004	0.006	0.011	0.023	0.030	0.037	0.041	0.047	0.062	0.5	0.028	0.014	0.014		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	B5S	0.004	0.005	0.009	0.015	0.022	0.030	0.041	0.052	0.064	0.081	0.5	0.033	0.017	0.018		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	B5S	0.004	0.006	0.010	0.021	0.038	0.053	0.065	0.077	0.092	0.120	0.5	0.049	0.024	0.027		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	B5S	0.005	0.006	0.011	0.021	0.032	0.051	0.059	0.060	0.064	0.078	0.5	0.038	0.019	0.019		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	B5S	0.016	0.020	0.028	0.032	0.049	0.067	0.076	0.070	0.067	0.095	0.5	0.049	0.025	0.025		
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	B5S	0.005	0.006	0.008	0.016	0.023	0.032	0.038	0.033	0.030	0.038	0.5	0.021	0.011	0.011		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS1	0.032	0.023	0.022	0.041	0.062	0.113	0.189	0.274	0.313	0.290	0.5	0.143	0.071	0.074		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS1	0.046	0.034	0.044	0.066	0.094	0.147	0.192	0.303	0.361	0.134	0.5	0.152	0.076	0.076		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS1	0.017	0.011	0.025	0.042	0.085	0.160	0.245	0.149	0.335	0.348	0.5	0.152	0.076	0.077		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS1	0.014	0.024	0.047	0.066	0.098	0.144	0.166	0.235	0.245	0.103	0.5	0.118	0.059	0.064		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS1	0.034	0.047	0.072	0.092	0.131	0.172	0.229	0.294	0.360	0.352	0.5	0.178	0.089	0.099		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.056	0.060	0.096	0.134	0.181	0.220	0.262	0.324	0.360	0.338	0.5	0.197	0.099	0.099		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.049	0.052	0.085	0.112	0.146	0.171	0.196	0.291	0.384	0.426	0.5	0.178	0.089	0.092		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS2	0.040	0.040	0.040	0.050	0.060	0.090	0.150	0.180	0.210	0.220	0.5	0.113	0.057	0.059		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS2	0.030	0.030	0.030	0.060	0.090	0.130	0.180	0.240	0.280	0.300	0.5	0.147	0.073	0.073		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS2	0.040	0.040	0.040	0.050	0.070	0.110	0.160	0.230	0.290	0.290	0.5	0.141	0.071	0.072		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS2	0.040	0.040	0.060	0.060	0.070	0.100	0.130	0.190	0.250	0.280	0.5	0.126	0.063	0.068		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS2	0.020	0.020	0.020	0.020	0.040	0.090	0.160	0.240	0.290	0.300	0.5	0.120	0.060	0.067		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.040	0.040	0.040	0.060	0.100	0.150	0.190	0.210	0.310	0.280	0.5	0.138	0.069	0.069		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.020	0.020	0.020	0.030	0.080	0.120	0.160	0.200	0.220	0.250	0.5	0.104	0.052	0.054		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS3	0.050	0.050	0.040	0.060	0.060	0.060	0.090	0.130	0.140	0.150	0.5	0.087	0.044	0.045		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS3	0.040	0.040	0.050	0.080	0.080	0.070	0.090	0.110	0.150	0.160	0.5	0.093	0.047	0.047		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS3	0.050	0.050	0.050	0.070	0.050	0.050	0.080	0.110	0.160	0.200	0.5	0.093	0.047	0.047		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS3	0.030	0.030	0.040	0.050	0.060	0.080	0.120	0.120	0.130	0.150	0.5	0.083	0.042	0.045		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS3	0.020	0.020	0.040	0.050	0.050	0.070	0.080	0.100	0.120	0.150	0.5	0.070	0.035	0.039		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.020	0.040	0.060	0.070	0.070	0.090	0.100	0.130	0.160	0.180	0.5	0.089	0.045	0.045		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.040	0.050	0.060	0.060	0.050	0.050	0.080	0.120	0.120	0.140	0.5	0.072	0.036	0.037		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BS4	0.036	0.054	0.038	0.040	0.059	0.067	0.072	0.067	0.068	0.079	0.5	0.061	0.030	0.032		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BS4	0.051	0.068	0.050	0.061	0.090	0.103	0.097	0.090	0.086	0.088	0.5	0.084	0.042	0.042		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BS4	0.044	0.059	0.055	0.071	0.086	0.088	0.073	0.043	0.042	0.059	0.5	0.066	0.033	0.034		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BS4	0.029	0.035	0.031	0.046	0.062	0.073	0.065	0.055	0.051	0.062	0.5	0.052	0.026	0.028		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BS4	0.039	0.046	0.033	0.038	0.050	0.052	0.047	0.041	0.052	0.082	0.5	0.048	0.024	0.027		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.046	0.057	0.051	0.053	0.063	0.060	0.050	0.048	0.057	0.090	0.5	0.056	0.028	0.028		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.032	0.028	0.016	0.030	0.043	0.051	0.053	0.061	0.091	0.146	0.5	0.051	0.026	0.027		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.05	BSS	0.011	0.005	0.007	0.008	0.015	0.026	0.031	0.028	0.031	0.042	0.5	0.021	0.011	0.011		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.07	BSS	0.007	0.006	0.007	0.013	0.023	0.039	0.043	0.050	0.071	0.120	0.5	0.041	0.020	0.020		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.07	BSS	0.005	0.004	0.005	0.009	0.023	0.036	0.041	0.048	0.053	0.072	0.5	0.032	0.016	0.016		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.03	BSS	0.002	0.005	0.007	0.010	0.017	0.027	0.034	0.044	0.057	0.069	0.5	0.028	0.014	0.015		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.00	BSS	0.004	0.005	0.009	0.018	0.033	0.047	0.057	0.066	0.078	0.106	0.5	0.042	0.021	0.024		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BSS	0.008	0.009	0.013	0.017	0.036	0.053	0.065	0.067	0.069	0.091	0.5	0.042	0.021	0.021		
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BSS	0.007	0.009	0.013	0.021	0.030	0.041	0.047	0.040	0.035	0.051	0.5	0.027	0.014	0.014		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.011	0.006	0.005	0.004	0.003	0.026	0.098	0.240	0.379	0.373	0.5	0.111	0.056	0.056
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.015	0.014	0.015	0.013	0.020	0.054	0.128	0.279	0.432	0.179	0.5	0.109	0.055	0.055
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.012	0.008	0.010	0.014	0.029	0.080	0.167	0.335	0.488	0.487	0.5	0.152	0.076	0.078
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.000	0.000	0.000	0.000	0.000	0.030	0.100	0.230	0.340	0.370	0.5	0.104	0.052	0.052
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.000	0.000	0.000	0.010	0.030	0.030	0.090	0.190	0.300	0.330	0.5	0.093	0.047	0.047
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.000	0.000	0.000	0.010	0.030	0.070	0.140	0.250	0.330	0.360	0.5	0.111	0.055	0.057
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.001	0.001	0.003	0.008	0.024	0.050	0.083	0.123	0.163	0.146	0.5	0.058	0.029	0.029
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.005	0.004	0.003	0.007	0.020	0.051	0.112	0.211	0.312	0.182	0.5	0.086	0.043	0.043
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.006	0.007	0.010	0.020	0.031	0.051	0.082	0.121	0.164	0.177	0.5	0.062	0.031	0.032
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.001	0.003	0.010	0.017	0.026	0.038	0.055	0.088	0.129	0.128	0.5	0.048	0.024	0.024
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.007	0.011	0.015	0.022	0.037	0.050	0.060	0.075	0.097	0.124	0.5	0.047	0.024	0.024
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.010	0.012	0.009	0.021	0.040	0.062	0.094	0.126	0.175	0.199	0.5	0.070	0.035	0.036

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.003	0.006	0.014	0.025	0.034	0.043	0.049	0.064	0.092	0.136	0.5	0.045	0.023	0.023	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.010	0.018	0.024	0.033	0.047	0.069	0.089	0.128	0.171	0.5	0.057	0.028	0.028	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.003	0.003	0.005	0.017	0.030	0.047	0.056	0.065	0.081	0.110	0.5	0.039	0.019	0.020	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.010	0.010	0.010	0.020	0.040	0.070	0.100	0.110	0.5	0.038	0.019	0.019	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.010	0.010	0.010	0.010	0.030	0.060	0.120	0.160	0.170	0.5	0.056	0.028	0.028	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.010	0.010	0.010	0.020	0.030	0.040	0.050	0.060	0.5	0.023	0.012	0.012	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS2	0.003	0.006	0.007	0.015	0.035	0.079	0.158	0.211	0.298	0.259	0.5	0.104	0.052	0.052	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS2	0.002	0.003	0.005	0.010	0.018	0.046	0.098	0.161	0.206	0.139	0.5	0.065	0.033	0.033	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS2	0.001	0.002	0.003	0.005	0.023	0.055	0.102	0.153	0.192	0.202	0.5	0.069	0.034	0.036	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS3	0.010	0.015	0.024	0.036	0.057	0.081	0.106	0.136	0.161	0.174	0.5	0.078	0.039	0.039	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS3	0.009	0.013	0.020	0.027	0.035	0.053	0.087	0.152	0.204	0.208	0.5	0.077	0.038	0.038	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS3	0.005	0.006	0.010	0.019	0.025	0.035	0.054	0.072	0.087	0.094	0.5	0.038	0.019	0.020	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS4	0.010	0.011	0.012	0.016	0.022	0.032	0.041	0.055	0.082	0.104	0.5	0.037	0.019	0.019
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS4	0.019	0.026	0.025	0.031	0.039	0.042	0.040	0.041	0.053	0.076	0.5	0.037	0.019	0.019
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS4	0.011	0.012	0.010	0.016	0.023	0.039	0.053	0.054	0.081	0.107	0.5	0.038	0.019	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS5	0.011	0.015	0.023	0.035	0.065	0.086	0.094	0.095	0.101	0.109	0.5	0.061	0.031	0.031
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.016	0.022	0.029	0.039	0.055	0.063	0.058	0.066	0.098	0.5	0.043	0.021	0.021
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS5	0.003	0.004	0.005	0.016	0.025	0.033	0.036	0.037	0.038	0.051	0.5	0.023	0.012	0.012
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.020	0.020	0.030	0.040	0.050	0.060	0.080	0.090	0.5	0.040	0.020	0.020
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.030	0.030	0.040	0.050	0.060	0.080	0.090	0.120	0.5	0.050	0.025	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.050	0.090	0.100	0.5	0.036	0.018	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.032	0.034	0.030	0.036	0.060	0.109	0.180	0.190	0.254	0.231	0.5	0.112	0.056	0.057
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.019	0.014	0.019	0.028	0.048	0.078	0.108	0.135	0.150	0.118	0.5	0.068	0.034	0.034
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.019	0.015	0.015	0.028	0.059	0.101	0.154	0.192	0.232	0.272	0.5	0.101	0.051	0.052

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.000	0.000	0.010	0.010	0.010	0.010	0.020	0.020	0.030	0.030	0.5	0.014	0.007	0.007
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.010	0.020	0.020	0.020	0.020	0.020	0.030	0.050	0.070	0.080	0.5	0.032	0.016	0.016
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.5	0.014	0.007	0.007
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.043	0.050	0.042	0.045	0.057	0.059	0.050	0.045	0.058	0.086	0.5	0.052	0.026	0.026
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.038	0.042	0.032	0.035	0.044	0.037	0.027	0.020	0.023	0.042	0.5	0.032	0.016	0.016
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.028	0.023	0.013	0.026	0.027	0.030	0.033	0.041	0.067	0.098	0.5	0.036	0.018	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.000	0.000	0.010	0.010	0.030	0.050	0.060	0.070	0.070	0.090	0.5	0.038	0.019	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.000	0.010	0.010	0.020	0.030	0.040	0.050	0.040	0.030	0.050	0.5	0.027	0.013	0.013
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.000	0.000	0.010	0.010	0.020	0.030	0.030	0.030	0.020	0.030	0.5	0.017	0.008	0.009
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.020	0.030	0.040	0.050	0.070	0.080	0.110	0.120	0.5	0.052	0.026	0.026
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.110	0.5	0.049	0.025	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.030	0.040	0.050	0.050	0.070	0.120	0.130	0.5	0.049	0.025	0.025

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.000	0.000	0.010	0.010	0.020	0.030	0.050	0.070	0.070	0.060	0.5	0.031	0.016	0.016		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.000	0.000	0.000	0.010	0.010	0.020	0.040	0.040	0.050	0.060	0.5	0.022	0.011	0.011		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.000	0.000	0.000	0.010	0.010	0.020	0.040	0.050	0.050	0.060	0.5	0.022	0.011	0.012		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.035	0.039	0.058	0.071	0.076	0.092	0.106	0.123	0.149	0.174	0.5	0.090	0.045	0.045		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.050	0.056	0.071	0.069	0.067	0.075	0.099	0.159	0.226	0.136	0.5	0.096	0.048	0.048		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.044	0.047	0.065	0.080	0.075	0.081	0.095	0.118	0.140	0.165	0.5	0.085	0.042	0.044		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.047	0.053	0.045	0.051	0.064	0.066	0.058	0.053	0.067	0.098	0.5	0.058	0.029	0.029		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.049	0.056	0.042	0.051	0.065	0.053	0.041	0.030	0.033	0.060	0.5	0.046	0.023	0.023		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.036	0.029	0.019	0.034	0.043	0.047	0.050	0.062	0.093	0.143	0.5	0.052	0.026	0.027		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.000	0.000	0.010	0.010	0.030	0.060	0.070	0.080	0.080	0.100	0.5	0.043	0.021	0.022		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.000	0.010	0.020	0.030	0.040	0.060	0.060	0.050	0.040	0.070	0.5	0.036	0.018	0.018		
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.000	0.010	0.010	0.020	0.030	0.040	0.040	0.030	0.030	0.050	0.5	0.024	0.012	0.013		

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant. Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.060	0.070	0.5	0.028	0.014	0.014
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.020	0.030	0.040	0.040	0.050	0.070	0.090	0.110	0.5	0.046	0.023	0.023
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.030	0.030	0.040	0.050	0.070	0.090	0.140	0.5	0.046	0.023	0.024
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.031	0.029	0.025	0.029	0.051	0.092	0.152	0.211	0.228	0.206	0.5	0.102	0.051	0.052
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.019	0.014	0.018	0.027	0.045	0.074	0.108	0.137	0.163	0.121	0.5	0.069	0.034	0.034
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.017	0.011	0.012	0.022	0.049	0.083	0.126	0.017	0.199	0.235	0.5	0.072	0.036	0.037
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.032	0.036	0.051	0.057	0.061	0.076	0.094	0.114	0.130	0.151	0.5	0.078	0.039	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.039	0.045	0.058	0.054	0.049	0.054	0.072	0.119	0.179	0.197	0.5	0.082	0.041	0.041
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.047	0.048	0.059	0.069	0.057	0.064	0.082	0.111	0.130	0.153	0.5	0.076	0.038	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.043	0.050	0.041	0.042	0.054	0.057	0.046	0.043	0.054	0.081	0.5	0.050	0.025	0.025
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.046	0.050	0.036	0.042	0.048	0.041	0.030	0.021	0.025	0.045	0.5	0.036	0.018	0.018
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.035	0.027	0.017	0.031	0.036	0.038	0.040	0.054	0.083	0.107	0.5	0.044	0.022	0.023

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.1 (Continued)**  
**UHF R1 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.003	0.008	0.009	0.016	0.031	0.043	0.059	0.063	0.069	0.084	0.5	0.037	0.019	0.019
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.013	0.015	0.021	0.030	0.043	0.049	0.042	0.040	0.057	0.5	0.030	0.015	0.015
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.007	0.008	0.013	0.022	0.037	0.049	0.048	0.040	0.035	0.046	0.5	0.028	0.014	0.015

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2**

**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.00		PB	0.209	0.099				
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.00	PB	0.229	0.083	0.312	0.5	0.208	0.10	0.10
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.01	PB	0.166	0.242	0.220	0.5	0.211	0.11	0.11
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.02	PB	0.095	0.161	0.108	0.5	0.124	0.06	0.07
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.03	PB	0.127	0.164	0.203	0.5	0.170	0.08	0.09
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.117	0.147	0.276	0.5	0.187	0.09	0.09
Roof	AN000131A01, 1/4 wave (136- 870MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.063	0.142	0.208	0.5	0.146	0.07	0.08

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**  
**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements Passenger/Operator (MC) Positions			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	380.0125	120.0	115.0	CW	E	1.00		PB	0.030	0.019				
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	393.0125	120.0	120.0	CW	E	1.00	PB	0.081	0.029	0.063	0.5	0.058	0.03	0.03
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	120.0	118.0	CW	E	1.01	PB	0.049	0.055	0.072	0.5	0.059	0.03	0.03
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	120.0	113.0	CW	E	1.02	PB	0.042	0.050	0.040	0.5	0.045	0.02	0.02
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	120.0	108.0	CW	E	1.03	PB	0.049	0.038	0.054	0.5	0.048	0.02	0.03

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table K.2 (Continued)**  
**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.00	PB	0.198	0.076	0.288	0.5	0.187	0.09	0.10
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.00	PB	0.248	0.081	0.337	0.5	0.222	0.11	0.11
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.01	PB	0.177	0.257	0.249	0.5	0.230	0.11	0.12
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.02	PB	0.096	0.173	0.068	0.5	0.115	0.06	0.06
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.03	PB	0.220	0.134	0.166	0.5	0.179	0.09	0.10
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.126	0.197	0.313	0.5	0.220	0.11	0.11
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PB	0.073	0.081	0.124	0.5	0.097	0.05	0.05
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.067	0.064	0.168	0.5	0.106	0.05	0.05
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.00	PB	0.237	0.098	0.367	0.5	0.234	0.12	0.12
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.00	PB	0.253	0.087	0.349	0.5	0.230	0.11	0.11
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.01	PB	0.170	0.234	0.237	0.5	0.216	0.11	0.11
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.02	PB	0.106	0.205	0.074	0.5	0.131	0.07	0.07
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.03	PB	0.211	0.149	0.185	0.5	0.187	0.09	0.10
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.124	0.169	0.308	0.5	0.208	0.10	0.11
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.082	0.125	0.195	0.5	0.142	0.07	0.07

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**

**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	1.02	PB	0.020	0.024	0.040	0.5	0.029	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	1.02	PB	0.018	0.012	0.039	0.5	0.023	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	1.02	PB	0.028	0.045	0.088	0.5	0.055	0.03	0.03
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	1.04	PB	0.028	0.045	0.073	0.5	0.051	0.03	0.03
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	1.05	PB	0.012	0.023	0.050	0.5	0.030	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	1.06	PB	0.024	0.050	0.098	0.5	0.061	0.03	0.03
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	1.02	PB	0.029	0.037	0.042	0.5	0.037	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	1.02	PB	0.020	0.042	0.065	0.5	0.043	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	1.02	PB	0.015	0.036	0.052	0.5	0.035	0.02	0.02
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.095	0.183	0.276	0.5	0.192	0.10	0.10
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PB	0.112	0.093	0.184	0.5	0.136	0.07	0.07
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.074	0.125	0.197	0.5	0.140	0.07	0.07

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**  
**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.098	0.153	0.180	0.5	0.149	0.07	0.08
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	1.05	PB	0.136	0.116	0.137	0.5	0.136	0.07	0.07
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.061	0.103	0.249	0.5	0.146	0.07	0.08
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	380.0125	120.0	115.0	CW	E	1.00	PF	0.138	0.084	0.070	0.5	0.097	0.05	0.05
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	393.0125	120.0	120.0	CW	E	1.00	PF	0.128	0.106	0.069	0.5	0.101	0.05	0.05
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	406.5000	120.0	118.0	CW	E	1.01	PF	0.066	0.046	0.081	0.5	0.065	0.03	0.03
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	422.0125	120.0	111.0	CW	E	1.02	PF	0.092	0.059	0.075	0.5	0.077	0.04	0.04
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	438.0125	120.0	108.0	CW	E	1.03	PF	0.094	0.047	0.077	0.5	0.075	0.04	0.04
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.092	0.159	0.089	0.5	0.118	0.06	0.06
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.055	0.049	0.092	0.5	0.069	0.03	0.04

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**  
**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3					Lower Trunk/ Bottom 1/3
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	380.0125	120.0	115.0	CW	E	1.03	PF	0.038	0.018	0.023	0.5	0.027	0.01	0.01
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	393.0125	120.0	120.0	CW	E	1.03	PF	0.046	0.022	0.017	0.5	0.029	0.01	0.01
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	120.0	118.0	CW	E	1.02	PF	0.015	0.017	0.014	0.5	0.016	0.01	0.01
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	120.0	113.0	CW	E	1.02	PF	0.035	0.033	0.026	0.5	0.032	0.02	0.02
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	120.0	108.0	CW	E	1.02	PF	0.033	0.013	0.033	0.5	0.027	0.01	0.01

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**

**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	380.0125	120.0	115.0	CW	E	1.00	PF	0.069	0.080	0.059	0.5	0.069	0.03	0.04
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	393.0125	120.0	120.0	CW	E	1.00	PF	0.142	0.144	0.085	0.5	0.124	0.06	0.06
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	120.0	118.0	CW	E	1.01	PF	0.061	0.059	0.065	0.5	0.062	0.03	0.03
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	120.0	111.0	CW	E	1.02	PF	0.078	0.051	0.080	0.5	0.071	0.04	0.04
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	120.0	108.0	CW	E	1.03	PF	0.076	0.061	0.142	0.5	0.096	0.05	0.05
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.058	0.112	0.085	0.5	0.088	0.04	0.04
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.035	0.052	0.048	0.5	0.047	0.02	0.02
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.053	0.024	0.129	0.5	0.073	0.04	0.04
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	380.0125	120.0	115.0	CW	E	1.00	PF	0.093	0.104	0.074	0.5	0.090	0.05	0.05
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	393.0125	120.0	120.0	CW	E	1.00	PF	0.110	0.141	0.074	0.5	0.108	0.05	0.05
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	120.0	118.0	CW	E	1.01	PF	0.064	0.059	0.054	0.5	0.060	0.03	0.03
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	120.0	111.0	CW	E	1.02	PF	0.100	0.101	0.147	0.5	0.118	0.06	0.06
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	120.0	108.0	CW	E	1.03	PF	0.084	0.059	0.154	0.5	0.102	0.05	0.06
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.080	0.161	0.131	0.5	0.129	0.06	0.07
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.062	0.049	0.163	0.5	0.097	0.05	0.05

Notes:

MPE calculations are defined in section 15.0

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**Table K.2 (Continued)**

**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	1.02	PF	0.019	0.034	0.013	0.5	0.022	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	1.02	PF	0.020	0.027	0.016	0.5	0.021	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	1.02	PF	0.007	0.006	0.002	0.5	0.005	0.00	0.00
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	1.04	PF	0.016	0.020	0.018	0.5	0.019	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	1.05	PF	0.013	0.013	0.017	0.5	0.015	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	1.06	PF	0.019	0.012	0.030	0.5	0.022	0.01	0.01
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	1.02	PF	0.022	0.038	0.025	0.5	0.029	0.01	0.01
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	1.02	PF	0.032	0.034	0.032	0.5	0.033	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	1.02	PF	0.011	0.009	0.019	0.5	0.013	0.01	0.01
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.106	0.096	0.133	0.5	0.116	0.06	0.06
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.039	0.093	0.097	0.5	0.080	0.04	0.04
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.064	0.046	0.113	0.5	0.079	0.04	0.04

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table K.2 (Continued)**  
**UHF R1 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.087	0.186	0.115	0.5	0.135	0.07	0.07
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.062	0.085	0.093	0.5	0.084	0.04	0.04
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.089	0.033	0.066	0.5	0.066	0.03	0.03

Notes:

MPE calculations are defined in section 15.0  
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**Appendix L – MPE Measurement Results for LMR UHF R2**



**Table L.1**

**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.060	0.060	0.110	0.140	0.170	0.140	0.120	0.110	0.140	0.210	0.5	0.122	0.061	0.062
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.060	0.070	0.100	0.110	0.100	0.090	0.080	0.070	0.110	0.170	0.5	0.089	0.045	0.046
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS1	0.060	0.070	0.090	0.100	0.110	0.100	0.100	0.120	0.180	0.190	0.5	0.101	0.050	0.051
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS1	0.010	0.020	0.030	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.5	0.030	0.015	0.015
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.020	0.030	0.040	0.040	0.050	0.050	0.040	0.040	0.030	0.050	0.5	0.034	0.017	0.017
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	0.86	BS1	0.011	0.014	0.018	0.026	0.027	0.023	0.021	0.020	0.019	0.016	0.5	0.017	0.008	0.008
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.034	0.028	0.026	0.028	0.042	0.065	0.091	0.113	0.121	0.113	0.5	0.064	0.032	0.032
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.023	0.016	0.022	0.027	0.043	0.060	0.075	0.071	0.067	0.097	0.5	0.047	0.023	0.024
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS2	0.020	0.010	0.030	0.040	0.060	0.090	0.110	0.100	0.090	0.110	0.5	0.059	0.030	0.030
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS2	0.000	0.000	0.010	0.020	0.030	0.030	0.040	0.050	0.040	0.040	0.5	0.023	0.011	0.011
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.010	0.010	0.020	0.020	0.040	0.060	0.060	0.050	0.040	0.050	0.5	0.031	0.015	0.016
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.020	0.030	0.030	0.030	0.020	0.020	0.020	0.5	0.015	0.008	0.008

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.038	0.045	0.059	0.056	0.046	0.040	0.039	0.049	0.058	0.065	0.5	0.048	0.024	0.024	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.042	0.039	0.046	0.045	0.038	0.041	0.048	0.055	0.054	0.056	0.5	0.043	0.022	0.022	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS3	0.050	0.050	0.060	0.060	0.060	0.060	0.060	0.070	0.090	0.100	0.5	0.059	0.030	0.030	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS3	0.010	0.010	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.030	0.5	0.017	0.008	0.008	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.020	0.020	0.030	0.030	0.030	0.030	0.020	0.020	0.010	0.020	0.5	0.020	0.010	0.010	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	0.86	BS3	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.5	0.009	0.004	0.004	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.037	0.039	0.031	0.032	0.037	0.033	0.026	0.015	0.018	0.027	0.5	0.029	0.014	0.014	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.023	0.022	0.015	0.025	0.024	0.019	0.012	0.013	0.020	0.036	0.5	0.019	0.010	0.010	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS4	0.026	0.025	0.029	0.044	0.046	0.031	0.015	0.011	0.017	0.033	0.5	0.025	0.012	0.013	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS4	0.010	0.009	0.010	0.016	0.022	0.020	0.015	0.008	0.006	0.012	0.5	0.011	0.006	0.006	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.014	0.010	0.013	0.021	0.019	0.013	0.007	0.006	0.028	0.016	0.5	0.013	0.006	0.006	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	0.86	BS4	0.004	0.002	0.003	0.006	0.009	0.008	0.006	0.005	0.004	0.006	0.5	0.005	0.002	0.002	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.002	0.003	0.005	0.008	0.017	0.023	0.026	0.021	0.018	0.023	0.5	0.014	0.007	0.007	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.006	0.004	0.009	0.015	0.025	0.029	0.025	0.018	0.011	0.013	0.5	0.014	0.007	0.007	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS5	0.003	0.004	0.009	0.014	0.029	0.028	0.022	0.012	0.010	0.020	0.5	0.014	0.007	0.007	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS5	0.001	0.002	0.004	0.008	0.012	0.015	0.012	0.006	0.003	0.007	0.5	0.006	0.003	0.003	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.001	0.004	0.006	0.014	0.018	0.017	0.012	0.006	0.005	0.009	0.5	0.008	0.004	0.004	
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	0.86	BS5	0.001	0.002	0.004	0.008	0.010	0.009	0.006	0.003	0.004	0.008	0.5	0.005	0.002	0.002	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.050	0.060	0.080	0.130	0.180	0.220	0.250	0.340	0.410	0.400	0.5	0.206	0.103	0.104	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.055	0.077	0.114	0.138	0.165	0.163	0.188	0.176	0.234	0.311	0.5	0.154	0.077	0.077	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.030	0.030	0.060	0.090	0.110	0.120	0.150	0.220	0.290	0.320	0.5	0.132	0.066	0.068	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.031	0.033	0.032	0.039	0.068	0.113	0.171	0.178	0.230	0.195	0.5	0.106	0.053	0.053	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.024	0.022	0.026	0.035	0.065	0.110	0.155	0.196	0.147	0.118	0.5	0.085	0.043	0.043	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.016	0.017	0.019	0.026	0.047	0.076	0.113	0.149	0.169	0.196	0.5	0.077	0.039	0.040	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.031	0.034	0.051	0.062	0.067	0.079	0.092	0.111	0.133	0.149	0.5	0.078	0.039	0.040
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.052	0.061	0.083	0.089	0.082	0.090	0.113	0.164	0.229	0.258	0.5	0.116	0.058	0.058
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.030	0.035	0.045	0.054	0.052	0.059	0.076	0.092	0.110	0.113	0.5	0.062	0.031	0.032
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.051	0.062	0.054	0.056	0.068	0.069	0.061	0.059	0.073	0.107	0.5	0.064	0.032	0.032
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.060	0.061	0.037	0.043	0.058	0.054	0.045	0.033	0.041	0.070	0.5	0.048	0.024	0.024
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.031	0.026	0.016	0.032	0.042	0.043	0.044	0.045	0.073	0.123	0.5	0.044	0.022	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.005	0.006	0.011	0.021	0.032	0.051	0.059	0.060	0.064	0.078	0.5	0.038	0.019	0.019
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.016	0.020	0.028	0.032	0.049	0.067	0.076	0.070	0.067	0.095	0.5	0.049	0.025	0.025
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.005	0.006	0.008	0.016	0.023	0.032	0.038	0.033	0.030	0.038	0.5	0.021	0.011	0.011

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.056	0.060	0.096	0.134	0.181	0.220	0.262	0.324	0.360	0.338	0.5	0.197	0.099	0.099
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.049	0.052	0.085	0.112	0.146	0.171	0.196	0.291	0.384	0.426	0.5	0.178	0.089	0.092
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS1	0.050	0.070	0.090	0.100	0.140	0.170	0.250	0.380	0.480	0.450	0.5	0.196	0.098	0.100
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS1	0.010	0.020	0.030	0.040	0.050	0.070	0.100	0.130	0.150	0.120	0.5	0.063	0.031	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.020	0.030	0.030	0.030	0.040	0.060	0.070	0.090	0.110	0.110	0.5	0.051	0.025	0.025
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS1	0.010	0.010	0.020	0.030	0.030	0.040	0.050	0.070	0.080	0.070	0.5	0.035	0.018	0.018
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.040	0.040	0.040	0.060	0.100	0.150	0.190	0.210	0.310	0.280	0.5	0.138	0.069	0.069
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.020	0.020	0.020	0.030	0.080	0.120	0.160	0.200	0.220	0.250	0.5	0.104	0.052	0.054
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS2	0.020	0.020	0.030	0.040	0.070	0.120	0.190	0.240	0.280	0.290	0.5	0.117	0.059	0.059
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS2	0.000	0.000	0.010	0.010	0.030	0.050	0.090	0.140	0.150	0.013	0.5	0.043	0.021	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.020	0.040	0.060	0.080	0.100	0.110	0.110	0.5	0.046	0.023	0.023
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.010	0.030	0.040	0.050	0.060	0.060	0.060	0.5	0.028	0.014	0.014

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.020	0.040	0.060	0.070	0.070	0.090	0.100	0.130	0.160	0.180	0.5	0.089	0.045	0.045
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.040	0.050	0.060	0.060	0.050	0.050	0.080	0.120	0.120	0.140	0.5	0.072	0.036	0.037
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS3	0.040	0.040	0.060	0.070	0.080	0.100	0.130	0.180	0.220	0.240	0.5	0.104	0.052	0.053
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS3	0.010	0.010	0.020	0.020	0.030	0.030	0.040	0.050	0.060	0.060	0.5	0.029	0.014	0.015
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.010	0.020	0.030	0.030	0.030	0.030	0.030	0.040	0.040	0.040	0.5	0.026	0.013	0.013
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS3	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.050	0.050	0.5	0.022	0.011	0.011
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.046	0.057	0.051	0.053	0.063	0.060	0.050	0.048	0.057	0.090	0.5	0.056	0.028	0.028
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.032	0.028	0.016	0.030	0.043	0.051	0.053	0.061	0.091	0.146	0.5	0.051	0.026	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS4	0.030	0.030	0.040	0.060	0.070	0.060	0.050	0.050	0.070	0.110	0.5	0.051	0.026	0.026
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS4	0.010	0.010	0.010	0.020	0.040	0.040	0.030	0.030	0.030	0.060	0.5	0.024	0.012	0.012
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.010	0.010	0.010	0.020	0.020	0.010	0.010	0.010	0.020	0.050	0.5	0.015	0.007	0.007
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS4	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.5	0.007	0.003	0.003

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.008	0.009	0.013	0.017	0.036	0.053	0.065	0.067	0.069	0.091	0.5	0.042	0.021	0.021
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.007	0.009	0.013	0.021	0.030	0.041	0.047	0.040	0.035	0.051	0.5	0.027	0.014	0.014
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS5	0.000	0.000	0.010	0.020	0.030	0.040	0.040	0.030	0.040	0.060	0.5	0.024	0.012	0.012
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS5	0.000	0.000	0.000	0.000	0.010	0.020	0.020	0.010	0.020	0.030	0.5	0.010	0.005	0.005
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.030	0.5	0.008	0.004	0.004
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS5	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.030	0.5	0.007	0.003	0.003
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.011	0.006	0.005	0.004	0.003	0.026	0.098	0.240	0.379	0.373	0.5	0.111	0.056	0.056
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.015	0.014	0.015	0.013	0.020	0.054	0.128	0.279	0.432	0.179	0.5	0.109	0.055	0.055
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.012	0.008	0.010	0.014	0.029	0.080	0.167	0.335	0.488	0.487	0.5	0.152	0.076	0.078
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.000	0.000	0.000	0.000	0.000	0.030	0.100	0.230	0.340	0.370	0.5	0.104	0.052	0.052
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.000	0.000	0.000	0.010	0.030	0.030	0.090	0.190	0.300	0.330	0.5	0.093	0.047	0.047
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.000	0.000	0.000	0.010	0.030	0.070	0.140	0.250	0.330	0.360	0.5	0.111	0.055	0.057

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.001	0.001	0.003	0.008	0.024	0.050	0.083	0.123	0.163	0.146	0.5	0.058	0.029	0.029	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.005	0.004	0.003	0.007	0.020	0.051	0.112	0.211	0.312	0.182	0.5	0.086	0.043	0.043	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.006	0.007	0.010	0.020	0.031	0.051	0.082	0.121	0.164	0.177	0.5	0.062	0.031	0.032	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.001	0.003	0.010	0.017	0.026	0.038	0.055	0.088	0.129	0.128	0.5	0.048	0.024	0.024	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.007	0.011	0.015	0.022	0.037	0.050	0.060	0.075	0.097	0.124	0.5	0.047	0.024	0.024	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.010	0.012	0.009	0.021	0.040	0.062	0.094	0.126	0.175	0.199	0.5	0.070	0.035	0.036	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.003	0.006	0.014	0.025	0.034	0.043	0.049	0.064	0.092	0.136	0.5	0.045	0.023	0.023	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.010	0.018	0.024	0.033	0.047	0.069	0.089	0.128	0.171	0.5	0.057	0.028	0.028	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.003	0.003	0.005	0.017	0.030	0.047	0.056	0.065	0.081	0.110	0.5	0.039	0.019	0.020	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.010	0.010	0.010	0.020	0.040	0.070	0.100	0.110	0.5	0.038	0.019	0.019	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.010	0.010	0.010	0.010	0.030	0.060	0.120	0.160	0.170	0.5	0.056	0.028	0.028	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.010	0.010	0.010	0.020	0.030	0.040	0.050	0.060	0.5	0.023	0.012	0.012	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS2	0.003	0.006	0.007	0.015	0.035	0.079	0.158	0.211	0.298	0.259	0.5	0.104	0.052	0.052
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS2	0.002	0.003	0.005	0.010	0.018	0.046	0.098	0.161	0.206	0.139	0.5	0.065	0.033	0.033
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS2	0.001	0.002	0.003	0.005	0.023	0.055	0.102	0.153	0.192	0.202	0.5	0.069	0.034	0.036
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS3	0.010	0.015	0.024	0.036	0.057	0.081	0.106	0.136	0.161	0.174	0.5	0.078	0.039	0.039
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS3	0.009	0.013	0.020	0.027	0.035	0.053	0.087	0.152	0.204	0.208	0.5	0.077	0.038	0.038
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS3	0.005	0.006	0.010	0.019	0.025	0.035	0.054	0.072	0.087	0.094	0.5	0.038	0.019	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS4	0.010	0.011	0.012	0.016	0.022	0.032	0.041	0.055	0.082	0.104	0.5	0.037	0.019	0.019
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS4	0.019	0.026	0.025	0.031	0.039	0.042	0.040	0.041	0.053	0.076	0.5	0.037	0.019	0.019
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS4	0.011	0.012	0.010	0.016	0.023	0.039	0.053	0.054	0.081	0.107	0.5	0.038	0.019	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	0.97	BS5	0.011	0.015	0.023	0.035	0.065	0.086	0.094	0.095	0.101	0.109	0.5	0.061	0.031	0.031
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.016	0.022	0.029	0.039	0.055	0.063	0.058	0.066	0.098	0.5	0.043	0.021	0.021
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	0.93	BS5	0.003	0.004	0.005	0.016	0.025	0.033	0.036	0.037	0.038	0.051	0.5	0.023	0.012	0.012

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.020	0.020	0.030	0.040	0.050	0.060	0.080	0.090	0.5	0.040	0.020	0.020
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.030	0.030	0.040	0.050	0.060	0.080	0.090	0.120	0.5	0.050	0.025	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.050	0.090	0.100	0.5	0.036	0.018	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.032	0.034	0.030	0.036	0.060	0.109	0.180	0.190	0.254	0.231	0.5	0.112	0.056	0.057
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.019	0.014	0.019	0.028	0.048	0.078	0.108	0.135	0.150	0.118	0.5	0.068	0.034	0.034
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.019	0.015	0.015	0.028	0.059	0.101	0.154	0.192	0.232	0.272	0.5	0.101	0.051	0.052
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.000	0.000	0.010	0.010	0.010	0.010	0.020	0.020	0.030	0.030	0.5	0.014	0.007	0.007
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.010	0.020	0.020	0.020	0.020	0.020	0.030	0.050	0.070	0.080	0.5	0.032	0.016	0.016
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.5	0.014	0.007	0.007
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.043	0.050	0.042	0.045	0.057	0.059	0.050	0.045	0.058	0.086	0.5	0.052	0.026	0.026
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.038	0.042	0.032	0.035	0.044	0.037	0.027	0.020	0.023	0.042	0.5	0.032	0.016	0.016
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.028	0.023	0.013	0.026	0.027	0.030	0.033	0.041	0.067	0.098	0.5	0.036	0.018	0.019

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.000	0.000	0.010	0.010	0.030	0.050	0.060	0.070	0.070	0.090	0.5	0.038	0.019	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.000	0.010	0.010	0.020	0.030	0.040	0.050	0.040	0.030	0.050	0.5	0.027	0.013	0.013
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.000	0.000	0.010	0.010	0.020	0.030	0.030	0.030	0.020	0.030	0.5	0.017	0.008	0.009
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.020	0.030	0.040	0.050	0.070	0.080	0.110	0.120	0.5	0.052	0.026	0.026
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.020	0.030	0.040	0.050	0.060	0.080	0.100	0.110	0.5	0.049	0.025	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.030	0.040	0.050	0.050	0.070	0.120	0.130	0.5	0.049	0.025	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS1	0.050	0.060	0.080	0.090	0.130	0.170	0.240	0.370	0.470	0.440	0.5	0.189	0.095	0.096
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS1	0.010	0.020	0.030	0.040	0.050	0.060	0.090	0.120	0.140	0.120	0.5	0.059	0.030	0.030
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.020	0.030	0.030	0.040	0.050	0.060	0.080	0.100	0.120	0.130	0.5	0.057	0.028	0.028
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS1	0.010	0.010	0.020	0.030	0.030	0.030	0.040	0.060	0.070	0.060	0.5	0.031	0.015	0.016

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.000	0.000	0.010	0.010	0.020	0.030	0.050	0.070	0.070	0.060	0.5	0.031	0.016	0.016
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.000	0.000	0.000	0.010	0.010	0.020	0.040	0.040	0.050	0.060	0.5	0.022	0.011	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.000	0.000	0.000	0.010	0.010	0.020	0.040	0.050	0.050	0.060	0.5	0.022	0.011	0.012
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS2	0.020	0.020	0.030	0.040	0.070	0.120	0.190	0.240	0.280	0.290	0.5	0.117	0.059	0.059
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS2	0.000	0.000	0.010	0.010	0.030	0.050	0.090	0.130	0.150	0.130	0.5	0.052	0.026	0.026
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.010	0.010	0.020	0.040	0.070	0.090	0.110	0.130	0.130	0.5	0.052	0.026	0.026
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.010	0.020	0.030	0.040	0.050	0.050	0.050	0.5	0.022	0.011	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.035	0.039	0.058	0.071	0.076	0.092	0.106	0.123	0.149	0.174	0.5	0.090	0.045	0.045
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.050	0.056	0.071	0.069	0.067	0.075	0.099	0.159	0.226	0.136	0.5	0.096	0.048	0.048
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.044	0.047	0.065	0.080	0.075	0.081	0.095	0.118	0.140	0.165	0.5	0.085	0.042	0.044
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS3	0.040	0.040	0.060	0.070	0.080	0.100	0.130	0.180	0.220	0.230	0.5	0.104	0.052	0.053
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS3	0.010	0.010	0.020	0.020	0.030	0.030	0.030	0.050	0.060	0.060	0.5	0.028	0.014	0.014
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.010	0.020	0.030	0.030	0.030	0.030	0.040	0.040	0.050	0.050	0.5	0.028	0.014	0.014
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS3	0.010	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.040	0.5	0.018	0.009	0.009

Notes:

MPE calculations are defined in section 15.0  
Blue fonts: Frequencies not regulated by FCC.

Table L.1 (Continued)

UHF R2 band - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.047	0.053	0.045	0.051	0.064	0.066	0.058	0.053	0.067	0.098	0.5	0.058	0.029	0.029
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.049	0.056	0.042	0.051	0.065	0.053	0.041	0.030	0.033	0.060	0.5	0.046	0.023	0.023
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.036	0.029	0.019	0.034	0.043	0.047	0.050	0.062	0.093	0.143	0.5	0.052	0.026	0.027
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS4	0.030	0.030	0.040	0.060	0.070	0.050	0.040	0.040	0.070	0.110	0.5	0.049	0.024	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS4	0.010	0.010	0.010	0.020	0.030	0.040	0.030	0.020	0.030	0.050	0.5	0.022	0.011	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.010	0.010	0.010	0.020	0.020	0.020	0.010	0.010	0.020	0.050	0.5	0.015	0.008	0.008
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS4	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.020	0.5	0.006	0.003	0.003
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.000	0.000	0.010	0.010	0.030	0.060	0.070	0.080	0.080	0.100	0.5	0.043	0.021	0.022
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.000	0.010	0.020	0.030	0.040	0.060	0.060	0.050	0.040	0.070	0.5	0.036	0.018	0.018
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.000	0.010	0.010	0.020	0.030	0.040	0.040	0.030	0.030	0.050	0.5	0.024	0.012	0.013
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	0.90	BS5	0.000	0.010	0.010	0.020	0.050	0.070	0.060	0.050	0.050	0.080	0.5	0.036	0.018	0.018
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	0.87	BS5	0.000	0.000	0.000	0.000	0.010	0.020	0.020	0.010	0.010	0.030	0.5	0.009	0.004	0.004
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.000	0.000	0.000	0.010	0.020	0.020	0.020	0.010	0.010	0.030	0.5	0.010	0.005	0.005
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	0.86	BS5	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.020	0.040	0.5	0.009	0.004	0.004

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	0.93	BS1	0.009	0.008	0.017	0.038	0.079	0.143	0.237	0.353	0.418	0.351	0.5	0.154	0.077	0.080
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	0.90	BS1	0.008	0.007	0.014	0.025	0.063	0.142	0.216	0.401	0.441	0.336	0.5	0.149	0.074	0.076
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS1	0.003	0.005	0.007	0.008	0.016	0.033	0.057	0.080	0.084	0.065	0.5	0.032	0.016	0.016
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	0.93	BS2	0.000	0.000	0.010	0.030	0.070	0.120	0.180	0.240	0.250	0.220	0.5	0.104	0.052	0.054
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	0.90	BS2	0.000	0.000	0.010	0.020	0.040	0.110	0.200	0.280	0.310	0.290	0.5	0.113	0.057	0.058
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS2	0.000	0.000	0.000	0.000	0.010	0.020	0.050	0.070	0.080	0.070	0.5	0.026	0.013	0.013
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	0.93	BS3	0.010	0.020	0.030	0.040	0.050	0.070	0.100	0.130	0.140	0.120	0.5	0.066	0.033	0.034
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	0.90	BS3	0.010	0.010	0.030	0.050	0.070	0.100	0.130	0.170	0.180	0.160	0.5	0.082	0.041	0.042
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS3	0.000	0.000	0.000	0.010	0.010	0.020	0.030	0.040	0.040	0.030	0.5	0.016	0.008	0.008
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	0.93	BS4	0.020	0.020	0.030	0.040	0.050	0.060	0.060	0.070	0.110	0.170	0.5	0.059	0.029	0.030
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	0.90	BS4	0.020	0.020	0.040	0.060	0.070	0.060	0.050	0.050	0.080	0.120	0.5	0.051	0.026	0.026
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS4	0.000	0.000	0.000	0.010	0.010	0.020	0.020	0.020	0.020	0.030	0.5	0.011	0.006	0.006

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	0.93	BS5	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.050	0.060	0.070	0.5	0.020	0.010	0.010
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	0.90	BS5	0.000	0.000	0.000	0.000	0.010	0.020	0.020	0.020	0.020	0.030	0.5	0.011	0.005	0.005
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS5	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.020	0.5	0.005	0.003	0.003
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	0.93	BS1	0.040	0.050	0.090	0.110	0.130	0.130	0.170	0.250	0.360	0.410	0.5	0.162	0.081	0.084
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS1	0.050	0.060	0.080	0.090	0.120	0.150	0.220	0.340	0.470	0.450	0.5	0.183	0.091	0.093
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS1	0.010	0.020	0.030	0.030	0.040	0.050	0.070	0.100	0.120	0.110	0.5	0.050	0.025	0.026
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.020	0.020	0.020	0.030	0.040	0.060	0.070	0.080	0.110	0.120	0.5	0.049	0.025	0.025
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	0.93	BS2	0.020	0.010	0.020	0.030	0.060	0.100	0.140	0.180	0.210	0.250	0.5	0.095	0.047	0.049
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS2	0.020	0.010	0.030	0.030	0.060	0.110	0.180	0.230	0.250	0.280	0.5	0.108	0.054	0.055
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS2	0.000	0.000	0.010	0.010	0.020	0.040	0.070	0.110	0.130	0.120	0.5	0.044	0.022	0.022
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.020	0.030	0.060	0.080	0.100	0.110	0.120	0.5	0.046	0.023	0.023

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	0.93	BS3	0.040	0.040	0.040	0.050	0.060	0.070	0.080	0.110	0.130	0.150	0.5	0.072	0.036	0.037
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS3	0.040	0.040	0.060	0.060	0.070	0.090	0.110	0.150	0.190	0.220	0.5	0.093	0.046	0.047
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS3	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.050	0.050	0.5	0.023	0.011	0.011
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.010	0.010	0.020	0.020	0.030	0.030	0.040	0.030	0.040	0.040	0.5	0.023	0.012	0.012
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	0.93	BS4	0.020	0.020	0.020	0.020	0.030	0.030	0.030	0.030	0.050	0.080	0.5	0.031	0.015	0.016
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS4	0.030	0.030	0.040	0.060	0.070	0.050	0.040	0.040	0.060	0.100	0.5	0.047	0.023	0.024
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS4	0.000	0.000	0.000	0.020	0.030	0.030	0.020	0.020	0.020	0.040	0.5	0.016	0.008	0.008
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.000	0.000	0.010	0.020	0.010	0.010	0.010	0.010	0.020	0.040	0.5	0.011	0.006	0.006
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	0.93	BS5	0.007	0.009	0.012	0.018	0.027	0.038	0.045	0.042	0.042	0.056	0.5	0.028	0.014	0.014
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS5	0.006	0.007	0.015	0.021	0.042	0.046	0.038	0.028	0.033	0.062	0.5	0.027	0.013	0.014
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS5	0.001	0.001	0.004	0.009	0.016	0.021	0.019	0.013	0.014	0.024	0.5	0.011	0.005	0.005
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.001	0.003	0.005	0.011	0.016	0.017	0.016	0.013	0.015	0.029	0.5	0.011	0.005	0.005

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS1	0.000	0.000	0.010	0.020	0.030	0.050	0.100	0.130	0.140	0.110	0.5	0.052	0.026	0.026
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	0.86	BS1	0.000	0.000	0.010	0.020	0.040	0.070	0.110	0.140	0.160	0.130	0.5	0.058	0.029	0.029
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	0.86	BS1	0.000	0.010	0.010	0.010	0.030	0.050	0.080	0.120	0.130	0.110	0.5	0.047	0.024	0.024
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS2	0.000	0.000	0.000	0.010	0.020	0.040	0.070	0.110	0.120	0.110	0.5	0.042	0.021	0.021
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	0.86	BS2	0.000	0.000	0.000	0.000	0.020	0.050	0.080	0.100	0.110	0.120	0.5	0.041	0.021	0.021
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.000	0.000	0.010	0.020	0.050	0.080	0.110	0.120	0.120	0.5	0.044	0.022	0.022
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS3	0.000	0.000	0.010	0.010	0.020	0.030	0.050	0.060	0.060	0.050	0.5	0.026	0.013	0.013
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	0.86	BS3	0.000	0.000	0.010	0.020	0.020	0.040	0.060	0.070	0.080	0.070	0.5	0.032	0.016	0.016
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	0.86	BS3	0.000	0.010	0.010	0.020	0.020	0.030	0.030	0.040	0.040	0.050	0.5	0.022	0.011	0.011
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS4	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.030	0.040	0.050	0.5	0.021	0.011	0.011
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	0.86	BS4	0.000	0.000	0.000	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.5	0.013	0.006	0.006
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	0.86	BS4	0.000	0.000	0.000	0.010	0.010	0.010	0.020	0.020	0.030	0.050	0.5	0.013	0.006	0.006

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	0.88	BS5	0.003	0.006	0.009	0.011	0.015	0.020	0.023	0.025	0.033	0.053	0.5	0.017	0.009	0.009
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	0.86	BS5	0.003	0.005	0.007	0.014	0.024	0.032	0.031	0.032	0.043	0.058	0.5	0.021	0.011	0.011
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	0.86	BS5	0.003	0.003	0.004	0.007	0.013	0.015	0.016	0.017	0.020	0.035	0.5	0.011	0.006	0.006
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	0.88	BS1	0.012	0.007	0.004	0.005	0.007	0.009	0.035	0.088	0.137	0.107	0.5	0.036	0.018	0.018
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	0.86	BS1	0.004	0.002	0.003	0.004	0.006	0.017	0.054	0.113	0.164	0.159	0.5	0.045	0.023	0.023
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.008	0.007	0.004	0.003	0.005	0.020	0.048	0.096	0.135	0.124	0.5	0.039	0.019	0.019
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	0.88	BS2	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.060	0.110	0.120	0.5	0.028	0.014	0.014
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	0.86	BS2	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.070	0.120	0.140	0.5	0.032	0.016	0.016
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.000	0.000	0.000	0.000	0.020	0.060	0.120	0.160	0.160	0.5	0.045	0.022	0.022
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	0.88	BS3	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.050	0.060	0.070	0.5	0.019	0.010	0.010
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	0.86	BS3	0.000	0.000	0.000	0.000	0.000	0.020	0.040	0.070	0.080	0.080	0.5	0.025	0.012	0.013
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.000	0.000	0.000	0.010	0.020	0.030	0.040	0.050	0.060	0.070	0.5	0.024	0.012	0.012

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	0.88	BS4	0.000	0.000	0.000	0.000	0.000	0.010	0.020	0.030	0.040	0.050	0.5	0.013	0.007	0.007
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	0.86	BS4	0.000	0.000	0.000	0.000	0.000	0.010	0.010	0.020	0.030	0.040	0.5	0.009	0.005	0.005
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.000	0.000	0.000	0.010	0.020	0.020	0.030	0.040	0.060	0.080	0.5	0.022	0.011	0.011
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	0.88	BS5	0.003	0.005	0.008	0.011	0.013	0.015	0.017	0.022	0.033	0.050	0.5	0.016	0.008	0.008
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	0.86	BS5	0.001	0.001	0.001	0.003	0.009	0.017	0.019	0.025	0.039	0.048	0.5	0.014	0.007	0.007
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.002	0.004	0.004	0.004	0.007	0.010	0.015	0.021	0.035	0.053	0.5	0.013	0.007	0.007
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS1	0.010	0.010	0.010	0.020	0.020	0.020	0.030	0.040	0.060	0.070	0.5	0.028	0.014	0.014
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS1	0.010	0.020	0.020	0.030	0.040	0.040	0.050	0.070	0.090	0.110	0.5	0.046	0.023	0.023
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS1	0.010	0.010	0.020	0.030	0.030	0.040	0.050	0.070	0.090	0.140	0.5	0.046	0.023	0.024
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS1	0.040	0.050	0.060	0.070	0.100	0.130	0.210	0.330	0.440	0.420	0.5	0.167	0.083	0.085
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS1	0.010	0.020	0.030	0.030	0.050	0.060	0.090	0.120	0.150	0.130	0.5	0.060	0.030	0.030
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS1	0.010	0.010	0.020	0.020	0.030	0.040	0.050	0.070	0.090	0.100	0.5	0.038	0.019	0.019

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS2	0.031	0.029	0.025	0.029	0.051	0.092	0.152	0.211	0.228	0.206	0.5	0.102	0.051	0.052
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS2	0.019	0.014	0.018	0.027	0.045	0.074	0.108	0.137	0.163	0.121	0.5	0.069	0.034	0.034
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS2	0.017	0.011	0.012	0.022	0.049	0.083	0.126	0.017	0.199	0.235	0.5	0.072	0.036	0.037
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS2	0.020	0.010	0.020	0.030	0.050	0.090	0.160	0.200	0.240	0.260	0.5	0.097	0.049	0.049
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS2	0.000	0.000	0.010	0.010	0.020	0.040	0.080	0.120	0.140	0.130	0.5	0.048	0.024	0.024
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS2	0.000	0.000	0.010	0.010	0.020	0.040	0.060	0.070	0.080	0.090	0.5	0.033	0.016	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS3	0.032	0.036	0.051	0.057	0.061	0.076	0.094	0.114	0.130	0.151	0.5	0.078	0.039	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS3	0.039	0.045	0.058	0.054	0.049	0.054	0.072	0.119	0.179	0.197	0.5	0.082	0.041	0.041
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS3	0.047	0.048	0.059	0.069	0.057	0.064	0.082	0.111	0.130	0.153	0.5	0.076	0.038	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS3	0.030	0.040	0.050	0.050	0.060	0.090	0.110	0.160	0.200	0.210	0.5	0.090	0.045	0.046
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS3	0.010	0.010	0.020	0.020	0.020	0.030	0.030	0.050	0.060	0.070	0.5	0.028	0.014	0.014
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS3	0.010	0.010	0.020	0.020	0.020	0.020	0.020	0.020	0.030	0.030	0.5	0.017	0.009	0.009

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.1 (Continued)**  
**UHF R2 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS4	0.043	0.050	0.041	0.042	0.054	0.057	0.046	0.043	0.054	0.081	0.5	0.050	0.025	0.025
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS4	0.046	0.050	0.036	0.042	0.048	0.041	0.030	0.021	0.025	0.045	0.5	0.036	0.018	0.018
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS4	0.035	0.027	0.017	0.031	0.036	0.038	0.040	0.054	0.083	0.107	0.5	0.044	0.022	0.023
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS4	0.020	0.020	0.030	0.050	0.060	0.050	0.040	0.030	0.050	0.080	0.5	0.039	0.019	0.020
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS4	0.000	0.000	0.010	0.010	0.030	0.030	0.020	0.020	0.020	0.040	0.5	0.016	0.008	0.008
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS4	0.000	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.030	0.5	0.008	0.004	0.004
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	0.97	BS5	0.003	0.008	0.009	0.016	0.031	0.043	0.059	0.063	0.069	0.084	0.5	0.037	0.019	0.019
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	0.95	BS5	0.006	0.013	0.015	0.021	0.030	0.043	0.049	0.042	0.040	0.057	0.5	0.030	0.015	0.015
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	0.93	BS5	0.007	0.008	0.013	0.022	0.037	0.049	0.048	0.040	0.035	0.046	0.5	0.028	0.014	0.015
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	0.90	BS5	0.003	0.004	0.006	0.011	0.024	0.030	0.028	0.023	0.022	0.034	0.5	0.017	0.008	0.008
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	0.87	BS5	0.001	0.001	0.001	0.003	0.007	0.011	0.010	0.008	0.009	0.015	0.5	0.006	0.003	0.003
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	0.86	BS5	0.001	0.001	0.002	0.005	0.010	0.009	0.008	0.007	0.009	0.016	0.5	0.006	0.003	0.003

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.117	0.147	0.276	0.5	0.187	0.09	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.063	0.142	0.208	0.5	0.146	0.07	0.08
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	1.07	PB	0.097	0.180	0.209	0.5	0.173	0.09	0.09
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	1.08	PB	0.082	0.035	0.060	0.5	0.064	0.03	0.03
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	1.08	PB	0.035	0.044	0.033	0.5	0.040	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	1.09	PB	0.017	0.036	0.020	0.5	0.027	0.01	0.01
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119	CW	E	1.04	PB	0.126	0.197	0.313	0.5	0.220	0.11	0.11
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120	CW	E	1.05	PB	0.073	0.081	0.124	0.5	0.097	0.05	0.05
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116	CW	E	1.06	PB	0.067	0.064	0.168	0.5	0.106	0.05	0.05

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.124	0.169	0.308	0.5	0.208	0.10	0.11
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.082	0.125	0.195	0.5	0.142	0.07	0.07
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	1.07	PB	0.106	0.200	0.254	0.5	0.200	0.10	0.10
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	1.08	PB	0.038	0.091	0.035	0.5	0.059	0.03	0.03
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	1.08	PB	0.036	0.033	0.030	0.5	0.036	0.02	0.02
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	1.09	PB	0.014	0.023	0.012	0.5	0.018	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	1.02	PB	0.020	0.024	0.040	0.5	0.029	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	1.02	PB	0.018	0.012	0.039	0.5	0.023	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	1.02	PB	0.028	0.045	0.088	0.5	0.055	0.03	0.03
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	1.04	PB	0.028	0.045	0.073	0.5	0.051	0.03	0.03
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	1.05	PB	0.012	0.023	0.050	0.5	0.030	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	1.06	PB	0.024	0.050	0.098	0.5	0.061	0.03	0.03

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**

**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	1.02	PB	0.029	0.037	0.042	0.5	0.037	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	1.02	PB	0.020	0.042	0.065	0.5	0.043	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	1.02	PB	0.015	0.036	0.052	0.5	0.035	0.02	0.02
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PB	0.095	0.183	0.276	0.5	0.192	0.10	0.10
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PB	0.112	0.093	0.184	0.5	0.136	0.07	0.07
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PB	0.074	0.125	0.197	0.5	0.140	0.07	0.07
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	1.07	PB	0.105	0.169	0.252	0.5	0.188	0.09	0.10
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	1.08	PB	0.043	0.086	0.054	0.5	0.066	0.03	0.03
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	1.08	PB	0.040	0.030	0.034	0.5	0.037	0.02	0.02
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	1.09	PB	0.015	0.027	0.014	0.5	0.020	0.01	0.01
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	1.06	PB	0.041	0.079	0.104	0.5	0.079	0.04	0.04
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	1.07	PB	0.034	0.045	0.126	0.5	0.073	0.04	0.04
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	1.08	PB	0.016	0.012	0.023	0.5	0.018	0.01	0.01

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table L.2 (Continued)**

**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	1.02	PB	0.018	0.042	0.077	0.5	0.047	0.02	0.02
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	1.02	PB	0.053	0.113	0.129	0.5	0.100	0.05	0.05
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	1.02	PB	0.038	0.048	0.071	0.5	0.053	0.03	0.03
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	1.02	PB	0.030	0.016	0.019	0.5	0.022	0.01	0.01
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	1.08	PB	0.019	0.018	0.031	0.5	0.024	0.01	0.01
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	1.08	PB	0.008	0.010	0.012	0.5	0.011	0.01	0.01
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	1.08	PB	0.008	0.003	0.006	0.5	0.006	0.00	0.00
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	1.08	PB	0.010	0.025	0.011	0.5	0.017	0.01	0.01
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	1.08	PB	0.007	0.010	0.007	0.5	0.009	0.00	0.00
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	1.08	PB	0.005	0.006	0.008	0.5	0.007	0.00	0.00

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.087	0.186	0.115	0.5	0.135	0.067	0.068
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.062	0.085	0.093	0.5	0.084	0.042	0.042
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.089	0.033	0.066	0.5	0.066	0.033	0.034
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	1.02	PF	0.054	0.077	0.094	0.5	0.077	0.038	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	1.02	PF	0.041	0.042	0.03	0.5	0.038	0.019	0.019
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	1.02	PF	0.052	0.061	0.035	0.5	0.050	0.025	0.025

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.092	0.159	0.089	0.5	0.118	0.06	0.06
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.055	0.049	0.092	0.5	0.069	0.03	0.04
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	482.5000	120.0	118.0	CW	E	1.07	PF	0.056	0.101	0.092	0.5	0.089	0.04	0.05
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	496.5000	48.0	47.4	CW	E	1.08	PF	0.056	0.047	0.037	0.5	0.050	0.03	0.03
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	511.9875	48.0	47.9	CW	E	1.08	PF	0.052	0.047	0.038	0.5	0.049	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	519.9875	30.0	29.9	CW	E	1.09	PF	0.046	0.029	0.017	0.5	0.033	0.02	0.02
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	120.0	119	CW	E	1.04	PF	0.058	0.112	0.085	0.5	0.088	0.04	0.04
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	120.0	120	CW	E	1.05	PF	0.035	0.052	0.048	0.5	0.047	0.02	0.02
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	120.0	116	CW	E	1.06	PF	0.053	0.024	0.129	0.5	0.073	0.04	0.04

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.080	0.161	0.131	0.5	0.129	0.06	0.07
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.062	0.049	0.163	0.5	0.097	0.05	0.05
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	120.0	118.0	CW	E	1.07	PF	0.099	0.107	0.152	0.5	0.128	0.06	0.06
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	47.4	CW	E	1.08	PF	0.051	0.037	0.047	0.5	0.049	0.02	0.02
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.9	CW	E	1.08	PF	0.054	0.046	0.037	0.5	0.049	0.02	0.02
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	519.9875	30.0	29.9	CW	E	1.09	PF	0.026	0.016	0.021	0.5	0.023	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	120.0	119.0	CW	E	1.02	PF	0.019	0.034	0.013	0.5	0.022	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	120.0	120.0	CW	E	1.02	PF	0.020	0.027	0.016	0.5	0.021	0.01	0.01
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	120.0	116.0	CW	E	1.02	PF	0.007	0.006	0.002	0.5	0.005	0.00	0.00
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	120.0	119.0	CW	E	1.04	PF	0.016	0.020	0.018	0.5	0.019	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	120.0	120.0	CW	E	1.05	PF	0.013	0.013	0.017	0.5	0.015	0.01	0.01
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	120.0	116.0	CW	E	1.06	PF	0.019	0.012	0.030	0.5	0.022	0.01	0.01

Notes:

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**Table L.2 (Continued)**

**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	120.0	119.0	CW	E	1.02	PF	0.022	0.038	0.025	0.5	0.029	0.01	0.01
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	120.0	120.0	CW	E	1.02	PF	0.032	0.034	0.032	0.5	0.033	0.02	0.02
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	120.0	116.0	CW	E	1.02	PF	0.011	0.009	0.019	0.5	0.013	0.01	0.01
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.106	0.096	0.133	0.5	0.116	0.06	0.06
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.039	0.093	0.097	0.5	0.080	0.04	0.04
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.064	0.046	0.113	0.5	0.079	0.04	0.04
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	120.0	118.0	CW	E	1.07	PF	0.080	0.098	0.096	0.5	0.098	0.05	0.05
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	47.4	CW	E	1.08	PF	0.044	0.059	0.018	0.5	0.044	0.02	0.02
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.9	CW	E	1.08	PF	0.047	0.035	0.031	0.5	0.041	0.02	0.02
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	519.9875	30.0	29.9	CW	E	1.09	PF	0.045	0.013	0.017	0.5	0.027	0.01	0.01
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	120.0	116.0	CW	E	1.06	PF	0.043	0.013	0.060	0.5	0.041	0.02	0.02
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	120.0	118.0	CW	E	1.07	PF	0.018	0.023	0.030	0.5	0.025	0.01	0.01
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	47.4	CW	E	1.08	PF	0.011	0.010	0.006	0.5	0.010	0.00	0.00

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**

**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	120.0	116.0	CW	E	1.02	PF	0.014	0.009	0.026	0.5	0.017	0.01	0.01
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	120.0	118.0	CW	E	1.02	PF	0.044	0.059	0.029	0.5	0.045	0.02	0.02
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	47.4	CW	E	1.02	PF	0.016	0.012	0.014	0.5	0.014	0.01	0.01
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.9	CW	E	1.02	PF	0.005	0.003	0.006	0.5	0.005	0.00	0.00
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	494.9875	48.0	47.4	CW	E	1.08	PF	0.014	0.013	0.017	0.5	0.016	0.01	0.01
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	503.0000	48.0	47.8	CW	E	1.08	PF	0.022	0.015	0.014	0.5	0.018	0.01	0.01
Roof	HAE4013A, 1/2 Wave (494-512MHz)	5.65	511.9875	48.0	47.9	CW	E	1.08	PF	0.009	0.005	0.008	0.5	0.008	0.00	0.00
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	494.9875	48.0	47.4	CW	E	1.08	PF	0.009	0.007	0.006	0.5	0.008	0.00	0.00
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	503.0000	48.0	47.8	CW	E	1.08	PF	0.018	0.015	0.006	0.5	0.014	0.01	0.01
Roof	RAE4016ARB, 5/8 Wave (494-512MHz)	7.15	511.9875	48.0	47.9	CW	E	1.08	PF	0.011	0.005	0.007	0.5	0.008	0.00	0.00

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table L.2 (Continued)**  
**UHF R2 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	120.0	119.0	CW	E	1.04	PF	0.087	0.186	0.115	0.5	0.135	0.067	0.068
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	120.0	120.0	CW	E	1.05	PF	0.062	0.085	0.093	0.5	0.084	0.042	0.042
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	120.0	116.0	CW	E	1.06	PF	0.089	0.033	0.066	0.5	0.066	0.033	0.034
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	120.0	118.0	CW	E	1.02	PF	0.054	0.077	0.094	0.5	0.077	0.038	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	47.4	CW	E	1.02	PF	0.041	0.042	0.03	0.5	0.038	0.019	0.019
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.9	CW	E	1.02	PF	0.052	0.061	0.035	0.5	0.050	0.025	0.025

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Appendix K – MPE Measurement Results for LMR 7/800 Band**



**Table M.1**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.		Probe Info.							MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)	
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm					200 cm
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS1	0.009	0.012	0.009	0.007	0.007	0.017	0.053	0.090	0.149	0.147	0.5	0.049	0.025	0.025
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS1	0.007	0.007	0.012	0.019	0.024	0.028	0.047	0.087	0.126	0.115	0.5	0.047	0.023	0.023
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS1	0.008	0.016	0.021	0.012	0.006	0.014	0.042	0.062	0.083	0.087	0.5	0.035	0.017	0.018
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS1	0.005	0.011	0.013	0.008	0.011	0.023	0.050	0.085	0.135	0.103	0.5	0.044	0.022	0.022
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS1	0.012	0.019	0.027	0.019	0.011	0.018	0.040	0.083	0.163	0.122	0.5	0.052	0.026	0.026
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS1	0.010	0.015	0.020	0.012	0.011	0.011	0.028	0.091	0.142	0.148	0.5	0.050	0.025	0.025
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS1	0.014	0.012	0.018	0.015	0.012	0.008	0.012	0.053	0.094	0.113	0.5	0.036	0.018	0.018
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS1	0.006	0.015	0.014	0.015	0.018	0.017	0.011	0.044	0.104	0.123	0.5	0.038	0.019	0.019
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS1	0.009	0.008	0.014	0.010	0.010	0.008	0.003	0.024	0.059	0.080	0.5	0.023	0.012	0.012
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS2	0.005	0.008	0.010	0.006	0.006	0.007	0.029	0.047	0.066	0.096	0.5	0.028	0.014	0.014
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS2	0.003	0.005	0.005	0.005	0.005	0.012	0.033	0.072	0.086	0.071	0.5	0.029	0.015	0.015
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS2	0.004	0.005	0.007	0.006	0.005	0.007	0.027	0.055	0.092	0.127	0.5	0.033	0.017	0.017
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS2	0.003	0.008	0.011	0.007	0.006	0.013	0.034	0.063	0.094	0.101	0.5	0.034	0.017	0.017
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS2	0.003	0.008	0.012	0.011	0.016	0.023	0.053	0.091	0.115	0.128	0.5	0.046	0.023	0.024
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS2	0.004	0.009	0.018	0.020	0.013	0.011	0.033	0.068	0.095	0.120	0.5	0.040	0.020	0.020
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS2	0.007	0.012	0.012	0.014	0.010	0.008	0.015	0.036	0.074	0.096	0.5	0.029	0.015	0.015
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS2	0.004	0.011	0.013	0.006	0.007	0.008	0.008	0.040	0.071	0.073	0.5	0.025	0.013	0.013
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS2	0.005	0.008	0.012	0.011	0.006	0.005	0.004	0.021	0.039	0.060	0.5	0.018	0.009	0.009

Notes:

MPE calculations are defined in section 15.0  
Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

		D.U.T. Info.						Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS3	0.005	0.007	0.006	0.012	0.008	0.008	0.016	0.032	0.050	0.057	0.5	0.020	0.010	0.010		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS3	0.015	0.011	0.008	0.006	0.006	0.009	0.018	0.031	0.036	0.039	0.5	0.018	0.009	0.009		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS3	0.006	0.006	0.001	0.006	0.016	0.018	0.023	0.050	0.064	0.057	0.5	0.024	0.012	0.013		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS3	0.006	0.009	0.007	0.009	0.008	0.007	0.017	0.031	0.050	0.065	0.5	0.021	0.010	0.010		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS3	0.010	0.013	0.004	0.006	0.006	0.010	0.025	0.048	0.058	0.074	0.5	0.025	0.013	0.013		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS3	0.007	0.006	0.006	0.004	0.006	0.009	0.022	0.035	0.057	0.065	0.5	0.022	0.011	0.011		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS3	0.007	0.008	0.006	0.009	0.004	0.004	0.013	0.028	0.049	0.068	0.5	0.020	0.010	0.010		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS3	0.007	0.009	0.004	0.002	0.003	0.003	0.011	0.025	0.042	0.058	0.5	0.017	0.009	0.009		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS3	0.005	0.011	0.008	0.002	0.001	0.002	0.004	0.012	0.024	0.042	0.5	0.012	0.006	0.006		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS4	0.002	0.002	0.002	0.004	0.005	0.005	0.005	0.011	0.023	0.033	0.5	0.009	0.005	0.005		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS4	0.003	0.003	0.006	0.006	0.006	0.005	0.010	0.015	0.018	0.023	0.5	0.009	0.005	0.005		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS4	0.003	0.001	0.001	0.004	0.010	0.012	0.015	0.021	0.032	0.036	0.5	0.013	0.007	0.007		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS4	0.003	0.001	0.003	0.003	0.010	0.010	0.013	0.026	0.051	0.055	0.5	0.017	0.009	0.009		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS4	0.003	0.003	0.002	0.002	0.003	0.005	0.013	0.032	0.044	0.050	0.5	0.016	0.008	0.008		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS4	0.002	0.002	0.005	0.007	0.007	0.010	0.016	0.020	0.039	0.050	0.5	0.016	0.008	0.008		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS4	0.002	0.002	0.002	0.003	0.003	0.005	0.008	0.018	0.037	0.042	0.5	0.013	0.006	0.006		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS4	0.002	0.001	0.001	0.001	0.002	0.003	0.006	0.010	0.022	0.024	0.5	0.007	0.004	0.004		
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS4	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.008	0.020	0.028	0.5	0.007	0.004	0.004		

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS5	0.001	0.001	0.001	0.001	0.004	0.009	0.010	0.016	0.025	0.028	0.5	0.009	0.005	0.005
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS5	0.001	0.001	0.001	0.001	0.004	0.012	0.014	0.019	0.033	0.042	0.5	0.013	0.006	0.006
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS5	0.001	0.001	0.001	0.001	0.001	0.002	0.003	0.007	0.015	0.038	0.5	0.007	0.003	0.004
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS5	0.001	0.001	0.001	0.002	0.005	0.008	0.009	0.014	0.025	0.028	0.5	0.009	0.005	0.005
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS5	0.001	0.001	0.001	0.001	0.003	0.008	0.011	0.012	0.033	0.042	0.5	0.011	0.006	0.006
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS5	0.001	0.001	0.001	0.002	0.006	0.006	0.018	0.027	0.038	0.049	0.5	0.015	0.008	0.008
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS5	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.004	0.014	0.030	0.5	0.006	0.003	0.003
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS5	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.030	0.5	0.005	0.002	0.002
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS5	0.001	0.001	0.001	0.001	0.001	0.002	0.005	0.007	0.015	0.024	0.5	0.006	0.003	0.003
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS1	0.006	0.010	0.010	0.008	0.017	0.031	0.051	0.062	0.105	0.111	0.5	0.041	0.020	0.021
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS1	0.005	0.006	0.010	0.026	0.039	0.045	0.052	0.060	0.070	0.087	0.5	0.040	0.020	0.020
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS1	0.006	0.011	0.018	0.018	0.016	0.026	0.046	0.050	0.057	0.066	0.5	0.031	0.016	0.016
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS1	0.004	0.007	0.013	0.012	0.018	0.036	0.050	0.060	0.086	0.082	0.5	0.037	0.018	0.018
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS1	0.008	0.012	0.018	0.022	0.020	0.029	0.042	0.057	0.096	0.088	0.5	0.039	0.020	0.020
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS1	0.008	0.010	0.018	0.015	0.014	0.027	0.043	0.070	0.095	0.114	0.5	0.042	0.021	0.021
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS1	0.009	0.010	0.012	0.011	0.016	0.029	0.042	0.067	0.078	0.091	0.5	0.038	0.019	0.019
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS1	0.002	0.009	0.012	0.011	0.020	0.055	0.076	0.087	0.089	0.121	0.5	0.050	0.025	0.025
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS1	0.009	0.006	0.010	0.010	0.016	0.030	0.042	0.057	0.075	0.098	0.5	0.037	0.018	0.018

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS2	0.003	0.005	0.009	0.007	0.012	0.019	0.036	0.037	0.042	0.069	0.5	0.024	0.012	0.012		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS2	0.005	0.005	0.009	0.007	0.013	0.020	0.034	0.055	0.056	0.050	0.5	0.025	0.013	0.013		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS2	0.003	0.004	0.005	0.006	0.010	0.017	0.029	0.036	0.056	0.082	0.5	0.025	0.012	0.013		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS2	0.001	0.005	0.010	0.013	0.019	0.025	0.036	0.043	0.056	0.055	0.5	0.026	0.013	0.013		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS2	0.001	0.005	0.007	0.010	0.020	0.033	0.048	0.053	0.065	0.061	0.5	0.030	0.015	0.015		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS2	0.003	0.006	0.013	0.022	0.026	0.031	0.051	0.061	0.063	0.082	0.5	0.036	0.018	0.018		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS2	0.003	0.010	0.010	0.010	0.020	0.031	0.039	0.044	0.048	0.068	0.5	0.029	0.015	0.015		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS2	0.003	0.006	0.010	0.007	0.010	0.029	0.036	0.051	0.072	0.066	0.5	0.030	0.015	0.015		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS2	0.003	0.008	0.011	0.014	0.018	0.029	0.046	0.051	0.050	0.068	0.5	0.031	0.016	0.016		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS3	0.007	0.008	0.011	0.019	0.014	0.009	0.010	0.022	0.031	0.041	0.5	0.017	0.008	0.009		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS3	0.016	0.014	0.013	0.010	0.011	0.012	0.021	0.027	0.025	0.025	0.5	0.017	0.009	0.009		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS3	0.009	0.011	0.004	0.012	0.016	0.018	0.021	0.038	0.043	0.040	0.5	0.021	0.010	0.011		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS3	0.008	0.010	0.007	0.014	0.013	0.011	0.018	0.023	0.027	0.038	0.5	0.017	0.008	0.008		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS3	0.009	0.012	0.007	0.009	0.011	0.015	0.024	0.028	0.027	0.040	0.5	0.018	0.009	0.009		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS3	0.007	0.007	0.009	0.011	0.014	0.017	0.030	0.023	0.032	0.039	0.5	0.019	0.010	0.010		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS3	0.006	0.009	0.007	0.014	0.017	0.017	0.024	0.025	0.032	0.046	0.5	0.020	0.010	0.010		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS3	0.006	0.011	0.007	0.007	0.011	0.011	0.023	0.033	0.037	0.049	0.5	0.020	0.010	0.010		
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS3	0.007	0.010	0.010	0.012	0.012	0.017	0.023	0.027	0.029	0.042	0.5	0.020	0.010	0.010		

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS4	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.003	0.005	0.008	0.5	0.002	0.001	0.001	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS4	0.001	0.001	0.002	0.002	0.001	0.001	0.002	0.003	0.004	0.006	0.5	0.002	0.001	0.001	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS4	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.002	0.006	0.006	0.5	0.002	0.001	0.001	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS4	0.001	0.001	0.001	0.002	0.004	0.002	0.002	0.006	0.011	0.012	0.5	0.004	0.002	0.002	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS4	0.001	0.001	0.001	0.001	0.001	0.002	0.004	0.008	0.011	0.008	0.5	0.004	0.002	0.002	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS4	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.006	0.007	0.5	0.003	0.001	0.001	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS4	0.001	0.001	0.001	0.003	0.003	0.003	0.005	0.011	0.014	0.011	0.5	0.005	0.003	0.003	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS4	0.001	0.001	0.001	0.002	0.003	0.003	0.004	0.010	0.011	0.006	0.5	0.004	0.002	0.002	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS4	0.001	0.001	0.002	0.002	0.002	0.003	0.004	0.004	0.008	0.006	0.5	0.003	0.002	0.002	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS5	0.001	0.001	0.002	0.005	0.009	0.013	0.011	0.011	0.019	0.023	0.5	0.009	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS5	0.001	0.001	0.002	0.005	0.009	0.012	0.013	0.015	0.025	0.038	0.5	0.012	0.006	0.006	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS5	0.001	0.002	0.004	0.007	0.007	0.007	0.006	0.006	0.013	0.034	0.5	0.009	0.004	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS5	0.001	0.002	0.003	0.007	0.010	0.010	0.009	0.012	0.021	0.022	0.5	0.010	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS5	0.001	0.003	0.004	0.005	0.008	0.01	0.009	0.009	0.024	0.030	0.5	0.010	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS5	0.001	0.001	0.002	0.008	0.012	0.014	0.017	0.025	0.035	0.033	0.5	0.015	0.008	0.008	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS5	0.001	0.002	0.003	0.004	0.007	0.010	0.010	0.012	0.021	0.024	0.5	0.010	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS5	0.001	0.001	0.004	0.008	0.01	0.015	0.011	0.012	0.019	0.035	0.5	0.012	0.006	0.006	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS5	0.001	0.001	0.001	0.004	0.006	0.006	0.009	0.017	0.033	0.036	0.5	0.012	0.006	0.006	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS1	0.002	0.000	0.002	0.001	0.000	0.005	0.022	0.052	0.104	0.123	0.5	0.031	0.015	0.016	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS1	0.000	0.000	0.001	0.003	0.002	0.005	0.022	0.056	0.084	0.096	0.5	0.027	0.013	0.013	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS1	0.000	0.002	0.003	0.004	0.004	0.007	0.026	0.046	0.070	0.069	0.5	0.023	0.011	0.012	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS1	0.000	0.000	0.003	0.005	0.005	0.020	0.050	0.095	0.109	0.088	0.5	0.037	0.019	0.019	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS1	0.002	0.002	0.007	0.018	0.021	0.028	0.061	0.100	0.120	0.099	0.5	0.046	0.023	0.023	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS1	0.003	0.004	0.012	0.020	0.022	0.052	0.094	0.142	0.157	0.098	0.5	0.061	0.031	0.031	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS1	0.005	0.011	0.010	0.015	0.025	0.059	0.111	0.134	0.108	0.087	0.5	0.058	0.029	0.029	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS1	0.004	0.011	0.016	0.017	0.020	0.055	0.121	0.142	0.122	0.091	0.5	0.062	0.031	0.031	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS1	0.006	0.008	0.007	0.016	0.038	0.079	0.092	0.090	0.075	0.038	0.5	0.047	0.023	0.023	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS2	0.000	0.001	0.001	0.001	0.001	0.003	0.010	0.022	0.04	0.064	0.5	0.014	0.007	0.007	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS2	0.000	0.000	0.000	0.000	0.002	0.005	0.014	0.033	0.042	0.046	0.5	0.014	0.007	0.007	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS2	0.000	0.000	0.000	0.001	0.002	0.007	0.019	0.036	0.062	0.076	0.5	0.020	0.010	0.010	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS2	0.001	0.001	0.000	0.006	0.011	0.018	0.036	0.061	0.073	0.065	0.5	0.027	0.014	0.014	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS2	0.001	0.001	0.002	0.004	0.013	0.033	0.068	0.094	0.095	0.085	0.5	0.040	0.020	0.020	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS2	0.002	0.006	0.004	0.014	0.033	0.048	0.075	0.088	0.089	0.077	0.5	0.044	0.022	0.022	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS2	0.004	0.018	0.016	0.012	0.030	0.051	0.077	0.078	0.068	0.061	0.5	0.043	0.021	0.022	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS2	0.009	0.011	0.022	0.017	0.017	0.055	0.093	0.103	0.075	0.060	0.5	0.048	0.024	0.024	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS2	0.003	0.010	0.011	0.015	0.033	0.069	0.070	0.063	0.061	0.049	0.5	0.040	0.020	0.020	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS3	0.00	0.00	0.00	0.00	0.00	0.001	0.002	0.004	0.006	0.008	0.5	0.002	0.001	0.001	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS3	0.00	0.00	0.00	0.00	0.00	0.001	0.003	0.006	0.009	0.011	0.5	0.003	0.001	0.001	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS3	0.00	0.00	0.00	0.00	0.001	0.003	0.006	0.009	0.010	0.012	0.5	0.004	0.002	0.002	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS3	0.00	0.00	0.00	0.001	0.005	0.010	0.014	0.017	0.020	0.021	0.5	0.009	0.004	0.004	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS3	0.001	0.002	0.002	0.001	0.002	0.006	0.013	0.014	0.016	0.016	0.5	0.007	0.004	0.004	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS3	0.003	0.003	0.002	0.005	0.008	0.013	0.018	0.020	0.019	0.017	0.5	0.011	0.005	0.006	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS3	0.003	0.005	0.002	0.003	0.010	0.014	0.020	0.022	0.022	0.017	0.5	0.012	0.006	0.006	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS3	0.004	0.007	0.009	0.007	0.012	0.020	0.030	0.029	0.024	0.014	0.5	0.016	0.008	0.008	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS3	0.003	0.005	0.005	0.006	0.007	0.008	0.018	0.019	0.015	0.017	0.5	0.011	0.005	0.005	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS4	0.001	0.001	0.001	0.001	0.002	0.004	0.008	0.012	0.016	0.018	0.5	0.006	0.003	0.003	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS4	0.001	0.001	0.001	0.001	0.002	0.004	0.007	0.011	0.010	0.013	0.5	0.005	0.003	0.003	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS4	0.001	0.001	0.001	0.001	0.003	0.007	0.013	0.019	0.023	0.021	0.5	0.009	0.004	0.005	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS4	0.002	0.002	0.004	0.006	0.012	0.015	0.023	0.032	0.035	0.030	0.5	0.016	0.008	0.008	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS4	0.007	0.009	0.005	0.002	0.007	0.019	0.039	0.048	0.047	0.036	0.5	0.022	0.011	0.011	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS4	0.007	0.006	0.003	0.014	0.024	0.032	0.040	0.057	0.055	0.041	0.5	0.028	0.014	0.014	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS4	0.012	0.008	0.009	0.011	0.018	0.027	0.040	0.041	0.040	0.016	0.5	0.023	0.011	0.012	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS4	0.008	0.013	0.018	0.015	0.016	0.021	0.029	0.036	0.027	0.017	0.5	0.021	0.010	0.010	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS4	0.007	0.008	0.011	0.020	0.022	0.020	0.027	0.045	0.034	0.019	0.5	0.022	0.011	0.011	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS5	0.001	0.001	0.001	0.001	0.001	0.004	0.005	0.009	0.011	0.014	0.5	0.005	0.002	0.002	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS5	0.001	0.001	0.001	0.001	0.003	0.007	0.010	0.019	0.026	0.024	0.5	0.009	0.005	0.005	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS5	0.001	0.001	0.001	0.002	0.003	0.003	0.003	0.008	0.016	0.022	0.5	0.006	0.003	0.003	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS5	0.001	0.001	0.001	0.004	0.006	0.006	0.011	0.019	0.025	0.026	0.5	0.010	0.005	0.005	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS5	0.001	0.003	0.003	0.008	0.013	0.014	0.015	0.023	0.039	0.031	0.5	0.015	0.008	0.008	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS5	0.001	0.001	0.006	0.012	0.016	0.021	0.029	0.041	0.062	0.038	0.5	0.023	0.012	0.012	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS5	0.001	0.002	0.010	0.012	0.015	0.017	0.016	0.026	0.038	0.032	0.5	0.017	0.009	0.009	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS5	0.001	0.003	0.007	0.016	0.022	0.020	0.019	0.031	0.046	0.035	0.5	0.021	0.010	0.010	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS5	0.001	0.003	0.009	0.013	0.017	0.023	0.029	0.045	0.061	0.037	0.5	0.025	0.012	0.012	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS1	0.007	0.009	0.010	0.008	0.015	0.030	0.050	0.065	0.102	0.103	0.5	0.039	0.020	0.020	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS1	0.005	0.007	0.011	0.024	0.038	0.047	0.057	0.063	0.067	0.079	0.5	0.039	0.020	0.020	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS1	0.007	0.008	0.019	0.017	0.013	0.028	0.047	0.048	0.059	0.065	0.5	0.031	0.015	0.016	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS1	0.005	0.008	0.015	0.013	0.017	0.036	0.056	0.070	0.092	0.073	0.5	0.038	0.019	0.019	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS1	0.009	0.011	0.017	0.022	0.018	0.033	0.046	0.060	0.089	0.085	0.5	0.039	0.020	0.020	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS1	0.009	0.010	0.017	0.014	0.016	0.030	0.047	0.075	0.097	0.118	0.5	0.044	0.022	0.022	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS1	0.009	0.010	0.011	0.012	0.018	0.033	0.044	0.067	0.084	0.096	0.5	0.040	0.020	0.020	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS1	0.002	0.010	0.013	0.012	0.019	0.047	0.072	0.092	0.101	0.122	0.5	0.051	0.025	0.026	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS1	0.009	0.007	0.011	0.013	0.014	0.026	0.041	0.060	0.085	0.101	0.5	0.038	0.019	0.019	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.



**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS2	0.004	0.006	0.008	0.007	0.013	0.022	0.038	0.041	0.044	0.074	0.5	0.025	0.013	0.013	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS2	0.005	0.006	0.008	0.011	0.013	0.019	0.034	0.054	0.058	0.054	0.5	0.026	0.013	0.013	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS2	0.004	0.006	0.007	0.008	0.012	0.020	0.036	0.043	0.062	0.091	0.5	0.029	0.014	0.015	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS2	0.001	0.005	0.010	0.013	0.018	0.026	0.040	0.046	0.060	0.059	0.5	0.028	0.014	0.014	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS2	0.002	0.006	0.007	0.012	0.022	0.033	0.050	0.053	0.062	0.064	0.5	0.031	0.016	0.016	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS2	0.004	0.006	0.012	0.022	0.027	0.031	0.054	0.064	0.061	0.075	0.5	0.036	0.018	0.018	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS2	0.004	0.011	0.011	0.011	0.021	0.034	0.043	0.043	0.053	0.069	0.5	0.031	0.015	0.016	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS2	0.003	0.007	0.010	0.007	0.012	0.031	0.042	0.055	0.072	0.070	0.5	0.032	0.016	0.016	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS2	0.005	0.009	0.010	0.015	0.020	0.029	0.042	0.048	0.048	0.063	0.5	0.030	0.015	0.015	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS3	0.002	0.003	0.002	0.006	0.004	0.004	0.005	0.007	0.013	0.015	0.5	0.006	0.003	0.003	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS3	0.005	0.005	0.004	0.002	0.003	0.003	0.006	0.009	0.006	0.008	0.5	0.005	0.003	0.003	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS3	0.001	0.002	0.001	0.001	0.002	0.003	0.004	0.008	0.008	0.007	0.5	0.004	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS3	0.004	0.004	0.003	0.006	0.007	0.007	0.010	0.010	0.013	0.018	0.5	0.008	0.004	0.004	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS3	0.003	0.003	0.002	0.002	0.002	0.003	0.006	0.008	0.009	0.012	0.5	0.005	0.003	0.003	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS3	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.006	0.008	0.009	0.5	0.004	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS3	0.003	0.003	0.002	0.005	0.008	0.008	0.012	0.012	0.015	0.019	0.5	0.009	0.004	0.005	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS3	0.003	0.005	0.003	0.003	0.004	0.005	0.008	0.014	0.015	0.018	0.5	0.008	0.004	0.004	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS3	0.002	0.003	0.003	0.003	0.003	0.005	0.006	0.008	0.009	0.013	0.5	0.006	0.003	0.003	

Notes:

MPE calculations are defined in section 15.0

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**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.			MPE Measurement											DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions														
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm					
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS4	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.005	0.008	0.5	0.003	0.001	0.001	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS4	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.006	0.006	0.006	0.5	0.003	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS4	0.00	0.00	0.00	0.001	0.002	0.002	0.002	0.003	0.004	0.005	0.5	0.002	0.001	0.001	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS4	0.001	0.001	0.002	0.002	0.004	0.003	0.003	0.006	0.012	0.013	0.5	0.005	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS4	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.007	0.009	0.007	0.5	0.003	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS4	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.006	0.006	0.5	0.003	0.001	0.001	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS4	0.001	0.002	0.001	0.001	0.003	0.002	0.004	0.009	0.011	0.010	0.5	0.005	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS4	0.001	0.001	0.002	0.002	0.003	0.004	0.005	0.009	0.011	0.006	0.5	0.005	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS4	0.001	0.001	0.002	0.003	0.003	0.003	0.003	0.005	0.007	0.006	0.5	0.004	0.002	0.002	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	0.99	BS5	0.001	0.001	0.001	0.004	0.008	0.011	0.009	0.013	0.018	0.024	0.5	0.009	0.004	0.005	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	0.99	BS5	0.001	0.001	0.002	0.006	0.008	0.013	0.012	0.016	0.027	0.038	0.5	0.012	0.006	0.006	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	0.99	BS5	0.001	0.002	0.003	0.007	0.008	0.006	0.006	0.005	0.014	0.035	0.5	0.009	0.004	0.004	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	BS5	0.001	0.001	0.002	0.007	0.009	0.009	0.009	0.012	0.022	0.020	0.5	0.009	0.005	0.005	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	1.00	BS5	0.001	0.002	0.004	0.005	0.005	0.010	0.009	0.008	0.025	0.031	0.5	0.010	0.005	0.005	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	1.01	BS5	0.001	0.002	0.002	0.009	0.009	0.014	0.015	0.024	0.036	0.032	0.5	0.015	0.007	0.007	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	1.03	BS5	0.001	0.002	0.003	0.004	0.008	0.009	0.006	0.010	0.020	0.023	0.5	0.009	0.004	0.004	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	1.04	BS5	0.001	0.001	0.004	0.008	0.008	0.013	0.010	0.010	0.018	0.032	0.5	0.011	0.005	0.005	
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	1.04	BS5	0.001	0.001	0.001	0.004	0.007	0.008	0.009	0.016	0.035	0.039	0.5	0.013	0.006	0.006	

Notes:

MPE calculations are defined in section 15.0  
 Blue fonts: Frequencies not regulated by FCC.

**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

Ant Loc.		D.U.T. Info.						Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
		Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
											20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS1	0.008	0.016	0.017	0.019	0.036	0.061	0.088	0.105	0.115	0.082	0.5	0.054	0.027	0.027	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS1	0.007	0.009	0.013	0.031	0.053	0.091	0.100	0.092	0.089	0.065	0.5	0.054	0.027	0.027	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS1	0.009	0.014	0.030	0.037	0.030	0.056	0.078	0.080	0.076	0.049	0.5	0.045	0.023	0.023	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS1	0.009	0.010	0.025	0.022	0.028	0.067	0.105	0.119	0.096	0.069	0.5	0.055	0.027	0.028	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS1	0.012	0.013	0.024	0.040	0.033	0.054	0.087	0.102	0.096	0.075	0.5	0.054	0.027	0.027	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS1	0.010	0.011	0.027	0.029	0.025	0.055	0.086	0.132	0.144	0.115	0.5	0.064	0.032	0.032	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS1	0.009	0.012	0.012	0.017	0.027	0.045	0.076	0.099	0.108	0.086	0.5	0.051	0.025	0.025	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS1	0.001	0.019	0.015	0.015	0.022	0.063	0.111	0.141	0.136	0.099	0.5	0.065	0.032	0.033	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS1	0.008	0.005	0.009	0.016	0.021	0.045	0.069	0.090	0.095	0.070	0.5	0.045	0.022	0.022	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS2	0.006	0.007	0.013	0.021	0.028	0.040	0.063	0.064	0.044	0.043	0.5	0.032	0.016	0.016	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS2	0.007	0.009	0.017	0.018	0.026	0.046	0.069	0.082	0.070	0.044	0.5	0.038	0.019	0.019	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS2	0.007	0.010	0.010	0.015	0.027	0.041	0.052	0.061	0.075	0.075	0.5	0.037	0.018	0.019	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS2	0.002	0.007	0.016	0.029	0.038	0.046	0.068	0.073	0.074	0.059	0.5	0.041	0.021	0.021	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS2	0.006	0.009	0.011	0.016	0.037	0.059	0.089	0.090	0.081	0.063	0.5	0.046	0.023	0.024	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS2	0.008	0.009	0.014	0.030	0.044	0.051	0.079	0.095	0.092	0.085	0.5	0.051	0.026	0.026	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS2	0.003	0.011	0.013	0.013	0.024	0.046	0.068	0.069	0.067	0.068	0.5	0.039	0.020	0.020	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS2	0.006	0.008	0.015	0.014	0.014	0.039	0.058	0.074	0.085	0.069	0.5	0.040	0.020	0.020	
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS2	0.002	0.009	0.010	0.013	0.026	0.047	0.066	0.074	0.073	0.061	0.5	0.040	0.020	0.020	

Notes:

MPE calculations are defined in section 15.0  
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**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.										Probe Info.		MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Bystander (BS) Positions															
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm						
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS3	0.005	0.006	0.004	0.011	0.011	0.011	0.010	0.018	0.019	0.018	0.5	0.011	0.006	0.006		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS3	0.005	0.009	0.009	0.009	0.006	0.008	0.014	0.016	0.010	0.008	0.5	0.009	0.005	0.005		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS3	0.003	0.004	0.002	0.003	0.005	0.008	0.007	0.012	0.011	0.008	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS3	0.005	0.005	0.004	0.009	0.014	0.015	0.018	0.022	0.020	0.022	0.5	0.013	0.007	0.007		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS3	0.004	0.004	0.002	0.002	0.004	0.006	0.010	0.010	0.009	0.011	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS3	0.002	0.002	0.002	0.004	0.004	0.007	0.011	0.009	0.009	0.009	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS3	0.002	0.003	0.002	0.004	0.008	0.009	0.013	0.015	0.017	0.017	0.5	0.009	0.005	0.005		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS3	0.004	0.007	0.006	0.005	0.007	0.011	0.017	0.021	0.020	0.020	0.5	0.012	0.006	0.006		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS3	0.001	0.003	0.003	0.003	0.003	0.005	0.009	0.009	0.009	0.011	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS4	0.003	0.003	0.005	0.006	0.006	0.004	0.004	0.007	0.009	0.011	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS4	0.002	0.003	0.004	0.004	0.005	0.005	0.007	0.010	0.010	0.008	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS4	0.001	0.001	0.001	0.002	0.004	0.004	0.004	0.007	0.008	0.007	0.5	0.004	0.002	0.002		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS4	0.003	0.002	0.004	0.005	0.010	0.010	0.011	0.018	0.026	0.020	0.5	0.011	0.005	0.005		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS4	0.002	0.002	0.002	0.002	0.002	0.004	0.008	0.013	0.014	0.010	0.5	0.006	0.003	0.003		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS4	0.001	0.001	0.003	0.005	0.005	0.003	0.003	0.005	0.008	0.007	0.5	0.004	0.002	0.002		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS4	0.003	0.003	0.003	0.004	0.005	0.006	0.010	0.016	0.017	0.010	0.5	0.008	0.004	0.004		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS4	0.002	0.002	0.004	0.006	0.007	0.008	0.008	0.015	0.016	0.007	0.5	0.008	0.004	0.004		
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS4	0.001	0.002	0.003	0.004	0.004	0.004	0.005	0.009	0.011	0.008	0.5	0.005	0.003	0.003		

Notes:

MPE calculations are defined in section 15.0

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**Table M.1 (Continued)**  
**7/800 band - MPE measurement data for Bystander**

D.U.T. Info.							Probe Info.		Test Pos.	MPE Measurement										DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	0.99	BS5	0.003	0.003	0.003	0.011	0.018	0.026	0.023	0.025	0.035	0.037	0.5	0.018	0.009	0.009
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	0.99	BS5	0.002	0.004	0.006	0.014	0.020	0.028	0.025	0.032	0.052	0.063	0.5	0.024	0.012	0.012
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	0.99	BS5	0.002	0.004	0.009	0.015	0.020	0.017	0.012	0.017	0.032	0.049	0.5	0.018	0.009	0.009
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	BS5	0.002	0.003	0.005	0.014	0.018	0.017	0.018	0.027	0.045	0.039	0.5	0.019	0.009	0.009
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	1.00	BS5	0.001	0.006	0.009	0.011	0.018	0.019	0.018	0.022	0.050	0.046	0.5	0.020	0.010	0.010
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	1.01	BS5	0.001	0.002	0.005	0.017	0.022	0.026	0.029	0.038	0.066	0.052	0.5	0.026	0.013	0.013
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	1.03	BS5	0.001	0.004	0.005	0.008	0.014	0.016	0.014	0.020	0.033	0.032	0.5	0.015	0.008	0.008
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	1.04	BS5	0.001	0.002	0.006	0.013	0.017	0.020	0.016	0.020	0.036	0.039	0.5	0.018	0.009	0.009
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	1.04	BS5	0.001	0.002	0.006	0.008	0.014	0.016	0.018	0.029	0.057	0.047	0.5	0.021	0.010	0.010

Notes:

MPE calculations are defined in section 15.0

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**Table M.2**

**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	1.00	PB	0.026	0.029	0.017	0.5	0.024	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	1.00	PB	0.037	0.025	0.022	0.5	0.028	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	1.00	PB	0.048	0.040	0.030	0.5	0.039	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	PB	0.020	0.033	0.040	0.5	0.031	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	0.99	PB	0.044	0.029	0.028	0.5	0.033	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	0.99	PB	0.030	0.022	0.028	0.5	0.026	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	0.99	PB	0.024	0.015	0.014	0.5	0.017	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	0.99	PB	0.017	0.014	0.016	0.5	0.016	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	0.99	PB	0.021	0.010	0.008	0.5	0.013	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PB	0.032	0.031	0.023	0.5	0.029	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PB	0.037	0.022	0.015	0.5	0.025	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PB	0.043	0.029	0.020	0.5	0.031	0.02	0.02
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PB	0.026	0.025	0.028	0.5	0.026	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PB	0.037	0.026	0.028	0.5	0.030	0.02	0.02
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PB	0.022	0.025	0.023	0.5	0.023	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PB	0.015	0.011	0.013	0.5	0.013	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PB	0.014	0.018	0.010	0.5	0.014	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PB	0.032	0.020	0.016	0.5	0.022	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PB	0.002	0.003	0.002	0.5	0.002	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PB	0.001	0.001	0.001	0.5	0.001	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PB	0.003	0.003	0.002	0.5	0.003	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PB	0.009	0.005	0.004	0.5	0.006	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PB	0.014	0.008	0.007	0.5	0.010	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PB	0.019	0.021	0.023	0.5	0.021	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PB	0.022	0.019	0.017	0.5	0.019	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PB	0.012	0.014	0.013	0.5	0.013	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PB	0.019	0.013	0.016	0.5	0.016	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	1.00	PB	0.033	0.030	0.027	0.5	0.030	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	1.00	PB	0.049	0.029	0.023	0.5	0.034	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	1.00	PB	0.051	0.036	0.025	0.5	0.037	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	PB	0.027	0.031	0.033	0.5	0.030	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	0.99	PB	0.041	0.029	0.028	0.5	0.032	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	0.99	PB	0.025	0.027	0.028	0.5	0.026	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	0.99	PB	0.011	0.017	0.011	0.5	0.013	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	0.99	PB	0.014	0.017	0.010	0.5	0.014	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	0.99	PB	0.019	0.012	0.015	0.5	0.015	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PB	0.085	0.056	0.047	0.5	0.063	0.03	0.03
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PB	0.124	0.065	0.044	0.5	0.078	0.04	0.04
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PB	0.113	0.098	0.042	0.5	0.084	0.04	0.04
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PB	0.079	0.063	0.052	0.5	0.065	0.03	0.03
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PB	0.077	0.044	0.056	0.5	0.058	0.03	0.03
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PB	0.048	0.033	0.040	0.5	0.040	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PB	0.019	0.025	0.018	0.5	0.020	0.01	0.01
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PB	0.013	0.019	0.010	0.5	0.014	0.01	0.01
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PB	0.033	0.024	0.014	0.5	0.023	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	764.0875	36.0	35.4	CW	E	1.00	PF	0.016	0.027	0.022	0.5	0.022	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	770.0125	36.0	35.8	CW	E	1.00	PF	0.017	0.021	0.016	0.5	0.018	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	775.9125	36.0	34.9	CW	E	1.00	PF	0.011	0.016	0.016	0.5	0.014	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	PF	0.018	0.030	0.036	0.5	0.028	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	806.0125	42.0	41.2	CW	E	0.99	PF	0.019	0.034	0.029	0.5	0.027	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	823.9875	42.0	41.6	CW	E	0.99	PF	0.027	0.054	0.024	0.5	0.035	0.02	0.02
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	851.0125	42.0	41.7	CW	E	0.99	PF	0.029	0.022	0.012	0.5	0.021	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	862.0125	42.0	41.7	CW	E	0.99	PF	0.016	0.019	0.009	0.5	0.015	0.01	0.01
Roof	AN000131A01, 1/4 wave (136-870MHz)	2.15	868.8875	42.0	41.8	CW	E	0.99	PF	0.009	0.011	0.006	0.5	0.009	0.00	0.00

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm <sup>2</sup> )	Calc. P.D. (mW/cm <sup>2</sup> )	Max Calc. P.D. (mW/cm <sup>2</sup> )
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PF	0.010	0.016	0.015	0.5	0.014	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PF	0.010	0.018	0.007	0.5	0.012	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PF	0.006	0.014	0.011	0.5	0.010	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PF	0.019	0.019	0.021	0.5	0.020	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PF	0.021	0.037	0.021	0.5	0.026	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PF	0.015	0.047	0.013	0.5	0.025	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PF	0.017	0.032	0.006	0.5	0.018	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PF	0.020	0.029	0.008	0.5	0.019	0.01	0.01
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PF	0.020	0.015	0.007	0.5	0.014	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PF	0.003	0.001	0.003	0.5	0.002	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PF	0.003	0.004	0.002	0.5	0.003	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PF	0.001	0.002	0.001	0.5	0.001	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PF	0.012	0.007	0.006	0.5	0.008	0.00	0.00
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PF	0.012	0.018	0.010	0.5	0.013	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PF	0.009	0.029	0.012	0.5	0.017	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PF	0.030	0.032	0.016	0.5	0.026	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PF	0.024	0.026	0.008	0.5	0.019	0.01	0.01
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PF	0.024	0.022	0.007	0.5	0.017	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	764.0875	36.0	35.4	CW	E	1.00	PF	0.015	0.023	0.024	0.5	0.021	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	35.8	CW	E	1.00	PF	0.021	0.024	0.015	0.5	0.020	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	34.9	CW	E	1.00	PF	0.010	0.013	0.017	0.5	0.013	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	794.0875	36.0	35.9	CW	E	1.00	PF	0.028	0.019	0.027	0.5	0.025	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.2	CW	E	0.99	PF	0.032	0.044	0.029	0.5	0.035	0.02	0.02
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.6	CW	E	0.99	PF	0.017	0.049	0.013	0.5	0.026	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	41.7	CW	E	0.99	PF	0.026	0.029	0.006	0.5	0.020	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	41.7	CW	E	0.99	PF	0.028	0.027	0.011	0.5	0.022	0.01	0.01
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	41.8	CW	E	0.99	PF	0.027	0.017	0.007	0.5	0.017	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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**Table M.2 (Continued)**  
**7/800 band - MPE measurement data for Passenger**

D.U.T. Info.							Probe Info.			MPE Measurements			DUT Max. TX Factor	Avg. over Body (mW/cm2)	Calc. P.D. (mW/cm2)	Max Calc. P.D. (mW/cm2)
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	764.0875	36.0	35.4	CW	E	1.00	PF	0.028	0.039	0.038	0.5	0.035	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	35.8	CW	E	1.00	PF	0.031	0.043	0.023	0.5	0.032	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	34.9	CW	E	1.00	PF	0.021	0.034	0.023	0.5	0.026	0.01	0.01
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	794.0875	36.0	35.9	CW	E	1.00	PF	0.061	0.033	0.044	0.5	0.046	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.2	CW	E	0.99	PF	0.049	0.079	0.033	0.5	0.053	0.03	0.03
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.6	CW	E	0.99	PF	0.025	0.061	0.024	0.5	0.036	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	41.7	CW	E	0.99	PF	0.039	0.040	0.015	0.5	0.031	0.02	0.02
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	41.7	CW	E	0.99	PF	0.025	0.038	0.011	0.5	0.024	0.01	0.01
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	41.8	CW	E	0.99	PF	0.026	0.017	0.006	0.5	0.016	0.01	0.01

Notes:

MPE calculations are defined in section 15.0

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