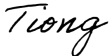


 MOTOROLA SOLUTIONS	 MS ISO/IEC 17025 TESTING SAMM No.0826
DECLARATION OF COMPLIANCE: MPE ASSESSMENT Report Part 3 of 3	
Motorola Solutions EME Test Laboratory Motorola Solutions Malaysia Sdn Bhd (Innoplex) Plot 2A, Medan Bayan Lepas, Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.	Date of Report: 2/6/2018 Report Revision: A
Responsible Engineer: Saw Sun Hock (EME Engineer) Report author: Saw Sun Hock (EME Engineer) Date(s) Tested: 2/15/2017-3/27/2017 Manufacturer: Futurecom Systems Group Date submitted for test: 01/13/2017 DUT Description: DVR UHF (380-512 MHz), Digital Vehicular Repeater Companion Mobile: APX8500 mobile All Bands (VHF, UHF, 7/800) Test TX mode(s): CW (for FM), 802.11 b/g/n (for WLAN) Max. Power output: DVR: 10W (100% duty cycle) Companion Mobile: 50% duty cycle, PTT with below maximum output power 60W (136-174 MHz), 54W (380-484 MHz), 48W (485-512 MHz), 30W (512-520 MHz), 36W (764-805 MHz), 42W (806-870 MHz); 10mW (Bluetooth); 2.5mW (Bluetooth LE); 63.1 mW (WLAN 802.11b), 20 mW (WLAN 802.11g/n) TX Frequency Bands: DVR: 380-512 MHz Companion Mobile: 136-174 MHz; 380-520 MHz; 764-805 MHz; 806-870 MHz; WLAN 2400-2483.5 MHz; Bluetooth 2402-2480 MHz Signaling type: FM, TDMA, 802.11b/g/n (WLAN) Model(s) Tested: DVR: MOBEXCOM DVRS UHF (DQPM DV4000P, DQPM DV5000P, DQPM DV6000P) Companion Mobile: M37TSS9PW1AN MOBEXCOM DVRS UHF (DQPM DV4000P, DQPM DV5000P, DQPM DV6000P) 16102684; 16030465; 16102751 (DVR) , KLDORDDUC (Companion Mobile) Classification: Occupational/Controlled Environment FCC ID: DVR: LO6-DVRSUHF 406.1-512 MHz Companion Mobile: AZ492FT7089 150.8-173.4 MHz, 406.1-512 MHz, 769-775 MHz, 799-824 MHz, 851-869 MHz, 2402-2480 MHz, 2412-2462 MHz This report contains results that are immaterial for FCC equipment approval, which are clearly identified. IC: DVR:2098B-DVRSUHF Companion Mobile:109U-92FT7089 This report contains results that are immaterial for ISED Canada equipment approval, which are clearly identified. 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.	
 Tiong Nguk Ing Deputy Technical Manager Approval Date: 2/10/2018	

Appendix I – MPE Measurement Results for DVR UHF

Table I.1

DVR UHF - MPE measurement data for Bystander

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS1	0.001	0.001	0.002	0.003	0.007	0.007	0.007	0.008	0.007	0.008	1.0	0.005	0.005	0.005
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS1	0.002	0.003	0.002	0.003	0.005	0.006	0.007	0.009	0.011	0.011	1.0	0.006	0.006	0.006
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS1	0.002	0.004	0.003	0.003	0.005	0.008	0.010	0.011	0.011	0.013	1.0	0.007	0.007	0.007
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS2	0.002	0.003	0.009	0.012	0.012	0.013	0.019	0.029	0.027	0.027	1.0	0.015	0.02	0.016
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS2	0.001	0.002	0.006	0.008	0.015	0.022	0.024	0.026	0.022	0.023	1.0	0.015	0.01	0.015
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS2	0.002	0.005	0.008	0.009	0.010	0.017	0.022	0.023	0.025	0.022	1.0	0.014	0.01	0.015
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS3	0.007	0.007	0.009	0.014	0.015	0.022	0.030	0.033	0.035	0.037	1.0	0.021	0.02	0.021
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS3	0.005	0.006	0.007	0.014	0.018	0.022	0.030	0.034	0.037	0.034	1.0	0.021	0.02	0.021
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS3	0.008	0.009	0.010	0.015	0.021	0.033	0.036	0.035	0.036	0.045	1.0	0.025	0.02	0.026
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS4	0.012	0.015	0.019	0.030	0.041	0.047	0.060	0.059	0.065	0.054	1.0	0.040	0.040	0.041
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS4	0.011	0.014	0.020	0.031	0.041	0.058	0.063	0.059	0.046	0.048	1.0	0.039	0.04	0.039
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS4	0.012	0.015	0.019	0.026	0.035	0.041	0.045	0.050	0.052	0.045	1.0	0.034	0.03	0.035

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	BS5	0.022	0.022	0.022	0.023	0.026	0.033	0.050	0.060	0.051	0.041	1.0	0.035	0.03	0.036
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	BS5	0.014	0.016	0.017	0.017	0.021	0.023	0.033	0.033	0.039	0.046	1.0	0.026	0.03	0.026
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	BS5	0.016	0.014	0.014	0.014	0.017	0.025	0.027	0.032	0.029	0.036	1.0	0.022	0.02	0.023
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS1	0.002	0.004	0.004	0.006	0.008	0.011	0.012	0.016	0.014	0.016	1.0	0.009	0.01	0.010
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS1	0.001	0.003	0.003	0.004	0.007	0.01	0.012	0.011	0.011	0.01	1.0	0.007	0.01	0.007
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS1	0.002	0.002	0.002	0.002	0.004	0.007	0.008	0.01	0.006	0.009	1.0	0.005	0.01	0.005
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS2	0.002	0.005	0.006	0.006	0.009	0.013	0.018	0.021	0.022	0.023	1.0	0.013	0.01	0.013
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS2	0.002	0.003	0.005	0.005	0.01	0.015	0.021	0.022	0.024	0.027	1.0	0.013	0.01	0.014
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS2	0.002	0.003	0.003	0.004	0.009	0.015	0.019	0.018	0.02	0.027	1.0	0.012	0.01	0.012
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS3	0.009	0.01	0.014	0.022	0.027	0.035	0.037	0.039	0.04	0.038	1.0	0.027	0.03	0.028
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS3	0.009	0.009	0.013	0.018	0.024	0.032	0.033	0.033	0.044	0.038	1.0	0.025	0.03	0.026
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS3	0.007	0.007	0.012	0.017	0.022	0.035	0.045	0.047	0.04	0.028	1.0	0.026	0.03	0.027

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS4	0.014	0.017	0.023	0.031	0.04	0.047	0.053	0.073	0.078	0.061	1.0	0.044	0.045	0.045
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS4	0.01	0.013	0.015	0.021	0.025	0.035	0.05	0.062	0.062	0.057	1.0	0.035	0.04	0.036
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS4	0.013	0.015	0.02	0.027	0.027	0.036	0.047	0.064	0.059	0.059	1.0	0.037	0.04	0.038
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	BS5	0.015	0.012	0.012	0.018	0.028	0.038	0.033	0.039	0.041	0.032	1.0	0.027	0.03	0.027
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	BS5	0.01	0.009	0.009	0.016	0.024	0.04	0.041	0.039	0.037	0.031	1.0	0.026	0.03	0.027
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS5	0.009	0.009	0.012	0.02	0.036	0.041	0.044	0.045	0.03	0.029	1.0	0.028	0.03	0.029
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS1	0.001	0.002	0.001	0.002	0.004	0.006	0.008	0.011	0.009	0.011	1.0	0.006	0.01	0.006
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS1	0.002	0.002	0.001	0.003	0.005	0.006	0.008	0.009	0.009	0.011	1.0	0.006	0.01	0.006
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS1	0.002	0.002	0.002	0.002	0.003	0.003	0.006	0.007	0.01	0.011	1.0	0.005	0.01	0.005
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS1	0.004	0.004	0.004	0.005	0.004	0.005	0.007	0.008	0.009	0.015	1.0	0.007	0.01	0.007

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS2	0.002	0.003	0.003	0.004	0.007	0.01	0.014	0.017	0.019	0.024	1.0	0.010	0.01	0.011
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS2	0.004	0.005	0.005	0.007	0.009	0.015	0.017	0.018	0.022	0.033	1.0	0.014	0.01	0.015
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS2	0.003	0.003	0.006	0.01	0.012	0.014	0.019	0.027	0.034	0.035	1.0	0.016	0.02	0.018
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS2	0.004	0.006	0.009	0.014	0.019	0.024	0.034	0.039	0.04	0.036	1.0	0.023	0.02	0.024
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS3	0.007	0.007	0.012	0.016	0.025	0.033	0.041	0.044	0.039	0.029	1.0	0.025	0.03	0.026
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS3	0.007	0.008	0.012	0.019	0.029	0.029	0.033	0.042	0.042	0.036	1.0	0.026	0.03	0.028
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS3	0.007	0.007	0.011	0.015	0.021	0.028	0.037	0.037	0.041	0.027	1.0	0.023	0.02	0.025
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS3	0.01	0.01	0.011	0.015	0.023	0.028	0.031	0.031	0.035	0.034	1.0	0.023	0.02	0.025
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS4	0.011	0.013	0.017	0.024	0.027	0.036	0.042	0.056	0.054	0.049	1.0	0.033	0.03	0.034
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS4	0.014	0.014	0.015	0.02	0.028	0.04	0.054	0.056	0.055	0.05	1.0	0.035	0.04	0.038
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS4	0.015	0.013	0.017	0.019	0.024	0.033	0.051	0.061	0.054	0.043	1.0	0.033	0.03	0.036
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS4	0.013	0.01	0.015	0.02	0.028	0.044	0.05	0.056	0.053	0.045	1.0	0.033	0.04	0.036

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm					200 cm
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	BS5	0.009	0.009	0.013	0.022	0.031	0.047	0.049	0.054	0.036	0.033	1.0	0.030	0.03	0.032
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	BS5	0.011	0.01	0.017	0.025	0.03	0.04	0.053	0.046	0.059	0.04	1.0	0.033	0.03	0.036
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	BS5	0.011	0.009	0.013	0.013	0.027	0.037	0.043	0.056	0.052	0.037	1.0	0.030	0.03	0.032
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	BS5	0.009	0.009	0.012	0.016	0.025	0.028	0.04	0.049	0.045	0.039	1.0	0.027	0.03	0.030

MPE calculations are defined in section 14.0.

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/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	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	PB	0.059	0.154	0.092	1.0	0.102	0.10	0.104
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	PB	0.081	0.096	0.098	1.0	0.092	0.09	0.092
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	PB	0.081	0.036	0.069	1.0	0.062	0.06	0.065
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	10.00	9.68	CW	E	0.99	PF	0.051	0.062	0.015	1.0	0.043	0.04	0.044
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	417.5000	10.00	9.90	CW	E	0.99	PF	0.031	0.047	0.007	1.0	0.028	0.03	0.028
Trunk	HAE6012A, 1/4 Wave (380-433MHz)	2.15	429.9875	10.00	9.60	CW	E	1.00	PF	0.033	0.045	0.023	1.0	0.034	0.03	0.035
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	PB	0.177	0.094	0.178	1.0	0.150	0.15	0.153
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	PB	0.187	0.138	0.144	1.0	0.156	0.161	0.163
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PB	0.157	0.097	0.094	1.0	0.116	0.12	0.121

MPE calculations are defined in section 14.0.

Table I.2 (Continued)**DVR VHF - 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
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0000	10.00	9.96	CW	E	1.02	PF	0.036	0.037	0.037	1.0	0.037	0.04	0.038	
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	10.00	9.90	CW	E	1.03	PF	0.042	0.043	0.039	1.0	0.041	0.04	0.043	
Trunk	HAE4003A, 1/4 Wave (450-470MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PF	0.03	0.046	0.037	1.0	0.038	0.04	0.039	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PB	0.175	0.098	0.118	1.0	0.130	0.14	0.136	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	PB	0.219	0.075	0.14	1.0	0.145	0.15	0.158	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	PB	0.126	0.076	0.062	1.0	0.088	0.09	0.095	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	PB	0.127	0.16	0.11	1.0	0.132	0.14	0.144	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0000	10.00	10.00	CW	E	1.04	PF	0.021	0.029	0.038	1.0	0.029	0.03	0.031	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	484.0000	10.00	9.61	CW	E	1.05	PF	0.023	0.034	0.020	1.0	0.026	0.03	0.028	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	498.0000	10.00	9.83	CW	E	1.06	PF	0.031	0.033	0.028	1.0	0.031	0.03	0.033	
Trunk	HAE4004A, 1/4 Wave (470-512MHz)	2.15	512.0000	10.00	9.75	CW	E	1.06	PF	0.022	0.025	0.055	1.0	0.034	0.04	0.037	

MPE calculations are defined in section 14.0.

Appendix J – MPE Measurement Results for LMR VHF

Table J.1

LMR 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
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	BS1	0.026	0.031	0.037	0.033	0.022	0.041	0.062	0.089	0.115	0.137	0.5	0.059	0.030	0.031	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.027	0.041	0.038	0.035	0.03	0.035	0.061	0.11	0.135	0.154	0.5	0.067	0.034	0.035	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS1	0.045	0.056	0.06	0.034	0.031	0.067	0.076	0.104	0.129	0.161	0.5	0.076	0.039	0.040	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS1	0.036	0.045	0.034	0.025	0.019	0.035	0.069	0.101	0.118	0.131	0.5	0.061	0.031	0.031	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS1	0.048	0.066	0.06	0.039	0.046	0.075	0.113	0.148	0.18	0.198	0.5	0.097	0.049	0.050	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	BS2	0.021	0.036	0.041	0.035	0.032	0.038	0.05	0.066	0.086	0.103	0.5	0.051	0.026	0.027	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.025	0.047	0.057	0.048	0.038	0.04	0.047	0.067	0.086	0.101	0.5	0.056	0.028	0.029	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS2	0.035	0.059	0.069	0.056	0.046	0.05	0.06	0.074	0.087	0.097	0.5	0.063	0.032	0.033	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS2	0.028	0.044	0.047	0.036	0.031	0.041	0.058	0.077	0.092	0.105	0.5	0.056	0.028	0.029	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS2	0.042	0.061	0.058	0.047	0.05	0.069	0.091	0.112	0.108	0.121	0.5	0.076	0.038	0.039	

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)
LMR 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
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	BS3	0.014	0.031	0.039	0.04	0.041	0.044	0.05	0.057	0.067	0.071	0.5	0.045	0.023	0.024	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS3	0.021	0.035	0.043	0.045	0.047	0.048	0.05	0.052	0.053	0.06	0.5	0.045	0.023	0.024	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS3	0.022	0.036	0.037	0.041	0.045	0.049	0.052	0.065	0.069	0.07	0.5	0.049	0.025	0.025	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS3	0.022	0.034	0.036	0.039	0.048	0.055	0.061	0.07	0.076	0.078	0.5	0.052	0.026	0.027	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS3	0.031	0.045	0.059	0.063	0.067	0.082	0.09	0.091	0.092	0.094	0.5	0.071	0.036	0.036	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	BS4	0.016	0.023	0.026	0.031	0.037	0.034	0.04	0.042	0.043	0.043	0.5	0.034	0.017	0.018	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS4	0.017	0.021	0.029	0.03	0.033	0.032	0.032	0.035	0.036	0.038	0.5	0.030	0.015	0.016	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS4	0.036	0.044	0.054	0.062	0.061	0.06	0.054	0.056	0.055	0.053	0.5	0.054	0.027	0.028	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS4	0.023	0.029	0.039	0.041	0.044	0.034	0.035	0.034	0.03	0.028	0.5	0.034	0.017	0.017	
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS4	0.028	0.05	0.063	0.064	0.058	0.053	0.051	0.053	0.052	0.055	0.5	0.053	0.027	0.027	

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

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		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	146.0000	60.0	58.3	CW	E	1.02	BS5	0.017	0.022	0.028	0.03	0.031	0.034	0.037	0.039	0.04	0.039	0.5	0.032	0.016	0.017
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.014	0.017	0.019	0.021	0.014	0.023	0.024	0.023	0.023	0.024	0.5	0.020	0.010	0.011
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS5	0.026	0.039	0.042	0.04	0.039	0.042	0.045	0.048	0.048	0.049	0.5	0.042	0.021	0.022
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS5	0.027	0.028	0.02	0.016	0.018	0.011	0.015	0.021	0.015	0.01	0.5	0.018	0.009	0.009
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS5	0.028	0.034	0.036	0.037	0.036	0.038	0.04	0.038	0.037	0.037	0.5	0.036	0.018	0.018
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	BS1	0.036	0.052	0.057	0.06	0.049	0.056	0.072	0.091	0.132	0.137	0.5	0.074	0.038	0.039
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.039	0.07	0.06	0.054	0.04	0.072	0.1	0.13	0.126	0.127	0.5	0.082	0.042	0.043
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS1	0.063	0.075	0.085	0.071	0.06	0.055	0.062	0.095	0.118	0.129	0.5	0.081	0.041	0.042
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS1	0.05	0.058	0.065	0.053	0.035	0.064	0.07	0.107	0.119	0.134	0.5	0.076	0.038	0.039
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS1	0.055	0.07	0.074	0.067	0.056	0.072	0.092	0.11	0.146	0.16	0.5	0.090	0.046	0.046

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)
LMR 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
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	BS2	0.023	0.051	0.054	0.06	0.069	0.056	0.09	0.104	0.117	0.128	0.5	0.075	0.038	0.039	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.04	0.068	0.086	0.077	0.091	0.087	0.094	0.114	0.121	0.132	0.5	0.091	0.046	0.048	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS2	0.055	0.062	0.065	0.061	0.073	0.062	0.085	0.094	0.102	0.105	0.5	0.076	0.039	0.040	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS2	0.049	0.075	0.088	0.09	0.093	0.091	0.095	0.114	0.126	0.128	0.5	0.095	0.048	0.049	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS2	0.048	0.054	0.069	0.055	0.061	0.072	0.092	0.097	0.101	0.102	0.5	0.075	0.038	0.038	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	BS3	0.024	0.036	0.05	0.063	0.069	0.072	0.076	0.088	0.092	0.1	0.5	0.067	0.034	0.035	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS3	0.024	0.032	0.045	0.049	0.05	0.061	0.066	0.071	0.077	0.079	0.5	0.055	0.028	0.029	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS3	0.028	0.052	0.063	0.064	0.073	0.077	0.08	0.092	0.096	0.097	0.5	0.072	0.037	0.038	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS3	0.03	0.056	0.063	0.077	0.083	0.095	0.099	0.105	0.108	0.114	0.5	0.083	0.042	0.043	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS3	0.035	0.051	0.064	0.081	0.086	0.1	0.103	0.107	0.11	0.111	0.5	0.085	0.043	0.043	

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

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		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	144.0000	60.0	58.4	CW	E	1.02	BS4	0.02	0.028	0.054	0.055	0.054	0.058	0.054	0.065	0.065	0.063	0.5	0.052	0.026	0.027
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS4	0.02	0.027	0.031	0.039	0.045	0.039	0.042	0.041	0.051	0.052	0.5	0.039	0.020	0.020
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS4	0.034	0.05	0.069	0.086	0.087	0.079	0.078	0.084	0.081	0.071	0.5	0.072	0.037	0.038
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS4	0.03	0.045	0.043	0.065	0.063	0.059	0.058	0.05	0.046	0.044	0.5	0.050	0.025	0.026
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS4	0.054	0.092	0.112	0.102	0.091	0.095	0.083	0.080	0.063	0.057	0.5	0.083	0.042	0.042
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	BS5	0.02	0.032	0.038	0.043	0.045	0.046	0.048	0.052	0.051	0.05	0.5	0.043	0.022	0.022
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.019	0.024	0.027	0.03	0.032	0.033	0.032	0.034	0.035	0.029	0.5	0.030	0.015	0.015
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	BS5	0.042	0.056	0.061	0.059	0.059	0.061	0.057	0.06	0.063	0.058	0.5	0.058	0.029	0.030
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	BS5	0.034	0.036	0.037	0.034	0.03	0.027	0.023	0.026	0.022	0.018	0.5	0.029	0.014	0.015
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	BS5	0.029	0.038	0.041	0.04	0.033	0.033	0.037	0.041	0.043	0.036	0.5	0.037	0.019	0.019

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)**LMR VHF - MPE measurement data for Bystander**

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		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	144.0000	60.0	58.4	CW	E	1.02	BS1	0.092	0.11	0.13	0.136	0.133	0.124	0.11	0.109	0.093	0.082	0.5	0.112	0.057	0.059
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.118	0.133	0.172	0.153	0.142	0.141	0.142	0.138	0.133	0.126	0.5	0.140	0.071	0.073
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS1	0.099	0.134	0.142	0.13	0.125	0.115	0.107	0.099	0.089	0.081	0.5	0.112	0.057	0.058
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS1	0.073	0.094	0.103	0.115	0.099	0.093	0.081	0.068	0.059	0.054	0.5	0.084	0.043	0.044
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS2	0.068	0.12	0.153	0.159	0.156	0.147	0.151	0.143	0.121	0.114	0.5	0.133	0.068	0.070
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.083	0.141	0.175	0.166	0.154	0.128	0.137	0.135	0.133	0.122	0.5	0.137	0.070	0.072
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS2	0.087	0.139	0.167	0.154	0.137	0.116	0.124	0.116	0.111	0.098	0.5	0.125	0.064	0.065
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS2	0.068	0.117	0.128	0.105	0.101	0.097	0.11	0.105	0.103	0.092	0.5	0.103	0.052	0.053
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS3	0.05	0.078	0.123	0.125	0.141	0.146	0.138	0.137	0.126	0.124	0.5	0.119	0.061	0.062
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS3	0.042	0.072	0.088	0.09	0.091	0.095	0.094	0.1	0.098	0.097	0.5	0.087	0.044	0.045
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS3	0.057	0.075	0.084	0.091	0.106	0.098	0.113	0.097	0.094	0.082	0.5	0.090	0.046	0.047
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS3	0.043	0.078	0.08	0.099	0.1	0.083	0.082	0.081	0.078	0.081	0.5	0.081	0.041	0.042

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

Table J.1 (Continued)

LMR 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		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	144.0000	60.0	58.4	CW	E	1.02	BS4	0.036	0.058	0.077	0.09	0.091	0.086	0.085	0.081	0.077	0.071	0.5	0.075	0.038	0.039
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS4	0.031	0.051	0.071	0.08	0.096	0.077	0.078	0.072	0.067	0.055	0.5	0.068	0.035	0.035
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS4	0.048	0.077	0.097	0.116	0.122	0.116	0.106	0.095	0.1	0.081	0.5	0.096	0.049	0.050
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS4	0.028	0.054	0.069	0.072	0.07	0.064	0.063	0.058	0.048	0.043	0.5	0.057	0.029	0.030
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS5	0.023	0.029	0.04	0.04	0.044	0.033	0.036	0.045	0.048	0.05	0.5	0.039	0.020	0.020
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.019	0.032	0.034	0.031	0.031	0.032	0.037	0.038	0.043	0.044	0.5	0.034	0.017	0.018
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS5	0.035	0.052	0.059	0.052	0.059	0.062	0.066	0.067	0.065	0.064	0.5	0.058	0.030	0.030
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS5	0.025	0.034	0.036	0.033	0.038	0.035	0.04	0.039	0.035	0.04	0.5	0.036	0.018	0.018
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	E	1.02	BS1	0.063	0.09	0.096	0.08	0.073	0.058	0.06	0.067	0.057	0.051	0.5	0.070	0.035	0.036
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.087	0.127	0.13	0.115	0.085	0.094	0.091	0.091	0.077	0.074	0.5	0.097	0.050	0.051
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS1	0.088	0.096	0.119	0.09	0.065	0.048	0.06	0.072	0.06	0.054	0.5	0.075	0.038	0.039
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS1	0.077	0.089	0.099	0.078	0.076	0.074	0.07	0.067	0.063	0.06	0.5	0.075	0.038	0.039
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS1	0.067	0.082	0.091	0.09	0.088	0.083	0.071	0.061	0.06	0.053	0.5	0.075	0.038	0.038

Notes:

MPE calculations are defined in section 14.0

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

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		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	60.0	58.3	CW	E	1.02	BS2	0.062	0.099	0.129	0.122	0.125	0.11	0.108	0.11	0.093	0.083	0.5	0.104	0.053	0.055
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.068	0.105	0.134	0.126	0.117	0.094	0.099	0.102	0.098	0.083	0.5	0.103	0.052	0.054
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS2	0.091	0.138	0.167	0.16	0.155	0.143	0.127	0.133	0.111	0.1	0.5	0.133	0.068	0.069
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS2	0.092	0.142	0.156	0.14	0.126	0.125	0.126	0.132	0.126	0.118	0.5	0.128	0.065	0.066
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS2	0.064	0.088	0.096	0.09	0.088	0.083	0.09	0.107	0.096	0.085	0.5	0.089	0.045	0.045
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	E	1.02	BS3	0.036	0.057	0.082	0.094	0.097	0.089	0.08	0.098	0.097	0.085	0.5	0.082	0.042	0.043
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS3	0.032	0.056	0.067	0.076	0.074	0.068	0.069	0.073	0.075	0.06	0.5	0.065	0.033	0.034
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS3	0.057	0.082	0.096	0.105	0.103	0.097	0.116	0.123	0.105	0.092	0.5	0.098	0.050	0.051
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS3	0.068	0.086	0.103	0.12	0.124	0.127	0.131	0.135	0.115	0.107	0.5	0.112	0.056	0.057
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS3	0.057	0.083	0.102	0.121	0.119	0.123	0.115	0.116	0.102	0.097	0.5	0.104	0.052	0.053

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

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

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		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	60.0	58.3	CW	E	1.02	BS4	0.028	0.036	0.045	0.06	0.072	0.053	0.048	0.047	0.046	0.042	0.5	0.048	0.024	0.025
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS4	0.024	0.038	0.052	0.057	0.062	0.057	0.052	0.047	0.042	0.031	0.5	0.046	0.024	0.024
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS4	0.03	0.044	0.048	0.07	0.108	0.104	0.104	0.099	0.094	0.087	0.5	0.079	0.040	0.041
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS4	0.033	0.057	0.074	0.074	0.072	0.058	0.057	0.05	0.047	0.04	0.5	0.056	0.028	0.029
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS4	0.06	0.09	0.121	0.13	0.11	0.092	0.088	0.073	0.069	0.068	0.5	0.090	0.046	0.046
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	E	1.02	BS5	0.009	0.018	0.025	0.026	0.029	0.028	0.027	0.029	0.034	0.035	0.5	0.026	0.013	0.014
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.016	0.025	0.03	0.031	0.026	0.027	0.026	0.032	0.034	0.034	0.5	0.028	0.014	0.015
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS5	0.032	0.053	0.063	0.067	0.06	0.056	0.055	0.061	0.055	0.051	0.5	0.055	0.028	0.029
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS5	0.032	0.045	0.051	0.053	0.034	0.037	0.03	0.026	0.025	0.023	0.5	0.036	0.018	0.018
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS5	0.034	0.041	0.043	0.049	0.039	0.037	0.035	0.044	0.035	0.034	0.5	0.039	0.020	0.020

Notes:

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Table J.1 (Continued)
LMR 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
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS1	0.079	0.113	0.123	0.143	0.136	0.12	0.116	0.105	0.097	0.082	0.5	0.111	0.057	0.058	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.111	0.145	0.173	0.154	0.144	0.132	0.126	0.133	0.115	0.106	0.5	0.134	0.068	0.070	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS1	0.087	0.104	0.119	0.126	0.124	0.121	0.12	0.105	0.086	0.064	0.5	0.106	0.054	0.055	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS1	0.066	0.08	0.082	0.1	0.099	0.091	0.085	0.073	0.069	0.065	0.5	0.081	0.041	0.042	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS1	0.047	0.057	0.06	0.089	0.088	0.087	0.079	0.077	0.073	0.069	0.5	0.073	0.037	0.037	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS2	0.067	0.121	0.163	0.174	0.159	0.157	0.14	0.134	0.125	0.115	0.5	0.136	0.069	0.071	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.085	0.118	0.166	0.168	0.141	0.133	0.129	0.131	0.122	0.111	0.5	0.130	0.067	0.068	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS2	0.082	0.106	0.138	0.141	0.117	0.114	0.105	0.11	0.097	0.083	0.5	0.109	0.056	0.057	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS2	0.07	0.102	0.123	0.131	0.104	0.101	0.107	0.11	0.108	0.101	0.5	0.106	0.053	0.054	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS2	0.047	0.065	0.071	0.062	0.068	0.067	0.081	0.091	0.071	0.064	0.5	0.069	0.035	0.035	

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)
LMR 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
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS3	0.052	0.084	0.121	0.138	0.142	0.139	0.136	0.133	0.129	0.118	0.5	0.119	0.061	0.062	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS3	0.039	0.07	0.089	0.094	0.097	0.086	0.083	0.092	0.089	0.088	0.5	0.083	0.042	0.043	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS3	0.054	0.077	0.092	0.098	0.101	0.102	0.107	0.08	0.105	0.091	0.5	0.091	0.046	0.047	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS3	0.056	0.077	0.096	0.103	0.107	0.114	0.118	0.12	0.095	0.096	0.5	0.098	0.050	0.050	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS3	0.033	0.053	0.077	0.088	0.095	0.093	0.083	0.087	0.077	0.068	0.5	0.075	0.038	0.039	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS4	0.026	0.05	0.063	0.081	0.079	0.078	0.073	0.07	0.064	0.07	0.5	0.065	0.033	0.034	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS4	0.026	0.042	0.064	0.073	0.077	0.064	0.067	0.066	0.062	0.059	0.5	0.060	0.031	0.031	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS4	0.036	0.057	0.084	0.098	0.099	0.094	0.095	0.09	0.087	0.074	0.5	0.081	0.042	0.043	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS4	0.029	0.051	0.067	0.07	0.06	0.056	0.053	0.047	0.043	0.038	0.5	0.051	0.026	0.026	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS4	0.036	0.057	0.083	0.085	0.068	0.064	0.052	0.049	0.046	0.043	0.5	0.058	0.029	0.030	

Notes:

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Table J.1 (Continued)

LMR 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
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS5	0.016	0.027	0.027	0.028	0.022	0.026	0.023	0.030	0.029	0.030	0.5	0.026	0.013	0.014	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.021	0.03	0.04	0.042	0.036	0.035	0.034	0.038	0.045	0.042	0.5	0.036	0.019	0.019	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	BS5	0.025	0.044	0.05	0.046	0.035	0.033	0.035	0.048	0.047	0.05	0.5	0.041	0.021	0.022	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	BS5	0.023	0.033	0.035	0.033	0.028	0.026	0.023	0.025	0.021	0.016	0.5	0.026	0.013	0.014	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS5	0.023	0.031	0.031	0.029	0.025	0.022	0.024	0.024	0.023	0.021	0.5	0.025	0.013	0.013	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60	59	CW	E	1.02	BS1	0.108	0.109	0.124	0.125	0.127	0.119	0.119	0.118	0.103	0.081	0.5	0.113	0.058	0.059	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS1	0.089	0.106	0.128	0.139	0.136	0.136	0.14	0.141	0.108	0.094	0.5	0.122	0.062	0.064	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	E	1.02	BS2	0.04	0.091	0.132	0.146	0.173	0.173	0.176	0.162	0.143	0.119	0.5	0.136	0.069	0.070	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	E	1.02	BS2	0.077	0.107	0.171	0.217	0.233	0.215	0.191	0.205	0.184	0.153	0.5	0.175	0.089	0.092	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60	59	CW	E	1.02	BS3	0.059	0.071	0.105	0.141	0.148	0.147	0.147	0.138	0.112	0.109	0.5	0.118	0.060	0.061	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	E	1.02	BS3	0.051	0.068	0.1	0.123	0.13	0.138	0.14	0.136	0.117	0.103	0.5	0.111	0.056	0.058	

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

Table J.1 (Continued)

LMR VHF - MPE measurement data for Bystander

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		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	140.0000	60	59	CW	E	1.02	BS4	0.035	0.054	0.081	0.102	0.102	0.1	0.101	0.093	0.084	0.071	0.5	0.082	0.042	0.043
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS4	0.024	0.04	0.062	0.077	0.074	0.067	0.085	0.071	0.062	0.063	0.5	0.063	0.032	0.033
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	E	1.02	BS5	0.018	0.031	0.046	0.046	0.049	0.041	0.042	0.042	0.041	0.043	0.5	0.040	0.020	0.021
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	E	1.02	BS5	0.008	0.016	0.021	0.024	0.019	0.021	0.021	0.025	0.026	0.028	0.5	0.021	0.011	0.011
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS1	0.083	0.112	0.13	0.146	0.151	0.13	0.136	0.136	0.115	0.09	0.5	0.123	0.063	0.064
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS1	0.102	0.103	0.135	0.155	0.14	0.138	0.133	0.131	0.117	0.092	0.5	0.125	0.064	0.065
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS2	0.075	0.099	0.157	0.182	0.187	0.19	0.207	0.205	0.178	0.142	0.5	0.162	0.083	0.085
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS2	0.085	0.109	0.137	0.139	0.159	0.172	0.178	0.171	0.14	0.113	0.5	0.140	0.072	0.073
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS3	0.042	0.066	0.101	0.132	0.135	0.138	0.144	0.136	0.107	0.104	0.5	0.111	0.056	0.058
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS3	0.038	0.061	0.096	0.102	0.108	0.117	0.119	0.107	0.075	0.072	0.5	0.090	0.046	0.047
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS4	0.025	0.04	0.053	0.062	0.063	0.066	0.058	0.061	0.061	0.062	0.5	0.055	0.028	0.029
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS4	0.037	0.066	0.105	0.135	0.15	0.159	0.159	0.144	0.107	0.1	0.5	0.116	0.059	0.061

Notes:

MPE calculations are defined in section 14.0

Blue fonts: Frequencies not regulated by FCC.

Table J.1 (Continued)
LMR 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
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	BS5	0.011	0.016	0.02	0.022	0.025	0.023	0.021	0.024	0.023	0.027	0.5	0.021	0.011	0.011	
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS5	0.036	0.039	0.052	0.049	0.066	0.058	0.066	0.058	0.049	0.056	0.5	0.053	0.027	0.028	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS1	0.11	0.11	0.117	0.13	0.117	0.118	0.12	0.117	0.104	0.079	0.5	0.112	0.057	0.059	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	E	1.02	BS1	0.069	0.092	0.11	0.115	0.088	0.082	0.088	0.087	0.063	0.043	0.5	0.084	0.043	0.044	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	58.7	CW	E	1.02	BS1	0.077	0.078	0.099	0.111	0.081	0.09	0.101	0.108	0.089	0.095	0.5	0.093	0.047	0.048	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS2	0.085	0.099	0.137	0.172	0.165	0.151	0.16	0.147	0.126	0.101	0.5	0.134	0.068	0.070	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	E	1.02	BS2	0.11	0.126	0.183	0.201	0.201	0.195	0.155	0.193	0.146	0.106	0.5	0.162	0.082	0.084	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	58.7	CW	E	1.02	BS2	0.057	0.094	0.128	0.138	0.132	0.134	0.136	0.131	0.095	0.09	0.5	0.114	0.058	0.059	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	E	1.02	BS3	0.056	0.055	0.088	0.113	0.113	0.11	0.111	0.101	0.073	0.066	0.5	0.089	0.045	0.046	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	E	1.02	BS3	0.062	0.099	0.135	0.165	0.15	0.169	0.158	0.162	0.148	0.12	0.5	0.137	0.070	0.071	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60.0	58.7	CW	E	1.02	BS3	0.045	0.062	0.09	0.105	0.104	0.1	0.077	0.089	0.086	0.072	0.5	0.083	0.042	0.043	

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

Table J.1 (Continued)

LMR VHF - MPE measurement data for Bystander

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		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	60	58.6	CW	E	1.02	BS4	0.025	0.057	0.086	0.113	0.132	0.13	0.139	0.115	0.11	0.091	0.5	0.100	0.051	0.052
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	BS4	0.027	0.046	0.08	0.104	0.102	0.111	0.117	0.107	0.089	0.083	0.5	0.087	0.044	0.045
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	58.7	CW	E	1.02	BS4	0.028	0.052	0.077	0.091	0.086	0.09	0.087	0.068	0.059	0.056	0.5	0.069	0.035	0.036
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	BS5	0.023	0.035	0.046	0.052	0.055	0.054	0.054	0.054	0.043	0.041	0.5	0.046	0.023	0.024
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	E	1.02	BS5	0.036	0.038	0.048	0.051	0.06	0.059	0.061	0.057	0.045	0.044	0.5	0.050	0.025	0.026
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	58.7	CW	E	1.02	BS5	0.037	0.038	0.048	0.053	0.049	0.058	0.055	0.045	0.033	0.026	0.5	0.044	0.023	0.023
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	E	1.02	BS1	0.099	0.084	0.101	0.107	0.095	0.091	0.101	0.106	0.081	0.097	0.5	0.096	0.049	0.050
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	E	1.01	BS1	0.095	0.084	0.102	0.106	0.088	0.084	0.092	0.092	0.075	0.084	0.5	0.090	0.046	0.046
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	E	1.01	BS1	0.066	0.057	0.061	0.045	0.048	0.057	0.067	0.073	0.07	0.077	0.5	0.062	0.031	0.032
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS2	0.078	0.089	0.131	0.142	0.118	0.132	0.136	0.133	0.085	0.092	0.5	0.114	0.058	0.059
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60	59.3	CW	E	1.01	BS2	0.074	0.082	0.116	0.1	0.12	0.127	0.131	0.121	0.079	0.074	0.5	0.102	0.052	0.052
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	E	1.01	BS2	0.045	0.085	0.13	0.167	0.156	0.181	0.194	0.191	0.163	0.113	0.5	0.143	0.072	0.073

Note:

MPE calculations are defined in section 14.0

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

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		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	60	59	CW	E	1.02	BS3	0.051	0.063	0.091	0.114	0.108	0.114	0.12	0.111	0.075	0.066	0.5	0.091	0.047	0.047
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60	59.3	CW	E	1.01	BS3	0.062	0.075	0.101	0.1	0.121	0.13	0.144	0.123	0.103	0.102	0.5	0.106	0.054	0.054
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	BS3	0.086	0.085	0.127	0.152	0.141	0.139	0.079	0.079	0.086	0.106	0.5	0.108	0.055	0.055
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	E	1.02	BS4	0.034	0.07	0.094	0.111	0.104	0.095	0.09	0.079	0.06	0.056	0.5	0.079	0.040	0.041
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	E	1.01	BS4	0.047	0.083	0.117	0.121	0.132	0.129	0.125	0.101	0.079	0.062	0.5	0.100	0.050	0.051
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	E	1.01	BS4	0.052	0.073	0.117	0.139	0.12	0.094	0.102	0.082	0.059	0.05	0.5	0.089	0.045	0.045
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	BS5	0.023	0.039	0.053	0.065	0.073	0.07	0.076	0.048	0.031	0.028	0.5	0.051	0.026	0.026
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60	59.3	CW	E	1.01	BS5	0.026	0.043	0.057	0.059	0.059	0.06	0.057	0.051	0.03	0.029	0.5	0.047	0.024	0.024
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	E	1.01	BS5	0.021	0.035	0.041	0.04	0.03	0.039	0.037	0.033	0.029	0.021	0.5	0.033	0.016	0.017

Note:

MPE calculations are defined in section 14.0

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

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		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	146.0000	60.0	58.3	CW	H	0.87	BS1	0.034	0.037	0.036	0.027	0.039	0.042	0.043	0.049	0.061	0.072	0.5	0.044	0.028	0.028
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.042	0.035	0.036	0.031	0.038	0.044	0.045	0.052	0.067	0.077	0.5	0.047	0.031	0.032
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS1	0.053	0.032	0.037	0.038	0.043	0.049	0.053	0.064	0.074	0.087	0.5	0.053	0.039	0.040
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS1	0.042	0.039	0.036	0.035	0.037	0.041	0.047	0.058	0.074	0.085	0.5	0.049	0.033	0.034
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS1	0.056	0.043	0.038	0.043	0.056	0.063	0.067	0.079	0.091	0.101	0.5	0.064	0.054	0.055
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	H	0.87	BS2	0.030	0.033	0.032	0.033	0.038	0.033	0.035	0.038	0.044	0.049	0.5	0.037	0.019	0.020
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS2	0.032	0.031	0.030	0.025	0.028	0.033	0.039	0.039	0.045	0.051	0.5	0.035	0.018	0.018
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS2	0.041	0.038	0.037	0.038	0.040	0.039	0.044	0.046	0.061	0.069	0.5	0.045	0.029	0.029
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS2	0.039	0.034	0.038	0.031	0.035	0.042	0.045	0.042	0.052	0.064	0.5	0.042	0.024	0.025
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS2	0.044	0.041	0.047	0.037	0.037	0.054	0.057	0.050	0.067	0.078	0.5	0.051	0.035	0.035

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

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

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		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	146.0000	60.0	58.3	CW	H	0.87	BS3	0.029	0.035	0.035	0.025	0.038	0.043	0.042	0.037	0.038	0.045	0.5	0.037	0.019	0.020
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.029	0.032	0.028	0.028	0.028	0.030	0.034	0.034	0.033	0.040	0.5	0.032	0.014	0.015
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS3	0.027	0.035	0.033	0.030	0.032	0.038	0.040	0.042	0.043	0.050	0.5	0.037	0.019	0.020
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS3	0.035	0.034	0.034	0.033	0.032	0.032	0.037	0.035	0.039	0.045	0.5	0.036	0.017	0.018
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS3	0.038	0.036	0.031	0.034	0.036	0.038	0.046	0.040	0.048	0.058	0.5	0.041	0.022	0.022
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	H	0.87	BS4	0.025	0.029	0.030	0.027	0.031	0.034	0.032	0.034	0.036	0.037	0.5	0.032	0.014	0.015
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.024	0.024	0.020	0.021	0.022	0.022	0.025	0.027	0.030	0.029	0.5	0.024	0.008	0.009
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS4	0.025	0.029	0.031	0.030	0.028	0.030	0.033	0.032	0.034	0.036	0.5	0.031	0.013	0.014
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS4	0.026	0.027	0.025	0.025	0.026	0.025	0.026	0.026	0.032	0.032	0.5	0.027	0.010	0.010
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS4	0.036	0.038	0.038	0.033	0.034	0.036	0.036	0.037	0.042	0.045	0.5	0.038	0.019	0.019

Notes:

MPE calculations are defined in section 14.0

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

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		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	146.0000	60.0	58.3	CW	H	0.87	BS5	0.024	0.024	0.027	0.028	0.029	0.037	0.039	0.039	0.039	0.035	0.5	0.032	0.015	0.015
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS5	0.019	0.018	0.016	0.022	0.026	0.029	0.027	0.030	0.028	0.028	0.5	0.024	0.008	0.009
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS5	0.037	0.037	0.038	0.041	0.045	0.049	0.052	0.050	0.048	0.046	0.5	0.044	0.027	0.028
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS5	0.024	0.022	0.022	0.024	0.030	0.030	0.032	0.032	0.034	0.029	0.5	0.028	0.011	0.011
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS5	0.028	0.020	0.024	0.030	0.032	0.038	0.041	0.038	0.038	0.039	0.5	0.033	0.014	0.014
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	H	0.87	BS1	0.047	0.045	0.045	0.044	0.051	0.057	0.063	0.068	0.074	0.078	0.5	0.057	0.047	0.048
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.044	0.042	0.040	0.048	0.052	0.054	0.066	0.072	0.079	0.085	0.5	0.058	0.048	0.049
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS1	0.049	0.047	0.046	0.044	0.053	0.065	0.066	0.069	0.073	0.076	0.5	0.059	0.048	0.049
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS1	0.047	0.043	0.050	0.052	0.055	0.064	0.067	0.071	0.073	0.089	0.5	0.061	0.051	0.052
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS1	0.030	0.047	0.047	0.044	0.063	0.068	0.070	0.074	0.091	0.092	0.5	0.063	0.052	0.053

Notes:

MPE calculations are defined in section 14.0

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

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		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	144.0000	60.0	58.4	CW	H	0.87	BS2	0.038	0.036	0.031	0.041	0.045	0.053	0.044	0.067	0.074	0.078	0.5	0.051	0.037	0.038
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS2	0.030	0.041	0.039	0.045	0.052	0.061	0.066	0.069	0.071	0.074	0.5	0.055	0.043	0.044
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS2	0.042	0.045	0.049	0.055	0.066	0.074	0.079	0.079	0.077	0.075	0.5	0.064	0.057	0.059
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS2	0.040	0.061	0.054	0.053	0.072	0.075	0.079	0.078	0.075	0.071	0.5	0.066	0.059	0.060
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS2	0.052	0.060	0.064	0.063	0.075	0.081	0.084	0.077	0.074	0.074	0.5	0.070	0.066	0.067
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	H	0.87	BS3	0.030	0.041	0.038	0.042	0.035	0.045	0.052	0.053	0.052	0.058	0.5	0.045	0.028	0.029
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.030	0.033	0.033	0.031	0.037	0.041	0.045	0.044	0.043	0.051	0.5	0.039	0.021	0.022
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS3	0.037	0.041	0.043	0.038	0.040	0.046	0.049	0.050	0.049	0.054	0.5	0.045	0.028	0.029
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS3	0.042	0.042	0.041	0.034	0.041	0.047	0.052	0.047	0.049	0.055	0.5	0.045	0.028	0.028
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS3	0.043	0.044	0.048	0.035	0.038	0.044	0.045	0.045	0.054	0.061	0.5	0.046	0.028	0.028

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)
LMR 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
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	H	0.87	BS4	0.031	0.034	0.037	0.033	0.037	0.039	0.043	0.043	0.043	0.044	0.5	0.038	0.021	0.022	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.030	0.032	0.033	0.030	0.031	0.034	0.037	0.037	0.038	0.034	0.5	0.034	0.016	0.016	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS4	0.031	0.035	0.035	0.030	0.035	0.037	0.040	0.041	0.041	0.043	0.5	0.037	0.019	0.019	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS4	0.037	0.039	0.042	0.031	0.035	0.040	0.044	0.041	0.041	0.039	0.5	0.039	0.021	0.021	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS4	0.041	0.045	0.047	0.038	0.037	0.040	0.045	0.042	0.042	0.047	0.5	0.042	0.024	0.024	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	H	0.87	BS5	0.027	0.026	0.025	0.028	0.031	0.037	0.042	0.044	0.037	0.046	0.5	0.034	0.017	0.017	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	BS5	0.027	0.022	0.023	0.029	0.035	0.040	0.043	0.044	0.044	0.044	0.5	0.035	0.018	0.018	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	BS5	0.035	0.037	0.035	0.040	0.045	0.051	0.055	0.058	0.055	0.052	0.5	0.046	0.030	0.031	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	BS5	0.034	0.034	0.036	0.037	0.045	0.047	0.050	0.048	0.047	0.042	0.5	0.042	0.024	0.024	
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	BS5	0.031	0.031	0.031	0.034	0.038	0.041	0.045	0.040	0.039	0.040	0.5	0.037	0.018	0.018	

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)

LMR VHF - MPE measurement data for Bystander

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		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	144.0000	60.0	58.4	CW	H	0.87	BS1	0.076	0.076	0.073	0.080	0.078	0.078	0.087	0.070	0.083	0.075	0.5	0.078	0.086	0.088
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.059	0.078	0.081	0.082	0.079	0.081	0.093	0.092	0.087	0.076	0.5	0.081	0.093	0.095
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS1	0.081	0.071	0.066	0.066	0.073	0.079	0.076	0.068	0.065	0.058	0.5	0.070	0.069	0.070
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS1	0.069	0.061	0.059	0.061	0.066	0.071	0.069	0.065	0.065	0.064	0.5	0.065	0.059	0.060
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS2	0.050	0.068	0.064	0.059	0.072	0.080	0.085	0.070	0.085	0.076	0.5	0.071	0.072	0.074
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS2	0.049	0.068	0.071	0.068	0.072	0.065	0.068	0.078	0.077	0.070	0.5	0.069	0.067	0.069
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS2	0.047	0.072	0.067	0.067	0.071	0.079	0.080	0.082	0.070	0.070	0.5	0.071	0.069	0.071
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS2	0.048	0.067	0.063	0.066	0.074	0.079	0.079	0.075	0.075	0.067	0.5	0.069	0.067	0.068
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS3	0.040	0.050	0.045	0.052	0.053	0.052	0.066	0.064	0.065	0.065	0.5	0.055	0.043	0.045
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.037	0.034	0.038	0.046	0.048	0.052	0.054	0.055	0.055	0.055	0.5	0.047	0.032	0.033
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS3	0.042	0.046	0.048	0.047	0.049	0.049	0.055	0.057	0.056	0.056	0.5	0.051	0.036	0.036
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS3	0.042	0.039	0.034	0.043	0.055	0.050	0.064	0.052	0.043	0.049	0.5	0.047	0.031	0.031

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)

LMR VHF - MPE measurement data for Bystander

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		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	144.0000	60.0	58.4	CW	H	0.87	BS4	0.037	0.041	0.042	0.035	0.041	0.041	0.047	0.047	0.057	0.056	0.5	0.044	0.028	0.029
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.043	0.046	0.041	0.049	0.047	0.049	0.055	0.053	0.050	0.050	0.5	0.048	0.033	0.034
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS4	0.041	0.041	0.044	0.039	0.040	0.040	0.051	0.048	0.047	0.053	0.5	0.044	0.027	0.028
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS4	0.037	0.038	0.037	0.031	0.036	0.036	0.040	0.042	0.043	0.044	0.5	0.038	0.021	0.021
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS5	0.027	0.024	0.024	0.024	0.028	0.029	0.036	0.040	0.040	0.042	0.5	0.031	0.014	0.014
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS5	0.036	0.035	0.035	0.038	0.042	0.049	0.053	0.055	0.054	0.053	0.5	0.045	0.029	0.030
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS5	0.038	0.042	0.037	0.039	0.040	0.052	0.056	0.059	0.056	0.057	0.5	0.048	0.032	0.032
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS5	0.031	0.032	0.032	0.031	0.039	0.042	0.047	0.043	0.042	0.038	0.5	0.038	0.020	0.020
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	H	0.87	BS1	0.069	0.062	0.057	0.055	0.053	0.068	0.071	0.062	0.062	0.053	0.5	0.061	0.053	0.055
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.066	0.062	0.057	0.061	0.067	0.074	0.075	0.074	0.074	0.065	0.5	0.068	0.065	0.067
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS1	0.069	0.068	0.062	0.064	0.071	0.074	0.072	0.058	0.062	0.062	0.5	0.066	0.061	0.063
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS1	0.071	0.064	0.059	0.064	0.071	0.073	0.074	0.069	0.070	0.071	0.5	0.069	0.064	0.065
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS1	0.054	0.053	0.051	0.059	0.066	0.070	0.070	0.068	0.069	0.070	0.5	0.063	0.053	0.053

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

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

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		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	60.0	58.3	CW	H	0.87	BS2	0.046	0.056	0.051	0.049	0.063	0.064	0.066	0.066	0.064	0.063	0.5	0.059	0.049	0.051
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS2	0.047	0.060	0.052	0.046	0.050	0.054	0.056	0.055	0.052	0.051	0.5	0.052	0.039	0.040
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS2	0.056	0.055	0.053	0.056	0.059	0.078	0.081	0.078	0.079	0.072	0.5	0.067	0.062	0.064
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS2	0.057	0.043	0.045	0.049	0.061	0.068	0.070	0.068	0.067	0.072	0.5	0.060	0.049	0.050
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS2	0.066	0.072	0.072	0.070	0.086	0.089	0.090	0.081	0.075	0.072	0.5	0.077	0.079	0.080
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	H	0.87	BS3	0.030	0.033	0.033	0.037	0.039	0.048	0.056	0.049	0.049	0.051	0.5	0.043	0.026	0.027
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.038	0.036	0.035	0.037	0.040	0.044	0.045	0.048	0.046	0.048	0.5	0.042	0.025	0.025
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS3	0.038	0.035	0.040	0.046	0.048	0.050	0.053	0.057	0.056	0.053	0.5	0.048	0.032	0.032
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS3	0.036	0.040	0.044	0.043	0.042	0.044	0.051	0.050	0.051	0.050	0.5	0.045	0.028	0.028
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS3	0.045	0.045	0.039	0.048	0.050	0.052	0.055	0.055	0.058	0.060	0.5	0.051	0.034	0.035

Notes:

MPE calculations are defined in section 14.0
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Table J.1 (Continued)
LMR VHF - MPE measurement data for Bystander

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		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	60.0	58.3	CW	H	0.87	BS4	0.029	0.032	0.032	0.034	0.036	0.036	0.039	0.042	0.045	0.047	0.5	0.037	0.020	0.020
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.038	0.039	0.037	0.044	0.048	0.048	0.054	0.056	0.052	0.054	0.5	0.047	0.032	0.032
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS4	0.040	0.041	0.039	0.044	0.043	0.046	0.051	0.054	0.060	0.059	0.5	0.048	0.032	0.032
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS4	0.047	0.047	0.053	0.053	0.052	0.064	0.066	0.055	0.054	0.059	0.5	0.055	0.041	0.042
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS4	0.047	0.049	0.050	0.049	0.059	0.058	0.065	0.052	0.061	0.055	0.5	0.055	0.040	0.040
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	H	0.87	BS5	0.018	0.018	0.018	0.020	0.020	0.022	0.025	0.028	0.030	0.032	0.5	0.023	0.008	0.008
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS5	0.026	0.025	0.025	0.023	0.028	0.032	0.033	0.041	0.041	0.039	0.5	0.031	0.014	0.014
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS5	0.025	0.028	0.023	0.028	0.034	0.035	0.041	0.045	0.047	0.047	0.5	0.035	0.017	0.018
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS5	0.027	0.031	0.029	0.035	0.039	0.040	0.046	0.046	0.044	0.041	0.5	0.038	0.019	0.020
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS5	0.027	0.025	0.026	0.029	0.030	0.036	0.032	0.035	0.037	0.036	0.5	0.031	0.013	0.013

Notes:

MPE calculations are defined in section 14.0

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

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		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	144.0000	60.0	58.4	CW	H	0.87	BS1	0.060	0.063	0.066	0.064	0.062	0.077	0.079	0.074	0.071	0.064	0.5	0.068	0.066	0.068
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.071	0.065	0.060	0.064	0.065	0.079	0.083	0.082	0.077	0.070	0.5	0.072	0.073	0.075
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS1	0.062	0.055	0.051	0.048	0.056	0.070	0.070	0.067	0.061	0.057	0.5	0.060	0.050	0.051
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS1	0.064	0.052	0.055	0.058	0.064	0.070	0.069	0.068	0.066	0.068	0.5	0.063	0.055	0.056
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS1	0.054	0.045	0.048	0.050	0.056	0.064	0.062	0.058	0.058	0.062	0.5	0.056	0.041	0.042
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS2	0.055	0.057	0.057	0.059	0.060	0.064	0.071	0.076	0.067	0.076	0.5	0.064	0.059	0.060
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS2	0.052	0.051	0.050	0.051	0.058	0.072	0.076	0.079	0.064	0.069	0.5	0.062	0.055	0.057
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS2	0.056	0.056	0.059	0.050	0.057	0.065	0.066	0.067	0.069	0.067	0.5	0.061	0.052	0.053
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS2	0.053	0.052	0.050	0.049	0.056	0.064	0.065	0.067	0.060	0.064	0.5	0.058	0.046	0.047
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS2	0.054	0.049	0.053	0.055	0.057	0.070	0.057	0.069	0.066	0.065	0.5	0.060	0.047	0.048

Notes:

MPE calculations are defined in section 14.0

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

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		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	144.0000	60.0	58.4	CW	H	0.87	BS3	0.046	0.051	0.052	0.050	0.052	0.055	0.056	0.058	0.059	0.061	0.5	0.054	0.042	0.043
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.045	0.046	0.047	0.042	0.043	0.049	0.052	0.053	0.053	0.055	0.5	0.049	0.034	0.034
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS3	0.055	0.051	0.050	0.049	0.046	0.050	0.053	0.054	0.054	0.055	0.5	0.052	0.037	0.038
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS3	0.042	0.042	0.044	0.039	0.042	0.045	0.047	0.047	0.047	0.053	0.5	0.045	0.027	0.028
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS3	0.044	0.049	0.049	0.040	0.041	0.044	0.046	0.047	0.055	0.051	0.5	0.047	0.029	0.029
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS4	0.035	0.037	0.043	0.044	0.041	0.042	0.043	0.046	0.047	0.052	0.5	0.043	0.026	0.027
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.039	0.044	0.047	0.049	0.042	0.050	0.054	0.049	0.053	0.049	0.5	0.048	0.032	0.033
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS4	0.037	0.040	0.041	0.036	0.039	0.040	0.042	0.042	0.041	0.048	0.5	0.041	0.023	0.024
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS4	0.043	0.037	0.040	0.037	0.035	0.042	0.046	0.039	0.037	0.041	0.5	0.040	0.021	0.022
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS4	0.047	0.045	0.047	0.035	0.036	0.039	0.039	0.039	0.037	0.042	0.5	0.041	0.022	0.022

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)

LMR 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
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS5	0.023	0.022	0.021	0.021	0.024	0.027	0.031	0.031	0.036	0.031	0.5	0.027	0.010	0.010	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS5	0.032	0.029	0.028	0.031	0.035	0.040	0.041	0.042	0.044	0.042	0.5	0.036	0.019	0.019	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	BS5	0.031	0.028	0.031	0.029	0.030	0.036	0.044	0.042	0.044	0.046	0.5	0.036	0.018	0.019	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	BS5	0.032	0.033	0.032	0.034	0.037	0.039	0.043	0.040	0.042	0.036	0.5	0.037	0.018	0.019	
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS5	0.028	0.028	0.028	0.027	0.029	0.024	0.029	0.025	0.029	0.033	0.5	0.028	0.010	0.011	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	H	0.88	BS1	0.07	0.065	0.066	0.07	0.067	0.076	0.079	0.075	0.069	0.058	0.5	0.070	0.071	0.072	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS1	0.075	0.069	0.067	0.071	0.062	0.076	0.078	0.073	0.067	0.062	0.5	0.070	0.070	0.072	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	H	0.88	BS2	0.052	0.05	0.058	0.06	0.062	0.068	0.072	0.069	0.063	0.059	0.5	0.061	0.055	0.056	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	H	0.87	BS2	0.057	0.063	0.063	0.064	0.063	0.07	0.072	0.07	0.066	0.061	0.5	0.065	0.060	0.062	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60	59	CW	H	0.88	BS3	0.05	0.046	0.044	0.053	0.047	0.058	0.06	0.06	0.067	0.062	0.5	0.055	0.044	0.044	
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS3	0.048	0.044	0.05	0.05	0.051	0.053	0.055	0.057	0.065	0.06	0.5	0.053	0.041	0.042	

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)

LMR VHF - MPE measurement data for Bystander

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		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	140.0000	60.0	59.0	CW	H	0.88	BS4	0.037	0.035	0.042	0.039	0.038	0.042	0.043	0.043	0.046	0.047	0.5	0.041	0.025	0.025
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS4	0.034	0.035	0.037	0.032	0.031	0.029	0.037	0.037	0.038	0.045	0.5	0.036	0.018	0.018
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	H	0.88	BS5	0.031	0.031	0.025	0.025	0.032	0.036	0.04	0.042	0.042	0.042	0.5	0.035	0.017	0.018
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	H	0.87	BS5	0.016	0.018	0.02	0.02	0.023	0.025	0.03	0.031	0.033	0.034	0.5	0.025	0.009	0.009
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS1	0.06	0.064	0.057	0.067	0.068	0.074	0.08	0.075	0.069	0.06	0.5	0.067	0.065	0.067
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS1	0.064	0.062	0.056	0.058	0.061	0.067	0.069	0.062	0.054	0.044	0.5	0.060	0.051	0.052
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS2	0.061	0.061	0.061	0.062	0.063	0.067	0.069	0.068	0.07	0.066	0.5	0.065	0.060	0.062
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS2	0.065	0.059	0.059	0.059	0.06	0.068	0.068	0.066	0.066	0.057	0.5	0.063	0.056	0.057
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS3	0.043	0.044	0.045	0.048	0.04	0.048	0.056	0.058	0.057	0.06	0.5	0.050	0.036	0.036
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS3	0.049	0.045	0.049	0.045	0.048	0.055	0.055	0.055	0.053	0.053	0.5	0.051	0.037	0.038
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS4	0.033	0.034	0.037	0.035	0.036	0.039	0.04	0.036	0.047	0.041	0.5	0.038	0.020	0.021
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS4	0.044	0.039	0.041	0.048	0.047	0.049	0.05	0.054	0.047	0.059	0.5	0.048	0.033	0.033

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)
LMR 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
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	BS5	0.016	0.017	0.016	0.02	0.022	0.025	0.031	0.032	0.034	0.034	0.5	0.025	0.009	0.009	
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS5	0.031	0.034	0.034	0.036	0.039	0.043	0.046	0.048	0.048	0.048	0.5	0.041	0.024	0.024	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS1	0.063	0.061	0.053	0.048	0.06	0.066	0.063	0.065	0.048	0.046	0.5	0.057	0.047	0.048	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	H	0.86	BS1	0.063	0.057	0.056	0.054	0.064	0.06	0.061	0.055	0.049	0.045	0.5	0.056	0.044	0.045	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS1	0.069	0.057	0.056	0.055	0.054	0.058	0.054	0.051	0.05	0.05	0.5	0.055	0.043	0.044	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS2	0.056	0.056	0.056	0.06	0.056	0.065	0.065	0.061	0.056	0.055	0.5	0.059	0.049	0.050	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS2	0.056	0.058	0.059	0.062	0.063	0.065	0.066	0.064	0.062	0.065	0.5	0.062	0.054	0.055	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS2	0.053	0.052	0.052	0.05	0.053	0.056	0.057	0.053	0.063	0.058	0.5	0.055	0.042	0.042	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS3	0.039	0.039	0.048	0.048	0.049	0.046	0.051	0.05	0.048	0.05	0.5	0.047	0.031	0.032	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS3	0.056	0.053	0.056	0.048	0.055	0.059	0.058	0.059	0.06	0.063	0.5	0.057	0.045	0.046	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	59	CW	H	0.86	BS3	0.045	0.046	0.049	0.048	0.047	0.05	0.049	0.049	0.053	0.049	0.5	0.049	0.033	0.033	

Notes:

MPE calculations are defined in section 14.0

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Table J.1 (Continued)

LMR 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
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	BS4	0.037	0.036	0.042	0.035	0.04	0.04	0.048	0.042	0.043	0.047	0.5	0.041	0.024	0.025	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60	58.7	CW	H	0.86	BS4	0.048	0.036	0.038	0.038	0.043	0.047	0.044	0.046	0.045	0.045	0.5	0.043	0.026	0.026	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS4	0.05	0.034	0.041	0.046	0.043	0.043	0.049	0.042	0.039	0.037	0.5	0.042	0.025	0.025	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	H	0.87	BS5	0.026	0.029	0.028	0.028	0.03	0.036	0.036	0.033	0.042	0.044	0.5	0.033	0.016	0.016	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	BS5	0.031	0.03	0.031	0.033	0.036	0.038	0.039	0.045	0.04	0.048	0.5	0.037	0.019	0.020	
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS5	0.034	0.034	0.034	0.034	0.037	0.038	0.043	0.042	0.035	0.036	0.5	0.037	0.019	0.019	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS1	0.055	0.058	0.059	0.053	0.052	0.056	0.053	0.045	0.05	0.059	0.5	0.054	0.041	0.041	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	BS1	0.06	0.057	0.047	0.046	0.042	0.053	0.054	0.044	0.049	0.059	0.5	0.051	0.036	0.036	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	H	0.84	BS1	0.052	0.05	0.045	0.045	0.053	0.055	0.055	0.059	0.063	0.07	0.5	0.055	0.040	0.040	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	H	0.86	BS2	0.062	0.055	0.055	0.056	0.052	0.056	0.048	0.054	0.061	0.057	0.5	0.056	0.043	0.044	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	BS2	0.051	0.052	0.054	0.058	0.051	0.059	0.062	0.058	0.06	0.06	0.5	0.057	0.043	0.044	
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS2	0.054	0.051	0.06	0.067	0.063	0.067	0.068	0.062	0.065	0.067	0.5	0.062	0.052	0.052	

Note:

MPE calculations are defined in section 14.0

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

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		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	60.0	59.0	CW	H	0.86	BS3	0.048	0.043	0.042	0.043	0.047	0.05	0.047	0.047	0.055	0.048	0.5	0.047	0.031	0.031
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	BS3	0.057	0.048	0.05	0.05	0.051	0.054	0.054	0.052	0.049	0.053	0.5	0.052	0.037	0.037
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60	59.3	CW	H	0.84	BS3	0.057	0.05	0.051	0.051	0.051	0.046	0.046	0.047	0.056	0.054	0.5	0.051	0.034	0.035
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	BS4	0.042	0.046	0.044	0.049	0.045	0.039	0.047	0.043	0.044	0.046	0.5	0.045	0.028	0.028
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60	59.3	CW	H	0.85	BS4	0.048	0.049	0.04	0.048	0.056	0.048	0.048	0.046	0.045	0.047	0.5	0.048	0.031	0.031
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS4	0.055	0.058	0.057	0.057	0.059	0.051	0.049	0.046	0.046	0.047	0.5	0.053	0.037	0.037
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	H	0.86	BS5	0.027	0.029	0.029	0.033	0.038	0.043	0.037	0.035	0.04	0.04	0.5	0.035	0.017	0.017
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	BS5	0.033	0.03	0.034	0.038	0.04	0.043	0.039	0.042	0.038	0.045	0.5	0.038	0.020	0.020
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	BS5	0.027	0.027	0.031	0.033	0.04	0.038	0.035	0.034	0.032	0.034	0.5	0.033	0.015	0.015

Note:

MPE calculations are defined in section 14.0

Table J.2
LMR 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				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	PB	0.059	0.056	0.046	0.5	0.054	0.027	0.028
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.035	0.05	0.038	0.5	0.041	0.021	0.021
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	PB	0.056	0.052	0.068	0.5	0.059	0.030	0.031
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	PB	0.026	0.012	0.025	0.5	0.021	0.011	0.011
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	PB	0.025	0.033	0.063	0.5	0.040	0.020	0.021
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	PB	0.091	0.085	0.057	0.5	0.078	0.040	0.041
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.078	0.079	0.067	0.5	0.075	0.038	0.039
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	PB	0.102	0.123	0.124	0.5	0.116	0.059	0.061
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	PB	0.097	0.072	0.084	0.5	0.084	0.043	0.043
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	PB	0.104	0.112	0.061	0.5	0.092	0.047	0.047
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	PB	0.216	0.209	0.208	0.5	0.211	0.108	0.111
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.259	0.193	0.212	0.5	0.221	0.113	0.116
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	PB	0.253	0.218	0.27	0.5	0.247	0.126	0.129
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	PB	0.194	0.173	0.176	0.5	0.181	0.092	0.094

Notes:

MPE calculations are defined in section 14.0
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Table J.2 (Continued)

LMR 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				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	E	1.02	PB	0.189	0.195	0.144	0.5	0.176	0.090	0.092
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.24	0.163	0.169	0.5	0.191	0.097	0.100
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	PB	0.153	0.221	0.18	0.5	0.185	0.094	0.096
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	PB	0.144	0.111	0.188	0.5	0.148	0.075	0.076
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PB	0.155	0.04	0.079	0.5	0.091	0.046	0.047
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	PB	0.415	0.212	0.17	0.5	0.266	0.135	0.139
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.207	0.112	0.152	0.5	0.157	0.080	0.082
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	PB	0.312	0.304	0.18	0.5	0.265	0.135	0.139
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	PB	0.093	0.145	0.12	0.5	0.119	0.060	0.061
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PB	0.116	0.054	0.042	0.5	0.071	0.036	0.036
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	E	1.02	PB	0.520	0.340	0.216	0.5	0.359	0.183	0.186
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	59	CW	E	1.02	PB	0.385	0.284	0.191	0.5	0.287	0.146	0.149
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60	58.4	CW	E	1.02	PB	0.39	0.28	0.203	0.5	0.291	0.148	0.152
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PB	0.397	0.361	0.275	0.5	0.344	0.176	0.180

Notes:

MPE calculations are defined in section 14.0

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Table J.2 (Continued)

LMR 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				
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	E	1.02	PB	0.362	0.338	0.283	0.5	0.328	0.167	0.171
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	PB	0.361	0.304	0.293	0.5	0.319	0.163	0.166
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	59	CW	E	1.02	PB	0.362	0.373	0.299	0.5	0.345	0.176	0.179
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	E	1.02	PB	0.343	0.328	0.282	0.5	0.318	0.162	0.165
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	E	1.01	PB	0.289	0.265	0.252	0.5	0.269	0.136	0.137
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PB	0.131	0.207	0.212	0.5	0.183	0.093	0.094
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	E	1.02	PF	0.004	0.004	0.007	0.5	0.005	0.003	0.003
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.009	0.01	0.011	0.5	0.010	0.005	0.005
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	PF	0.005	0.006	0.003	0.5	0.005	0.002	0.002
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	PF	0.018	0.01	0.007	0.5	0.012	0.006	0.006
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	PF	0.017	0.013	0.01	0.5	0.013	0.007	0.007

Note:

MPE calculations are defined in section 14.0

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Table J.2 (Continued)
LMR 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				
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	E	1.02	PF	0.017	0.015	0.017	0.5	0.016	0.008	0.009
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.014	0.013	0.006	0.5	0.011	0.006	0.006
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	E	1.02	PF	0.017	0.028	0.029	0.5	0.025	0.013	0.013
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	E	1.01	PF	0.039	0.063	0.029	0.5	0.044	0.022	0.022
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	E	1.01	PF	0.02	0.023	0.028	0.5	0.024	0.012	0.012
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	PF	0.051	0.051	0.177	0.5	0.093	0.047	0.049
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.048	0.107	0.078	0.5	0.078	0.040	0.041
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	PF	0.064	0.12	0.133	0.5	0.106	0.054	0.055
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	E	1.02	PF	0.071	0.133	0.08	0.5	0.095	0.048	0.049
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	E	1.02	PF	0.033	0.072	0.058	0.5	0.054	0.028	0.029
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.029	0.035	0.058	0.5	0.041	0.021	0.021
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	PF	0.069	0.101	0.132	0.5	0.101	0.051	0.053
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	PF	0.095	0.168	0.091	0.5	0.118	0.060	0.061
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PF	0.056	0.081	0.054	0.5	0.064	0.032	0.033

Notes:

MPE calculations are defined in section 14.0

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Table J.2 (Continued)

LMR 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				
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	E	1.02	PF	0.06	0.124	0.06	0.5	0.081	0.041	0.043
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.041	0.097	0.113	0.5	0.084	0.043	0.044
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	E	1.02	PF	0.065	0.064	0.075	0.5	0.068	0.035	0.036
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	E	1.01	PF	0.064	0.098	0.096	0.5	0.086	0.043	0.044
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PF	0.038	0.039	0.031	0.5	0.036	0.018	0.018
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	E	1.02	PF	0.047	0.102	0.084	0.5	0.078	0.040	0.040
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	E	1.02	PF	0.087	0.132	0.122	0.5	0.114	0.058	0.060
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60	58.4	CW	E	1.02	PF	0.109	0.143	0.129	0.5	0.127	0.065	0.067
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60.0	58.6	CW	E	1.02	PF	0.056	0.083	0.072	0.5	0.070	0.036	0.037
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	E	1.02	PF	0.058	0.071	0.053	0.5	0.061	0.031	0.032
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	E	1.02	PF	0.049	0.082	0.083	0.5	0.071	0.036	0.037
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	59	CW	E	1.02	PF	0.079	0.139	0.135	0.5	0.118	0.060	0.061

Notes:

MPE calculations are defined in section 14.0

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Table J.2 (Continued)
LMR 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				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	E	1.02	PF	0.084	0.136	0.134	0.5	0.118	0.060	0.061
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	E	1.01	PF	0.08	0.129	0.072	0.5	0.094	0.047	0.048
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	E	1.01	PF	0.046	0.049	0.040	0.5	0.045	0.023	0.023

Note:

MPE calculations are defined in section 14.0

Table J.2 (Continued)
LMR 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				
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60	58.3	CW	H	0.87	PB	0.029	0.033	0.031	0.5	0.031	0.014	0.014
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60	58.6	CW	H	0.87	PB	0.019	0.027	0.024	0.5	0.023	0.008	0.008
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60	58.6	CW	H	0.86	PB	0.033	0.037	0.033	0.5	0.034	0.016	0.017
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60	59	CW	H	0.85	PB	0.022	0.022	0.025	0.5	0.023	0.007	0.007
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60	59.3	CW	H	0.84	PB	0.035	0.027	0.026	0.5	0.029	0.011	0.012
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	144.0000	60.0	58.4	CW	H	0.87	PB	0.043	0.04	0.037	0.5	0.040	0.023	0.023
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	PB	0.037	0.034	0.037	0.5	0.036	0.018	0.019
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	PB	0.054	0.061	0.054	0.5	0.056	0.044	0.045
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	PB	0.046	0.044	0.05	0.5	0.047	0.030	0.030
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	PB	0.046	0.034	0.028	0.5	0.036	0.017	0.017
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	PB	0.083	0.096	0.084	0.5	0.088	0.110	0.113
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PB	0.084	0.087	0.076	0.5	0.082	0.097	0.099
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	PB	0.087	0.096	0.096	0.5	0.093	0.121	0.123
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	PB	0.078	0.087	0.085	0.5	0.083	0.097	0.098

Notes:

MPE calculations are defined in section 14.0
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Table J.2 (Continued)
LMR 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				
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	H	0.87	PB	0.077	0.079	0.07	0.5	0.075	0.081	0.083
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PB	0.074	0.074	0.066	0.5	0.071	0.073	0.074
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	PB	0.089	0.096	0.095	0.5	0.093	0.121	0.124
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	PB	0.071	0.083	0.084	0.5	0.079	0.086	0.087
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PB	0.059	0.035	0.027	0.5	0.040	0.022	0.022
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	PB	0.099	0.095	0.08	0.5	0.091	0.119	0.122
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PB	0.076	0.08	0.073	0.5	0.076	0.083	0.085
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	PB	0.079	0.095	0.093	0.5	0.089	0.110	0.113
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	PB	0.066	0.076	0.08	0.5	0.074	0.075	0.076
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PB	0.052	0.026	0.023	0.5	0.034	0.015	0.015
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	H	0.88	PB	0.104	0.092	0.082	0.5	0.093	0.125	0.127
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	H	0.87	PB	0.085	0.084	0.075	0.5	0.081	0.094	0.097

Notes:

MPE calculations are defined in section 14.0
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Table J.2 (Continued)
LMR VHF - 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/cm ²)	Calc. P.D. (mW/cm ²)	Max Calc. P.D. (mW/cm ²)
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	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60	58.4	CW	H	0.87	PB	0.094	0.086	0.078	0.5	0.086	0.106	0.108
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PB	0.099	0.095	0.089	0.5	0.094	0.127	0.130
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	H	0.87	PB	0.094	0.09	0.076	0.5	0.087	0.107	0.110
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	PB	0.095	0.104	0.097	0.5	0.099	0.136	0.139
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	59	CW	H	0.86	PB	0.088	0.107	0.102	0.5	0.099	0.137	0.139
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	H	0.86	PB	0.089	0.109	0.113	0.5	0.104	0.150	0.152
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	PB	0.086	0.1	0.104	0.5	0.097	0.127	0.129
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PB	0.089	0.061	0.070	0.5	0.073	0.072	0.072
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	146.0000	60.0	58.3	CW	H	0.87	PF	0.02	0.014	0.011	0.5	0.015	0.003	0.003
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.026	0.017	0.014	0.5	0.019	0.005	0.005
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	PF	0.018	0.016	0.013	0.5	0.016	0.003	0.004
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	PF	0.025	0.02	0.017	0.5	0.021	0.006	0.006
Roof	RAD4010ARB, 1/2 Wave (136-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	PF	0.029	0.026	0.018	0.5	0.024	0.008	0.008

Notes:

MPE calculations are defined in section 14.0
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Table J.2 (Continued)
LMR VHF - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
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	144.0000	60.0	58.4	CW	H	0.87	PF	0.023	0.024	0.019	0.5	0.022	0.007	0.007
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.033	0.021	0.016	0.5	0.023	0.008	0.008
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	158.0125	60.0	58.6	CW	H	0.86	PF	0.041	0.037	0.022	0.5	0.033	0.015	0.016
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	165.0125	60.0	59.0	CW	H	0.85	PF	0.05	0.049	0.03	0.5	0.043	0.025	0.026
Roof	HAD4022A, 5/8 Wave (132-174MHz)	5.15	173.0125	60.0	59.3	CW	H	0.84	PF	0.045	0.034	0.028	0.5	0.036	0.017	0.017
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	144.0000	60.0	58.4	CW	H	0.87	PF	0.067	0.065	0.038	0.5	0.057	0.046	0.047
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.074	0.058	0.055	0.5	0.062	0.055	0.057
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	PF	0.072	0.056	0.053	0.5	0.060	0.051	0.052
Roof	HAD4016A, 1/4 Wave (136-162MHz)	2.15	162.0000	60.0	59.0	CW	H	0.86	PF	0.082	0.074	0.045	0.5	0.067	0.063	0.064
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	146.0000	60.0	58.3	CW	H	0.87	PF	0.062	0.055	0.036	0.5	0.051	0.037	0.038
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.053	0.048	0.047	0.5	0.049	0.035	0.036
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	PF	0.065	0.064	0.055	0.5	0.061	0.052	0.054
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	PF	0.088	0.087	0.061	0.5	0.079	0.084	0.086
Roof	HAD4017A, 1/4 Wave (146-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PF	0.076	0.07	0.044	0.5	0.063	0.053	0.054

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

Table J.2 (Continued)**LMR VHF - 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		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	144.0000	60.0	58.4	CW	H	0.87	PF	0.064	0.063	0.041	0.5	0.056	0.045	0.046
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.065	0.097	0.047	0.5	0.070	0.069	0.071
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	158.0125	60.0	58.6	CW	H	0.86	PF	0.073	0.061	0.06	0.5	0.065	0.058	0.060
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	165.0125	60.0	59.0	CW	H	0.85	PF	0.066	0.06	0.047	0.5	0.058	0.045	0.046
Roof	HAD4021A, 1/4 Wave (136-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PF	0.056	0.055	0.038	0.5	0.050	0.033	0.033
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	140.0000	60.0	59.0	CW	H	0.88	PF	0.055	0.053	0.044	0.5	0.051	0.037	0.038
Roof	HAD4006A, 1/4 Wave (136-144MHz)	2.15	144.0000	60	58.4	CW	H	0.87	PF	0.065	0.061	0.056	0.5	0.061	0.053	0.054
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	144.0000	60	58.4	CW	H	0.87	PF	0.064	0.061	0.058	0.5	0.061	0.053	0.055
Roof	HAD4007A, 1/4 Wave (144-150.8MHz)	2.15	150.8000	60.0	58.6	CW	H	0.87	PF	0.054	0.053	0.047	0.5	0.051	0.038	0.038
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	150.8000	60	58.6	CW	H	0.87	PF	0.049	0.053	0.046	0.5	0.049	0.035	0.036
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	156.4000	60.0	58.7	CW	H	0.86	PF	0.055	0.057	0.054	0.5	0.055	0.043	0.044
Roof	HAD4008A, 1/4 Wave (150.8-162MHz)	2.15	162.0000	60	59	CW	H	0.86	PF	0.074	0.075	0.055	0.5	0.068	0.064	0.066

Notes:

MPE calculations are defined in section 14.0
 Blue fonts: Frequencies not regulated by FCC.

Table J.2 (Continued)**LMR 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				
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	162.0000	60	59	CW	H	0.86	PF	0.076	0.075	0.06	0.5	0.070	0.069	0.070
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	165.0125	60.0	59.3	CW	H	0.85	PF	0.079	0.068	0.049	0.5	0.065	0.058	0.059
Roof	HAD4009A, 1/4 Wave (162-174MHz)	2.15	173.0125	60.0	59.3	CW	H	0.84	PF	0.070	0.067	0.048	0.5	0.062	0.051	0.051

Note:

MPE calculations are defined in section 14.0

Appendix K – MPE Measurement Results for LMR UHF R1

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54	53.4	CW	E	0.99	BS1	0.02	0.013	0.025	0.038	0.063	0.086	0.073	0.046	0.022	0.025	0.5	0.041	0.02	0.021
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54.0	53.5	CW	E	1.00	BS1	0.021	0.028	0.054	0.065	0.1	0.108	0.081	0.034	0.013	0.014	0.5	0.052	0.03	0.026
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	BS1	0.033	0.044	0.082	0.104	0.133	0.148	0.121	0.075	0.026	0.01	0.5	0.078	0.04	0.040
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54.0	53.4	CW	E	0.99	BS2	0.031	0.032	0.036	0.041	0.043	0.052	0.056	0.035	0.018	0.023	0.5	0.037	0.02	0.018
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54.0	53.5	CW	E	1.00	BS2	0.028	0.029	0.03	0.033	0.035	0.037	0.038	0.027	0.009	0.008	0.5	0.027	0.01	0.014
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	BS2	0.036	0.033	0.034	0.035	0.049	0.06	0.064	0.042	0.024	0.009	0.5	0.039	0.02	0.020
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54	53.4	CW	E	0.99	BS3	0.033	0.034	0.038	0.039	0.041	0.028	0.023	0.021	0.02	0.016	0.5	0.029	0.01	0.015
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54.0	53.5	CW	E	1.00	BS3	0.023	0.025	0.026	0.044	0.049	0.022	0.018	0.016	0.015	0.013	0.5	0.025	0.01	0.013
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	BS3	0.036	0.039	0.05	0.051	0.053	0.044	0.04	0.032	0.015	0.008	0.5	0.037	0.02	0.019
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54.0	53.4	CW	E	0.99	BS4	0.04	0.041	0.03	0.044	0.047	0.032	0.019	0.017	0.002	0.001	0.5	0.027	0.01	0.014
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54	53.5	CW	E	1.00	BS4	0.03	0.031	0.025	0.031	0.029	0.024	0.012	0.002	0.001	0.002	0.5	0.019	0.01	0.009
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	BS4	0.025	0.027	0.02	0.032	0.036	0.026	0.015	0.01	0.009	0.013	0.5	0.021	0.01	0.011

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54.0	53.4	CW	E	0.99	BS5	0.001	0.002	0.004	0.007	0.011	0.014	0.015	0.013	0.011	0.002	0.5	0.008	0.00	0.004
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54	53.5	CW	E	1.00	BS5	0.002	0.006	0.009	0.009	0.014	0.014	0.009	0.004	0.002	0.002	0.5	0.007	0.00	0.004
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	BS5	0.002	0.007	0.01	0.015	0.031	0.034	0.022	0.012	0.008	0.01	0.5	0.015	0.01	0.008
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	BS1	0.008	0.004	0.007	0.012	0.013	0.032	0.079	0.163	0.22	0.225	0.5	0.076	0.04	0.038
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54	53.5	CW	E	1.00	BS1	0.003	0.004	0.006	0.008	0.062	0.067	0.081	0.105	0.156	0.177	0.5	0.067	0.03	0.034
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54.0	53.1	CW	E	1.01	BS1	0.008	0.01	0.011	0.014	0.02	0.043	0.082	0.147	0.213	0.226	0.5	0.077	0.04	0.040
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	BS2	0.002	0.004	0.008	0.011	0.02	0.036	0.071	0.128	0.17	0.185	0.5	0.064	0.03	0.032
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54	53.5	CW	E	1.00	BS2	0.002	0.004	0.008	0.015	0.036	0.05	0.09	0.122	0.125	0.147	0.5	0.060	0.03	0.030
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54.0	53.1	CW	E	1.01	BS2	0.003	0.003	0.005	0.007	0.014	0.039	0.081	0.144	0.197	0.21	0.5	0.070	0.04	0.036
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	BS3	0.005	0.006	0.007	0.02	0.031	0.051	0.093	0.141	0.168	0.159	0.5	0.068	0.03	0.034
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54	53.5	CW	E	1.00	BS3	0.001	0.003	0.004	0.008	0.011	0.026	0.039	0.062	0.075	0.077	0.5	0.031	0.02	0.015
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54.0	53.1	CW	E	1.01	BS3	0.002	0.005	0.007	0.009	0.011	0.019	0.036	0.06	0.08	0.094	0.5	0.032	0.02	0.017

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS4	0.008	0.015	0.017	0.024	0.03	0.042	0.044	0.057	0.05	0.063	0.5	0.035	0.02	0.018
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54.0	53.5	CW	E	1.00	BS4	0.004	0.007	0.008	0.014	0.019	0.025	0.03	0.043	0.041	0.069	0.5	0.026	0.01	0.013
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54	53.1	CW	E	1.01	BS4	0.004	0.006	0.007	0.013	0.023	0.033	0.04	0.045	0.051	0.054	0.5	0.028	0.01	0.014
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	BS5	0.001	0	0.002	0.008	0.004	0.035	0.049	0.059	0.068	0.071	0.5	0.030	0.01	0.015
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54.0	53.5	CW	E	1.00	BS5	0.001	0.001	0.002	0.004	0.006	0.009	0.014	0.017	0.025	0.035	0.5	0.011	0.01	0.006
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54	53.1	CW	E	1.01	BS5	0.002	0.002	0.002	0.004	0.002	0.009	0.013	0.016	0.026	0.046	0.5	0.012	0.01	0.006
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	BS1	0.01	0.011	0.013	0.027	0.045	0.073	0.11	0.127	0.144	0.13	0.5	0.069	0.03	0.035
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	BS1	0.012	0.018	0.036	0.054	0.09	0.126	0.13	0.148	0.158	0.163	0.5	0.094	0.05	0.047
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54	53.1	CW	E	1.01	BS1	0.02	0.03	0.053	0.068	0.09	0.106	0.113	0.13	0.124	0.186	0.5	0.092	0.05	0.047
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	BS2	0.017	0.019	0.024	0.027	0.041	0.056	0.072	0.086	0.094	0.107	0.5	0.054	0.03	0.027
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	BS2	0.021	0.023	0.027	0.032	0.037	0.053	0.075	0.095	0.111	0.121	0.5	0.060	0.03	0.030
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54	53.1	CW	E	1.01	BS2	0.02	0.019	0.018	0.018	0.023	0.042	0.07	0.109	0.156	0.177	0.5	0.065	0.03	0.033

MPE calculations are defined in section 14.0.

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

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		Bystander (BS) Positions													
										20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm				
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	BS3	0.024	0.028	0.031	0.048	0.051	0.052	0.067	0.091	0.107	0.113	0.5	0.061	0.03	0.031
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	BS3	0.022	0.027	0.029	0.041	0.045	0.046	0.07	0.089	0.101	0.097	0.5	0.057	0.03	0.029
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54	53.1	CW	E	1.01	BS3	0.021	0.023	0.025	0.028	0.029	0.046	0.053	0.068	0.078	0.077	0.5	0.045	0.02	0.023
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	BS4	0.015	0.032	0.02	0.026	0.036	0.036	0.034	0.032	0.028	0.031	0.5	0.029	0.01	0.015
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	BS4	0.027	0.028	0.024	0.029	0.043	0.041	0.033	0.027	0.027	0.04	0.5	0.032	0.02	0.016
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54.0	53.1	CW	E	1.01	BS4	0.022	0.026	0.024	0.032	0.054	0.051	0.043	0.032	0.023	0.034	0.5	0.034	0.02	0.018
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	BS5	0.002	0.002	0.005	0.014	0.027	0.039	0.043	0.039	0.038	0.05	0.5	0.026	0.01	0.013
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	BS5	0.002	0.002	0.004	0.006	0.013	0.02	0.031	0.031	0.03	0.027	0.5	0.017	0.01	0.008
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54.0	53.1	CW	E	1.01	BS5	0.002	0.005	0.004	0.011	0.014	0.021	0.028	0.033	0.036	0.041	0.5	0.020	0.01	0.010

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS1	0.011	0.013	0.014	0.027	0.048	0.096	0.136	0.162	0.172	0.171	0.5	0.085	0.04	0.043
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS1	0.011	0.017	0.034	0.06	0.101	0.14	0.155	0.161	0.159	0.151	0.5	0.099	0.05	0.050
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS1	0.022	0.03	0.056	0.077	0.109	0.144	0.16	0.166	0.17	0.175	0.5	0.111	0.06	0.057
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54	53.2	CW	E	1.02	BS1	0.022	0.027	0.04	0.053	0.075	0.089	0.107	0.123	0.135	0.166	0.5	0.084	0.04	0.043
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.028	0.04	0.056	0.074	0.118	0.159	0.194	0.215	0.234	0.246	0.5	0.136	0.070	0.071
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.018	0.026	0.04	0.055	0.071	0.079	0.091	0.105	0.119	0.135	0.5	0.074	0.04	0.039
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	54	53.4	CW	E	0.99	BS2	0.02	0.026	0.027	0.03	0.039	0.062	0.082	0.092	0.104	0.116	0.5	0.060	0.03	0.030
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS2	0.022	0.023	0.025	0.028	0.032	0.046	0.065	0.087	0.101	0.117	0.5	0.055	0.03	0.028
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS2	0.022	0.023	0.026	0.031	0.043	0.066	0.096	0.127	0.142	0.147	0.5	0.072	0.04	0.037
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.011	0.013	0.022	0.032	0.049	0.039	0.09	0.112	0.117	0.122	0.5	0.061	0.03	0.031
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.026	0.022	0.023	0.027	0.054	0.096	0.12	0.151	0.175	0.172	0.5	0.087	0.04	0.045
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.014	0.01	0.015	0.019	0.032	0.05	0.064	0.08	0.088	0.091	0.5	0.046	0.02	0.024

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS3	0.01	0.013	0.018	0.032	0.057	0.057	0.072	0.094	0.115	0.121	0.5	0.059	0.03	0.029
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS3	0.013	0.014	0.018	0.024	0.037	0.044	0.067	0.09	0.103	0.129	0.5	0.054	0.03	0.027
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS3	0.009	0.012	0.017	0.036	0.056	0.073	0.091	0.11	0.115	0.116	0.5	0.064	0.03	0.033
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.011	0.012	0.018	0.02	0.034	0.045	0.057	0.069	0.082	0.085	0.5	0.043	0.02	0.022
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	BS3	0.017	0.018	0.021	0.028	0.049	0.062	0.073	0.088	0.1	0.117	0.5	0.057	0.03	0.030
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.006	0.011	0.013	0.02	0.036	0.039	0.045	0.064	0.08	0.099	0.5	0.041	0.02	0.022
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	BS4	0.027	0.037	0.027	0.035	0.049	0.058	0.04	0.028	0.029	0.036	0.5	0.037	0.02	0.018
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS4	0.03	0.035	0.029	0.04	0.051	0.047	0.036	0.026	0.021	0.046	0.5	0.036	0.02	0.018
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS4	0.027	0.029	0.021	0.034	0.047	0.05	0.027	0.028	0.031	0.051	0.5	0.035	0.02	0.018
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.016	0.024	0.019	0.029	0.034	0.018	0.04	0.032	0.036	0.047	0.5	0.030	0.02	0.015
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	BS4	0.026	0.035	0.024	0.048	0.06	0.062	0.048	0.04	0.043	0.077	0.5	0.046	0.02	0.024
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.017	0.015	0.014	0.024	0.027	0.024	0.021	0.022	0.045	0.068	0.5	0.028	0.01	0.015

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS5	0.001	0.002	0.001	0.006	0.014	0.023	0.033	0.037	0.032	0.037	0.5	0.019	0.01	0.009
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS5	0.006	0.006	0.008	0.013	0.024	0.035	0.031	0.028	0.025	0.035	0.5	0.021	0.01	0.011
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS5	0.004	0.008	0.011	0.019	0.025	0.037	0.033	0.035	0.031	0.035	0.5	0.024	0.01	0.012
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.004	0.003	0.009	0.016	0.026	0.032	0.033	0.029	0.03	0.5	0.019	0.01	0.010
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	BS5	0.004	0.006	0.01	0.01	0.021	0.036	0.043	0.041	0.039	0.052	0.5	0.026	0.01	0.014
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.011	0.016	0.027	0.033	0.038	0.033	0.026	0.038	0.5	0.023	0.01	0.012
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	BS1	0.018	0.022	0.026	0.032	0.04	0.08	0.115	0.143	0.145	0.149	0.5	0.077	0.04	0.039
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS1	0.028	0.037	0.058	0.072	0.104	0.144	0.16	0.164	0.169	0.17	0.5	0.111	0.06	0.056
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS1	0.026	0.035	0.062	0.08	0.11	0.144	0.146	0.17	0.173	0.165	0.5	0.111	0.06	0.057
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS1	0.027	0.033	0.053	0.066	0.083	0.098	0.116	0.137	0.152	0.182	0.5	0.095	0.05	0.049
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54	53.3	CW	E	1.04	BS1	0.03	0.045	0.06	0.076	0.098	0.11	0.13	0.146	0.165	0.181	0.5	0.104	0.05	0.055

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS2	0.017	0.02	0.021	0.028	0.038	0.057	0.073	0.087	0.098	0.109	0.5	0.055	0.03	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS2	0.024	0.025	0.024	0.027	0.032	0.047	0.067	0.087	0.105	0.114	0.5	0.055	0.03	0.028
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS2	0.026	0.021	0.025	0.03	0.041	0.064	0.096	0.126	0.152	0.154	0.5	0.074	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.012	0.018	0.022	0.032	0.056	0.078	0.103	0.113	0.122	0.143	0.5	0.070	0.04	0.036
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.019	0.015	0.019	0.023	0.056	0.072	0.092	0.118	0.125	0.127	0.5	0.067	0.03	0.035
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	BS3	0.01	0.019	0.025	0.034	0.05	0.051	0.065	0.082	0.1	0.105	0.5	0.054	0.03	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS3	0.01	0.012	0.017	0.031	0.048	0.054	0.072	0.095	0.122	0.14	0.5	0.060	0.03	0.030
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS3	0.011	0.017	0.023	0.04	0.06	0.077	0.091	0.11	0.116	0.121	0.5	0.067	0.03	0.034
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.01	0.014	0.021	0.028	0.036	0.05	0.065	0.077	0.086	0.094	0.5	0.048	0.02	0.025
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54	53.3	CW	E	1.04	BS3	0.011	0.012	0.016	0.02	0.047	0.055	0.064	0.089	0.126	0.14	0.5	0.058	0.03	0.031

MPE calculations are defined in section 14.0.

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

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		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	406.5000	54.0	53.4	CW	E	0.99	BS4	0.023	0.031	0.022	0.034	0.037	0.039	0.035	0.026	0.025	0.03	0.5	0.030	0.01	0.015
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS4	0.029	0.034	0.033	0.046	0.046	0.051	0.04	0.027	0.024	0.045	0.5	0.038	0.02	0.019
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS4	0.028	0.026	0.02	0.033	0.059	0.051	0.037	0.032	0.03	0.059	0.5	0.038	0.02	0.019
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	BS4	0.026	0.029	0.021	0.03	0.037	0.04	0.038	0.044	0.039	0.051	0.5	0.036	0.02	0.018
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.023	0.018	0.017	0.021	0.036	0.038	0.027	0.027	0.052	0.079	0.5	0.034	0.02	0.018
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	54	53.4	CW	E	0.99	BS5	0.001	0.002	0.003	0.007	0.012	0.019	0.027	0.031	0.029	0.032	0.5	0.016	0.01	0.008
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	BS5	0.002	0.006	0.01	0.012	0.02	0.03	0.031	0.027	0.03	0.041	0.5	0.021	0.01	0.011
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	BS5	0.005	0.007	0.01	0.019	0.028	0.04	0.042	0.045	0.037	0.043	0.5	0.028	0.01	0.014
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.005	0.006	0.008	0.015	0.026	0.03	0.032	0.037	0.064	0.5	0.023	0.01	0.012
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.002	0.008	0.012	0.018	0.033	0.04	0.046	0.03	0.032	0.043	0.5	0.026	0.01	0.014

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS1	0.005	0.006	0.007	0.009	0.012	0.02	0.099	0.13	0.208	0.232	0.5	0.073	0.04	0.038
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	BS1	0.006	0.01	0.011	0.013	0.015	0.046	0.159	0.204	0.265	0.275	0.5	0.100	0.05	0.053
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.015	0.02	0.021	0.023	0.025	0.037	0.078	0.146	0.261	0.217	0.5	0.084	0.04	0.044
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.003	0.003	0.003	0.003	0.007	0.016	0.043	0.102	0.178	0.211	0.5	0.057	0.03	0.029
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.003	0.003	0.002	0.002	0.007	0.026	0.076	0.159	0.228	0.246	0.5	0.075	0.04	0.039
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54	53.3	CW	E	1.04	BS2	0.003	0.002	0.003	0.009	0.01	0.028	0.061	0.105	0.16	0.183	0.5	0.056	0.03	0.030
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.001	0.001	0.002	0.005	0.008	0.012	0.028	0.049	0.072	0.103	0.5	0.028	0.01	0.015
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.002	0.002	0.005	0.01	0.02	0.037	0.061	0.089	0.116	0.128	0.5	0.047	0.02	0.025
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.002	0.003	0.008	0.012	0.025	0.041	0.067	0.104	0.147	0.161	0.5	0.057	0.03	0.030
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.001	0.002	0.003	0.005	0.011	0.022	0.039	0.064	0.085	0.098	0.5	0.033	0.02	0.017
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	BS4	0.005	0.008	0.009	0.016	0.03	0.046	0.058	0.082	0.107	0.114	0.5	0.048	0.02	0.025
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.004	0.005	0.008	0.017	0.026	0.035	0.045	0.065	0.088	0.108	0.5	0.040	0.02	0.021

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS5	0.002	0.003	0.004	0.005	0.007	0.014	0.023	0.033	0.041	0.042	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.002	0.004	0.007	0.017	0.023	0.034	0.045	0.051	0.065	0.081	0.5	0.033	0.02	0.017
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54	53.3	CW	E	1.04	BS5	0.004	0.006	0.01	0.016	0.026	0.04	0.05	0.059	0.075	0.101	0.5	0.039	0.02	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS1	0.001	0.002	0.004	0.012	0.027	0.054	0.091	0.155	0.209	0.229	0.5	0.078	0.04	0.041
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS1	0.003	0.004	0.007	0.01	0.054	0.073	0.134	0.194	0.241	0.245	0.5	0.097	0.05	0.051
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS1	0.002	0.003	0.006	0.01	0.02	0.034	0.061	0.101	0.131	0.148	0.5	0.052	0.03	0.027
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS2	0.003	0.007	0.016	0.027	0.047	0.082	0.116	0.131	0.173	0.175	0.5	0.078	0.04	0.040
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54	53.1	CW	E	1.03	BS2	0.003	0.005	0.007	0.011	0.023	0.059	0.163	0.178	0.214	0.196	0.5	0.086	0.04	0.045
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS2	0.002	0.002	0.003	0.005	0.014	0.035	0.056	0.084	0.109	0.103	0.5	0.041	0.02	0.022
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS3	0.001	0.002	0.005	0.015	0.03	0.049	0.077	0.09	0.097	0.099	0.5	0.047	0.02	0.024
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS3	0.002	0.007	0.015	0.03	0.04	0.056	0.076	0.096	0.097	0.102	0.5	0.052	0.03	0.027
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54	53.3	CW	E	1.04	BS3	0.002	0.003	0.005	0.011	0.028	0.039	0.051	0.07	0.086	0.087	0.5	0.038	0.02	0.020

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS4	0.014	0.018	0.015	0.028	0.033	0.036	0.037	0.053	0.069	0.095	0.5	0.040	0.02	0.021
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS4	0.012	0.016	0.016	0.026	0.033	0.054	0.047	0.061	0.079	0.095	0.5	0.044	0.02	0.023
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS4	0.008	0.005	0.007	0.014	0.02	0.028	0.025	0.035	0.05	0.062	0.5	0.025	0.01	0.013
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.005	0.007	0.011	0.02	0.037	0.038	0.038	0.042	0.044	0.5	0.025	0.01	0.013
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54	53.1	CW	E	1.03	BS5	0.004	0.006	0.011	0.015	0.031	0.045	0.048	0.049	0.049	0.063	0.5	0.032	0.02	0.017
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.008	0.015	0.024	0.021	0.034	0.033	0.035	0.051	0.5	0.023	0.01	0.012
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS1	0.025	0.03	0.047	0.058	0.077	0.092	0.111	0.126	0.141	0.19	0.5	0.090	0.05	0.046
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.024	0.03	0.047	0.063	0.097	0.131	0.158	0.18	0.197	0.23	0.5	0.116	0.06	0.061
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.025	0.036	0.051	0.071	0.09	0.103	0.122	0.133	0.154	0.194	0.5	0.098	0.05	0.052
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.013	0.014	0.022	0.023	0.029	0.047	0.066	0.092	0.116	0.147	0.5	0.057	0.03	0.029
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.019	0.021	0.022	0.023	0.041	0.071	0.096	0.128	0.155	0.157	0.5	0.073	0.04	0.038
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.021	0.022	0.023	0.028	0.05	0.072	0.081	0.093	0.112	0.121	0.5	0.062	0.03	0.033

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS3	0.008	0.015	0.027	0.03	0.036	0.048	0.067	0.078	0.083	0.097	0.5	0.049	0.02	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.012	0.02	0.033	0.04	0.045	0.055	0.066	0.075	0.091	0.113	0.5	0.055	0.03	0.029
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.013	0.025	0.033	0.039	0.046	0.052	0.057	0.084	0.12	0.145	0.5	0.061	0.03	0.032
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.025	0.026	0.02	0.027	0.038	0.039	0.033	0.031	0.034	0.055	0.5	0.033	0.02	0.017
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.03	0.031	0.019	0.032	0.052	0.05	0.049	0.045	0.046	0.065	0.5	0.042	0.02	0.022
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.024	0.017	0.013	0.03	0.046	0.041	0.035	0.026	0.046	0.077	0.5	0.036	0.02	0.019
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.004	0.005	0.005	0.007	0.013	0.025	0.034	0.038	0.032	0.024	0.5	0.019	0.01	0.010
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.003	0.005	0.008	0.007	0.015	0.029	0.038	0.035	0.036	0.041	0.5	0.022	0.01	0.011
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.005	0.007	0.008	0.019	0.025	0.037	0.036	0.029	0.02	0.028	0.5	0.021	0.01	0.011
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS1	0.009	0.012	0.018	0.021	0.026	0.03	0.037	0.044	0.047	0.059	0.5	0.030	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.006	0.008	0.012	0.016	0.025	0.033	0.041	0.048	0.052	0.061	0.5	0.030	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.009	0.015	0.022	0.03	0.037	0.042	0.051	0.056	0.064	0.079	0.5	0.041	0.02	0.021

MPE calculations are defined in section 14.0.

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

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		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	54	53.2	CW	E	1.02	BS2	0.002	0.004	0.007	0.007	0.008	0.012	0.017	0.023	0.028	0.033	0.5	0.014	0.01	0.007
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.007	0.007	0.014	0.015	0.02	0.024	0.034	0.044	0.055	0.058	0.5	0.028	0.01	0.015
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.002	0.005	0.006	0.007	0.014	0.02	0.023	0.029	0.034	0.037	0.5	0.018	0.01	0.009
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS3	0.011	0.016	0.017	0.022	0.026	0.036	0.041	0.048	0.047	0.05	0.5	0.031	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.01	0.015	0.019	0.023	0.024	0.029	0.031	0.033	0.04	0.049	0.5	0.027	0.01	0.014
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.008	0.01	0.011	0.014	0.015	0.019	0.022	0.029	0.04	0.051	0.5	0.022	0.01	0.012
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS4	0.007	0.006	0.004	0.007	0.008	0.009	0.007	0.006	0.008	0.013	0.5	0.008	0.00	0.004
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.012	0.011	0.007	0.011	0.016	0.018	0.017	0.015	0.017	0.026	0.5	0.015	0.01	0.008
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.008	0.005	0.003	0.009	0.011	0.012	0.01	0.009	0.013	0.024	0.5	0.010	0.01	0.005
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS5	0.003	0.003	0.004	0.006	0.009	0.022	0.025	0.03	0.025	0.017	0.5	0.014	0.01	0.007
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.002	0.004	0.007	0.007	0.011	0.025	0.031	0.03	0.027	0.032	0.5	0.018	0.01	0.009
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.008	0.015	0.025	0.035	0.037	0.037	0.027	0.041	0.5	0.024	0.01	0.012

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS1	0.022	0.033	0.046	0.062	0.076	0.089	0.111	0.136	0.152	0.187	0.5	0.091	0.05	0.047
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.026	0.038	0.053	0.063	0.097	0.138	0.173	0.193	0.213	0.237	0.5	0.123	0.06	0.064
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.027	0.038	0.058	0.08	0.101	0.118	0.146	0.149	0.163	0.191	0.5	0.107	0.06	0.056
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.015	0.016	0.024	0.028	0.037	0.054	0.078	0.107	0.137	0.16	0.5	0.066	0.03	0.034
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.023	0.024	0.026	0.028	0.047	0.081	0.112	0.148	0.174	0.176	0.5	0.084	0.04	0.044
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.019	0.021	0.022	0.032	0.05	0.072	0.085	0.104	0.122	0.13	0.5	0.066	0.03	0.035
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.015	0.019	0.028	0.037	0.045	0.055	0.074	0.085	0.096	0.111	0.5	0.057	0.03	0.029
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.016	0.022	0.031	0.042	0.048	0.058	0.069	0.087	0.103	0.12	0.5	0.060	0.03	0.031
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.017	0.02	0.03	0.041	0.047	0.05	0.057	0.08	0.126	0.142	0.5	0.061	0.03	0.032

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS4	0.031	0.028	0.022	0.031	0.037	0.04	0.036	0.031	0.044	0.071	0.5	0.037	0.02	0.019
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.032	0.034	0.022	0.033	0.053	0.055	0.055	0.048	0.058	0.079	0.5	0.047	0.02	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.025	0.017	0.017	0.035	0.038	0.04	0.031	0.05	0.053	0.085	0.5	0.039	0.02	0.021
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.004	0.005	0.005	0.009	0.019	0.031	0.038	0.037	0.03	0.026	0.5	0.020	0.01	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.003	0.005	0.011	0.009	0.019	0.038	0.043	0.039	0.035	0.043	0.5	0.025	0.01	0.013
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.005	0.008	0.011	0.018	0.029	0.038	0.047	0.037	0.032	0.044	0.5	0.027	0.01	0.014

MPE calculations are defined in section 14.0.

Table K.2
LMR UHF R1 - 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		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54.0	53.4	CW	E	0.99	PB	0.151	0.072	0.156	0.5	0.126	0.063	0.063
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54.0	53.5	CW	E	1.00	PB	0.047	0.092	0.065	0.5	0.068	0.03	0.034
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	PB	0.072	0.045	0.055	0.5	0.057	0.03	0.029
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	PB	0.031	0.031	0.02	0.5	0.027	0.01	0.014
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54.0	53.5	CW	E	1.00	PB	0.013	0.024	0.016	0.5	0.018	0.01	0.009
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54.0	53.1	CW	E	1.01	PB	0.005	0.02	0.018	0.5	0.014	0.01	0.007
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	PB	0.144	0.058	0.122	0.5	0.108	0.05	0.054
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	PB	0.032	0.057	0.032	0.5	0.040	0.02	0.020
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54.0	53.1	CW	E	1.01	PB	0.085	0.049	0.07	0.5	0.068	0.03	0.035

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	PB	0.133	0.065	0.083	0.5	0.094	0.05	0.047
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	PB	0.053	0.028	0.035	0.5	0.039	0.02	0.020
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	PB	0.113	0.097	0.108	0.5	0.106	0.05	0.055
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.062	0.054	0.114	0.5	0.077	0.04	0.040
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.046	0.049	0.047	0.5	0.047	0.02	0.025
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.082	0.071	0.104	0.5	0.086	0.04	0.045
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	PB	0.166	0.072	0.111	0.5	0.116	0.06	0.058
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	PB	0.055	0.077	0.031	0.5	0.054	0.03	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	PB	0.063	0.096	0.11	0.5	0.090	0.05	0.046
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.111	0.076	0.128	0.5	0.105	0.05	0.054
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.077	0.072	0.109	0.5	0.086	0.04	0.045

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.014	0.014	0.02	0.5	0.016	0.01	0.008
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.008	0.007	0.007	0.5	0.007	0.00	0.004
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.019	0.014	0.02	0.5	0.018	0.01	0.009
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	PB	0.039	0.018	0.008	0.5	0.022	0.01	0.011
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	PB	0.019	0.016	0.019	0.5	0.018	0.01	0.009
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	PB	0.025	0.025	0.032	0.5	0.027	0.01	0.014
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.057	0.064	0.095	0.5	0.072	0.04	0.037
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.048	0.047	0.05	0.5	0.048	0.02	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.055	0.049	0.053	0.5	0.052	0.03	0.028
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.049	0.065	0.112	0.5	0.075	0.04	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.059	0.074	0.078	0.5	0.070	0.04	0.037
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.038	0.082	0.125	0.5	0.082	0.04	0.043

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.083	0.058	0.123	0.5	0.088	0.04	0.046
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.055	0.076	0.078	0.5	0.070	0.04	0.036
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.077	0.063	0.113	0.5	0.084	0.04	0.044
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	406.5000	54.0	53.4	CW	E	0.99	PF	0.027	0.07	0.025	0.5	0.041	0.02	0.020
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	419.5000	54.0	53.5	CW	E	1.00	PF	0.035	0.067	0.053	0.5	0.052	0.03	0.026
Roof	HAE6010A, 1/2 Wave (380-433MHz)	5.65	432.9875	54.0	53.1	CW	E	1.01	PF	0.027	0.019	0.07	0.5	0.039	0.02	0.020
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	406.5000	54.0	53.4	CW	E	0.99	PF	0.007	0.014	0.005	0.5	0.009	0.00	0.004
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	419.5000	54.0	53.5	CW	E	1.00	PF	0.012	0.022	0.012	0.5	0.015	0.01	0.008
Roof	HAE6011A, 5/8 Wave (380-433MHz)	7.15	432.9875	54.0	53.1	CW	E	1.01	PF	0.003	0.003	0.013	0.5	0.006	0.00	0.003
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	406.5000	54.0	53.4	CW	E	0.99	PF	0.036	0.075	0.027	0.5	0.046	0.02	0.023
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	419.5000	54.0	53.5	CW	E	1.00	PF	0.054	0.062	0.038	0.5	0.051	0.03	0.026
Roof	HAE6012A, 1/4 Wave (380-433MHz)	2.15	432.9875	54.0	53.1	CW	E	1.01	PF	0.046	0.032	0.056	0.5	0.045	0.02	0.023

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	PF	0.025	0.054	0.017	0.5	0.032	0.02	0.016
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	PF	0.042	0.057	0.062	0.5	0.054	0.03	0.027
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	PF	0.041	0.05	0.088	0.5	0.060	0.03	0.031
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	406.5000	54.0	53.4	CW	E	0.99	PF	0.031	0.044	0.027	0.5	0.034	0.02	0.017
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	422.0125	54.0	53.5	CW	E	1.00	PF	0.029	0.056	0.049	0.5	0.045	0.02	0.023
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	438.0125	54.0	53.0	CW	E	1.01	PF	0.028	0.051	0.08	0.5	0.053	0.03	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	PF	0.033	0.028	0.029	0.5	0.030	0.02	0.016	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	PF	0.022	0.017	0.023	0.5	0.021	0.01	0.011	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	PF	0.006	0.01	0.026	0.5	0.014	0.01	0.007	
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.028	0.059	0.116	0.5	0.068	0.03	0.035	
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PF	0.062	0.041	0.074	0.5	0.059	0.03	0.031	
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.04	0.042	0.089	0.5	0.057	0.03	0.030	

MPE calculations are defined in section 14.0.

Table K.2 (Continued)
LMR UHF R1 - 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		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	54.0	53.2	CW	E	1.02	PF	0.044	0.038	0.075	0.5	0.052	0.03	0.027
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PF	0.061	0.04	0.08	0.5	0.060	0.03	0.032
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.024	0.024	0.082	0.5	0.043	0.02	0.023
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.072	0.074	0.13	0.5	0.092	0.05	0.048
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	PF	0.065	0.028	0.114	0.5	0.069	0.04	0.036
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.038	0.031	0.127	0.5	0.065	0.03	0.034

MPE calculations are defined in section 14.0.

Appendix L – MPE Measurement Results for LMR UHF R2

Table L.1
LMR UHF R2 - MPE measurement data for Bystander

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		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	54.0	53.2	CW	E	1.02	BS1	0.022	0.027	0.04	0.053	0.075	0.089	0.107	0.123	0.135	0.166	0.5	0.084	0.04	0.043
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.028	0.04	0.056	0.074	0.118	0.159	0.194	0.215	0.234	0.246	0.5	0.136	0.070	0.071
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.018	0.026	0.04	0.055	0.071	0.079	0.091	0.105	0.119	0.135	0.5	0.074	0.04	0.039
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54	53.2	CW	E	1.02	BS2	0.011	0.013	0.022	0.032	0.049	0.039	0.09	0.112	0.117	0.122	0.5	0.061	0.03	0.031
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.026	0.022	0.023	0.027	0.054	0.096	0.12	0.151	0.175	0.172	0.5	0.087	0.04	0.045
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.014	0.01	0.015	0.019	0.032	0.05	0.064	0.08	0.088	0.091	0.5	0.046	0.02	0.024
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.011	0.012	0.018	0.02	0.034	0.045	0.057	0.069	0.082	0.085	0.5	0.043	0.02	0.022
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.017	0.018	0.021	0.028	0.049	0.062	0.073	0.088	0.1	0.117	0.5	0.057	0.03	0.030
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.006	0.011	0.013	0.02	0.036	0.039	0.045	0.064	0.08	0.099	0.5	0.041	0.02	0.022
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.016	0.024	0.019	0.029	0.034	0.018	0.04	0.032	0.036	0.047	0.5	0.030	0.02	0.015
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.026	0.035	0.024	0.048	0.06	0.062	0.048	0.04	0.043	0.077	0.5	0.046	0.02	0.024
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.017	0.015	0.014	0.024	0.027	0.024	0.021	0.022	0.045	0.068	0.5	0.028	0.01	0.015

MPE calculations are defined in section 14.0.

Table L.1 (Continued)
LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54	53.2	CW	E	1.02	BS5	0.003	0.004	0.003	0.009	0.016	0.026	0.032	0.033	0.029	0.03	0.5	0.019	0.01	0.010	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.004	0.006	0.01	0.01	0.021	0.036	0.043	0.041	0.039	0.052	0.5	0.026	0.01	0.014	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.011	0.016	0.027	0.033	0.038	0.033	0.026	0.038	0.5	0.023	0.01	0.012	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS1	0.027	0.033	0.053	0.066	0.083	0.098	0.116	0.137	0.152	0.182	0.5	0.095	0.05	0.049	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.03	0.045	0.06	0.076	0.098	0.11	0.13	0.146	0.165	0.181	0.5	0.104	0.05	0.055	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS1	0.031	0.048	0.056	0.068	0.087	0.098	0.13	0.165	0.19	0.193	0.5	0.107	0.06	0.056	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS1	0.024	0.037	0.049	0.06	0.077	0.091	0.115	0.13	0.15	0.155	0.5	0.089	0.05	0.048	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS1	0.027	0.041	0.055	0.07	0.084	0.094	0.127	0.169	0.199	0.201	0.5	0.107	0.06	0.057	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.012	0.018	0.022	0.032	0.056	0.078	0.103	0.113	0.122	0.143	0.5	0.070	0.04	0.036	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.019	0.015	0.019	0.023	0.056	0.072	0.092	0.118	0.125	0.127	0.5	0.067	0.03	0.035	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS2	0.016	0.015	0.021	0.028	0.055	0.086	0.109	0.136	0.161	0.178	0.5	0.081	0.04	0.043	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS2	0.009	0.007	0.019	0.026	0.049	0.072	0.085	0.117	0.143	0.164	0.5	0.069	0.04	0.038	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS2	0.007	0.004	0.02	0.027	0.051	0.084	0.127	0.138	0.142	0.149	0.5	0.075	0.04	0.040	

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS3	0.01	0.014	0.021	0.028	0.036	0.05	0.065	0.077	0.086	0.094	0.5	0.048	0.02	0.025
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.011	0.012	0.016	0.02	0.047	0.055	0.064	0.089	0.126	0.14	0.5	0.058	0.03	0.031
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS3	0.006	0.009	0.033	0.046	0.063	0.08	0.11	0.108	0.113	0.124	0.5	0.069	0.04	0.037
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48	46.7	CW	E	1.06	BS3	0.009	0.01	0.013	0.022	0.042	0.054	0.075	0.088	0.089	0.092	0.5	0.049	0.03	0.027
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS3	0.005	0.006	0.013	0.018	0.049	0.056	0.062	0.081	0.086	0.097	0.5	0.047	0.03	0.025
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.026	0.029	0.021	0.03	0.037	0.04	0.038	0.044	0.039	0.051	0.5	0.036	0.02	0.018
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.023	0.018	0.017	0.021	0.036	0.038	0.027	0.027	0.052	0.079	0.5	0.034	0.02	0.018
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS4	0.018	0.015	0.019	0.033	0.034	0.036	0.032	0.034	0.054	0.082	0.5	0.036	0.02	0.019
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48	46.7	CW	E	1.06	BS4	0.02	0.013	0.013	0.029	0.033	0.036	0.026	0.023	0.047	0.065	0.5	0.031	0.02	0.017
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS4	0.019	0.012	0.016	0.025	0.04	0.033	0.033	0.037	0.048	0.067	0.5	0.033	0.02	0.018

MPE calculations are defined in section 14.0.

Table L.1 (Continued)
LMR UHF R2 - 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	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.005	0.006	0.008	0.015	0.026	0.03	0.032	0.037	0.064	0.5	0.023	0.01	0.012	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.002	0.008	0.012	0.018	0.033	0.04	0.046	0.03	0.032	0.043	0.5	0.026	0.01	0.014	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS5	0.003	0.005	0.007	0.018	0.03	0.042	0.055	0.04	0.044	0.059	0.5	0.030	0.02	0.016	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS5	0.002	0.006	0.007	0.011	0.023	0.029	0.033	0.038	0.043	0.056	0.5	0.025	0.01	0.014	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	BS5	0.002	0.006	0.009	0.016	0.028	0.037	0.04	0.033	0.046	0.071	0.5	0.029	0.02	0.015	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS1	0.005	0.006	0.007	0.009	0.012	0.02	0.099	0.13	0.208	0.232	0.5	0.073	0.04	0.038	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.006	0.01	0.011	0.013	0.015	0.046	0.159	0.204	0.265	0.275	0.5	0.100	0.05	0.053	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.015	0.02	0.021	0.023	0.025	0.037	0.078	0.146	0.261	0.217	0.5	0.084	0.04	0.044	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.003	0.003	0.003	0.003	0.007	0.016	0.043	0.102	0.178	0.211	0.5	0.057	0.03	0.029	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	BS2	0.003	0.003	0.002	0.002	0.007	0.026	0.076	0.159	0.228	0.246	0.5	0.075	0.04	0.039	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.003	0.002	0.003	0.009	0.01	0.028	0.061	0.105	0.16	0.183	0.5	0.056	0.03	0.030	

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS3	0.001	0.001	0.002	0.005	0.008	0.012	0.028	0.049	0.072	0.103	0.5	0.028	0.01	0.015
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.002	0.002	0.005	0.01	0.02	0.037	0.061	0.089	0.116	0.128	0.5	0.047	0.02	0.025
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.002	0.003	0.008	0.012	0.025	0.041	0.067	0.104	0.147	0.161	0.5	0.057	0.03	0.030
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.001	0.002	0.003	0.005	0.011	0.022	0.039	0.064	0.085	0.098	0.5	0.033	0.02	0.017
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	BS4	0.005	0.008	0.009	0.016	0.03	0.046	0.058	0.082	0.107	0.114	0.5	0.048	0.02	0.025
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.004	0.005	0.008	0.017	0.026	0.035	0.045	0.065	0.088	0.108	0.5	0.040	0.02	0.021
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.002	0.003	0.004	0.005	0.007	0.014	0.023	0.033	0.041	0.042	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.002	0.004	0.007	0.017	0.023	0.034	0.045	0.051	0.065	0.081	0.5	0.033	0.02	0.017
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.01	0.016	0.026	0.04	0.05	0.059	0.075	0.101	0.5	0.039	0.02	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS1	0.001	0.002	0.004	0.012	0.027	0.054	0.091	0.155	0.209	0.229	0.5	0.078	0.04	0.041
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS1	0.003	0.004	0.007	0.01	0.054	0.073	0.134	0.194	0.241	0.245	0.5	0.097	0.05	0.051
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS1	0.002	0.003	0.006	0.01	0.02	0.034	0.061	0.101	0.131	0.148	0.5	0.052	0.03	0.027

MPE calculations are defined in section 14.0.

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

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		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	54	53.2	CW	E	1.02	BS2	0.003	0.007	0.016	0.027	0.047	0.082	0.116	0.131	0.173	0.175	0.5	0.078	0.04	0.040
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS2	0.003	0.005	0.007	0.011	0.023	0.059	0.163	0.178	0.214	0.196	0.5	0.086	0.04	0.045
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS2	0.002	0.002	0.003	0.005	0.014	0.035	0.056	0.084	0.109	0.103	0.5	0.041	0.02	0.022
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS3	0.001	0.002	0.005	0.015	0.03	0.049	0.077	0.09	0.097	0.099	0.5	0.047	0.02	0.024
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS3	0.002	0.007	0.015	0.03	0.04	0.056	0.076	0.096	0.097	0.102	0.5	0.052	0.03	0.027
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS3	0.002	0.003	0.005	0.011	0.028	0.039	0.051	0.07	0.086	0.087	0.5	0.038	0.02	0.020
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS4	0.014	0.018	0.015	0.028	0.033	0.036	0.037	0.053	0.069	0.095	0.5	0.040	0.02	0.021
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS4	0.012	0.016	0.016	0.026	0.033	0.054	0.047	0.061	0.079	0.095	0.5	0.044	0.02	0.023
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS4	0.008	0.005	0.007	0.014	0.02	0.028	0.025	0.035	0.05	0.062	0.5	0.025	0.01	0.013
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.005	0.007	0.011	0.02	0.037	0.038	0.038	0.042	0.044	0.5	0.025	0.01	0.013
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	BS5	0.004	0.006	0.011	0.015	0.031	0.045	0.048	0.049	0.049	0.063	0.5	0.032	0.02	0.017
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.008	0.015	0.024	0.021	0.034	0.033	0.035	0.051	0.5	0.023	0.01	0.012

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS1	0.025	0.03	0.047	0.058	0.077	0.092	0.111	0.126	0.141	0.19	0.5	0.090	0.05	0.046
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.024	0.03	0.047	0.063	0.097	0.131	0.158	0.18	0.197	0.23	0.5	0.116	0.06	0.061
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.025	0.036	0.051	0.071	0.09	0.103	0.122	0.133	0.154	0.194	0.5	0.098	0.05	0.052
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.013	0.014	0.022	0.023	0.029	0.047	0.066	0.092	0.116	0.147	0.5	0.057	0.03	0.029
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54	53.1	CW	E	1.03	BS2	0.019	0.021	0.022	0.023	0.041	0.071	0.096	0.128	0.155	0.157	0.5	0.073	0.04	0.038
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.021	0.022	0.023	0.028	0.05	0.072	0.081	0.093	0.112	0.121	0.5	0.062	0.03	0.033
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.008	0.015	0.027	0.03	0.036	0.048	0.067	0.078	0.083	0.097	0.5	0.049	0.02	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.012	0.02	0.033	0.04	0.045	0.055	0.066	0.075	0.091	0.113	0.5	0.055	0.03	0.029
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.013	0.025	0.033	0.039	0.046	0.052	0.057	0.084	0.12	0.145	0.5	0.061	0.03	0.032
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS4	0.025	0.026	0.02	0.027	0.038	0.039	0.033	0.031	0.034	0.055	0.5	0.033	0.02	0.017
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.03	0.031	0.019	0.032	0.052	0.05	0.049	0.045	0.046	0.065	0.5	0.042	0.02	0.022
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.024	0.017	0.013	0.03	0.046	0.041	0.035	0.026	0.046	0.077	0.5	0.036	0.02	0.019

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS5	0.004	0.005	0.005	0.007	0.013	0.025	0.034	0.038	0.032	0.024	0.5	0.019	0.01	0.010
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.003	0.005	0.008	0.007	0.015	0.029	0.038	0.035	0.036	0.041	0.5	0.022	0.01	0.011
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.005	0.007	0.008	0.019	0.025	0.037	0.036	0.029	0.02	0.028	0.5	0.021	0.01	0.011
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54	53.2	CW	E	1.02	BS1	0.009	0.012	0.018	0.021	0.026	0.03	0.037	0.044	0.047	0.059	0.5	0.030	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54	53.1	CW	E	1.03	BS1	0.006	0.008	0.012	0.016	0.025	0.033	0.041	0.048	0.052	0.061	0.5	0.030	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.009	0.015	0.022	0.03	0.037	0.042	0.051	0.056	0.064	0.079	0.5	0.041	0.02	0.021
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS1	0.009	0.01	0.013	0.019	0.024	0.029	0.038	0.048	0.061	0.077	0.5	0.033	0.02	0.017
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS1	0.012	0.015	0.024	0.027	0.032	0.04	0.055	0.068	0.085	0.093	0.5	0.045	0.02	0.025
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS1	0.01	0.011	0.02	0.024	0.029	0.032	0.038	0.055	0.074	0.078	0.5	0.037	0.02	0.020

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS2	0.002	0.004	0.007	0.007	0.008	0.012	0.017	0.023	0.028	0.033	0.5	0.014	0.01	0.007
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54	53.1	CW	E	1.03	BS2	0.007	0.007	0.014	0.015	0.02	0.024	0.034	0.044	0.055	0.058	0.5	0.028	0.01	0.015
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.002	0.005	0.006	0.007	0.014	0.02	0.023	0.029	0.034	0.037	0.5	0.018	0.01	0.009
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS2	0.003	0.003	0.007	0.012	0.02	0.025	0.028	0.034	0.048	0.061	0.5	0.024	0.01	0.013
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS2	0.002	0.002	0.007	0.01	0.016	0.023	0.031	0.038	0.049	0.063	0.5	0.024	0.01	0.013
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS2	0.004	0.004	0.013	0.014	0.02	0.03	0.048	0.063	0.074	0.079	0.5	0.035	0.02	0.019
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS3	0.011	0.016	0.017	0.022	0.026	0.036	0.041	0.048	0.047	0.05	0.5	0.031	0.02	0.016
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS3	0.01	0.015	0.019	0.023	0.024	0.029	0.031	0.033	0.04	0.049	0.5	0.027	0.01	0.014
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54	53.3	CW	E	1.04	BS3	0.008	0.01	0.011	0.014	0.015	0.019	0.022	0.029	0.04	0.051	0.5	0.022	0.01	0.012
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS3	0.011	0.012	0.017	0.021	0.023	0.03	0.043	0.05	0.06	0.061	0.5	0.033	0.02	0.017
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS3	0.005	0.008	0.01	0.011	0.013	0.02	0.028	0.033	0.035	0.036	0.5	0.020	0.01	0.011
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS3	0.007	0.012	0.015	0.023	0.024	0.029	0.034	0.043	0.052	0.053	0.5	0.029	0.02	0.016

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS4	0.007	0.006	0.004	0.007	0.008	0.009	0.007	0.006	0.008	0.013	0.5	0.008	0.00	0.004
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.012	0.011	0.007	0.011	0.016	0.018	0.017	0.015	0.017	0.026	0.5	0.015	0.01	0.008
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.008	0.005	0.003	0.009	0.011	0.012	0.01	0.009	0.013	0.024	0.5	0.010	0.01	0.005
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54	53.5	CW	E	1.05	BS4	0.007	0.005	0.004	0.01	0.011	0.01	0.009	0.008	0.017	0.024	0.5	0.011	0.01	0.006
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS4	0.007	0.004	0.003	0.008	0.01	0.009	0.008	0.007	0.015	0.023	0.5	0.009	0.00	0.005
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS4	0.01	0.007	0.009	0.019	0.018	0.015	0.013	0.012	0.023	0.028	0.5	0.015	0.01	0.008
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	BS5	0.003	0.003	0.004	0.006	0.009	0.022	0.025	0.03	0.025	0.017	0.5	0.014	0.01	0.007
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.002	0.004	0.007	0.007	0.011	0.025	0.031	0.03	0.027	0.032	0.5	0.018	0.01	0.009
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.004	0.006	0.008	0.015	0.025	0.035	0.037	0.037	0.027	0.041	0.5	0.024	0.01	0.012
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS5	0.004	0.004	0.005	0.012	0.017	0.034	0.04	0.031	0.025	0.045	0.5	0.022	0.01	0.011
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS5	0.003	0.005	0.006	0.009	0.016	0.021	0.029	0.028	0.031	0.042	0.5	0.019	0.01	0.010
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48	47.5	CW	E	1.06	BS5	0.001	0.003	0.007	0.012	0.016	0.021	0.022	0.021	0.026	0.048	0.5	0.018	0.01	0.009

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS1	0.022	0.033	0.046	0.062	0.076	0.089	0.111	0.136	0.152	0.187	0.5	0.091	0.05	0.047
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS1	0.026	0.038	0.053	0.063	0.097	0.138	0.173	0.193	0.213	0.237	0.5	0.123	0.06	0.064
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS1	0.027	0.038	0.058	0.08	0.101	0.118	0.146	0.149	0.163	0.191	0.5	0.107	0.06	0.056
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS1	0.025	0.027	0.048	0.061	0.077	0.087	0.12	0.144	0.163	0.195	0.5	0.095	0.05	0.050
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS1	0.023	0.03	0.052	0.058	0.072	0.09	0.117	0.147	0.163	0.171	0.5	0.092	0.05	0.050
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS1	0.025	0.026	0.048	0.057	0.077	0.082	0.103	0.143	0.176	0.168	0.5	0.091	0.05	0.048
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS2	0.015	0.016	0.024	0.028	0.037	0.054	0.078	0.107	0.137	0.16	0.5	0.066	0.03	0.034
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS2	0.023	0.024	0.026	0.028	0.047	0.081	0.112	0.148	0.174	0.176	0.5	0.084	0.04	0.044
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS2	0.019	0.021	0.022	0.032	0.05	0.072	0.085	0.104	0.122	0.13	0.5	0.066	0.03	0.035
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS2	0.016	0.019	0.02	0.032	0.059	0.08	0.097	0.121	0.156	0.19	0.5	0.079	0.04	0.042
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48	46.7	CW	E	1.06	BS2	0.01	0.011	0.025	0.033	0.047	0.066	0.096	0.122	0.159	0.183	0.5	0.075	0.04	0.041
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS2	0.009	0.011	0.023	0.028	0.053	0.094	0.135	0.157	0.162	0.175	0.5	0.085	0.04	0.045

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.02	BS3	0.015	0.019	0.028	0.037	0.045	0.055	0.074	0.085	0.096	0.111	0.5	0.057	0.03	0.029
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54	53.1	CW	E	1.03	BS3	0.016	0.022	0.031	0.042	0.048	0.058	0.069	0.087	0.103	0.12	0.5	0.060	0.03	0.031
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS3	0.017	0.02	0.03	0.041	0.047	0.05	0.057	0.08	0.126	0.142	0.5	0.061	0.03	0.032
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS3	0.019	0.022	0.032	0.05	0.065	0.087	0.124	0.142	0.147	0.149	0.5	0.084	0.04	0.044
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48	46.7	CW	E	1.06	BS3	0.01	0.019	0.024	0.035	0.042	0.057	0.071	0.083	0.087	0.085	0.5	0.051	0.03	0.028
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS3	0.012	0.024	0.037	0.048	0.055	0.062	0.069	0.09	0.106	0.101	0.5	0.060	0.03	0.032
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	BS4	0.031	0.028	0.022	0.031	0.037	0.04	0.036	0.031	0.044	0.071	0.5	0.037	0.02	0.019
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS4	0.032	0.034	0.022	0.033	0.053	0.055	0.055	0.048	0.058	0.079	0.5	0.047	0.02	0.025
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS4	0.025	0.017	0.017	0.035	0.038	0.04	0.031	0.05	0.053	0.085	0.5	0.039	0.02	0.021
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	BS4	0.019	0.014	0.016	0.033	0.036	0.035	0.032	0.031	0.051	0.057	0.5	0.032	0.02	0.017
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS4	0.018	0.013	0.012	0.024	0.026	0.027	0.028	0.029	0.042	0.067	0.5	0.029	0.02	0.016
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS4	0.021	0.015	0.02	0.035	0.041	0.036	0.03	0.035	0.054	0.063	0.5	0.035	0.02	0.019

MPE calculations are defined in section 14.0.

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

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		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	54	53.2	CW	E	1.02	BS5	0.004	0.005	0.005	0.009	0.019	0.031	0.038	0.037	0.03	0.026	0.5	0.020	0.01	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	BS5	0.003	0.005	0.011	0.009	0.019	0.038	0.043	0.039	0.035	0.043	0.5	0.025	0.01	0.013
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	BS5	0.005	0.008	0.011	0.018	0.029	0.038	0.047	0.037	0.032	0.044	0.5	0.027	0.01	0.014
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	BS5	0.005	0.005	0.007	0.016	0.025	0.044	0.045	0.036	0.038	0.058	0.5	0.028	0.01	0.015
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	BS5	0.003	0.005	0.007	0.01	0.024	0.028	0.032	0.034	0.034	0.03	0.5	0.021	0.01	0.011
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	BS5	0.002	0.006	0.01	0.018	0.028	0.038	0.035	0.036	0.045	0.078	0.5	0.030	0.02	0.016
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	BS1	0.011	0.019	0.033	0.046	0.063	0.074	0.123	0.189	0.233	0.223	0.5	0.101	0.05	0.054
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	BS1	0.007	0.016	0.018	0.029	0.031	0.058	0.097	0.152	0.21	0.198	0.5	0.082	0.04	0.043
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	BS1	0.009	0.011	0.017	0.02	0.024	0.045	0.082	0.123	0.16	0.171	0.5	0.066	0.04	0.036
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	BS2	0.003	0.004	0.008	0.017	0.034	0.06	0.099	0.121	0.142	0.131	0.5	0.062	0.03	0.033
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	BS2	0.003	0.004	0.007	0.015	0.035	0.063	0.103	0.139	0.183	0.185	0.5	0.074	0.04	0.039
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	BS2	0.002	0.003	0.005	0.013	0.027	0.052	0.084	0.115	0.146	0.155	0.5	0.060	0.03	0.033

MPE calculations are defined in section 14.0.

Table L.1 (Continued)
LMR UHF R2 - 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	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	BS3	0.007	0.013	0.028	0.035	0.045	0.052	0.073	0.1	0.121	0.108	0.5	0.058	0.03	0.031	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	BS3	0.007	0.009	0.016	0.023	0.054	0.069	0.113	0.133	0.138	0.114	0.5	0.068	0.04	0.036	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	BS3	0.007	0.011	0.017	0.021	0.027	0.041	0.065	0.076	0.084	0.075	0.5	0.042	0.02	0.023	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	BS4	0.015	0.01	0.015	0.028	0.033	0.038	0.043	0.049	0.065	0.086	0.5	0.038	0.02	0.020	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	BS4	0.008	0.007	0.01	0.02	0.025	0.032	0.035	0.044	0.062	0.077	0.5	0.032	0.02	0.017	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	BS4	0.007	0.006	0.011	0.017	0.023	0.022	0.02	0.024	0.035	0.056	0.5	0.022	0.01	0.012	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	BS5	0.001	0.001	0.001	0.002	0.004	0.005	0.005	0.004	0.005	0.007	0.5	0.004	0.00	0.002	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	BS5	0.001	0	0.001	0.003	0.005	0.008	0.009	0.009	0.01	0.014	0.5	0.006	0.00	0.003	
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48	46.6	CW	E	1.06	BS5	0	0.001	0.001	0.003	0.003	0.006	0.007	0.008	0.009	0.005	0.5	0.004	0.00	0.002	
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	54.0	53.2	CW	E	1.04	BS1	0.024	0.033	0.056	0.078	0.099	0.111	0.135	0.142	0.175	0.213	0.5	0.107	0.06	0.056	
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS1	0.021	0.037	0.045	0.062	0.076	0.088	0.109	0.136	0.161	0.226	0.5	0.096	0.05	0.051	
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS1	0.023	0.033	0.04	0.054	0.069	0.079	0.105	0.123	0.149	0.177	0.5	0.085	0.05	0.046	
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS1	0.024	0.036	0.043	0.052	0.058	0.064	0.078	0.114	0.145	0.149	0.5	0.076	0.04	0.041	

MPE calculations are defined in section 14.0.

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

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		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	54.0	53.2	CW	E	1.04	BS2	0.011	0.013	0.017	0.024	0.041	0.061	0.073	0.089	0.108	0.123	0.5	0.056	0.03	0.030
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS2	0.013	0.014	0.015	0.026	0.051	0.066	0.081	0.105	0.135	0.172	0.5	0.068	0.04	0.036
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	BS2	0.012	0.013	0.014	0.025	0.04	0.066	0.093	0.111	0.142	0.181	0.5	0.070	0.04	0.038
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS2	0.012	0.014	0.015	0.022	0.036	0.061	0.095	0.12	0.124	0.136	0.5	0.064	0.03	0.034
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	54.0	53.2	CW	E	1.04	BS3	0.013	0.021	0.025	0.031	0.039	0.046	0.05	0.077	0.114	0.13	0.5	0.055	0.03	0.029
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS3	0.019	0.024	0.034	0.042	0.055	0.074	0.11	0.129	0.131	0.136	0.5	0.075	0.04	0.040
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48	46.7	CW	E	1.06	BS3	0.012	0.018	0.028	0.033	0.039	0.052	0.071	0.088	0.093	0.095	0.5	0.053	0.03	0.029
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS3	0.01	0.015	0.024	0.035	0.041	0.047	0.053	0.068	0.081	0.085	0.5	0.046	0.02	0.025
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	54.0	53.2	CW	E	1.04	BS4	0.024	0.016	0.015	0.028	0.032	0.036	0.032	0.029	0.044	0.078	0.5	0.033	0.02	0.018
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	BS4	0.017	0.013	0.014	0.028	0.029	0.031	0.027	0.024	0.039	0.059	0.5	0.028	0.01	0.015
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48	46.7	CW	E	1.06	BS4	0.019	0.013	0.011	0.021	0.022	0.025	0.024	0.026	0.037	0.063	0.5	0.026	0.01	0.014
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	BS4	0.017	0.012	0.015	0.029	0.03	0.025	0.019	0.022	0.041	0.048	0.5	0.026	0.01	0.014

MPE calculations are defined in section 14.0.

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

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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54	53.2	CW	E	1.02	PF	0.033	0.028	0.029	0.5	0.030	0.02	0.016
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	PF	0.022	0.017	0.023	0.5	0.021	0.01	0.011

MPE
Measure
ments

MPE calculations are defined in section 14.0.

Table L.1 (Continued)**LMR UHF R2 - 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.	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	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006	
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54	53.2	CW	E	1.02	PF	0.033	0.028	0.029	0.5	0.030	0.02	0.016	

MPE
Measure
ments

MPE calculations are defined in section 14.0.

Table L.1 (Continued)

LMR UHF R2 - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements							
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	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023	
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038	
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026	
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007	

MPE
Measure
ments

MPE calculations are defined in section 14.0.

Table L.2
LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006

MPE calculations are defined in section 14.0.

Table L.2 (Continued)

LMR UHF R2 - 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	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54.0	53.2	CW	E	1.02	PB	0.039	0.018	0.008	0.5	0.022	0.01	0.011
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	460.0000	54.0	53.1	CW	E	1.03	PB	0.019	0.016	0.019	0.5	0.018	0.01	0.009
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	469.9875	54.0	53.3	CW	E	1.04	PB	0.025	0.025	0.032	0.5	0.027	0.01	0.014
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.057	0.064	0.095	0.5	0.072	0.04	0.037
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.048	0.047	0.05	0.5	0.048	0.02	0.025
Roof	HAE4003A, 1/4 Wave (450-470MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.055	0.049	0.053	0.5	0.052	0.03	0.028
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.049	0.065	0.112	0.5	0.075	0.04	0.039
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.059	0.074	0.078	0.5	0.070	0.04	0.037
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.038	0.082	0.125	0.5	0.082	0.04	0.043
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	PB	0.068	0.042	0.12	0.5	0.077	0.04	0.041
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	496.5000	48.0	46.7	CW	E	1.06	PB	0.04	0.02	0.032	0.5	0.031	0.02	0.017
Roof	HAE6016A, 1/4 Wave (450-512MHz)	2.15	511.9875	48.0	47.5	CW	E	1.06	PB	0.037	0.026	0.054	0.5	0.039	0.02	0.021

MPE calculations are defined in section 14.0.

Table L.2 (Continued)
LMR UHF R2 - 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		Passenger/Operator (MC) Positions						
										Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3				
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PB	0.083	0.058	0.123	0.5	0.088	0.04	0.046
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54.0	53.1	CW	E	1.03	PB	0.055	0.076	0.078	0.5	0.070	0.04	0.036
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PB	0.077	0.063	0.113	0.5	0.084	0.04	0.044
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54.0	53.5	CW	E	1.05	PB	0.069	0.047	0.103	0.5	0.073	0.04	0.039
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PB	0.046	0.033	0.055	0.5	0.045	0.02	0.024
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48.0	47.5	CW	E	1.06	PB	0.023	0.029	0.052	0.5	0.035	0.02	0.019
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	PB	0.026	0.017	0.035	0.5	0.026	0.01	0.014
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54.0	53.5	CW	E	1.05	PB	0.029	0.014	0.032	0.5	0.025	0.01	0.013
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	PB	0.021	0.009	0.018	0.5	0.016	0.01	0.009

MPE calculations are defined in section 14.0.

Table L.2 (Continued)

LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009

MPE calculations are defined in section 14.0.

Table L.2 (Continued)

LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006

MPE calculations are defined in section 14.0.

Table L.2 (Continued)
LMR UHF R2 - 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	HAE6015A, 1/2 Wave (450-520MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.072	0.074	0.13	0.5	0.092	0.05	0.048
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.065	0.028	0.114	0.5	0.069	0.04	0.036
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.038	0.031	0.127	0.5	0.065	0.03	0.034
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.029	0.017	0.082	0.5	0.043	0.02	0.023
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.084	0.071	0.078	0.5	0.078	0.04	0.042
Roof	HAE6015A, 1/2 Wave (450-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.046	0.031	0.07	0.5	0.049	0.03	0.026
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	470.0125	54.0	53.2	CW	E	1.04	PF	0.018	0.025	0.022	0.5	0.022	0.01	0.011
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	482.5000	54	53.5	CW	E	1.05	PF	0.011	0.024	0.014	0.5	0.016	0.01	0.009
Roof	HAE4012A, 1/2 Wave (470-495MHz)	5.65	494.9875	48.0	46.6	CW	E	1.06	PF	0.023	0.026	0.018	0.5	0.022	0.01	0.012
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	470.0125	54	53.2	CW	E	1.04	PF	0.029	0.048	0.1	0.5	0.059	0.03	0.031
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	482.5000	54.0	53.5	CW	E	1.05	PF	0.05	0.037	0.096	0.5	0.061	0.03	0.032
Roof	HAE4004A, 1/4 Wave (470-512MHz)	2.15	496.5000	48	46.7	CW	E	1.06	PF	0.069	0.063	0.072	0.5	0.068	0.04	0.037

MPE calculations are defined in section 14.0.

Table L.2 (Continued)
LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	496.5000	48.0	46.7	CW	E	1.06	PF	0.08	0.057	0.072	0.5	0.070	0.04	0.038
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	511.9875	48	47.5	CW	E	1.06	PF	0.028	0.031	0.085	0.5	0.048	0.03	0.026
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.007	0.007	0.027	0.5	0.014	0.01	0.007
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	460.0000	54	53.1	CW	E	1.03	PF	0.018	0.015	0.019	0.5	0.017	0.01	0.009
Roof	RAE4014ARB, 5/8 Wave (445-470MHz)	7.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.014	0.008	0.011	0.5	0.011	0.01	0.006
Roof	HAE4011A, 1/2 Wave (450-470MHz)	5.65	450.0125	54	53.2	CW	E	1.02	PF	0.033	0.028	0.029	0.5	0.030	0.02	0.016

MPE calculations are defined in section 14.0.

Table L.2 (Continued)
LMR UHF R2 - 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	HAE6013A, 1/2 Wave (380-470MHz)	4.15	450.0125	54.0	53.2	CW	E	1.02	PF	0.042	0.059	0.119	0.5	0.073	0.04	0.038
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	460.0000	54	53.1	CW	E	1.03	PF	0.043	0.028	0.059	0.5	0.043	0.02	0.023
Roof	HAE6013A, 1/2 Wave (380-470MHz)	4.15	469.9875	54	53.3	CW	E	1.04	PF	0.014	0.025	0.089	0.5	0.043	0.02	0.022
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	450.0125	54	53.2	CW	E	1.02	PF	0.081	0.065	0.158	0.5	0.101	0.05	0.052
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	469.9875	54.0	53.3	CW	E	1.04	PF	0.022	0.046	0.116	0.5	0.061	0.03	0.032
Roof	HAE6031A, 1/2 Wave (380-520MHz)	4.15	482.5000	54	53.5	CW	E	1.05	PF	0.026	0.028	0.068	0.5	0.041	0.02	0.022

MPE calculations are defined in section 14.0.

Appendix M – MPE Measurement Results for LMR 7/800

Table M.1

LMR 7/800 - 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	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS1	0.006	0.006	0.010	0.021	0.037	0.042	0.042	0.042	0.075	0.098	0.5	0.038	0.022	0.022	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS1	0.010	0.014	0.020	0.020	0.021	0.038	0.060	0.078	0.089	0.099	0.5	0.045	0.026	0.026	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS1	0.002	0.003	0.003	0.005	0.008	0.020	0.025	0.025	0.029	0.037	0.5	0.016	0.009	0.009	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS1	0.004	0.004	0.006	0.006	0.006	0.011	0.016	0.017	0.024	0.028	0.5	0.012	0.007	0.007	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS1	0.002	0.003	0.003	0.003	0.005	0.008	0.009	0.021	0.022	0.029	0.5	0.011	0.006	0.006	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS1	0.001	0.003	0.003	0.005	0.005	0.017	0.020	0.026	0.031	0.038	0.5	0.015	0.008	0.009	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS1	0.001	0.002	0.002	0.003	0.003	0.008	0.009	0.014	0.016	0.019	0.5	0.008	0.004	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS2	0.005	0.008	0.013	0.013	0.018	0.028	0.044	0.062	0.063	0.074	0.5	0.033	0.019	0.019	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS2	0.002	0.007	0.007	0.009	0.024	0.031	0.055	0.078	0.101	0.111	0.5	0.043	0.025	0.025	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS2	0.001	0.002	0.002	0.002	0.006	0.007	0.020	0.020	0.030	0.028	0.5	0.012	0.007	0.007	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS2	0.002	0.003	0.003	0.004	0.005	0.007	0.013	0.017	0.017	0.022	0.5	0.009	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS2	0.001	0.002	0.003	0.003	0.003	0.007	0.009	0.012	0.012	0.016	0.5	0.007	0.004	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS2	0.002	0.003	0.004	0.004	0.004	0.006	0.012	0.015	0.019	0.020	0.5	0.009	0.005	0.005	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS2	0.001	0.001	0.002	0.003	0.003	0.005	0.007	0.008	0.009	0.010	0.5	0.005	0.003	0.003	

MPE calculations are defined in section 14.0.

Table M.1 (Continued)**LMR 7/800 - 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	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS3	0.012	0.013	0.013	0.017	0.027	0.029	0.021	0.029	0.024	0.039	0.5	0.022	0.013	0.013	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS3	0.012	0.013	0.006	0.011	0.012	0.021	0.026	0.044	0.042	0.045	0.5	0.023	0.013	0.013	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS3	0.007	0.007	0.007	0.007	0.007	0.007	0.014	0.018	0.018	0.018	0.5	0.011	0.006	0.006	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS3	0.002	0.002	0.002	0.002	0.004	0.005	0.008	0.008	0.008	0.008	0.5	0.005	0.003	0.003	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS3	0.001	0.002	0.002	0.002	0.002	0.003	0.005	0.005	0.013	0.013	0.5	0.005	0.003	0.003	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS3	0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.006	0.008	0.008	0.5	0.004	0.002	0.002	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS3	0.001	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.003	0.006	0.5	0.002	0.001	0.001	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS4	0.005	0.007	0.007	0.010	0.010	0.012	0.012	0.017	0.025	0.023	0.5	0.013	0.007	0.007	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS4	0.008	0.006	0.007	0.011	0.010	0.012	0.014	0.029	0.046	0.032	0.5	0.018	0.010	0.010	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS4	0.002	0.002	0.002	0.004	0.004	0.004	0.004	0.007	0.009	0.009	0.5	0.005	0.003	0.003	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS4	0.003	0.003	0.003	0.006	0.006	0.006	0.006	0.009	0.014	0.016	0.5	0.007	0.004	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS4	0.002	0.002	0.002	0.004	0.004	0.007	0.008	0.015	0.016	0.016	0.5	0.008	0.004	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS4	0.002	0.002	0.002	0.003	0.006	0.006	0.006	0.011	0.012	0.012	0.5	0.006	0.003	0.004	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS4	0.003	0.003	0.003	0.005	0.005	0.005	0.005	0.010	0.013	0.013	0.5	0.007	0.004	0.004	

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS5	0.001	0.001	0.001	0.004	0.008	0.010	0.012	0.013	0.027	0.027	0.5	0.010	0.006	0.006
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS5	0.001	0.002	0.006	0.008	0.011	0.011	0.011	0.011	0.023	0.025	0.5	0.011	0.006	0.006
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS5	0.002	0.002	0.007	0.013	0.018	0.018	0.018	0.018	0.020	0.034	0.5	0.015	0.009	0.009
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS5	0.001	0.001	0.003	0.005	0.014	0.015	0.015	0.017	0.024	0.031	0.5	0.013	0.007	0.007
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS5	0.002	0.002	0.002	0.005	0.010	0.012	0.012	0.014	0.025	0.025	0.5	0.011	0.006	0.006
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS5	0.001	0.001	0.001	0.002	0.005	0.013	0.015	0.018	0.035	0.037	0.5	0.013	0.007	0.007
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS5	0.001	0.001	0.002	0.005	0.005	0.005	0.009	0.014	0.029	0.029	0.5	0.010	0.005	0.006
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS1	0.001	0.001	0.001	0.002	0.003	0.009	0.021	0.055	0.078	0.078	0.5	0.025	0.014	0.014
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS1	0.001	0.002	0.002	0.002	0.003	0.009	0.036	0.071	0.106	0.106	0.5	0.034	0.020	0.020
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS1	0.001	0.001	0.001	0.006	0.007	0.022	0.038	0.052	0.052	0.052	0.5	0.023	0.013	0.014
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS1	0.001	0.002	0.002	0.008	0.012	0.024	0.043	0.043	0.050	0.050	0.5	0.024	0.013	0.014
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS1	0.002	0.004	0.004	0.005	0.016	0.046	0.048	0.048	0.048	0.048	0.5	0.027	0.015	0.016
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS1	0.002	0.004	0.005	0.007	0.009	0.031	0.068	0.068	0.068	0.068	0.5	0.033	0.018	0.019
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS1	0.002	0.003	0.004	0.009	0.028	0.051	0.051	0.051	0.051	0.051	0.5	0.030	0.016	0.017

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS2	0.001	0.001	0.003	0.003	0.003	0.006	0.019	0.055	0.062	0.063	0.5	0.022	0.013	0.013
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS2	0.001	0.001	0.002	0.002	0.002	0.014	0.034	0.069	0.088	0.090	0.5	0.030	0.018	0.018
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS2	0.001	0.001	0.002	0.002	0.004	0.014	0.042	0.048	0.048	0.048	0.5	0.021	0.012	0.012
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS2	0.001	0.002	0.002	0.002	0.004	0.020	0.023	0.027	0.034	0.034	0.5	0.015	0.008	0.009
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS2	0.001	0.003	0.004	0.004	0.005	0.014	0.027	0.029	0.029	0.029	0.5	0.015	0.008	0.008
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS2	0.001	0.002	0.004	0.010	0.010	0.010	0.015	0.019	0.019	0.019	0.5	0.011	0.006	0.006
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS2	0.001	0.003	0.003	0.003	0.007	0.011	0.012	0.018	0.018	0.018	0.5	0.009	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS3	0.001	0.002	0.002	0.002	0.002	0.002	0.006	0.013	0.020	0.026	0.5	0.008	0.004	0.004
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS3	0.001	0.002	0.002	0.003	0.004	0.008	0.016	0.031	0.038	0.041	0.5	0.015	0.008	0.008
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS3	0.001	0.001	0.001	0.002	0.002	0.003	0.010	0.024	0.024	0.024	0.5	0.009	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS3	0.002	0.002	0.002	0.002	0.003	0.011	0.016	0.016	0.016	0.016	0.5	0.009	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS3	0.001	0.003	0.004	0.004	0.004	0.005	0.009	0.011	0.011	0.011	0.5	0.006	0.004	0.004
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS3	0.001	0.002	0.002	0.002	0.002	0.005	0.008	0.008	0.009	0.010	0.5	0.005	0.003	0.003
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS3	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.007	0.007	0.007	0.5	0.004	0.002	0.002

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS4	0.000	0.001	0.001	0.002	0.002	0.002	0.003	0.010	0.014	0.020	0.5	0.006	0.003	0.003
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS4	0.001	0.001	0.001	0.003	0.004	0.006	0.011	0.021	0.027	0.027	0.5	0.010	0.006	0.006
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS4	0.001	0.001	0.001	0.002	0.002	0.003	0.010	0.024	0.024	0.024	0.5	0.009	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS4	0.002	0.002	0.002	0.002	0.003	0.011	0.016	0.016	0.016	0.016	0.5	0.009	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS4	0.001	0.003	0.004	0.004	0.004	0.005	0.009	0.011	0.011	0.011	0.5	0.006	0.004	0.004
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS4	0.001	0.002	0.002	0.002	0.002	0.005	0.008	0.008	0.009	0.010	0.5	0.005	0.003	0.003
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS4	0.002	0.002	0.002	0.002	0.002	0.004	0.005	0.007	0.007	0.007	0.5	0.004	0.002	0.002
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS5	0.001	0.001	0.001	0.002	0.002	0.005	0.010	0.017	0.022	0.022	0.5	0.008	0.005	0.005
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS5	0.001	0.001	0.001	0.001	0.004	0.005	0.006	0.007	0.017	0.017	0.5	0.006	0.003	0.003
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS5	0.001	0.001	0.007	0.020	0.030	0.030	0.030	0.034	0.051	0.051	0.5	0.026	0.015	0.015
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS5	0.001	0.004	0.010	0.013	0.029	0.037	0.037	0.045	0.061	0.051	0.5	0.029	0.016	0.017
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS5	0.002	0.005	0.008	0.027	0.028	0.028	0.028	0.033	0.052	0.052	0.5	0.026	0.015	0.015
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS5	0.002	0.002	0.003	0.012	0.021	0.031	0.031	0.035	0.061	0.063	0.5	0.026	0.014	0.015
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS5	0.003	0.005	0.007	0.015	0.015	0.016	0.022	0.037	0.048	0.051	0.5	0.022	0.012	0.013

MPE calculations are defined in section 14.0.

Table M.1 (Continued)
LMR 7/800 - 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
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	36.0	CW	E	1.16	BS1	0.004	0.007	0.010	0.026	0.049	0.055	0.058	0.070	0.081	0.103	0.5	0.046	0.027	0.027
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	BS1	0.009	0.017	0.020	0.021	0.024	0.039	0.060	0.072	0.092	0.103	0.5	0.046	0.027	0.027
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	BS1	0.001	0.003	0.007	0.011	0.010	0.023	0.023	0.027	0.034	0.031	0.5	0.017	0.010	0.010
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	BS1	0.004	0.005	0.009	0.009	0.009	0.010	0.023	0.027	0.034	0.039	0.5	0.017	0.010	0.010
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	BS1	0.003	0.004	0.005	0.007	0.012	0.017	0.027	0.040	0.043	0.050	0.5	0.021	0.012	0.012
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	BS1	0.002	0.006	0.009	0.009	0.010	0.027	0.045	0.051	0.059	0.065	0.5	0.028	0.016	0.016
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	BS1	0.002	0.003	0.004	0.006	0.006	0.007	0.024	0.026	0.039	0.039	0.5	0.016	0.009	0.009
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	36.0	CW	E	1.16	BS2	0.005	0.007	0.012	0.012	0.018	0.028	0.044	0.066	0.068	0.068	0.5	0.033	0.019	0.019
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	BS2	0.002	0.007	0.009	0.009	0.021	0.032	0.055	0.072	0.102	0.104	0.5	0.041	0.024	0.024
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	BS2	0.002	0.003	0.003	0.003	0.007	0.010	0.023	0.026	0.028	0.028	0.5	0.013	0.008	0.008
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	BS2	0.001	0.003	0.004	0.004	0.006	0.007	0.017	0.018	0.018	0.019	0.5	0.010	0.006	0.006
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	BS2	0.001	0.002	0.002	0.003	0.003	0.007	0.007	0.010	0.014	0.015	0.5	0.006	0.004	0.004
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	BS2	0.002	0.003	0.004	0.004	0.004	0.006	0.007	0.016	0.018	0.018	0.5	0.008	0.005	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	BS2	0.001	0.002	0.002	0.002	0.003	0.003	0.008	0.008	0.010	0.010	0.5	0.005	0.003	0.003

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS3	0.012	0.017	0.017	0.020	0.020	0.023	0.028	0.028	0.028	0.030	0.5	0.022	0.013	0.013
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	BS3	0.014	0.014	0.014	0.015	0.015	0.017	0.029	0.048	0.054	0.055	0.5	0.028	0.016	0.016
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	BS3	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.013	0.019	0.019	0.5	0.009	0.005	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	BS3	0.003	0.003	0.003	0.004	0.006	0.008	0.011	0.011	0.012	0.017	0.5	0.008	0.004	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	BS3	0.003	0.004	0.004	0.004	0.006	0.006	0.009	0.010	0.015	0.019	0.5	0.008	0.004	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	BS3	0.002	0.004	0.004	0.004	0.004	0.004	0.010	0.016	0.016	0.016	0.5	0.008	0.004	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	BS3	0.003	0.003	0.003	0.003	0.005	0.007	0.007	0.011	0.011	0.017	0.5	0.007	0.004	0.004
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	36.0	CW	E	1.16	BS4	0.006	0.006	0.007	0.010	0.010	0.010	0.010	0.019	0.024	0.024	0.5	0.013	0.007	0.007
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	BS4	0.005	0.005	0.008	0.009	0.010	0.011	0.015	0.030	0.043	0.043	0.5	0.018	0.010	0.010
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	BS4	0.002	0.003	0.003	0.003	0.003	0.004	0.004	0.006	0.012	0.012	0.5	0.005	0.003	0.003
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	BS4	0.003	0.003	0.005	0.007	0.007	0.007	0.007	0.008	0.016	0.017	0.5	0.008	0.005	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	BS4	0.001	0.002	0.002	0.003	0.004	0.004	0.006	0.015	0.017	0.017	0.5	0.007	0.004	0.004
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	BS4	0.002	0.002	0.002	0.003	0.004	0.005	0.005	0.010	0.010	0.010	0.5	0.005	0.003	0.003
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	BS4	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.010	0.012	0.012	0.5	0.006	0.003	0.003

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS5	0.001	0.001	0.001	0.004	0.008	0.012	0.012	0.013	0.016	0.027	0.5	0.010	0.006	0.006
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	BS5	0.001	0.002	0.006	0.008	0.011	0.011	0.011	0.011	0.020	0.022	0.5	0.010	0.006	0.006
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	BS5	0.002	0.003	0.011	0.015	0.019	0.019	0.019	0.019	0.022	0.038	0.5	0.017	0.010	0.010
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	BS5	0.001	0.001	0.002	0.005	0.009	0.016	0.016	0.018	0.024	0.035	0.5	0.013	0.007	0.007
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	BS5	0.001	0.001	0.001	0.004	0.013	0.013	0.013	0.013	0.027	0.027	0.5	0.011	0.006	0.007
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	BS5	0.001	0.001	0.004	0.006	0.010	0.013	0.017	0.019	0.032	0.036	0.5	0.014	0.008	0.008
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	BS5	0.001	0.001	0.001	0.003	0.005	0.005	0.005	0.014	0.028	0.033	0.5	0.010	0.005	0.005
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS1	0.007	0.018	0.017	0.035	0.073	0.106	0.130	0.130	0.130	0.130	0.5	0.078	0.045	0.045
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS1	0.012	0.024	0.036	0.047	0.071	0.071	0.123	0.131	0.131	0.131	0.5	0.078	0.045	0.045
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS1	0.002	0.006	0.008	0.016	0.023	0.038	0.038	0.048	0.054	0.054	0.5	0.029	0.017	0.017
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS1	0.005	0.005	0.006	0.014	0.015	0.025	0.038	0.046	0.046	0.046	0.5	0.025	0.014	0.014
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS1	0.003	0.004	0.006	0.009	0.020	0.031	0.046	0.054	0.054	0.054	0.5	0.028	0.016	0.016
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS1	0.002	0.007	0.008	0.010	0.012	0.041	0.069	0.071	0.071	0.071	0.5	0.036	0.020	0.021
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS1	0.004	0.004	0.004	0.009	0.013	0.019	0.038	0.046	0.046	0.046	0.5	0.023	0.013	0.013

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS2	0.005	0.010	0.020	0.025	0.034	0.053	0.081	0.094	0.094	0.094	0.5	0.051	0.030	0.030
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS2	0.007	0.016	0.017	0.017	0.045	0.075	0.129	0.137	0.137	0.137	0.5	0.072	0.042	0.042
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS2	0.004	0.004	0.004	0.006	0.011	0.025	0.043	0.045	0.045	0.045	0.5	0.023	0.013	0.014
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS2	0.002	0.004	0.004	0.004	0.008	0.017	0.019	0.019	0.019	0.020	0.5	0.012	0.007	0.007
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS2	0.001	0.003	0.003	0.003	0.005	0.008	0.011	0.013	0.017	0.017	0.5	0.008	0.004	0.005
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS2	0.002	0.002	0.006	0.007	0.008	0.011	0.014	0.018	0.018	0.018	0.5	0.010	0.006	0.006
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS2	0.001	0.002	0.002	0.003	0.004	0.007	0.008	0.011	0.011	0.011	0.5	0.006	0.003	0.003
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS3	0.019	0.023	0.023	0.027	0.034	0.034	0.047	0.047	0.047	0.047	0.5	0.035	0.020	0.020
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS3	0.027	0.028	0.028	0.028	0.028	0.044	0.066	0.080	0.080	0.080	0.5	0.049	0.028	0.028
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS3	0.008	0.008	0.007	0.007	0.006	0.006	0.029	0.031	0.016	0.015	0.5	0.013	0.008	0.008
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS3	0.007	0.007	0.007	0.007	0.010	0.019	0.022	0.022	0.022	0.023	0.5	0.015	0.008	0.009
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS3	0.003	0.004	0.004	0.006	0.006	0.016	0.016	0.016	0.019	0.019	0.5	0.011	0.006	0.006
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS3	0.003	0.004	0.004	0.004	0.006	0.009	0.016	0.020	0.020	0.020	0.5	0.011	0.006	0.006
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS3	0.003	0.004	0.004	0.005	0.009	0.009	0.021	0.021	0.021	0.021	0.5	0.012	0.006	0.007

MPE calculations are defined in section 14.0.

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

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		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	770.0125	36.0	36.0	CW	E	1.16	BS4	0.011	0.011	0.012	0.018	0.023	0.023	0.023	0.044	0.046	0.046	0.5	0.026	0.015	0.015
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS4	0.017	0.017	0.019	0.029	0.029	0.032	0.034	0.060	0.078	0.078	0.5	0.039	0.023	0.023
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS4	0.003	0.003	0.003	0.004	0.005	0.006	0.010	0.016	0.024	0.024	0.5	0.010	0.006	0.006
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS4	0.005	0.005	0.007	0.009	0.011	0.011	0.011	0.020	0.026	0.026	0.5	0.013	0.007	0.008
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS4	0.004	0.005	0.005	0.005	0.005	0.015	0.015	0.020	0.023	0.023	0.5	0.012	0.007	0.007
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS4	0.002	0.003	0.006	0.008	0.008	0.010	0.010	0.014	0.014	0.014	0.5	0.009	0.005	0.005
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS4	0.004	0.004	0.004	0.006	0.006	0.007	0.009	0.016	0.016	0.016	0.5	0.009	0.005	0.005
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	BS5	0.002	0.002	0.005	0.011	0.015	0.022	0.022	0.027	0.044	0.048	0.5	0.020	0.011	0.011
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	BS5	0.002	0.003	0.010	0.021	0.026	0.026	0.026	0.026	0.032	0.042	0.5	0.021	0.012	0.012
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	BS5	0.003	0.006	0.016	0.033	0.039	0.039	0.039	0.039	0.043	0.064	0.5	0.032	0.019	0.019
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	BS5	0.001	0.004	0.005	0.014	0.024	0.025	0.027	0.034	0.051	0.053	0.5	0.024	0.014	0.014
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	BS5	0.001	0.002	0.004	0.012	0.014	0.017	0.018	0.022	0.039	0.039	0.5	0.017	0.009	0.010
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	BS5	0.002	0.003	0.004	0.004	0.029	0.029	0.029	0.030	0.056	0.056	0.5	0.024	0.013	0.014
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	BS5	0.002	0.002	0.002	0.010	0.010	0.010	0.010	0.024	0.037	0.037	0.5	0.014	0.008	0.008

MPE calculations are defined in section 14.0

Table M.2
LMR 7/800 - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.				MPE Measurements						
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
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PB	0.050	0.024	0.024	0.5	0.033	0.019	0.019	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PB	0.056	0.015	0.035	0.5	0.035	0.020	0.020	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PB	0.022	0.017	0.077	0.5	0.039	0.022	0.023	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PB	0.040	0.019	0.071	0.5	0.043	0.025	0.025	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PB	0.056	0.014	0.025	0.5	0.032	0.018	0.018	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PB	0.005	0.017	0.016	0.5	0.013	0.007	0.007	
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PB	0.033	0.031	0.014	0.5	0.026	0.014	0.015	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PB	0.002	0.002	0.001	0.5	0.002	0.001	0.001	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PB	0.001	0.002	0.001	0.5	0.001	0.001	0.001	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PB	0.015	0.021	0.026	0.5	0.021	0.012	0.012	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PB	0.017	0.017	0.030	0.5	0.021	0.012	0.012	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PB	0.011	0.007	0.029	0.5	0.016	0.009	0.009	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PB	0.055	0.025	0.035	0.5	0.038	0.021	0.022	
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PB	0.012	0.024	0.008	0.5	0.015	0.008	0.008	

MPE calculations are defined in section 14.0.

Table M.2 (Continued)**LMR 7/800 - 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	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	36.0	CW	E	1.16	PB	0.049	0.025	0.016	0.5	0.030	0.017	0.017
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	PB	0.058	0.019	0.035	0.5	0.037	0.022	0.022
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	PB	0.027	0.059	0.031	0.5	0.039	0.023	0.023
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	PB	0.031	0.028	0.060	0.5	0.040	0.023	0.023
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	PB	0.013	0.013	0.027	0.5	0.018	0.010	0.010
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	PB	0.045	0.022	0.018	0.5	0.028	0.016	0.016
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	PB	0.046	0.010	0.005	0.5	0.020	0.011	0.012
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PB	0.088	0.061	0.055	0.5	0.068	0.039	0.039
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PB	0.103	0.072	0.075	0.5	0.083	0.048	0.048
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PB	0.061	0.100	0.121	0.5	0.094	0.055	0.055
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PB	0.040	0.028	0.067	0.5	0.045	0.026	0.026
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PB	0.062	0.010	0.029	0.5	0.034	0.019	0.019
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PB	0.032	0.011	0.026	0.5	0.023	0.013	0.013
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PB	0.040	0.006	0.022	0.5	0.023	0.012	0.013

MPE calculations are defined in section 14.0.

Table M.2 (Continued)**LMR 7/800 - 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	HAF4013A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PF	0.003	0.002	0.003	0.5	0.003	0.002	0.002
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PF	0.006	0.004	0.001	0.5	0.004	0.002	0.002
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PF	0.012	0.008	0.010	0.5	0.010	0.006	0.006
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PF	0.004	0.010	0.004	0.5	0.006	0.003	0.004
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PF	0.018	0.015	0.003	0.5	0.012	0.007	0.007
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PF	0.025	0.006	0.008	0.5	0.013	0.007	0.008
Roof	HAF4013A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PF	0.042	0.024	0.023	0.5	0.030	0.016	0.017
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PF	0.001	0.001	0.000	0.5	0.001	0.000	0.000
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PF	0.000	0.001	0.002	0.5	0.001	0.001	0.001
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PF	0.009	0.006	0.004	0.5	0.006	0.004	0.004
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PF	0.005	0.011	0.004	0.5	0.007	0.004	0.004
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PF	0.021	0.021	0.008	0.5	0.017	0.009	0.010
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PF	0.033	0.015	0.012	0.5	0.020	0.011	0.012
Roof	HAF4014A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PF	0.037	0.017	0.012	0.5	0.022	0.012	0.013

MPE calculations are defined in section 14.0.

Table M.2 (Continued)**LMR 7/800 - 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	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0125	36.0	36.0	CW	E	1.16	PF	0.003	0.004	0.004	0.5	0.004	0.002	0.002
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.9125	36.0	36.0	CW	E	1.16	PF	0.011	0.011	0.004	0.5	0.009	0.005	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0125	42.0	41.6	CW	E	1.16	PF	0.020	0.015	0.024	0.5	0.020	0.011	0.012
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	823.9875	42.0	41.0	CW	E	1.14	PF	0.005	0.016	0.005	0.5	0.009	0.005	0.005
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	851.0125	42.0	40.3	CW	E	1.11	PF	0.013	0.016	0.005	0.5	0.011	0.006	0.007
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	862.0125	42.0	40.0	CW	E	1.10	PF	0.012	0.018	0.009	0.5	0.013	0.007	0.008
Roof	HAF4016A, 1/4 Wave (764-870MHz)	2.15	868.8875	42.0	40.1	CW	E	1.09	PF	0.017	0.017	0.018	0.5	0.017	0.009	0.010
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	770.0125	36.0	36.0	CW	E	1.16	PF	0.005	0.012	0.024	0.5	0.014	0.008	0.008
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	775.9125	36.0	36.0	CW	E	1.16	PF	0.017	0.016	0.006	0.5	0.013	0.008	0.008
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	806.0125	42.0	41.6	CW	E	1.16	PF	0.046	0.029	0.031	0.5	0.035	0.020	0.021
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	823.9875	42.0	41.0	CW	E	1.14	PF	0.014	0.025	0.013	0.5	0.017	0.010	0.010
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	851.0125	42.0	40.3	CW	E	1.11	PF	0.033	0.019	0.007	0.5	0.020	0.011	0.011
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	862.0125	42.0	40.0	CW	E	1.10	PF	0.031	0.009	0.010	0.5	0.017	0.009	0.010
Roof	HAF4017A, 1/4 Wave (764-870MHz)	5.15	868.8875	42.0	40.1	CW	E	1.09	PF	0.055	0.034	0.023	0.5	0.037	0.020	0.021

MPE calculations are defined in section 14.0.