MOTOROLA SOLUTIONS

MS ISO/IEC 17025 TESTING SAMM No. 0826

CERTIFICATE 2518.05

DECLARATION OF COMPLIANCE: MPE ASSESSMENT Part 2 of 2

Motorola Solutions Inc.
EME Test Laboratory
Motorola Solutions Malaysia Sdn Bhd
Plot 2A, Medan Bayan Lepas,
Mukim 12 SWD 11900 Bayan Lepas Penang, Malaysia.

Date of Report: 01/29/2020
Report Revision: A

Responsible Engineer:	Saw Sun Hock (EME Engineer)
Report author:	Saw Sun Hock (EME Engineer)
Date(s) Tested:	2/17/2017-3/17/2017; 11/26/2019-11/29/2019, 12/2/2019-12/3/2019, 12/9/2019,12/10/2019-12/13/2019,12/16/2019-12/17/2019
Manufacturer:	Futurecom Systems Group
Date submitted for test:	01/13/2017; 11/26/2019
DUT Description:	DVR 700MHz (764-776 MHz; 794-806MHz), Digital Vehicular Repeater Companion Mobile: APX4500 VHF
Test TX mode(s):	CW
Max. Power output:	**DVR:** 5W (100% duty cycle) **Companion Mobile:** 60W (50% duty cycle)
TX Frequency Bands:	**DVR:** 764-776 MHz; 794-806MHz **Companion Mobile:** 136-174 MHz
Signaling type:	FM, TDMA
Model(s) Tested:	**DVR:** MOBEXCOM DVRS 700 (DQPMDVR7000P) **Companion Mobile**: M22KSS9PW1AN (MUD3222C)
Model(s) Certified:	MOBEXCOM DVRS 700 (DQPMDVR7000P), M22KSS9PW1AN (MUD3222C)
Serial Number(s):	16092663 (DVR) , WKE0NK03JZ (Companion Mobile)
Classification:	Occupational/Controlled Environment
FCC ID:	**DVR**: LO6-DVRS700 (769-775 MHz, 799-806 MHz) **Companion Mobile**: FCC ID: AZ492FT3826 (150.8-173.4 MHz) This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC:	**DVR**: 2098B-DVRS700 (769-775 MHz, 799-806 MHz) **Companion Mobile**: 109U-92FT3826 (138-144, 148-174 MHz) 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. The test results clearly demonstrate compliance with ICNIRP Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz).

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 4.0 of this report (no deviation from standard methods). 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
Digitally signed by Tiong Nguk Ing
Date: 2020.02.04 22:09:16 +08'00'

Tiong Nguk Ing
Deputy Technical Manager (Approved Signatory)
Approval Date: 2/4/2020

Appendix D – MPE Test Results Summary for DVR 700

Table D.1

MPE assessment for DVR 700 - trunk mounted antenna - Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	BS1	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.004	0.51	0.8	0.25	1.6
						4.79	775.0000	0.003	0.52	0.6	0.25	1.3
						4.86	800.0000	0.002	0.53	0.4	0.25	0.8
						4.88	806.0000	0.002	0.54	0.4	0.25	0.7
Trunk	BS2	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.011	0.51	2.1	0.25	4.5
						4.79	775.0000	0.011	0.52	2.0	0.25	4.3
						4.86	800.0000	0.008	0.53	1.5	0.25	3.1
						4.88	806.0000	0.008	0.54	1.4	0.25	3.0
Trunk	BS3	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.015	0.51	2.9	0.25	6.0
						4.79	775.0000	0.018	0.52	3.6	0.25	7.5
						4.86	800.0000	0.008	0.53	1.4	0.25	3.0
						4.88	806.0000	0.007	0.54	1.3	0.25	2.7
Trunk	BS4	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.017	0.51	3.3	0.25	6.9
						4.79	775.0000	0.017	0.52	3.2	0.25	6.8
						4.86	800.0000	0.011	0.53	2.1	0.25	4.4
						4.88	806.0000	0.009	0.54	1.7	0.25	3.7
Trunk	BS5	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.020	0.51	**3.9**	0.25	**8.1**
						4.79	775.0000	0.020	0.52	3.9	0.25	8.1
						4.86	800.0000	0.008	0.53	1.5	0.25	3.1
						4.88	806.0000	0.007	0.54	1.3	0.25	2.9

Note:
Results in bold font are configurations with highest percentage of limits.

Table D.2

MPE assessment for DVR 700– trunk mounted antenna - Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Trunk	PB	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.035	0.51	6.8	0.25	14.2
						4.79	775.0000	0.038	0.52	**7.3**	0.25	**15.4**
						4.86	800.0000	0.022	0.53	4.1	0.25	8.7
						4.88	806.0000	0.021	0.54	3.8	0.25	8.1
Trunk	PF	E	1	HAF4016A, 1/4 Wave (764-870MHz)	5.0	4.82	770.0000	0.022	0.51	4.3	0.25	9.0
						4.79	775.0000	0.031	0.52	6.1	0.25	12.7
						4.86	800.0000	0.013	0.53	2.4	0.25	5.1
						4.88	806.0000	0.011	0.54	2.1	0.25	4.4

Note:
Results in bold font are configurations with highest percentage of limits.

Table D.3

DVR 700 MPE Results for FCC

Pmax (W)	5	**P**initia**l** (W)	4.82	4.79	4.86	4.88
		FCCLimit (mW/cm^2)	0.51	0.52	0.53	0.54

Table	Test Post.	Angle	Trunk / Roof	E/H Field	Antenna No.	f1 770.0000	f2 775.0000	f3 800.0000	f4 806.0000
D.1	BS1		Trunk	E	1	0.004	0.003	0.002	0.002
D.1	BS2		Trunk	E	1	0.011	0.011	0.008	0.008
D.1	BS3		Trunk	E	1	0.015	0.018	0.008	0.007
D.1	BS4		Trunk	E	1	0.017	0.017	0.011	0.009
D.1	BS5		Trunk	E	1	0.020	0.020	0.008	0.007
D.2	PB		Trunk	E	1	0.035	0.038	0.022	0.021
D.2	PF		Trunk	E	1	0.022	0.031	0.013	0.011

Appendix E – MPE Test Results Summary for Companion Mobile APX4500 VHF

Table E.1

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	19.5	0.13	30.1
						59.3	144.0000	0.04	0.20	22.1	0.13	34.3
						58.8	150.8000	0.03	0.20	12.6	0.13	19.5
						58.8	156.2000	0.03	0.20	14.2	0.13	22.0
						58.8	162.0000	0.02	0.20	9.8	0.13	15.2
Roof	BS1	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	16.6	0.13	25.6
						59.3	144.0000	0.05	0.20	24.6	0.13	38.2
						58.8	150.8000	0.04	0.20	22.2	0.13	34.4
						58.8	156.2000	0.04	0.20	19.7	0.13	30.4
						58.8	162.0000	0.04	0.20	18.7	0.13	29.0
Roof	BS2	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	17.9	0.13	27.7
						59.3	144.0000	0.05	0.20	24.5	0.13	38.0
						58.8	150.8000	0.02	0.20	10.5	0.13	16.3
						58.8	156.2000	0.04	0.20	21.2	0.13	32.9
						58.8	162.0000	0.03	0.20	16.3	0.13	25.3
Roof	BS2	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	14.0	0.13	21.7
						59.3	144.0000	0.05	0.20	26.7	0.13	41.3
						58.8	150.8000	0.05	0.20	22.7	0.13	35.1
						58.8	156.2000	0.05	0.20	25.1	0.13	38.9
						58.8	162.0000	0.04	0.20	18.1	0.13	28.0
Roof	BS3	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.02	0.20	11.9	0.13	18.4
						59.3	144.0000	0.02	0.20	9.8	0.13	15.1
						58.8	150.8000	0.04	0.20	17.5	0.13	27.2
						58.8	156.2000	0.03	0.20	17.0	0.13	26.4
						58.8	162.0000	0.02	0.20	9.5	0.13	14.7

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	21.1	0.13	32.7
						59.3	144.0000	0.03	0.20	17.3	0.13	26.8
						58.8	150.8000	0.05	0.20	22.9	0.13	35.5
						58.8	156.2000	0.05	0.20	24.4	0.13	37.8
						58.8	162.0000	0.03	0.20	17.5	0.13	27.1
Roof	BS4	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	12.8	0.13	19.8
						59.3	144.0000	0.01	0.20	5.6	0.13	8.6
						58.8	150.8000	0.03	0.20	13.3	0.13	20.6
						58.8	156.2000	0.03	0.20	13.7	0.13	21.2
						58.8	162.0000	0.02	0.20	10.4	0.13	16.2
Roof	BS4	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	24.0	0.13	37.2
						59.3	144.0000	0.03	0.20	16.0	0.13	24.8
						58.8	150.8000	0.05	0.20	27.2	0.13	42.1
						58.8	156.2000	0.05	0.20	27.0	0.13	41.8
						58.8	162.0000	0.04	0.20	18.2	0.13	28.2
Roof	BS5	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.02	0.20	8.3	0.13	12.8
						59.3	144.0000	0.01	0.20	4.7	0.13	7.4
						58.8	150.8000	0.03	0.20	13.5	0.13	20.9
						58.8	156.2000	0.02	0.20	7.9	0.13	12.3
						58.8	162.0000	0.02	0.20	9.3	0.13	14.4
Roof	BS5	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.03	0.20	16.5	0.13	25.5
						59.3	144.0000	0.02	0.20	12.5	0.13	19.3
						58.8	150.8000	0.03	0.20	14.8	0.13	23.0
						58.8	156.2000	0.03	0.20	15.5	0.13	24.0
						58.8	162.0000	0.04	0.20	19.6	0.13	30.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.04	0.20	18.3	0.13	28.3
						58.8	150.8000	0.02	0.20	11.8	0.13	18.3
						59.0	158.3000	0.03	0.20	13.4	0.13	20.8
						58.7	165.9000	0.02	0.20	12.0	0.13	18.6
						59.0	173.4000	0.03	0.20	12.9	0.13	20.0
Roof	BS1	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	15.8	0.13	24.5
						58.8	150.8000	0.04	0.20	20.5	0.13	31.8
						59.0	158.3000	0.04	0.20	20.6	0.13	32.0
						58.7	165.9000	0.04	0.20	18.3	0.13	28.4
						59.0	173.4000	0.04	0.20	21.0	0.13	32.6
Roof	BS2	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	16.6	0.13	25.7
						58.8	150.8000	0.02	0.20	10.6	0.13	16.4
						59.0	158.3000	0.04	0.20	18.6	0.13	28.9
						58.7	165.9000	0.04	0.20	19.6	0.13	30.3
						59.0	173.4000	0.04	0.20	20.6	0.13	31.9
Roof	BS2	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	15.1	0.13	23.4
						58.8	150.8000	0.04	0.20	18.8	0.13	29.2
						59.0	158.3000	0.05	0.20	23.4	0.13	36.2
						58.7	165.9000	0.05	0.20	22.6	0.13	34.9
						59.0	173.4000	0.05	0.20	24.0	0.13	37.2
Roof	BS3	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	6.2	0.13	9.7
						58.8	150.8000	0.03	0.20	13.2	0.13	20.5
						59.0	158.3000	0.03	0.20	13.9	0.13	21.6
						58.7	165.9000	0.03	0.20	14.6	0.13	22.6
						59.0	173.4000	0.03	0.20	12.9	0.13	20.0

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	10.9	0.13	16.9
						58.8	150.8000	0.04	0.20	17.6	0.13	27.3
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.04	0.20	22.1	0.13	34.3
						59.0	173.4000	0.04	0.20	21.5	0.13	33.3
Roof	BS4	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	3.7	0.13	5.8
						58.8	150.8000	0.02	0.20	10.3	0.13	15.9
						59.0	158.3000	0.02	0.20	10.8	0.13	16.8
						58.7	165.9000	0.03	0.20	17.1	0.13	26.4
						59.0	173.4000	0.02	0.20	9.8	0.13	15.1
Roof	BS4	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	14.7	0.13	22.8
						58.8	150.8000	0.04	0.20	21.9	0.13	33.9
						59.0	158.3000	0.04	0.20	19.6	0.13	30.3
						58.7	165.9000	0.05	0.20	25.8	0.13	40.0
						59.0	173.4000	0.03	0.20	17.3	0.13	26.8
Roof	BS5	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.01	0.20	4.0	0.13	6.2
						58.8	150.8000	0.02	0.20	10.3	0.13	15.9
						59.0	158.3000	0.01	0.20	7.3	0.13	11.4
						58.7	165.9000	0.02	0.20	12.1	0.13	18.8
						59.0	173.4000	0.01	0.20	7.3	0.13	11.2
Roof	BS5	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	9.8	0.13	15.2
						58.8	150.8000	0.03	0.20	14.9	0.13	23.1
						59.0	158.3000	0.03	0.20	14.7	0.13	22.8
						58.7	165.9000	0.04	0.20	20.5	0.13	31.8
						59.0	173.4000	0.03	0.20	13.4	0.13	20.8

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.04	0.20	18.1	0.13	28.0
						59.0	140.0000	0.03	0.20	14.2	0.13	22.1
						59.3	144.0000	0.04	0.20	19.5	0.13	30.2
						58.8	150.8000	0.02	0.20	11.7	0.13	18.2
						59.0	158.3000	0.03	0.20	12.9	0.13	20.0
						58.7	165.9000	0.02	0.20	10.1	0.13	15.6
						59.0	173.4000	0.02	0.20	11.5	0.13	17.8
Roof	BS1	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	16.6	0.13	25.7
						59.0	140.0000	0.03	0.20	15.8	0.13	24.5
						59.3	144.0000	0.03	0.20	14.3	0.13	22.1
						58.8	150.8000	0.03	0.20	16.2	0.13	25.1
						59.0	158.3000	0.04	0.20	17.7	0.13	27.4
						58.7	165.9000	0.03	0.20	13.1	0.13	20.3
						59.0	173.4000	0.03	0.20	15.0	0.13	23.2
Roof	BS2	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	9.4	0.13	14.5
						59.0	140.0000	0.03	0.20	16.9	0.13	26.2
						59.3	144.0000	0.04	0.20	22.1	0.13	34.3
						58.8	150.8000	0.03	0.20	16.4	0.13	25.4
						59.0	158.3000	0.04	0.20	22.2	0.13	34.5
						58.7	165.9000	0.03	0.20	16.6	0.13	25.7
						59.0	173.4000	0.04	0.20	17.8	0.13	27.6
Roof	BS2	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.05	0.20	24.2	0.13	37.4
						59.0	140.0000	0.04	0.20	21.0	0.13	32.5
						59.3	144.0000	0.04	0.20	18.0	0.13	27.9
						58.8	150.8000	0.04	0.20	18.5	0.13	28.6
						59.0	158.3000	0.04	0.20	20.7	0.13	32.1
						58.7	165.9000	0.04	0.20	19.4	0.13	30.1
						59.0	173.4000	0.04	0.20	20.7	0.13	32.1

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	11.3	0.13	17.4
						59.0	140.0000	0.02	0.20	10.4	0.13	16.1
						59.3	144.0000	0.02	0.20	8.0	0.13	12.4
						58.8	150.8000	0.03	0.20	15.0	0.13	23.2
						59.0	158.3000	0.03	0.20	13.5	0.13	21.0
						58.7	165.9000	0.03	0.20	12.8	0.13	19.8
						59.0	173.4000	0.02	0.20	10.5	0.13	16.2
Roof	BS3	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	14.1	0.13	21.9
						59.0	140.0000	0.02	0.20	11.7	0.13	18.1
						59.3	144.0000	0.02	0.20	12.1	0.13	18.8
						58.8	150.8000	0.04	0.20	19.7	0.13	30.6
						59.0	158.3000	0.04	0.20	20.1	0.13	31.2
						58.7	165.9000	0.04	0.20	20.3	0.13	31.5
						59.0	173.4000	0.03	0.20	16.8	0.13	26.0
Roof	BS4	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	12.8	0.13	19.8
						59.0	140.0000	0.02	0.20	10.8	0.13	16.7
						59.3	144.0000	0.01	0.20	4.6	0.13	7.1
						58.8	150.8000	0.02	0.20	11.9	0.13	18.5
						59.0	158.3000	0.02	0.20	10.5	0.13	16.3
						58.7	165.9000	0.03	0.20	12.9	0.13	19.9
						59.0	173.4000	0.02	0.20	8.1	0.13	12.5
Roof	BS4	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.04	0.20	22.1	0.13	34.2
						59.0	140.0000	0.04	0.20	21.0	0.13	32.5
						59.3	144.0000	0.03	0.20	15.4	0.13	23.9
						58.8	150.8000	0.03	0.20	15.3	0.13	23.7
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.05	0.20	24.2	0.13	37.5
						59.0	173.4000	0.03	0.20	16.5	0.13	25.6

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS5	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.01	0.20	6.9	0.13	10.8
						59.0	140.0000	0.01	0.20	6.1	0.13	9.4
						59.3	144.0000	0.01	0.20	4.9	0.13	7.6
						58.8	150.8000	0.03	0.20	12.9	0.13	20.0
						59.0	158.3000	0.01	0.20	7.2	0.13	11.2
						58.7	165.9000	0.02	0.20	9.9	0.13	15.4
						59.0	173.4000	0.01	0.20	6.6	0.13	10.3
Roof	BS5	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.02	0.20	9.0	0.13	13.9
						59.0	140.0000	0.02	0.20	11.7	0.13	18.2
						59.3	144.0000	0.02	0.20	11.3	0.13	17.6
						58.8	150.8000	0.03	0.20	15.6	0.13	24.2
						59.0	158.3000	0.03	0.20	13.2	0.13	20.4
						58.7	165.9000	0.03	0.20	14.6	0.13	22.7
						59.0	173.4000	0.02	0.20	11.4	0.13	17.7
Roof	BS1	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	21.0	0.13	32.5
						59.0	140.0000	0.03	0.20	16.0	0.13	24.8
						59.3	144.0000	0.04	0.20	21.8	0.13	33.8
Roof	BS1	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	14.9	0.13	23.0
						59.0	140.0000	0.04	0.20	21.1	0.13	32.7
						59.3	144.0000	0.05	0.20	27.3	0.13	42.3
Roof	BS2	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	20.3	0.13	31.4
						59.0	140.0000	0.04	0.20	22.3	0.13	34.5
						59.3	144.0000	0.05	0.20	26.3	0.13	40.7
Roof	BS2	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	18.6	0.13	28.8
						59.0	140.0000	0.05	0.20	27.0	0.13	41.9
						59.3	144.0000	0.07	0.20	36.5	0.13	**56.5**
Roof	BS3	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	13.1	0.13	20.4
						59.0	140.0000	0.03	0.20	13.5	0.13	21.0
						59.3	144.0000	0.02	0.20	11.1	0.13	17.2

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.04	0.20	20.9	0.13	32.4
						59.0	140.0000	0.04	0.20	18.9	0.13	29.3
						59.3	144.0000	0.03	0.20	16.9	0.13	26.2
Roof	BS4	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	13.9	0.13	21.5
						59.0	140.0000	0.02	0.20	8.9	0.13	13.8
						59.3	144.0000	0.01	0.20	6.6	0.13	10.2
Roof	BS4	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.05	0.20	22.6	0.13	34.9
						59.0	140.0000	0.04	0.20	20.4	0.13	31.6
						59.3	144.0000	0.03	0.20	16.4	0.13	25.5
Roof	BS5	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.02	0.20	9.0	0.13	14.0
						59.0	140.0000	0.01	0.20	5.6	0.13	8.7
						59.3	144.0000	0.01	0.20	5.5	0.13	8.5
Roof	BS5	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.03	0.20	16.3	0.13	25.2
						59.0	140.0000	0.03	0.20	13.4	0.13	20.7
						59.3	144.0000	0.03	0.20	13.0	0.13	20.1
Roof	BS1	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.04	0.20	21.9	0.13	33.9
						59.1	148.0000	0.04	0.20	19.8	0.13	30.7
						58.8	150.8000	0.03	0.20	12.6	0.13	19.6
Roof	BS1	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	25.3	0.13	39.3
						59.1	148.0000	0.06	0.20	27.9	0.13	43.2
						58.8	150.8000	0.05	0.20	23.7	0.13	36.8
Roof	BS2	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	25.5	0.13	39.5
						59.1	148.0000	0.03	0.20	15.4	0.13	23.9
						58.8	150.8000	0.02	0.20	11.3	0.13	17.5
Roof	BS2	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	27.2	0.13	42.1
						59.1	148.0000	0.06	0.20	29.9	0.13	46.3
						58.8	150.8000	0.06	0.20	27.9	0.13	43.2

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Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.02	0.20	10.2	0.13	15.7
						59.1	148.0000	0.03	0.20	14.7	0.13	22.7
						58.8	150.8000	0.04	0.20	18.6	0.13	28.9
Roof	BS3	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	13.8	0.13	21.3
						59.1	148.0000	0.05	0.20	22.9	0.13	35.5
						58.8	150.8000	0.05	0.20	26.5	0.13	41.0
Roof	BS4	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.01	0.20	5.8	0.13	8.9
						59.1	148.0000	0.02	0.20	12.1	0.13	18.8
						58.8	150.8000	0.03	0.20	13.9	0.13	21.5
Roof	BS4	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	15.6	0.13	24.2
						59.1	148.0000	0.05	0.20	23.7	0.13	36.6
						58.8	150.8000	0.06	0.20	28.1	0.13	43.5
Roof	BS5	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.01	0.20	5.0	0.13	7.8
						59.1	148.0000	0.02	0.20	9.5	0.13	14.7
						58.8	150.8000	0.03	0.20	13.9	0.13	21.5
Roof	BS5	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.03	0.20	12.6	0.13	19.5
						59.1	148.0000	0.03	0.20	14.4	0.13	22.3
						58.8	150.8000	0.04	0.20	18.5	0.13	28.7
Roof	BS1	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	13.4	0.13	20.8
						58.8	156.2000	0.04	0.20	17.8	0.13	27.6
						58.8	162.0000	0.02	0.20	12.2	0.13	18.8
Roof	BS1	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.05	0.20	22.5	0.13	34.9
						58.8	156.2000	0.05	0.20	23.9	0.13	37.1
						58.8	162.0000	0.05	0.20	26.9	0.13	41.7
Roof	BS2	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	9.8	0.13	15.2
						58.8	156.2000	0.05	0.20	22.6	0.13	35.1
						58.8	162.0000	0.04	0.20	21.3	0.13	33.0

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Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS2	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.05	0.20	23.6	0.13	36.5
						58.8	156.2000	0.06	0.20	28.7	0.13	44.4
						58.8	162.0000	0.05	0.20	26.5	0.13	41.0
Roof	BS3	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	15.0	0.13	23.2
						58.8	156.2000	0.04	0.20	17.6	0.13	27.3
						58.8	162.0000	0.03	0.20	12.7	0.13	19.7
Roof	BS3	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	21.9	0.13	34.0
						58.8	156.2000	0.06	0.20	**29.0**	0.13	44.9
						58.8	162.0000	0.05	0.20	24.7	0.13	38.3
Roof	BS4	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	11.6	0.13	18.0
						58.8	156.2000	0.03	0.20	13.4	0.13	20.8
						58.8	162.0000	0.03	0.20	13.7	0.13	21.2
Roof	BS4	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	22.2	0.13	34.4
						58.8	156.2000	0.04	0.20	18.6	0.13	28.8
						58.8	162.0000	0.05	0.20	22.6	0.13	35.0
Roof	BS5	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.02	0.20	11.0	0.13	17.1
						58.8	156.2000	0.02	0.20	8.6	0.13	13.4
						58.8	162.0000	0.03	0.20	14.5	0.13	22.5
Roof	BS5	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	17.5	0.13	27.0
						58.8	156.2000	0.03	0.20	16.0	0.13	24.8
						58.8	162.0000	0.04	0.20	21.3	0.13	33.1
Roof	BS1	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.02	0.20	10.5	0.13	16.2
						58.7	167.7000	0.02	0.20	10.3	0.13	16.0
						59.0	173.4000	0.03	0.20	13.7	0.13	21.2
Roof	BS1	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.05	0.20	24.5	0.13	37.9
						58.7	167.7000	0.04	0.20	20.9	0.13	32.4
						59.0	173.4000	0.05	0.20	23.5	0.13	36.4

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS2	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	18.7	0.13	28.9
						58.7	167.7000	0.04	0.20	18.3	0.13	28.3
						59.0	173.4000	0.04	0.20	21.0	0.13	32.5
Roof	BS2	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.05	0.20	27.0	0.13	41.8
						58.7	167.7000	0.05	0.20	24.2	0.13	37.5
						59.0	173.4000	0.05	0.20	26.3	0.13	40.7
Roof	BS3	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.02	0.20	11.7	0.13	18.1
						58.7	167.7000	0.03	0.20	14.9	0.13	23.1
						59.0	173.4000	0.03	0.20	14.3	0.13	22.1
Roof	BS3	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	22.1	0.13	34.3
						58.7	167.7000	0.05	0.20	24.1	0.13	37.3
						59.0	173.4000	0.04	0.20	21.0	0.13	32.5
Roof	BS4	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.03	0.20	12.8	0.13	19.8
						58.7	167.7000	0.03	0.20	15.3	0.13	23.7
						59.0	173.4000	0.02	0.20	10.3	0.13	15.9
Roof	BS4	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	22.1	0.13	34.2
						58.7	167.7000	0.04	0.20	19.4	0.13	30.1
						59.0	173.4000	0.03	0.20	14.9	0.13	23.0
Roof	BS5	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.03	0.20	12.8	0.13	19.8
						58.7	167.7000	0.02	0.20	8.9	0.13	13.7
						59.0	173.4000	0.02	0.20	7.8	0.13	12.0
Roof	BS5	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	20.6	0.13	31.9
						58.7	167.7000	0.03	0.20	14.4	0.13	22.3
						59.0	173.4000	0.03	0.20	15.1	0.13	23.4

Note:
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Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS1	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	16.0	0.13	24.8
						59.0	140.0000	0.02	0.20	11.1	0.13	17.2
						59.3	144.0000	0.03	0.20	13.8	0.13	21.3
						58.8	150.8000	0.02	0.20	11.7	0.13	18.1
						59.0	158.3000	0.03	0.20	14.4	0.13	22.3
						58.7	165.9000	0.03	0.20	16.7	0.13	25.9
						59.0	173.4000	0.03	0.20	15.2	0.13	23.6
Roof	BS1	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	17.1	0.13	26.5
						59.0	140.0000	0.04	0.20	17.9	0.13	27.8
						59.3	144.0000	0.04	0.20	17.8	0.13	27.6
						58.8	150.8000	0.03	0.20	14.2	0.13	21.9
						59.0	158.3000	0.04	0.20	18.0	0.13	27.9
						58.7	165.9000	0.03	0.20	17.3	0.13	26.8
						59.0	173.4000	0.04	0.20	19.9	0.13	30.8
Roof	BS2	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.0	0.13	17.0
						59.0	140.0000	0.02	0.20	11.2	0.13	17.3
						59.3	144.0000	0.03	0.20	17.1	0.13	26.5
						58.8	150.8000	0.02	0.20	9.4	0.13	14.5
						59.0	158.3000	0.04	0.20	20.7	0.13	32.1
						58.7	165.9000	0.04	0.20	18.6	0.13	28.8
						59.0	173.4000	0.04	0.20	19.7	0.13	30.5
Roof	BS2	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	13.3	0.13	20.5
						59.0	140.0000	0.03	0.20	13.1	0.13	20.2
						59.3	144.0000	0.04	0.20	19.8	0.13	30.7
						58.8	150.8000	0.03	0.20	16.8	0.13	26.0
						59.0	158.3000	0.05	0.20	23.4	0.13	36.3
						58.7	165.9000	0.04	0.20	21.7	0.13	33.7
						59.0	173.4000	0.05	0.20	23.8	0.13	36.9

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS3	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.01	0.20	6.5	0.13	10.0
						59.0	140.0000	0.02	0.20	9.1	0.13	14.0
						59.3	144.0000	0.02	0.20	8.9	0.13	13.8
						58.8	150.8000	0.02	0.20	9.9	0.13	15.4
						59.0	158.3000	0.03	0.20	15.6	0.13	24.1
						58.7	165.9000	0.03	0.20	15.3	0.13	23.7
						59.0	173.4000	0.03	0.20	13.5	0.13	20.9
Roof	BS3	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	12.0	0.13	18.5
						59.0	140.0000	0.03	0.20	14.3	0.13	22.1
						59.3	144.0000	0.02	0.20	12.3	0.13	19.0
						58.8	150.8000	0.03	0.20	14.2	0.13	22.0
						59.0	158.3000	0.04	0.20	21.4	0.13	33.2
						58.7	165.9000	0.04	0.20	20.0	0.13	30.9
						59.0	173.4000	0.04	0.20	18.8	0.13	29.2
Roof	BS4	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.6	0.13	14.8
						59.0	140.0000	0.01	0.20	7.1	0.13	10.9
						59.3	144.0000	0.01	0.20	6.7	0.13	10.3
						58.8	150.8000	0.02	0.20	9.6	0.13	14.8
						59.0	158.3000	0.02	0.20	10.9	0.13	16.8
						58.7	165.9000	0.03	0.20	14.6	0.13	22.6
						59.0	173.4000	0.02	0.20	9.7	0.13	15.0
Roof	BS4	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.04	0.20	21.1	0.13	32.8
						59.0	140.0000	0.03	0.20	16.8	0.13	26.0
						59.3	144.0000	0.03	0.20	15.5	0.13	24.0
						58.8	150.8000	0.04	0.20	18.5	0.13	28.6
						59.0	158.3000	0.04	0.20	19.5	0.13	30.2
						58.7	165.9000	0.05	0.20	25.7	0.13	39.8
						59.0	173.4000	0.03	0.20	17.3	0.13	26.8

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS5	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.01	0.20	5.9	0.13	9.1
						59.0	140.0000	0.01	0.20	6.0	0.13	9.2
						59.3	144.0000	0.01	0.20	4.6	0.13	7.1
						58.8	150.8000	0.02	0.20	10.3	0.13	16.0
						59.0	158.3000	0.01	0.20	5.7	0.13	8.9
						58.7	165.9000	0.02	0.20	10.4	0.13	16.1
						59.0	173.4000	0.01	0.20	6.5	0.13	10.0
Roof	BS5	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.03	0.20	12.7	0.13	19.6
						59.0	140.0000	0.02	0.20	11.3	0.13	17.5
						59.3	144.0000	0.02	0.20	11.6	0.13	18.0
						58.8	150.8000	0.03	0.20	14.8	0.13	22.9
						59.0	158.3000	0.03	0.20	12.7	0.13	19.7
						58.7	165.9000	0.03	0.20	16.3	0.13	25.3
						59.0	173.4000	0.02	0.20	11.5	0.13	17.8
Roof	BS1	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.1	0.13	17.2
						59.0	140.0000	0.02	0.20	10.1	0.13	15.7
						59.3	144.0000	0.02	0.20	11.1	0.13	17.3
						58.8	150.8000	0.02	0.20	9.9	0.13	15.4
						59.0	158.3000	0.02	0.20	10.4	0.13	16.1
						58.7	165.9000	0.03	0.20	13.0	0.13	20.1
						59.0	173.4000	0.03	0.20	17.4	0.13	27.0
Roof	BS1	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	10.6	0.13	16.5
						59.0	140.0000	0.02	0.20	10.5	0.13	16.3
						59.3	144.0000	0.03	0.20	13.9	0.13	21.6
						58.8	150.8000	0.02	0.20	10.1	0.13	15.6
						59.0	158.3000	0.03	0.20	14.7	0.13	22.8
						58.7	165.9000	0.03	0.20	17.0	0.13	26.4
						59.0	173.4000	0.04	0.20	22.0	0.13	34.1

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS2	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.1	0.13	14.1
						59.0	140.0000	0.02	0.20	8.4	0.13	13.0
						59.3	144.0000	0.02	0.20	10.9	0.13	16.9
						58.8	150.8000	0.02	0.20	9.2	0.13	14.3
						59.0	158.3000	0.03	0.20	16.9	0.13	26.1
						58.7	165.9000	0.03	0.20	12.5	0.13	19.4
						59.0	173.4000	0.04	0.20	19.8	0.13	30.7
Roof	BS2	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.2	0.13	17.4
						59.0	140.0000	0.02	0.20	10.8	0.13	16.7
						59.3	144.0000	0.02	0.20	10.9	0.13	16.8
						58.8	150.8000	0.03	0.20	12.7	0.13	19.6
						59.0	158.3000	0.03	0.20	16.8	0.13	26.0
						58.7	165.9000	0.03	0.20	14.1	0.13	21.8
						59.0	173.4000	0.04	0.20	20.7	0.13	32.1
Roof	BS3	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	4.5	0.13	7.0
						59.0	140.0000	0.01	0.20	5.3	0.13	8.2
						59.3	144.0000	0.01	0.20	5.8	0.13	8.9
						58.8	150.8000	0.01	0.20	6.0	0.13	9.3
						59.0	158.3000	0.03	0.20	12.9	0.13	20.0
						58.7	165.9000	0.02	0.20	8.4	0.13	13.0
						59.0	173.4000	0.03	0.20	13.3	0.13	20.6
Roof	BS3	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.4	0.13	14.6
						59.0	140.0000	0.02	0.20	10.3	0.13	15.9
						59.3	144.0000	0.02	0.20	10.1	0.13	15.7
						58.8	150.8000	0.02	0.20	9.6	0.13	14.9
						59.0	158.3000	0.03	0.20	16.0	0.13	24.7
						58.7	165.9000	0.03	0.20	12.5	0.13	19.4
						59.0	173.4000	0.04	0.20	17.7	0.13	27.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.1 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Bystander

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	BS4	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	5.5	0.13	8.5
						59.0	140.0000	0.01	0.20	4.5	0.13	7.0
						59.3	144.0000	0.01	0.20	4.6	0.13	7.2
						58.8	150.8000	0.01	0.20	5.4	0.13	8.3
						59.0	158.3000	0.02	0.20	9.4	0.13	14.5
						58.7	165.9000	0.02	0.20	7.6	0.13	11.8
						59.0	173.4000	0.02	0.20	9.4	0.13	14.6
Roof	BS4	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.03	0.20	16.1	0.13	24.9
						59.0	140.0000	0.03	0.20	16.5	0.13	25.5
						59.3	144.0000	0.04	0.20	18.0	0.13	27.9
						58.8	150.8000	0.03	0.20	16.7	0.13	25.8
						59.0	158.3000	0.04	0.20	18.2	0.13	28.2
						58.7	165.9000	0.03	0.20	15.6	0.13	24.2
						59.0	173.4000	0.04	0.20	18.4	0.13	28.5
Roof	BS5	E	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	3.3	0.13	5.1
						59.0	140.0000	0.01	0.20	3.8	0.13	5.9
						59.3	144.0000	0.01	0.20	3.4	0.13	5.2
						58.8	150.8000	0.01	0.20	4.5	0.13	7.0
						59.0	158.3000	0.01	0.20	3.7	0.13	5.7
						58.7	165.9000	0.01	0.20	6.0	0.13	9.3
						59.0	173.4000	0.01	0.20	5.9	0.13	9.2
Roof	BS5	H	13	RAD4010ARB 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.02	0.20	9.6	0.13	14.8
						59.0	140.0000	0.02	0.20	10.3	0.13	16.0
						59.3	144.0000	0.02	0.20	10.2	0.13	15.8
						58.8	150.8000	0.02	0.20	12.1	0.13	18.8
						59.0	158.3000	0.02	0.20	10.9	0.13	16.9
						58.7	165.9000	0.02	0.20	10.7	0.13	16.6
						59.0	173.4000	0.02	0.20	10.6	0.13	16.5

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PB	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.14	0.20	70.4	0.13	109.1
						59.3	144.0000	0.12	0.20	60.7	0.13	94.1
						58.8	150.8000	0.15	0.20	76.3	0.13	118.2
						58.8	156.2000	0.15	0.20	77.4	0.13	119.9
						58.8	162.0000	0.14	0.20	72.2	0.13	111.8
Roof	PB	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	22.7	0.13	35.1
						59.3	144.0000	0.06	0.20	28.9	0.13	44.8
						58.8	150.8000	0.08	0.20	37.5	0.13	58.2
						58.8	156.2000	0.07	0.20	32.9	0.13	51.0
						58.8	162.0000	0.05	0.20	26.1	0.13	40.4
Roof	PB	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.07	0.20	36.4	0.13	56.3
						58.8	150.8000	0.12	0.20	59.3	0.13	91.9
						59.0	158.3000	0.15	0.20	75.9	0.13	117.6
						58.7	165.9000	0.15	0.20	76.2	0.13	118.0
						59.0	173.4000	0.06	0.20	31.6	0.13	49.0
Roof	PB	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.03	0.20	17.2	0.13	26.6
						58.8	150.8000	0.06	0.20	28.3	0.13	43.8
						59.0	158.3000	0.07	0.20	32.8	0.13	50.8
						58.7	165.9000	0.07	0.20	34.1	0.13	52.9
						59.0	173.4000	0.05	0.20	24.7	0.13	38.3
Roof	PB	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.10	0.20	49.0	0.13	75.9
						59.0	140.0000	0.16	0.20	77.7	0.13	120.4
						59.3	144.0000	0.15	0.20	72.6	0.13	112.5
						58.8	150.8000	0.16	0.20	80.5	0.13	124.7
						59.0	158.3000	0.16	0.20	78.2	0.13	121.2
						58.7	165.9000	0.12	0.20	57.9	0.13	89.6
						59.0	173.4000	0.06	0.20	28.9	0.13	44.7

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PB	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.06	0.20	28.8	0.13	44.7
						59.0	140.0000	0.05	0.20	26.8	0.13	41.5
						59.3	144.0000	0.04	0.20	22.0	0.13	34.2
						58.8	150.8000	0.06	0.20	31.2	0.13	48.4
						59.0	158.3000	0.04	0.20	22.2	0.13	34.4
						58.7	165.9000	0.06	0.20	28.2	0.13	43.7
						59.0	173.4000	0.04	0.20	20.7	0.13	32.0
Roof	PB	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.18	0.20	90.9	0.13	140.8
						59.0	140.0000	0.14	0.20	69.9	0.13	108.3
						59.3	144.0000	0.12	0.20	59.3	0.13	91.8
Roof	PB	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	33.6	0.13	52.0
						59.0	140.0000	0.07	0.20	33.7	0.13	52.2
						59.3	144.0000	0.07	0.20	33.5	0.13	51.9
Roof	PB	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.11	0.20	54.7	0.13	84.7
						59.1	148.0000	0.16	0.20	81.0	0.13	125.5
						58.8	150.8000	0.17	0.20	85.4	0.13	132.4
Roof	PB	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.05	0.20	26.6	0.13	41.3
						59.1	148.0000	0.07	0.20	37.4	0.13	57.9
						58.8	150.8000	0.08	0.20	41.8	0.13	64.8
Roof	PB	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.13	0.20	65.6	0.13	101.6
						58.8	156.2000	0.18	0.20	90.3	0.13	139.9
						58.8	162.0000	0.20	0.20	98.9	0.13	153.2
Roof	PB	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.08	0.20	37.5	0.13	58.2
						58.8	156.2000	0.08	0.20	39.5	0.13	61.2
						58.8	162.0000	0.08	0.20	38.2	0.13	59.1
Roof	PB	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.20	0.20	**99.9**	0.13	**154.8**
						58.7	167.7000	0.13	0.20	65.2	0.13	100.9
						59.0	173.4000	0.09	0.20	44.9	0.13	69.5

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PB	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.07	0.20	34.9	0.13	54.1
						58.7	167.7000	0.06	0.20	31.4	0.13	48.6
						59.0	173.4000	0.06	0.20	30.5	0.13	47.2
Roof	PB	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.04	0.20	18.4	0.13	28.5
						59.0	140.0000	0.04	0.20	19.1	0.13	29.6
						59.3	144.0000	0.04	0.20	20.6	0.13	31.8
						58.8	150.8000	0.06	0.20	27.7	0.13	42.9
						59.0	158.3000	0.07	0.20	35.6	0.13	55.2
						58.7	165.9000	0.08	0.20	38.4	0.13	59.5
						59.0	173.4000	0.04	0.20	19.4	0.13	30.0
Roof	PB	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	10.6	0.13	16.4
						59.0	140.0000	0.03	0.20	16.2	0.13	25.0
						59.3	144.0000	0.03	0.20	14.0	0.13	21.7
						58.8	150.8000	0.02	0.20	10.2	0.13	15.8
						59.0	158.3000	0.03	0.20	12.5	0.13	19.4
						58.7	165.9000	0.04	0.20	21.3	0.13	33.0
						59.0	173.4000	0.03	0.20	13.9	0.13	21.5
Roof	PB	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.01	0.20	6.5	0.13	10.0
						59.0	140.0000	0.02	0.20	12.2	0.13	18.9
						59.3	144.0000	0.03	0.20	13.6	0.13	21.1
						58.8	150.8000	0.02	0.20	8.7	0.13	13.4
						59.0	158.3000	0.03	0.20	15.4	0.13	23.8
						58.7	165.9000	0.03	0.20	13.6	0.13	21.0
						59.0	173.4000	0.02	0.20	11.6	0.13	17.9
Roof	PB	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.03	0.20	13.5	0.13	20.9
						59.0	140.0000	0.02	0.20	9.9	0.13	15.4
						59.3	144.0000	0.02	0.20	12.4	0.13	19.2
						58.8	150.8000	0.02	0.20	9.7	0.13	15.1
						59.0	158.3000	0.03	0.20	13.4	0.13	20.8
						58.7	165.9000	0.03	0.20	13.9	0.13	21.5
						59.0	173.4000	0.02	0.20	9.8	0.13	15.2

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PF	E	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.04	0.20	18.1	0.13	28.0
						59.3	144.0000	0.06	0.20	29.8	0.13	46.2
						58.8	150.8000	0.03	0.20	15.4	0.13	23.8
						58.8	156.2000	0.04	0.20	19.2	0.13	29.7
						58.8	162.0000	0.04	0.20	21.1	0.13	32.7
Roof	PF	H	5	HAD4016A, 1/4 Wave (136-162 MHz)	60.0	59.0	136.0000	0.05	0.20	24.4	0.13	37.8
						59.3	144.0000	0.04	0.20	18.1	0.13	28.0
						58.8	150.8000	0.04	0.20	18.4	0.13	28.4
						58.8	156.2000	0.04	0.20	21.3	0.13	33.0
						58.8	162.0000	0.04	0.20	21.5	0.13	33.4
Roof	PF	E	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.05	0.20	26.5	0.13	41.1
						58.8	150.8000	0.04	0.20	17.6	0.13	27.3
						59.0	158.3000	0.04	0.20	22.5	0.13	34.8
						58.7	165.9000	0.06	0.20	28.3	0.13	43.9
						59.0	173.4000	0.07	0.20	34.8	0.13	54.0
Roof	PF	H	6	HAD4017A, 1/4 Wave (146-174 MHz)	60.0	59.6	146.0000	0.02	0.20	11.7	0.13	18.1
						58.8	150.8000	0.03	0.20	13.8	0.13	21.4
						59.0	158.3000	0.05	0.20	24.8	0.13	38.4
						58.7	165.9000	0.06	0.20	30.0	0.13	46.4
						59.0	173.4000	0.03	0.20	13.6	0.13	21.0
Roof	PF	E	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.03	0.20	16.3	0.13	25.3
						59.0	140.0000	0.05	0.20	26.5	0.13	41.0
						59.3	144.0000	0.03	0.20	14.7	0.13	22.8
						58.8	150.8000	0.02	0.20	12.5	0.13	19.3
						59.0	158.3000	0.05	0.20	24.1	0.13	37.4
						58.7	165.9000	0.03	0.20	14.2	0.13	22.1
						59.0	173.4000	0.03	0.20	15.0	0.13	23.2

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PF	H	7	HAD4021A, 1/4 Wave (136 -174MHz)	60.0	59.0	136.0000	0.07	0.20	33.7	0.13	52.2
						59.0	140.0000	0.07	0.20	35.2	0.13	54.5
						59.3	144.0000	0.04	0.20	21.2	0.13	32.9
						58.8	150.8000	0.03	0.20	17.4	0.13	27.0
						59.0	158.3000	0.03	0.20	16.2	0.13	25.0
						58.7	165.9000	0.02	0.20	9.2	0.13	14.3
						59.0	173.4000	0.02	0.20	10.6	0.13	16.4
Roof	PF	E	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	35.1	0.13	54.4
						59.0	140.0000	0.05	0.20	24.7	0.13	38.3
						59.3	144.0000	0.07	0.20	35.3	0.13	54.8
Roof	PF	H	8	HAD4006A, 1/4 Wave (136-144 MHz)	60.0	59.0	136.0000	0.07	0.20	35.9	0.13	55.7
						59.0	140.0000	0.05	0.20	26.2	0.13	40.6
						59.3	144.0000	0.04	0.20	20.1	0.13	31.1
Roof	PF	E	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.07	0.20	34.7	0.13	53.8
						59.1	148.0000	0.06	0.20	29.1	0.13	45.1
						58.8	150.8000	0.05	0.20	25.8	0.13	40.0
Roof	PF	H	9	HAD4007A, 1/4 Wave (144-150.8 MHz)	60.0	59.3	144.0000	0.04	0.20	19.4	0.13	30.1
						59.1	148.0000	0.04	0.20	17.5	0.13	27.2
						58.8	150.8000	0.04	0.20	20.2	0.13	31.3
Roof	PF	E	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.04	0.20	21.8	0.13	33.7
						58.8	156.2000	0.06	0.20	27.7	0.13	42.9
						58.8	162.0000	0.05	0.20	24.5	0.13	38.0
Roof	PF	H	10	HAD4008A, 1/4 Wave (150.8-162 MHz)	60.0	58.8	150.8000	0.03	0.20	15.9	0.13	24.6
						58.8	156.2000	0.03	0.20	17.3	0.13	26.7
						58.8	162.0000	0.03	0.20	15.5	0.13	24.0
Roof	PF	E	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.08	0.20	**39.7**	0.13	**61.5**
						58.7	167.7000	0.08	0.20	38.1	0.13	59.0
						59.0	173.4000	0.07	0.20	34.1	0.13	52.8

Note:
Blue fonts: Frequencies not regulated by FCC.
Results in bold font are configurations with highest percentage of limits.

Table E.2 (Continued)

MPE assessment for APX4500 VHF - roof mounted antenna – Passenger

Trunk / Roof	Test Post.	E/H Field	Antenna No.	Antenna Model	Max Pwr (W)	Initial Pwr (W)	Tx Freq (MHz)	Max Calc. P.D. (mW/cm^2)	FCC Limit	% To FCC Spec Limit	ISED Limit	% To ISED Spec Limit
Roof	PF	H	11	HAD4009A, 1/4 Wave (162-174 MHz)	60.0	58.8	162.0000	0.04	0.20	17.5	0.13	27.2
						58.7	167.7000	0.03	0.20	14.4	0.13	22.2
						59.0	173.4000	0.04	0.20	19.1	0.13	29.7
Roof	PF	E	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.02	0.20	11.3	0.13	17.6
						59.0	140.0000	0.05	0.20	26.4	0.13	40.8
						59.3	144.0000	0.04	0.20	17.7	0.13	27.4
						58.8	150.8000	0.06	0.20	32.1	0.13	49.7
						59.0	158.3000	0.04	0.20	19.1	0.13	29.6
						58.7	165.9000	0.04	0.20	17.8	0.13	27.6
						59.0	173.4000	0.04	0.20	17.7	0.13	27.5
Roof	PF	H	12	HAD4022A, 5/8 Wave (132 -174 MHz)	60.0	59.0	136.0000	0.06	0.20	28.5	0.13	44.2
						59.0	140.0000	0.05	0.20	27.2	0.13	42.1
						59.3	144.0000	0.02	0.20	11.9	0.13	18.4
						58.8	150.8000	0.02	0.20	8.9	0.13	13.8
						59.0	158.3000	0.02	0.20	11.4	0.13	17.7
						58.7	165.9000	0.03	0.20	17.1	0.13	26.6
						59.0	173.4000	0.02	0.20	12.5	0.13	19.3
Roof	PF	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.04	0.20	19.4	0.13	30.0
						59.0	140.0000	0.01	0.20	6.7	0.13	10.3
						59.3	144.0000	0.03	0.20	12.6	0.13	19.5
						58.8	150.8000	0.01	0.20	6.2	0.13	9.7
						59.0	158.3000	0.05	0.20	25.6	0.13	39.6
						58.7	165.9000	0.05	0.20	26.5	0.13	41.1
						59.0	173.4000	0.03	0.20	13.8	0.13	21.4
Roof	PF	E	13	RAD4010AR 1/2 wave (136-174 MHz)	60.0	59.0	136.0000	0.06	0.20	29.2	0.13	45.3
						59.0	140.0000	0.02	0.20	10.4	0.13	16.2
						59.3	144.0000	0.03	0.20	13.4	0.13	20.8
						58.8	150.8000	0.01	0.20	5.9	0.13	9.1
						59.0	158.3000	0.02	0.20	8.9	0.13	13.8
						58.7	165.9000	0.03	0.20	14.1	0.13	21.9
						59.0	173.4000	0.02	0.20	10.6	0.13	16.4

Note:
Blue fonts: Frequencies not regulated by FCC.

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	Pinitial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	E	5	0.04		0.04			0.03	0.03		0.02			
E.1	BS2	Roof	E	5	0.04		0.05			0.02	0.04		0.03			
E.1	BS3	Roof	E	5	0.02		0.02			0.04	0.03		0.02			
E.1	BS4	Roof	E	5	0.03		0.01			0.03	0.03		0.02			
E.1	BS5	Roof	E	5	0.02		0.01			0.03	0.02		0.02			
E.1	BS1	Roof	H	5	0.03		0.05			0.04	0.04		0.04			
E.1	BS2	Roof	H	5	0.03		0.05			0.05	0.05		0.04			
E.1	BS3	Roof	H	5	0.04		0.03			0.05	0.05		0.03			
E.1	BS4	Roof	H	5	0.05		0.03			0.05	0.05		0.04			
E.1	BS5	Roof	H	5	0.03		0.02			0.03	0.03		0.04			
E.1	BS1	Roof	E	6				0.04		0.02		0.03		0.02		0.03
E.1	BS2	Roof	E	6				0.03		0.02		0.04		0.04		0.04
E.1	BS3	Roof	E	6				0.01		0.03		0.03		0.03		0.03
E.1	BS4	Roof	E	6				0.01		0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	6				0.01		0.02		0.01		0.02		0.01
E.1	BS1	Roof	H	6				0.03		0.04		0.04		0.04		0.04
E.1	BS2	Roof	H	6				0.03		0.04		0.05		0.05		0.05
E.1	BS3	Roof	H	6				0.02		0.04		0.04		0.04		0.04
E.1	BS4	Roof	H	6				0.03		0.04		0.04		0.05		0.05
E.1	BS5	Roof	H	6				0.02		0.03		0.03		0.04		0.03
E.1	BS1	Roof	E	7	0.04	0.03	0.04			0.02		0.03		0.02		0.02
E.1	BS2	Roof	E	7	0.02	0.03	0.04			0.03		0.04		0.03		0.04
E.1	BS3	Roof	E	7	0.02	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS4	Roof	E	7	0.03	0.02	0.01			0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	7	0.01	0.01	0.01			0.03		0.01		0.02		0.01
E.1	BS1	Roof	H	7	0.03	0.03	0.03			0.03		0.04		0.03		0.03
E.1	BS2	Roof	H	7	0.05	0.04	0.04			0.04		0.04		0.04		0.04
E.1	BS3	Roof	H	7	0.03	0.02	0.02			0.04		0.04		0.04		0.03
E.1	BS4	Roof	H	7	0.04	0.04	0.03			0.03		0.04		0.05		0.03
E.1	BS5	Roof	H	7	0.02	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS1	Roof	E	8	0.04	0.03	0.04									
E.1	BS2	Roof	E	8	0.04	0.04	0.05									
E.1	BS3	Roof	E	8	0.03	0.03	0.02									
E.1	BS4	Roof	E	8	0.03	0.02	0.01									
E.1	BS5	Roof	E	8	0.02	0.01	0.01									

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60												
	Pinitial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	H	8	0.03	0.04	0.05									
E.1	BS2	Roof	H	8	0.04	0.05	0.07									
E.1	BS3	Roof	H	8	0.04	0.04	0.03									
E.1	BS4	Roof	H	8	0.05	0.04	0.03									
E.1	BS5	Roof	H	8	0.03	0.03	0.03									
E.1	BS1	Roof	E	9			0.04		0.04	0.03						
E.1	BS2	Roof	E	9			0.05		0.03	0.02						
E.1	BS3	Roof	E	9			0.02		0.03	0.04						
E.1	BS4	Roof	E	9			0.01		0.02	0.03						
E.1	BS5	Roof	E	9			0.01		0.02	0.03						
E.1	BS1	Roof	H	9			0.05		0.06	0.05						
E.1	BS2	Roof	H	9			0.05		0.06	0.06						
E.1	BS3	Roof	H	9			0.03		0.05	0.05						
E.1	BS4	Roof	H	9			0.03		0.05	0.06						
E.1	BS5	Roof	H	9			0.03		0.03	0.04						
E.1	BS1	Roof	E	10						0.05	0.05		0.05			
E.1	BS2	Roof	E	10						0.05	0.06		0.05			
E.1	BS3	Roof	E	10						0.04	0.06		0.05			
E.1	BS4	Roof	E	10						0.02	0.03		0.03			
E.1	BS5	Roof	E	10						0.02	0.02		0.03			
E.1	BS1	Roof	H	10						0.05	0.05		0.05			
E.1	BS2	Roof	H	10						0.05	0.06		0.05			
E.1	BS3	Roof	H	10						0.04	0.06		0.05			
E.1	BS4	Roof	H	10						0.04	0.04		0.05			
E.1	BS5	Roof	H	10						0.03	0.03		0.04			
E.1	BS1	Roof	E	11									0.02		0.02	0.03
E.1	BS2	Roof	E	11									0.04		0.04	0.04
E.1	BS3	Roof	E	11									0.02		0.03	0.03
E.1	BS4	Roof	E	11									0.03		0.03	0.02
E.1	BS5	Roof	E	11									0.03		0.02	0.02
E.1	BS1	Roof	H	11									0.05		0.04	0.05
E.1	BS2	Roof	H	11									0.05		0.05	0.05
E.1	BS3	Roof	H	11									0.04		0.05	0.04
E.1	BS4	Roof	H	11									0.04		0.04	0.03
E.1	BS5	Roof	H	11									0.04		0.03	0.03

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	**P**initial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.1	BS1	Roof	E	12	0.03	0.02	0.03			0.02		0.03		0.03		0.03
E.1	BS2	Roof	E	12	0.02	0.02	0.03			0.02		0.04		0.04		0.04
E.1	BS3	Roof	E	12	0.01	0.02	0.02			0.02		0.03		0.03		0.03
E.1	BS4	Roof	E	12	0.02	0.01	0.01			0.02		0.02		0.03		0.02
E.1	BS5	Roof	E	12	0.01	0.01	0.01			0.02		0.01		0.02		0.01
E.1	BS1	Roof	H	12	0.03	0.04	0.04			0.03		0.04		0.03		0.04
E.1	BS2	Roof	H	12	0.03	0.03	0.04			0.03		0.05		0.04		0.05
E.1	BS3	Roof	H	12	0.02	0.03	0.02			0.03		0.04		0.04		0.04
E.1	BS4	Roof	H	12	0.04	0.03	0.03			0.04		0.04		0.05		0.03
E.1	BS5	Roof	H	12	0.03	0.02	0.02			0.03		0.03		0.03		0.02
E.1	BS1	Roof	E	13	0.02	0.02	0.02			0.02		0.02		0.03		0.03
E.1	BS2	Roof	E	13	0.02	0.02	0.02			0.02		0.03		0.03		0.04
E.1	BS3	Roof	E	13	0.01	0.01	0.01			0.01		0.03		0.02		0.03
E.1	BS4	Roof	E	13	0.01	0.01	0.01			0.01		0.02		0.02		0.02
E.1	BS5	Roof	E	13	0.01	0.01	0.01			0.01		0.01		0.01		0.01
E.1	BS1	Roof	H	13	0.02	0.02	0.03			0.02		0.03		0.03		0.04
E.1	BS2	Roof	H	13	0.02	0.02	0.02			0.03		0.03		0.03		0.04
E.1	BS3	Roof	H	13	0.02	0.02	0.02			0.02		0.03		0.03		0.04
E.1	BS4	Roof	H	13	0.03	0.03	0.04			0.03		0.04		0.03		0.04
E.1	BS5	Roof	H	13	0.02	0.02	0.02			0.02		0.02		0.02		0.02
E.2	PB	Roof	E	5	0.14		0.12			0.15	0.15		0.14			
E.2	PB	Roof	H	5	0.05		0.06			0.08	0.07		0.05			
E.2	PB	Roof	E	6				0.07		0.12		0.15		0.15		0.06
E.2	PB	Roof	H	6				0.03		0.06		0.07		0.07		0.05
E.2	PB	Roof	E	7	0.10	0.16	0.15			0.16		0.16		0.12		0.06
E.2	PB	Roof	H	7	0.06	0.05	0.04			0.06		0.04		0.06		0.04
E.2	PB	Roof	E	8	0.18	0.14	0.12									
E.2	PB	Roof	H	8	0.07	0.07	0.07									
E.2	PB	Roof	E	9			0.11		0.16	0.17						
E.2	PB	Roof	H	9			0.05		0.07	0.08						
E.2	PB	Roof	E	10						0.13	0.18		0.20			
E.2	PB	Roof	H	10						0.08	0.08		0.08			
E.2	PB	Roof	E	11									0.20		0.13	0.09
E.2	PB	Roof	H	11									0.07		0.06	0.06
E.2	PB	Roof	E	12	0.04	0.04	0.04			0.06		0.07		0.08		0.04
E.2	PB	Roof	H	12	0.02	0.03	0.03			0.02		0.03		0.04		0.03
E.2	PB	Roof	E	13	0.01	0.02	0.03			0.02		0.03		0.03		0.02
E.2	PB	Roof	H	13	0.03	0.02	0.02			0.02		0.03		0.03		0.02

Table E.3

Companion Mobile LMR VHF MPE Results for FCC

Note:
Blue fonts: Frequencies not regulated by FCC.

Pmax (W) 60	**P**initial (W)	59.0	59.0	59.3	59.6	59.1	58.8	58.8	59.0	58.8	58.7	58.7	59.0
	FCCLimit (mW/cm^2)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table	Test Post.	Trunk / Roof	E/H Field	Antenna No.	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
					136.0000	140.0000	144.0000	146.0000	148.0000	150.8000	156.2000	158.3000	162.0000	165.9000	167.7000	173.4000
E.2	PF	Roof	E	5	0.04		0.06			0.03	0.04		0.04			
E.2	PF	Roof	H	5	0.05		0.04			0.04	0.04		0.04			
E.2	PF	Roof	E	6				0.05		0.04		0.04		0.06		0.07
E.2	PF	Roof	H	6				0.02		0.03		0.05		0.06		0.03
E.2	PF	Roof	E	7	0.03	0.05	0.03			0.02		0.05		0.03		0.03
E.2	PF	Roof	H	7	0.07	0.07	0.04			0.03		0.03		0.02		0.02
E.2	PF	Roof	E	8	0.07	0.05	0.07									
E.2	PF	Roof	H	8	0.07	0.05	0.04									
E.2	PF	Roof	E	9			0.07		0.06	0.05						
E.2	PF	Roof	H	9			0.04		0.04	0.04						
E.2	PF	Roof	E	10						0.04	0.06		0.05			
E.2	PF	Roof	H	10						0.03	0.03		0.03			
E.2	PF	Roof	E	11									0.08		0.08	0.07
E.2	PF	Roof	H	11									0.04		0.03	0.04
E.2	PF	Roof	E	12	0.02	0.05	0.04			0.06		0.04		0.04		0.04
E.2	PF	Roof	H	12	0.06	0.05	0.02			0.02		0.02		0.03		0.02
E.2	PF	Roof	E	13	0.04	0.01	0.03			0.01		0.05		0.05		0.03
E.2	PF	Roof	H	13	0.06	0.02	0.03			0.01		0.02		0.03		0.02

Appendix F – MPE Measurement Results for DVR 700

Table F.1

DVR 700 - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements													
										Bystander (BS) Positions													
Ant 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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS1	0.001	0.001	0.002	0.003	0.003	0.004	0.006	0.003	0.006	0.004	1.0	0.003	0.004	0.004
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS1	0.001	0.001	0.001	0.001	0.003	0.004	0.004	0.003	0.003	0.005	1.0	0.003	0.003	0.003
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS1	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.003	0.004	1.0	0.002	0.002	0.002
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.004	1.0	0.002	0.002	0.002
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS2	0.003	0.002	0.004	0.003	0.006	0.010	0.015	0.015	0.016	0.017	1.0	0.009	0.011	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS2	0.002	0.002	0.003	0.004	0.007	0.006	0.014	0.015	0.017	0.017	1.0	0.009	0.010	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS2	0.001	0.001	0.001	0.002	0.005	0.009	0.008	0.014	0.012	0.012	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS2	0.001	0.001	0.001	0.003	0.005	0.009	0.010	0.013	0.013	0.009	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS3	0.002	0.003	0.005	0.006	0.011	0.020	0.020	0.020	0.018	0.017	1.0	0.012	0.014	0.015
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS3	0.003	0.004	0.007	0.009	0.015	0.016	0.028	0.025	0.025	0.020	1.0	0.015	0.018	0.018
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS3	0.001	0.002	0.003	0.003	0.003	0.006	0.010	0.011	0.013	0.011	1.0	0.006	0.007	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS3	0.001	0.001	0.002	0.002	0.004	0.006	0.009	0.012	0.011	0.009	1.0	0.006	0.007	0.007

MPE calculations are defined in section 14.0.

Table F.1 (Continued)

DVR 700 - MPE measurement data for Bystander

D.U.T. Info.							Probe Info.			MPE Measurements														
										Bystander (BS) Positions														
Ant 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.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS4	0.003	0.003	0.007	0.014	0.018	0.027	0.026	0.017	0.015	0.010	1.0	0.014	0.016	0.017
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS4	0.004	0.004	0.004	0.015	0.023	0.022	0.021	0.022	0.012	0.011	1.0	0.014	0.016	0.017
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS4	0.001	0.002	0.003	0.009	0.012	0.018	0.014	0.011	0.011	0.012	1.0	0.009	0.011	0.011
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS4	0.001	0.002	0.004	0.007	0.008	0.013	0.009	0.011	0.013	0.011	1.0	0.008	0.009	0.009
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	BS5	0.004	0.004	0.006	0.015	0.021	0.025	0.028	0.023	0.021	0.018	1.0	0.017	0.019	0.020
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	BS5	0.005	0.005	0.006	0.012	0.015	0.027	0.026	0.023	0.024	0.022	1.0	0.017	0.019	0.020
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	BS5	0.002	0.002	0.002	0.006	0.007	0.009	0.006	0.008	0.009	0.015	1.0	0.007	0.008	0.008
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	BS5	0.001	0.002	0.002	0.006	0.008	0.009	0.007	0.008	0.009	0.009	1.0	0.006	0.007	0.007

MPE calculations are defined in section 14.0.

Table F.2

DVR 700 - MPE measurement data for Passenger

D.U.T. Info.							Probe Info.			MPE Measurements						
										Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	PB	0.049	0.018	0.020	1.0	0.029	0.034	0.035
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	PB	0.044	0.024	0.026	1.0	0.031	0.036	0.038
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	PB	0.015	0.016	0.024	1.0	0.018	0.021	0.022
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	PB	0.023	0.018	0.011	1.0	0.017	0.020	0.021
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	770.0000	5.00	4.82	CW	E	1.16	PF	0.017	0.027	0.011	1.0	0.018	0.021	0.022
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	775.0000	5.00	4.79	CW	E	1.16	PF	0.024	0.037	0.017	1.0	0.026	0.030	0.031
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	800.0000	5.00	4.86	CW	E	1.17	PF	0.013	0.012	0.007	1.0	0.011	0.012	0.013
Trunk	HAF4016A, 1/4 Wave (764-870MHz)	2.15	806.0000	5.00	4.88	CW	E	1.16	PF	0.011	0.011	0.006	1.0	0.009	0.011	0.011

MPE calculations are defined in section 14.0.

Appendix G – MPE Measurement Results for APX4500 VHF

Table G.1

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.042	0.062	0.072	0.068	0.064	0.071	0.072	0.082	0.081	0.077	0.5	0.071	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.038	0.06	0.068	0.062	0.057	0.049	0.05	0.056	0.056	0.053	0.5	0.056	0.028	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.055	0.082	0.087	0.08	0.074	0.071	0.076	0.08	0.079	0.071	0.5	0.077	0.039	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.055	0.045	0.04	0.037	0.042	0.046	0.047	0.044	0.5	0.046	0.023	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.041	0.058	0.056	0.045	0.04	0.08	0.044	0.046	0.044	0.043	0.5	0.051	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.045	0.057	0.03	0.034	0.03	0.03	0.035	0.037	0.04	0.048	0.5	0.039	0.020	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.04	0.051	0.046	0.035	0.027	0.031	0.04	0.048	0.056	0.068	0.5	0.045	0.023	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.014	0.028	0.039	0.041	0.041	0.04	0.04	0.041	0.04	0.034	0.5	0.037	0.018	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.031	0.053	0.069	0.071	0.072	0.07	0.07	0.075	0.071	0.071	0.5	0.067	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.043	0.067	0.081	0.085	0.087	0.09	0.097	0.104	0.104	0.1	0.5	0.088	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.037	0.058	0.07	0.075	0.07	0.066	0.07	0.064	0.063	0.058	0.5	0.064	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.054	0.081	0.099	0.088	0.084	0.084	0.091	0.094	0.092	0.091	0.5	0.088	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.046	0.06	0.059	0.063	0.062	0.065	0.072	0.073	0.07	0.067	0.5	0.065	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.045	0.06	0.067	0.061	0.066	0.071	0.078	0.081	0.08	0.078	0.5	0.070	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.016	0.037	0.05	0.055	0.053	0.05	0.05	0.04	0.043	0.036	0.5	0.044	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.02	0.034	0.037	0.047	0.048	0.048	0.043	0.042	0.043	0.04	0.5	0.041	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.016	0.026	0.032	0.03	0.032	0.031	0.032	0.034	0.038	0.038	0.5	0.032	0.016	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.026	0.044	0.055	0.06	0.06	0.062	0.064	0.068	0.07	0.066	0.5	0.059	0.029	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.025	0.041	0.047	0.048	0.05	0.055	0.06	0.063	0.067	0.066	0.5	0.053	0.027	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.027	0.038	0.042	0.044	0.049	0.055	0.058	0.06	0.061	0.057	0.5	0.050	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.02	0.022	0.042	0.046	0.044	0.046	0.047	0.048	0.046	0.042	0.5	0.041	0.021	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.022	0.022	0.037	0.049	0.055	0.059	0.062	0.062	0.059	0.06	0.5	0.050	0.025	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.02	0.031	0.039	0.043	0.046	0.044	0.05	0.05	0.046	0.047	0.5	0.042	0.021	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.008	0.012	0.017	0.018	0.018	0.02	0.02	0.021	0.021	0.023	0.5	0.018	0.009	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.026	0.041	0.052	0.057	0.055	0.045	0.051	0.043	0.045	0.043	0.5	0.047	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.023	0.036	0.043	0.050	0.047	0.044	0.044	0.041	0.042	0.036	0.5	0.041	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.028	0.043	0.055	0.044	0.065	0.060	0.058	0.053	0.048	0.04	0.5	0.050	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.023	0.035	0.043	0.04	0.037	0.034	0.029	0.029	0.022	0.02	0.5	0.032	0.016	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.02	0.033	0.037	0.035	0.027	0.02	0.02	0.021	0.025	0.027	0.5	0.027	0.014	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.016	0.026	0.03	0.028	0.022	0.020	0.019	0.021	0.025	0.027	0.5	0.024	0.01	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.009	0.015	0.019	0.019	0.017	0.019	0.02	0.023	0.025	0.025	0.5	0.019	0.010	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.026	0.045	0.051	0.05	0.051	0.051	0.056	0.057	0.056	0.053	0.5	0.051	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.022	0.031	0.032	0.029	0.026	0.028	0.03	0.03	0.027	0.024	0.5	0.028	0.01	0.01
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.035	0.051	0.051	0.041	0.038	0.03	0.031	0.035	0.035	0.034	0.5	0.039	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.036	0.035	0.027	0.024	0.023	0.023	0.025	0.021	0.015	0.5	0.026	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.015	0.03	0.036	0.032	0.03	0.028	0.037	0.055	0.074	0.088	0.5	0.044	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.022	0.035	0.04	0.032	0.023	0.021	0.031	0.045	0.065	0.076	0.5	0.040	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.016	0.028	0.03	0.025	0.02	0.024	0.042	0.063	0.087	0.097	0.5	0.044	0.022	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.024	0.035	0.036	0.027	0.025	0.022	0.03	0.045	0.061	0.076	0.5	0.039	0.019	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.026	0.035	0.038	0.03	0.028	0.025	0.036	0.05	0.061	0.072	0.5	0.041	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.026	0.034	0.03	0.028	0.026	0.032	0.05	0.067	0.092	0.114	0.5	0.051	0.025	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.042	0.05	0.041	0.03	0.03	0.044	0.07	0.099	0.122	0.144	0.5	0.069	0.034	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.014	0.025	0.031	0.03	0.025	0.028	0.041	0.04	0.052	0.061	0.5	0.036	0.018	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.01	0.021	0.026	0.024	0.019	0.021	0.032	0.045	0.058	0.068	0.5	0.033	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.008	0.022	0.031	0.031	0.033	0.038	0.048	0.06	0.072	0.079	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.02	0.03	0.037	0.031	0.028	0.032	0.037	0.044	0.048	0.048	0.5	0.036	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.034	0.054	0.061	0.054	0.05	0.054	0.065	0.084	0.088	0.106	0.5	0.066	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.029	0.042	0.042	0.036	0.031	0.038	0.048	0.062	0.071	0.082	0.5	0.049	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.036	0.053	0.056	0.057	0.061	0.073	0.089	0.106	0.112	0.121	0.5	0.078	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.01	0.017	0.021	0.019	0.016	0.012	0.014	0.016	0.022	0.025	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.008	0.011	0.015	0.017	0.016	0.018	0.022	0.028	0.033	0.036	0.5	0.021	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.009	0.015	0.019	0.022	0.02	0.022	0.024	0.028	0.031	0.033	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.011	0.018	0.02	0.022	0.02	0.021	0.022	0.029	0.032	0.035	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.024	0.032	0.038	0.04	0.045	0.047	0.06	0.068	0.072	0.073	0.5	0.051	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.017	0.023	0.025	0.027	0.028	0.031	0.037	0.041	0.047	0.046	0.5	0.033	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.008	0.014	0.019	0.019	0.019	0.023	0.024	0.025	0.028	0.031	0.5	0.022	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.007	0.013	0.019	0.02	0.019	0.019	0.017	0.02	0.021	0.02	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.009	0.013	0.019	0.017	0.018	0.019	0.021	0.021	0.02	0.022	0.5	0.018	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.010	0.02	0.022	0.023	0.021	0.023	0.022	0.023	0.023	0.02	0.5	0.021	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.021	0.033	0.039	0.042	0.04	0.038	0.038	0.038	0.036	0.036	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.02	0.027	0.033	0.033	0.035	0.031	0.029	0.028	0.029	0.026	0.5	0.030	0.015	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.03	0.04	0.046	0.045	0.048	0.042	0.032	0.028	0.025	0.027	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.007	0.009	0.009	0.008	0.007	0.008	0.011	0.018	0.023	0.025	0.5	0.013	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.008	0.015	0.016	0.015	0.011	0.012	0.013	0.017	0.018	0.023	0.5	0.015	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.01	0.016	0.017	0.013	0.011	0.01	0.011	0.01	0.014	0.019	0.5	0.013	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.007	0.015	0.012	0.012	0.015	0.017	0.021	0.024	0.026	0.025	0.5	0.018	0.009	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.011	0.014	0.01	0.014	0.014	0.014	0.014	0.016	0.018	0.016	0.5	0.014	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.022	0.025	0.024	0.022	0.019	0.02	0.024	0.025	0.025	0.024	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.029	0.025	0.019	0.017	0.018	0.024	0.024	0.023	0.022	0.5	0.023	0.01	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.032	0.041	0.052	0.06	0.056	0.046	0.055	0.073	0.096	0.1	0.5	0.063	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.025	0.038	0.042	0.036	0.03	0.03	0.036	0.051	0.065	0.075	0.5	0.044	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.024	0.04	0.046	0.044	0.04	0.04	0.054	0.067	0.082	0.097	0.5	0.054	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.023	0.036	0.041	0.034	0.03	0.034	0.046	0.054	0.071	0.080	0.5	0.046	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.045	0.06	0.056	0.042	0.034	0.04	0.054	0.065	0.074	0.086	0.5	0.057	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.052	0.064	0.057	0.04	0.033	0.038	0.054	0.080	0.101	0.123	0.5	0.065	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.041	0.048	0.041	0.03	0.03	0.041	0.058	0.081	0.101	0.117	0.5	0.060	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.015	0.025	0.032	0.027	0.036	0.039	0.044	0.055	0.069	0.077	0.5	0.043	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.009	0.023	0.031	0.031	0.033	0.038	0.047	0.062	0.072	0.084	0.5	0.044	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.024	0.039	0.05	0.058	0.062	0.067	0.077	0.087	0.095	0.105	0.5	0.068	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.015	0.028	0.036	0.033	0.032	0.034	0.04	0.043	0.049	0.05	0.5	0.037	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.042	0.063	0.074	0.073	0.075	0.078	0.088	0.097	0.101	0.109	0.5	0.082	0.041	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.043	0.064	0.068	0.062	0.063	0.07	0.08	0.087	0.084	0.093	0.5	0.073	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.04	0.058	0.063	0.068	0.067	0.072	0.085	0.093	0.106	0.106	0.5	0.077	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.01	0.015	0.019	0.022	0.022	0.024	0.026	0.029	0.037	0.043	0.5	0.025	0.013	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.01	0.018	0.027	0.031	0.033	0.035	0.04	0.046	0.053	0.056	0.5	0.036	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.016	0.025	0.028	0.032	0.033	0.035	0.037	0.043	0.046	0.05	0.5	0.035	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.016	0.026	0.03	0.035	0.037	0.041	0.043	0.048	0.052	0.054	0.5	0.039	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.029	0.04	0.048	0.05	0.052	0.061	0.074	0.082	0.087	0.078	0.5	0.061	0.031	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.027	0.035	0.042	0.045	0.058	0.069	0.071	0.08	0.083	0.078	0.5	0.060	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.032	0.042	0.045	0.049	0.053	0.057	0.061	0.06	0.062	0.059	0.5	0.053	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.016	0.022	0.029	0.032	0.038	0.039	0.042	0.046	0.049	0.053	0.5	0.038	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.013	0.021	0.025	0.027	0.03	0.032	0.027	0.03	0.033	0.034	0.5	0.028	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.009	0.024	0.021	0.023	0.026	0.025	0.031	0.032	0.033	0.034	0.5	0.026	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.02	0.029	0.037	0.039	0.04	0.041	0.042	0.041	0.04	0.039	0.5	0.038	0.019	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.026	0.035	0.044	0.046	0.049	0.049	0.04	0.047	0.04	0.043	0.5	0.043	0.021	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.033	0.05	0.063	0.065	0.064	0.068	0.057	0.059	0.055	0.046	0.5	0.057	0.029	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.027	0.04	0.05	0.041	0.047	0.042	0.033	0.034	0.032	0.028	0.5	0.038	0.019	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.014	0.02	0.024	0.021	0.019	0.017	0.021	0.024	0.03	0.034	0.5	0.023	0.012	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.013	0.023	0.028	0.026	0.021	0.019	0.02	0.022	0.027	0.031	0.5	0.023	0.012	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.015	0.018	0.022	0.018	0.014	0.013	0.015	0.019	0.021	0.022	0.5	0.018	0.009	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.021	0.027	0.033	0.037	0.037	0.044	0.05	0.051	0.048	0.048	0.5	0.040	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.017	0.022	0.022	0.022	0.022	0.024	0.025	0.025	0.022	0.02	0.5	0.023	0.01	0.01
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.037	0.049	0.049	0.04	0.035	0.034	0.038	0.038	0.041	0.037	0.5	0.041	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.027	0.034	0.032	0.023	0.022	0.021	0.023	0.026	0.024	0.018	0.5	0.026	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.045	0.065	0.078	0.081	0.075	0.072	0.077	0.082	0.086	0.082	0.5	0.077	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.058	0.089	0.106	0.104	0.085	0.076	0.083	0.088	0.086	0.082	0.5	0.087	0.044	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.06	0.052	0.042	0.042	0.045	0.05	0.05	0.047	0.5	0.049	0.02	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS1	0.049	0.07	0.074	0.06	0.048	0.048	0.049	0.049	0.05	0.048	0.5	0.056	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.036	0.051	0.053	0.041	0.035	0.033	0.03	0.033	0.032	0.034	0.5	0.039	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.028	0.054	0.074	0.08	0.08	0.072	0.072	0.076	0.076	0.07	0.5	0.070	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.045	0.075	0.091	0.101	0.1	0.103	0.11	0.106	0.107	0.113	0.5	0.097	0.049	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.022	0.036	0.044	0.046	0.044	0.042	0.044	0.045	0.043	0.039	0.5	0.041	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS2	0.051	0.074	0.085	0.086	0.084	0.087	0.092	0.087	0.089	0.08	0.5	0.083	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.049	0.068	0.071	0.065	0.06	0.063	0.065	0.067	0.06	0.06	0.5	0.064	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.018	0.033	0.048	0.054	0.056	0.055	0.056	0.045	0.043	0.046	0.5	0.047	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.022	0.033	0.037	0.042	0.038	0.039	0.04	0.041	0.043	0.043	0.5	0.039	0.019	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.03	0.049	0.064	0.07	0.074	0.077	0.079	0.08	0.079	0.072	0.5	0.069	0.03	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS3	0.03	0.048	0.06	0.058	0.061	0.067	0.077	0.082	0.086	0.086	0.5	0.067	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.022	0.032	0.036	0.038	0.035	0.038	0.042	0.039	0.04	0.042	0.5	0.037	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.021	0.038	0.046	0.054	0.057	0.055	0.053	0.057	0.054	0.053	0.5	0.050	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.011	0.016	0.018	0.022	0.022	0.022	0.021	0.024	0.03	0.03	0.5	0.022	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.06	0.054	0.054	0.062	0.051	0.051	0.049	0.054	0.5	0.052	0.026	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.058	0.062	0.058	0.05	0.053	0.05	0.06	0.059	0.5	0.054	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.025	0.038	0.044	0.05	0.049	0.044	0.045	0.041	0.036	0.029	0.5	0.041	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.022	0.035	0.043	0.041	0.033	0.028	0.025	0.028	0.03	0.031	0.5	0.033	0.016	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.006	0.015	0.018	0.018	0.018	0.018	0.02	0.023	0.023	0.025	0.5	0.019	0.01	0.01
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.025	0.041	0.051	0.055	0.056	0.056	0.059	0.063	0.058	0.055	0.5	0.053	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS5	0.02	0.029	0.033	0.031	0.031	0.036	0.034	0.032	0.031	0.028	0.5	0.031	0.016	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.026	0.033	0.035	0.033	0.032	0.036	0.041	0.042	0.042	0.038	0.5	0.037	0.018	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS1	0.048	0.079	0.086	0.08	0.074	0.07	0.067	0.072	0.07	0.065	0.5	0.073	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.03	0.055	0.055	0.054	0.037	0.041	0.04	0.044	0.049	0.048	0.5	0.046	0.023	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS1	0.052	0.064	0.064	0.054	0.046	0.046	0.05	0.05	0.047	0.044	0.5	0.053	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS1	0.056	0.062	0.054	0.04	0.033	0.036	0.04	0.041	0.046	0.052	0.5	0.047	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.05	0.06	0.054	0.04	0.032	0.033	0.044	0.052	0.06	0.072	0.5	0.051	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS2	0.035	0.054	0.062	0.065	0.065	0.066	0.07	0.074	0.078	0.076	0.5	0.066	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.024	0.04	0.045	0.05	0.046	0.044	0.041	0.041	0.04	0.036	0.5	0.042	0.021	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS2	0.048	0.07	0.081	0.076	0.073	0.072	0.076	0.075	0.074	0.074	0.5	0.073	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS2	0.055	0.075	0.087	0.07	0.071	0.072	0.08	0.084	0.08	0.077	0.5	0.077	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.051	0.072	0.075	0.076	0.075	0.083	0.09	0.09	0.092	0.09	0.5	0.081	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS3	0.006	0.021	0.026	0.026	0.024	0.023	0.023	0.024	0.026	0.026	0.5	0.023	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS3	0.012	0.02	0.025	0.026	0.023	0.025	0.027	0.027	0.03	0.028	0.5	0.025	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.024	0.037	0.048	0.054	0.056	0.055	0.06	0.061	0.059	0.055	0.5	0.052	0.026	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS3	0.031	0.04	0.049	0.051	0.051	0.057	0.062	0.068	0.064	0.064	0.5	0.055	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS3	0.032	0.042	0.049	0.054	0.057	0.063	0.068	0.07	0.065	0.06	0.5	0.057	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.031	0.041	0.052	0.051	0.057	0.055	0.056	0.06	0.05	0.046	0.5	0.051	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS4	0.008	0.014	0.016	0.018	0.016	0.014	0.015	0.014	0.016	0.014	0.5	0.015	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.024	0.035	0.042	0.044	0.043	0.047	0.047	0.043	0.035	0.034	0.5	0.040	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS4	0.028	0.037	0.046	0.053	0.048	0.046	0.039	0.043	0.044	0.034	0.5	0.043	0.021	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS4	0.039	0.059	0.071	0.082	0.083	0.068	0.067	0.071	0.062	0.053	0.5	0.067	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.026	0.044	0.049	0.051	0.048	0.041	0.035	0.031	0.028	0.024	0.5	0.038	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	E	1.02	BS5	0.006	0.015	0.016	0.018	0.017	0.018	0.016	0.018	0.017	0.016	0.5	0.016	0.008	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.019	0.032	0.041	0.042	0.043	0.042	0.045	0.044	0.044	0.042	0.5	0.040	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	E	1.02	BS5	0.023	0.029	0.031	0.029	0.029	0.031	0.031	0.031	0.027	0.022	0.5	0.029	0.01	0.01
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	E	1.02	BS5	0.042	0.058	0.06	0.052	0.046	0.039	0.041	0.044	0.041	0.042	0.5	0.047	0.024	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.029	0.04	0.039	0.033	0.027	0.025	0.024	0.023	0.022	0.018	0.5	0.029	0.014	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS1	0.053	0.073	0.087	0.087	0.077	0.071	0.08	0.09	0.094	0.09	0.5	0.083	0.04	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS1	0.042	0.071	0.087	0.071	0.056	0.051	0.053	0.06	0.064	0.062	0.5	0.063	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.06	0.086	0.097	0.102	0.084	0.076	0.082	0.087	0.088	0.084	0.5	0.086	0.043	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS2	0.034	0.063	0.083	0.088	0.088	0.082	0.085	0.086	0.085	0.08	0.5	0.080	0.040	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS2	0.042	0.052	0.092	0.1	0.097	0.096	0.098	0.096	0.096	0.091	0.5	0.088	0.044	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.052	0.08	0.101	0.105	0.105	0.106	0.115	0.12	0.12	0.115	0.5	0.104	0.052	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS3	0.019	0.037	0.056	0.057	0.066	0.061	0.05	0.052	0.054	0.05	0.5	0.052	0.026	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS3	0.026	0.04	0.055	0.058	0.06	0.06	0.056	0.056	0.056	0.055	0.5	0.053	0.027	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.021	0.037	0.042	0.041	0.037	0.043	0.047	0.051	0.056	0.056	0.5	0.044	0.022	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS4	0.022	0.036	0.053	0.061	0.064	0.059	0.059	0.059	0.059	0.057	0.5	0.054	0.027	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS4	0.015	0.026	0.036	0.036	0.04	0.037	0.043	0.04	0.035	0.035	0.5	0.035	0.017	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.013	0.019	0.023	0.024	0.025	0.025	0.025	0.03	0.034	0.037	0.5	0.026	0.013	0.01

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	E	1.03	BS5	0.023	0.04	0.046	0.045	0.035	0.029	0.027	0.03	0.034	0.036	0.5	0.036	0.018	0.02
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	E	1.02	BS5	0.019	0.025	0.028	0.025	0.019	0.016	0.017	0.019	0.023	0.026	0.5	0.022	0.011	0.01
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.006	0.017	0.021	0.021	0.02	0.022	0.023	0.025	0.028	0.029	0.5	0.022	0.011	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS1	0.061	0.087	0.1	0.097	0.077	0.075	0.084	0.09	0.092	0.084	0.5	0.086	0.043	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS1	0.058	0.083	0.092	0.08	0.065	0.06	0.076	0.081	0.083	0.088	0.5	0.078	0.039	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.04	0.055	0.055	0.047	0.038	0.044	0.05	0.052	0.053	0.051	0.5	0.049	0.025	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS2	0.05	0.08	0.1	0.102	0.102	0.103	0.109	0.116	0.115	0.111	0.5	0.101	0.050	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS2	0.031	0.052	0.064	0.064	0.06	0.06	0.061	0.067	0.067	0.07	0.5	0.061	0.030	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.023	0.041	0.052	0.05	0.048	0.045	0.047	0.046	0.042	0.04	0.5	0.044	0.022	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS3	0.022	0.034	0.041	0.042	0.04	0.04	0.041	0.041	0.046	0.047	0.5	0.040	0.020	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS3	0.028	0.049	0.06	0.062	0.064	0.057	0.062	0.063	0.062	0.059	0.5	0.058	0.029	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.037	0.057	0.07	0.073	0.078	0.08	0.078	0.087	0.08	0.076	0.5	0.073	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS4	0.011	0.018	0.023	0.025	0.02	0.022	0.022	0.025	0.026	0.031	0.5	0.023	0.01	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS4	0.029	0.032	0.055	0.056	0.057	0.052	0.052	0.045	0.043	0.048	0.5	0.048	0.02	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.031	0.046	0.057	0.063	0.059	0.052	0.065	0.056	0.05	0.054	0.5	0.054	0.03	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	E	1.02	BS5	0.008	0.015	0.016	0.02	0.017	0.019	0.021	0.024	0.026	0.028	0.5	0.020	0.010	0.01
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	E	1.02	BS5	0.021	0.037	0.045	0.047	0.044	0.041	0.039	0.035	0.031	0.027	0.5	0.037	0.019	0.02
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.026	0.043	0.054	0.055	0.057	0.06	0.062	0.061	0.061	0.055	0.5	0.054	0.027	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS1	0.044	0.062	0.062	0.053	0.043	0.047	0.044	0.054	0.055	0.051	0.5	0.053	0.026	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS1	0.068	0.088	0.09	0.069	0.061	0.061	0.066	0.064	0.062	0.056	0.5	0.070	0.035	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.048	0.063	0.061	0.052	0.043	0.04	0.04	0.04	0.04	0.04	0.5	0.048	0.024	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS2	0.020	0.034	0.046	0.041	0.043	0.041	0.040	0.04	0.036	0.035	0.5	0.038	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS2	0.054	0.081	0.092	0.092	0.095	0.092	0.092	0.097	0.09	0.085	0.5	0.089	0.04	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.061	0.09	0.097	0.083	0.077	0.078	0.087	0.085	0.08	0.08	0.5	0.083	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS3	0.028	0.045	0.054	0.061	0.061	0.063	0.067	0.068	0.066	0.063	0.5	0.059	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS3	0.035	0.05	0.063	0.063	0.061	0.074	0.074	0.085	0.087	0.085	0.5	0.069	0.035	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.037	0.041	0.041	0.048	0.049	0.053	0.051	0.06	0.057	0.052	0.5	0.050	0.02	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS4	0.025	0.041	0.048	0.05	0.05	0.05	0.045	0.044	0.049	0.044	0.5	0.045	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS4	0.033	0.042	0.053	0.059	0.06	0.061	0.053	0.053	0.053	0.049	0.5	0.053	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.035	0.05	0.061	0.066	0.061	0.061	0.056	0.048	0.045	0.044	0.5	0.054	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	E	1.02	BS5	0.022	0.034	0.041	0.048	0.048	0.047	0.048	0.047	0.046	0.042	0.5	0.043	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	E	1.02	BS5	0.023	0.033	0.038	0.038	0.035	0.036	0.034	0.034	0.031	0.03	0.5	0.034	0.02	0.02
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.038	0.051	0.054	0.056	0.056	0.057	0.061	0.062	0.064	0.06	0.5	0.057	0.029	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS1	0.041	0.051	0.052	0.043	0.034	0.038	0.038	0.037	0.035	0.034	0.5	0.041	0.021	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS1	0.044	0.045	0.04	0.03	0.025	0.033	0.036	0.042	0.046	0.056	0.5	0.040	0.020	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS1	0.054	0.062	0.051	0.04	0.034	0.04	0.048	0.057	0.065	0.076	0.5	0.054	0.027	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS2	0.054	0.078	0.084	0.077	0.07	0.072	0.072	0.072	0.073	0.066	0.5	0.073	0.037	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS2	0.051	0.067	0.072	0.063	0.069	0.07	0.077	0.08	0.077	0.075	0.5	0.072	0.036	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS2	0.056	0.074	0.061	0.081	0.076	0.085	0.091	0.096	0.094	0.094	0.5	0.082	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS3	0.029	0.037	0.045	0.043	0.045	0.047	0.051	0.054	0.051	0.048	0.5	0.046	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS3	0.032	0.043	0.052	0.056	0.059	0.063	0.066	0.069	0.069	0.063	0.5	0.058	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS3	0.038	0.049	0.051	0.054	0.061	0.061	0.062	0.068	0.055	0.052	0.5	0.056	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS4	0.031	0.05	0.057	0.059	0.066	0.058	0.05	0.044	0.039	0.037	0.5	0.050	0.025	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS4	0.034	0.056	0.066	0.069	0.067	0.061	0.069	0.055	0.059	0.051	0.5	0.060	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS4	0.028	0.047	0.05	0.054	0.047	0.044	0.035	0.034	0.03	0.028	0.5	0.040	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	E	1.02	BS5	0.034	0.044	0.052	0.047	0.047	0.048	0.055	0.056	0.055	0.052	0.5	0.050	0.02	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	E	1.02	BS5	0.028	0.041	0.044	0.039	0.031	0.031	0.032	0.033	0.03	0.031	0.5	0.035	0.02	0.02
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	E	1.02	BS5	0.033	0.042	0.04	0.032	0.029	0.027	0.028	0.027	0.024	0.017	0.5	0.030	0.02	0.02

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.035	0.037	0.042	0.04	0.051	0.058	0.055	0.059	0.058	0.04	0.5	0.065	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.032	0.037	0.043	0.047	0.057	0.05	0.056	0.057	0.044	0.048	0.5	0.062	0.031	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.037	0.03	0.036	0.044	0.048	0.045	0.041	0.051	0.059	0.056	0.5	0.056	0.028	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.04	0.04	0.042	0.05	0.055	0.052	0.06	0.055	0.044	0.046	0.5	0.063	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.035	0.037	0.047	0.047	0.059	0.055	0.064	0.055	0.054	0.057	0.5	0.070	0.035	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.032	0.039	0.042	0.047	0.05	0.04	0.045	0.049	0.051	0.056	0.5	0.051	0.026	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.039	0.041	0.045	0.046	0.047	0.042	0.047	0.053	0.06	0.067	0.5	0.059	0.029	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.04	0.042	0.045	0.051	0.057	0.067	0.068	0.07	0.067	0.066	0.5	0.095	0.048	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.04	0.04	0.041	0.041	0.05	0.065	0.065	0.065	0.067	0.064	0.5	0.083	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.04	0.04	0.046	0.043	0.051	0.056	0.055	0.057	0.06	0.058	0.5	0.071	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.04	0.04	0.044	0.045	0.053	0.061	0.058	0.05	0.062	0.062	0.5	0.072	0.036	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.04	0.046	0.046	0.05	0.058	0.053	0.063	0.065	0.067	0.065	0.5	0.082	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.04	0.04	0.045	0.05	0.057	0.063	0.065	0.06	0.065	0.061	0.5	0.076	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.044	0.047	0.047	0.052	0.058	0.067	0.066	0.066	0.064	0.064	0.5	0.082	0.04	0.04

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.034	0.035	0.034	0.041	0.047	0.041	0.043	0.052	0.056	0.056	0.5	0.056	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.037	0.032	0.035	0.04	0.047	0.041	0.04	0.052	0.043	0.04	0.5	0.046	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.036	0.038	0.038	0.04	0.043	0.05	0.047	0.045	0.048	0.031	0.5	0.048	0.024	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.034	0.039	0.047	0.048	0.058	0.063	0.063	0.058	0.062	0.058	0.5	0.077	0.039	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.043	0.044	0.04	0.05	0.06	0.064	0.063	0.06	0.06	0.061	0.5	0.079	0.040	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.045	0.047	0.057	0.056	0.063	0.061	0.061	0.06	0.058	0.056	0.5	0.079	0.040	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.032	0.044	0.05	0.051	0.057	0.064	0.06	0.056	0.047	0.055	0.5	0.066	0.033	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.052	0.048	0.051	0.054	0.059	0.058	0.059	0.06	0.057	0.059	0.5	0.087	0.043	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.052	0.047	0.05	0.054	0.056	0.06	0.058	0.061	0.052	0.059	0.5	0.083	0.041	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.051	0.04	0.041	0.042	0.047	0.059	0.05	0.048	0.048	0.044	0.5	0.061	0.030	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.047	0.046	0.047	0.042	0.046	0.054	0.048	0.044	0.049	0.051	0.5	0.060	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.049	0.046	0.055	0.050	0.062	0.058	0.051	0.056	0.059	0.055	0.5	0.077	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.049	0.055	0.057	0.066	0.07	0.071	0.066	0.065	0.06	0.056	0.5	0.095	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.052	0.045	0.059	0.057	0.056	0.059	0.051	0.046	0.049	0.042	0.5	0.065	0.033	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.033	0.032	0.032	0.035	0.037	0.037	0.038	0.031	0.041	0.038	0.5	0.035	0.018	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.036	0.034	0.035	0.041	0.04	0.046	0.047	0.041	0.046	0.043	0.5	0.046	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.033	0.034	0.039	0.036	0.039	0.043	0.044	0.044	0.047	0.044	0.5	0.045	0.022	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.036	0.039	0.04	0.047	0.047	0.057	0.059	0.057	0.047	0.045	0.5	0.061	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.035	0.039	0.039	0.047	0.044	0.051	0.054	0.048	0.043	0.043	0.5	0.052	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.038	0.044	0.044	0.049	0.049	0.055	0.052	0.052	0.051	0.045	0.5	0.057	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.035	0.037	0.037	0.05	0.051	0.049	0.048	0.04	0.042	0.039	0.5	0.045	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.038	0.03	0.031	0.03	0.035	0.036	0.039	0.047	0.05	0.045	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.031	0.03	0.031	0.031	0.031	0.036	0.042	0.042	0.049	0.057	0.5	0.041	0.021	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.023	0.028	0.028	0.036	0.039	0.046	0.055	0.053	0.055	0.066	0.5	0.055	0.028	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.028	0.03	0.034	0.033	0.035	0.04	0.042	0.04	0.047	0.05	0.5	0.039	0.020	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.032	0.033	0.04	0.045	0.04	0.043	0.051	0.05	0.057	0.069	0.5	0.058	0.029	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.03	0.034	0.039	0.043	0.044	0.05	0.054	0.059	0.07	0.076	0.5	0.067	0.033	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.039	0.041	0.041	0.043	0.051	0.054	0.059	0.069	0.083	0.092	0.5	0.086	0.043	0.04

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.031	0.032	0.034	0.036	0.038	0.038	0.042	0.043	0.051	0.048	0.5	0.044	0.022	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.033	0.03	0.03	0.034	0.04	0.04	0.041	0.04	0.047	0.053	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.03	0.03	0.034	0.032	0.034	0.038	0.042	0.045	0.05	0.054	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.034	0.035	0.038	0.04	0.042	0.043	0.042	0.047	0.05	0.056	0.5	0.050	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.037	0.04	0.043	0.046	0.048	0.055	0.053	0.056	0.058	0.062	0.5	0.066	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.034	0.04	0.044	0.045	0.047	0.045	0.044	0.046	0.054	0.066	0.5	0.055	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.04	0.042	0.047	0.051	0.053	0.064	0.066	0.067	0.072	0.068	0.5	0.081	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.034	0.04	0.036	0.034	0.038	0.038	0.038	0.030	0.033	0.042	0.5	0.037	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.034	0.037	0.035	0.03	0.033	0.04	0.04	0.040	0.05	0.042	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.035	0.036	0.04	0.033	0.038	0.046	0.041	0.036	0.040	0.037	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.036	0.033	0.04	0.036	0.036	0.038	0.041	0.035	0.04	0.041	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.038	0.033	0.05	0.05	0.05	0.06	0.055	0.048	0.05	0.052	0.5	0.063	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.035	0.039	0.037	0.043	0.052	0.05	0.046	0.046	0.043	0.051	0.5	0.049	0.02	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.042	0.048	0.048	0.048	0.057	0.061	0.061	0.044	0.062	0.061	0.5	0.070	0.035	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.048	0.043	0.046	0.046	0.051	0.054	0.047	0.05	0.047	0.043	0.5	0.063	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.048	0.043	0.049	0.046	0.057	0.056	0.051	0.044	0.049	0.042	0.5	0.065	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.046	0.048	0.057	0.057	0.053	0.06	0.054	0.046	0.044	0.043	0.5	0.071	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.053	0.044	0.052	0.044	0.057	0.061	0.05	0.046	0.043	0.042	0.5	0.065	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.047	0.045	0.053	0.05	0.058	0.06	0.058	0.05	0.05	0.052	0.5	0.072	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.045	0.041	0.05	0.047	0.063	0.058	0.053	0.042	0.049	0.045	0.5	0.061	0.031	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.056	0.059	0.054	0.057	0.061	0.06	0.054	0.05	0.046	0.048	0.5	0.072	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.036	0.034	0.035	0.037	0.037	0.038	0.038	0.04	0.038	0.034	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.036	0.035	0.036	0.039	0.04	0.04	0.041	0.039	0.041	0.039	0.5	0.041	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.038	0.034	0.034	0.037	0.038	0.041	0.041	0.041	0.043	0.037	0.5	0.040	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.039	0.038	0.038	0.042	0.043	0.043	0.046	0.047	0.044	0.042	0.5	0.048	0.024	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.035	0.041	0.037	0.042	0.046	0.042	0.041	0.041	0.043	0.037	0.5	0.043	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.037	0.039	0.042	0.042	0.043	0.042	0.042	0.042	0.044	0.038	0.5	0.042	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.038	0.037	0.043	0.047	0.041	0.044	0.044	0.042	0.044	0.035	0.5	0.042	0.02	0.02

Notes:

MPE calculations are defined in section 15.0

Blue fonts: Frequencies not regulated by FCC.

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.032	0.033	0.032	0.036	0.048	0.047	0.046	0.054	0.065	0.077	0.5	0.067	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.036	0.033	0.04	0.043	0.043	0.058	0.057	0.057	0.062	0.067	0.5	0.070	0.035	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.034	0.03	0.031	0.033	0.032	0.048	0.07	0.061	0.07	0.070	0.5	0.070	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.03	0.033	0.038	0.042	0.04	0.042	0.051	0.053	0.053	0.064	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.035	0.034	0.037	0.048	0.054	0.052	0.06	0.057	0.062	0.070	0.5	0.071	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.031	0.036	0.038	0.045	0.046	0.048	0.046	0.062	0.072	0.078	0.5	0.068	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.04	0.04	0.041	0.052	0.042	0.055	0.054	0.068	0.076	0.082	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.03	0.031	0.034	0.038	0.042	0.043	0.05	0.05	0.052	0.054	0.5	0.052	0.026	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.031	0.033	0.032	0.04	0.048	0.053	0.051	0.05	0.041	0.048	0.5	0.051	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.036	0.04	0.04	0.05	0.056	0.062	0.05	0.06	0.066	0.066	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.035	0.038	0.042	0.047	0.048	0.054	0.057	0.056	0.056	0.058	0.5	0.066	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.04	0.045	0.043	0.055	0.056	0.068	0.066	0.069	0.068	0.074	0.5	0.092	0.046	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.044	0.048	0.05	0.052	0.058	0.062	0.063	0.065	0.068	0.07	0.5	0.085	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.04	0.042	0.05	0.051	0.063	0.07	0.07	0.072	0.075	0.076	0.5	0.094	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.031	0.036	0.034	0.034	0.039	0.044	0.046	0.045	0.049	0.048	0.5	0.047	0.024	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.038	0.037	0.038	0.038	0.046	0.051	0.052	0.049	0.05	0.051	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.034	0.036	0.043	0.037	0.043	0.044	0.039	0.048	0.045	0.05	0.5	0.048	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.04	0.045	0.04	0.036	0.044	0.049	0.053	0.048	0.049	0.051	0.5	0.056	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.04	0.044	0.051	0.051	0.059	0.066	0.066	0.064	0.061	0.061	0.5	0.084	0.042	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.04	0.045	0.054	0.055	0.06	0.064	0.063	0.061	0.062	0.053	0.5	0.078	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.04	0.047	0.05	0.056	0.062	0.06	0.059	0.06	0.058	0.058	0.5	0.074	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.056	0.048	0.05	0.054	0.057	0.064	0.058	0.058	0.05	0.049	0.5	0.083	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.048	0.042	0.046	0.048	0.054	0.06	0.052	0.044	0.049	0.047	0.5	0.066	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.04	0.046	0.045	0.049	0.057	0.046	0.049	0.048	0.047	0.5	0.061	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.045	0.042	0.046	0.052	0.053	0.062	0.06	0.06	0.055	0.042	0.5	0.072	0.036	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.042	0.042	0.046	0.053	0.059	0.071	0.06	0.055	0.057	0.052	0.5	0.077	0.038	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.052	0.057	0.069	0.064	0.072	0.079	0.069	0.063	0.05	0.056	0.5	0.100	0.050	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.047	0.049	0.051	0.056	0.064	0.054	0.057	0.051	0.049	0.051	0.5	0.068	0.034	0.03

Notes:

MPE calculations are defined in section 15.0

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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.033	0.04	0.04	0.042	0.043	0.044	0.046	0.045	0.048	0.04	0.5	0.050	0.025	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.04	0.041	0.04	0.04	0.042	0.037	0.038	0.041	0.041	0.044	0.5	0.045	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.036	0.035	0.036	0.039	0.04	0.042	0.048	0.046	0.044	0.043	0.5	0.046	0.023	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.04	0.036	0.042	0.048	0.053	0.05	0.052	0.053	0.048	0.041	0.5	0.058	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.039	0.039	0.04	0.044	0.048	0.049	0.044	0.045	0.046	0.044	0.5	0.050	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.048	0.044	0.052	0.053	0.055	0.068	0.054	0.051	0.041	0.035	0.5	0.064	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.035	0.042	0.044	0.046	0.049	0.048	0.046	0.042	0.041	0.038	0.5	0.045	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.04	0.04	0.04	0.044	0.05	0.057	0.057	0.05	0.048	0.053	0.5	0.065	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.051	0.042	0.043	0.054	0.062	0.07	0.072	0.066	0.067	0.062	0.5	0.097	0.049	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.043	0.04	0.055	0.05	0.062	0.067	0.071	0.061	0.053	0.062	0.5	0.087	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS1	0.04	0.04	0.046	0.053	0.062	0.061	0.068	0.06	0.05	0.057	0.5	0.077	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.041	0.048	0.052	0.06	0.051	0.055	0.064	0.06	0.053	0.05	0.5	0.073	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.03	0.035	0.038	0.042	0.046	0.044	0.04	0.056	0.05	0.056	0.5	0.055	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.034	0.048	0.05	0.06	0.066	0.068	0.07	0.071	0.071	0.072	0.5	0.105	0.053	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.042	0.045	0.047	0.054	0.06	0.064	0.067	0.066	0.064	0.062	0.5	0.089	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS2	0.036	0.047	0.048	0.055	0.065	0.073	0.07	0.071	0.07	0.068	0.5	0.098	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.043	0.045	0.047	0.045	0.058	0.054	0.05	0.06	0.061	0.061	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.04	0.045	0.047	0.047	0.06	0.06	0.059	0.062	0.061	0.059	0.5	0.083	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.037	0.046	0.044	0.045	0.047	0.053	0.053	0.054	0.06	0.058	0.5	0.069	0.034	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.044	0.041	0.053	0.059	0.06	0.065	0.065	0.064	0.063	0.061	0.5	0.090	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS3	0.044	0.052	0.057	0.05	0.062	0.071	0.066	0.065	0.066	0.068	0.5	0.096	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.036	0.041	0.045	0.051	0.055	0.063	0.057	0.056	0.056	0.054	0.5	0.069	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.044	0.045	0.058	0.053	0.069	0.072	0.064	0.061	0.056	0.053	0.5	0.094	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.05	0.054	0.049	0.051	0.048	0.047	0.047	0.044	0.046	0.5	0.063	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.054	0.048	0.052	0.059	0.072	0.07	0.072	0.069	0.067	0.064	0.5	0.106	0.053	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS4	0.052	0.05	0.066	0.061	0.07	0.072	0.066	0.068	0.067	0.062	0.5	0.106	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.049	0.043	0.053	0.05	0.054	0.059	0.063	0.057	0.052	0.048	0.5	0.071	0.04	0.04

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.042	0.037	0.038	0.041	0.049	0.057	0.052	0.056	0.054	0.051	0.5	0.065	0.032	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.043	0.039	0.04	0.042	0.046	0.044	0.043	0.045	0.042	0.041	0.5	0.049	0.02	0.02
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.04	0.038	0.04	0.043	0.046	0.056	0.052	0.05	0.053	0.046	0.5	0.058	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS5	0.038	0.035	0.043	0.047	0.055	0.054	0.056	0.054	0.052	0.044	0.5	0.061	0.030	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.04	0.05	0.052	0.055	0.054	0.064	0.067	0.06	0.055	0.049	0.5	0.077	0.038	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS1	0.04	0.04	0.041	0.043	0.048	0.05	0.05	0.054	0.055	0.06	0.5	0.063	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.04	0.04	0.047	0.05	0.057	0.06	0.07	0.063	0.06	0.055	0.5	0.080	0.040	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS1	0.047	0.046	0.041	0.057	0.068	0.062	0.065	0.055	0.055	0.057	0.5	0.081	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS1	0.043	0.04	0.047	0.056	0.061	0.05	0.06	0.06	0.055	0.061	0.5	0.072	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.042	0.045	0.05	0.052	0.058	0.066	0.065	0.062	0.068	0.07	0.5	0.083	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS2	0.035	0.037	0.043	0.045	0.042	0.053	0.053	0.052	0.054	0.056	0.5	0.060	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.041	0.04	0.046	0.045	0.052	0.051	0.06	0.064	0.061	0.06	0.5	0.074	0.037	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS2	0.036	0.048	0.047	0.057	0.06	0.067	0.067	0.065	0.07	0.068	0.5	0.092	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS2	0.048	0.045	0.044	0.053	0.06	0.065	0.066	0.07	0.068	0.07	0.5	0.088	0.04	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.044	0.047	0.046	0.056	0.062	0.071	0.073	0.074	0.07	0.072	0.5	0.095	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS3	0.036	0.038	0.043	0.041	0.04	0.043	0.041	0.041	0.039	0.041	0.5	0.043	0.02	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.036	0.04	0.046	0.054	0.057	0.06	0.056	0.057	0.052	0.046	0.5	0.069	0.035	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS3	0.032	0.04	0.04	0.056	0.06	0.068	0.061	0.061	0.054	0.06	0.5	0.077	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS3	0.035	0.057	0.059	0.06	0.064	0.065	0.063	0.063	0.06	0.06	0.5	0.087	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.043	0.054	0.055	0.057	0.065	0.066	0.064	0.062	0.061	0.061	0.5	0.084	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS4	0.044	0.046	0.051	0.044	0.046	0.056	0.05	0.044	0.044	0.042	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.05	0.043	0.052	0.055	0.06	0.064	0.064	0.055	0.059	0.062	0.5	0.086	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS4	0.047	0.041	0.05	0.049	0.054	0.07	0.061	0.057	0.055	0.055	0.5	0.077	0.038	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS4	0.05	0.052	0.07	0.064	0.07	0.071	0.069	0.068	0.061	0.06	0.5	0.101	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.047	0.046	0.048	0.061	0.064	0.065	0.052	0.051	0.048	0.044	0.5	0.068	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	146.0000	60.0	59.6	CW	H	0.84	BS5	0.042	0.043	0.04	0.04	0.038	0.037	0.035	0.035	0.036	0.036	0.5	0.039	0.020	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.034	0.042	0.04	0.04	0.051	0.051	0.05	0.05	0.055	0.051	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	158.3000	60.0	59.0	CW	H	0.83	BS5	0.041	0.045	0.044	0.046	0.055	0.052	0.055	0.046	0.039	0.046	0.5	0.058	0.03	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	165.9000	60.0	58.7	CW	H	0.81	BS5	0.047	0.048	0.047	0.057	0.067	0.065	0.065	0.06	0.058	0.051	0.5	0.080	0.040	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.047	0.049	0.045	0.054	0.057	0.05	0.044	0.041	0.043	0.034	0.5	0.053	0.026	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS1	0.041	0.05	0.04	0.044	0.048	0.052	0.05	0.046	0.045	0.04	0.5	0.058	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS1	0.042	0.04	0.04	0.05	0.061	0.063	0.068	0.064	0.06	0.055	0.5	0.083	0.04	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.045	0.043	0.044	0.047	0.068	0.073	0.077	0.073	0.074	0.07	0.5	0.108	0.054	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS2	0.034	0.035	0.04	0.04	0.045	0.061	0.06	0.06	0.064	0.06	0.5	0.073	0.037	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS2	0.048	0.048	0.051	0.055	0.06	0.068	0.072	0.073	0.072	0.07	0.5	0.106	0.053	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.06	0.057	0.06	0.065	0.074	0.082	0.08	0.08	0.082	0.081	0.5	0.144	0.072	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS3	0.036	0.043	0.046	0.04	0.04	0.065	0.064	0.066	0.064	0.065	0.5	0.082	0.041	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS3	0.038	0.04	0.04	0.044	0.053	0.06	0.061	0.061	0.06	0.057	0.5	0.074	0.037	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.034	0.037	0.042	0.04	0.048	0.055	0.058	0.055	0.06	0.058	0.5	0.067	0.033	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS4	0.049	0.044	0.044	0.057	0.059	0.066	0.064	0.063	0.054	0.059	0.5	0.089	0.044	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS4	0.046	0.044	0.048	0.053	0.067	0.059	0.063	0.058	0.05	0.05	0.5	0.080	0.040	0.04
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.042	0.045	0.046	0.052	0.055	0.05	0.05	0.052	0.05	0.5	0.065	0.032	0.03

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	136.0000	60.0	59.0	CW	H	0.86	BS5	0.044	0.042	0.042	0.044	0.047	0.047	0.055	0.05	0.055	0.051	0.5	0.064	0.032	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	140.0000	60.0	59.0	CW	H	0.85	BS5	0.039	0.038	0.041	0.04	0.047	0.048	0.053	0.041	0.049	0.041	0.5	0.053	0.026	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.037	0.041	0.042	0.038	0.044	0.046	0.049	0.043	0.048	0.044	0.5	0.051	0.026	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS1	0.044	0.04	0.048	0.054	0.063	0.071	0.075	0.071	0.068	0.061	0.5	0.100	0.050	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS1	0.05	0.043	0.051	0.064	0.067	0.071	0.072	0.072	0.073	0.071	0.5	0.110	0.055	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.043	0.045	0.047	0.056	0.065	0.068	0.067	0.066	0.065	0.062	0.5	0.093	0.047	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS2	0.048	0.044	0.045	0.051	0.067	0.071	0.072	0.073	0.073	0.072	0.5	0.107	0.054	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS2	0.051	0.05	0.054	0.057	0.066	0.077	0.073	0.078	0.077	0.073	0.5	0.118	0.059	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.047	0.046	0.053	0.066	0.063	0.072	0.074	0.072	0.07	0.07	0.5	0.109	0.055	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS3	0.037	0.038	0.041	0.044	0.05	0.046	0.04	0.046	0.052	0.05	0.5	0.054	0.027	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS3	0.042	0.043	0.046	0.056	0.066	0.072	0.067	0.063	0.062	0.057	0.5	0.090	0.045	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.046	0.048	0.057	0.06	0.068	0.07	0.07	0.07	0.065	0.065	0.5	0.104	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS4	0.045	0.04	0.043	0.044	0.05	0.054	0.049	0.05	0.049	0.05	0.5	0.062	0.03	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS4	0.049	0.048	0.059	0.06	0.062	0.068	0.062	0.062	0.062	0.057	0.5	0.093	0.05	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.053	0.05	0.054	0.061	0.073	0.072	0.073	0.067	0.069	0.066	0.5	0.110	0.06	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	144.0000	60.0	59.3	CW	H	0.85	BS5	0.038	0.04	0.04	0.041	0.043	0.049	0.047	0.046	0.04	0.042	0.5	0.050	0.025	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	148.0000	60.0	59.1	CW	H	0.84	BS5	0.04	0.043	0.045	0.044	0.048	0.044	0.049	0.05	0.05	0.048	0.5	0.057	0.028	0.03
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.037	0.047	0.052	0.05	0.054	0.058	0.063	0.055	0.057	0.045	0.5	0.073	0.036	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS1	0.048	0.043	0.047	0.054	0.063	0.068	0.068	0.061	0.055	0.063	0.5	0.088	0.044	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS1	0.04	0.043	0.047	0.062	0.067	0.068	0.078	0.064	0.061	0.06	0.5	0.094	0.047	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.046	0.05	0.052	0.07	0.074	0.075	0.075	0.065	0.067	0.063	0.5	0.106	0.053	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS2	0.040	0.04	0.048	0.05	0.060	0.07	0.070	0.07	0.065	0.065	0.5	0.092	0.05	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS2	0.054	0.05	0.057	0.060	0.066	0.074	0.073	0.074	0.072	0.072	0.5	0.112	0.06	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.041	0.048	0.056	0.058	0.071	0.075	0.071	0.075	0.07	0.065	0.5	0.104	0.05	0.05

Notes:

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

Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements													
											Bystander (BS) Positions													
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS3	0.042	0.042	0.052	0.056	0.061	0.063	0.065	0.063	0.061	0.058	0.5	0.086	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS3	0.05	0.057	0.057	0.064	0.071	0.07	0.072	0.072	0.073	0.071	0.5	0.114	0.057	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.043	0.053	0.057	0.061	0.065	0.072	0.07	0.065	0.064	0.063	0.5	0.097	0.05	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS4	0.049	0.049	0.05	0.056	0.064	0.065	0.065	0.054	0.058	0.059	0.5	0.087	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS4	0.046	0.042	0.041	0.053	0.057	0.058	0.066	0.05	0.051	0.06	0.5	0.073	0.04	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.048	0.048	0.047	0.06	0.066	0.074	0.07	0.063	0.051	0.057	0.5	0.089	0.04	0.05
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	150.8000	60.0	58.8	CW	H	0.84	BS5	0.042	0.046	0.047	0.046	0.05	0.055	0.056	0.054	0.056	0.053	0.5	0.068	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	156.2000	60.0	58.8	CW	H	0.83	BS5	0.043	0.049	0.043	0.04	0.053	0.05	0.052	0.05	0.056	0.053	0.5	0.063	0.03	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.042	0.051	0.044	0.058	0.066	0.066	0.068	0.059	0.06	0.054	0.5	0.084	0.042	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS1	0.046	0.048	0.053	0.064	0.072	0.072	0.068	0.063	0.063	0.06	0.5	0.096	0.048	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS1	0.044	0.054	0.051	0.054	0.06	0.064	0.064	0.06	0.06	0.061	0.5	0.082	0.041	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS1	0.042	0.047	0.05	0.058	0.06	0.07	0.066	0.067	0.074	0.075	0.5	0.092	0.046	0.05

Notes:

MPE calculations are defined in section 15.0
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Table G.1 (Continued)

APX4500 VHF - MPE measurement data for Bystander

D.U.T. Info.								Probe Info.			MPE Measurements												
											Bystander (BS) Positions												
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	20 cm	40 cm	60 cm	80 cm	100 cm	120 cm	140 cm	160 cm	180 cm	200 cm	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS2	0.056	0.05	0.053	0.068	0.065	0.082	0.07	0.068	0.065	0.063	0.5	0.106	0.053	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS2	0.043	0.048	0.052	0.05	0.06	0.07	0.07	0.072	0.072	0.072	0.5	0.095	0.047	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS2	0.053	0.05	0.051	0.053	0.065	0.077	0.072	0.072	0.076	0.076	0.5	0.103	0.05	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS3	0.043	0.048	0.056	0.058	0.063	0.064	0.064	0.062	0.063	0.06	0.5	0.087	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS3	0.056	0.056	0.058	0.063	0.068	0.063	0.064	0.064	0.062	0.062	0.5	0.094	0.05	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS3	0.044	0.052	0.055	0.058	0.063	0.064	0.064	0.06	0.062	0.06	0.5	0.083	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS4	0.051	0.054	0.056	0.061	0.064	0.067	0.063	0.055	0.056	0.055	0.5	0.086	0.043	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS4	0.045	0.056	0.049	0.05	0.058	0.05	0.068	0.057	0.059	0.059	0.5	0.076	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS4	0.046	0.051	0.04	0.04	0.042	0.052	0.061	0.055	0.053	0.048	0.5	0.058	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	162.0000	60.0	58.8	CW	H	0.82	BS5	0.045	0.052	0.048	0.055	0.067	0.065	0.063	0.057	0.057	0.051	0.5	0.081	0.04	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	167.7000	60.0	58.7	CW	H	0.81	BS5	0.043	0.043	0.046	0.051	0.052	0.045	0.045	0.052	0.051	0.048	0.5	0.056	0.03	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	90	173.4000	60.0	59.0	CW	H	0.80	BS5	0.04	0.051	0.047	0.054	0.06	0.055	0.056	0.046	0.044	0.039	0.5	0.059	0.03	0.03

Notes:

MPE calculations are defined in section 15.0
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Table G.2

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.287	0.175	0.099	0.5	0.193	0.10	0.10
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.42	0.308	0.171	0.5	0.306	0.15	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.388	0.272	0.184	0.5	0.287	0.14	0.15
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.351	0.341	0.236	0.5	0.316	0.16	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.322	0.317	0.266	0.5	0.308	0.154	0.16
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.174	0.268	0.224	0.5	0.226	0.11	0.12
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.071	0.12	0.143	0.5	0.114	0.06	0.06
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.036	0.021	0.017	0.5	0.025	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.059	0.048	0.034	0.5	0.048	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.055	0.056	0.047	0.5	0.054	0.027	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.051	0.03	0.019	0.5	0.034	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.05	0.059	0.069	0.5	0.061	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.035	0.066	0.055	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.029	0.041	0.064	0.5	0.046	0.02	0.02

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.122	0.066	0.023	0.5	0.072	0.036	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.101	0.079	0.041	0.5	0.075	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.114	0.085	0.04	0.5	0.081	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.12	0.121	0.078	0.5	0.108	0.05	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.134	0.145	0.133	0.5	0.140	0.07	0.07
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.108	0.157	0.177	0.5	0.150	0.08	0.08
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.049	0.084	0.091	0.5	0.076	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.342	0.312	0.153	0.5	0.277	0.14	0.14
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.285	0.252	0.169	0.5	0.240	0.12	0.12
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.347	0.328	0.205	0.5	0.299	0.15	0.15
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PB	0.332	0.314	0.246	0.5	0.303	0.152	0.15
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.234	0.335	0.263	0.5	0.283	0.14	0.14

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	E	1.02	PB	0.164	0.149	0.112	0.5	0.145	0.072	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.26	0.248	0.176	0.5	0.233	0.116	0.12
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PB	0.269	0.335	0.274	0.5	0.299	0.15	0.15
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PB	0.252	0.394	0.231	0.5	0.298	0.15	0.15
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.091	0.142	0.133	0.5	0.124	0.06	0.06
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PB	0.504	0.332	0.205	0.5	0.357	0.18	0.18
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PB	0.329	0.272	0.208	0.5	0.275	0.14	0.14
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.262	0.254	0.173	0.5	0.234	0.12	0.12
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PB	0.267	0.205	0.164	0.5	0.216	0.11	0.11
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	E	1.02	PB	0.396	0.303	0.24	0.5	0.319	0.16	0.16
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.383	0.34	0.262	0.5	0.335	0.167	0.17

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PB	0.285	0.281	0.190	0.5	0.257	0.129	0.13
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PB	0.373	0.383	0.285	0.5	0.354	0.177	0.18
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.345	0.392	0.403	0.5	0.388	0.194	0.20
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PB	0.392	0.421	0.339	0.5	0.392	0.196	0.20
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	E	1.02	PB	0.199	0.324	0.227	0.5	0.255	0.128	0.13
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PB	0.113	0.211	0.195	0.5	0.176	0.09	0.09
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.09	0.04	0.05	0.5	0.113	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.08	0.06	0.04	0.5	0.105	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.08	0.04	0.04	0.5	0.087	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.08	0.07	0.05	0.5	0.122	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.070	0.060	0.040	0.5	0.087	0.044	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.07	0.07	0.06	0.5	0.110	0.06	0.06
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.07	0.06	0.04	0.5	0.081	0.04	0.04

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.05	0.04	0.04	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.050	0.03	0.03	0.5	0.039	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.06	0.03	0.03	0.5	0.049	0.025	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.05	0.03	0.03	0.5	0.038	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.06	0.040	0.03	0.5	0.053	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.05	0.050	0.04	0.5	0.054	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.04	0.04	0.04	0.5	0.039	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.048	0.033	0.033	0.5	0.042	0.021	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.06	0.05	0.03	0.5	0.064	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.06	0.04	0.03	0.5	0.055	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.05	0.04	0.02	0.5	0.040	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.05	0.04	0.04	0.5	0.049	0.02	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.07	0.06	0.04	0.5	0.083	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.060	0.040	0.040	0.5	0.055	0.03	0.03

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.08	0.04	0.04	0.5	0.089	0.04	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.090	0.060	0.030	0.5	0.114	0.06	0.06
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.090	0.070	0.060	0.5	0.147	0.07	0.08
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PB	0.08	0.07	0.06	0.5	0.129	0.064	0.07
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.07	0.06	0.06	0.5	0.102	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	H	0.84	PB	0.06	0.05	0.04	0.5	0.068	0.034	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.08	0.06	0.05	0.5	0.111	0.055	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PB	0.08	0.07	0.06	0.5	0.129	0.06	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PB	0.080	0.07	0.07	0.5	0.134	0.07	0.07
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.07	0.06	0.06	0.5	0.097	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PB	0.09	0.060	0.05	0.5	0.132	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PB	0.090	0.070	0.040	0.5	0.133	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.090	0.07	0.04	0.5	0.133	0.07	0.07

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PB	0.08	0.06	0.04	0.5	0.105	0.05	0.05
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	H	0.84	PB	0.09	0.07	0.06	0.5	0.147	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.100	0.07	0.06	0.5	0.164	0.082	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PB	0.09	0.07	0.06	0.5	0.147	0.074	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PB	0.090	0.070	0.070	0.5	0.155	0.077	0.08
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.08	0.08	0.07	0.5	0.150	0.075	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PB	0.080	0.070	0.070	0.5	0.137	0.068	0.07
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	H	0.81	PB	0.08	0.07	0.06	0.5	0.123	0.061	0.06
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PB	0.08	0.07	0.06	0.5	0.120	0.06	0.06

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.062	0.077	0.048	0.5	0.064	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.160	0.054	0.092	0.5	0.104	0.05	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.056	0.066	0.049	0.5	0.058	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.053	0.051	0.040	0.5	0.049	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.088	0.130	0.061	0.5	0.095	0.047	0.05
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.054	0.059	0.051	0.5	0.056	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.057	0.066	0.050	0.5	0.059	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.044	0.055	0.123	0.5	0.076	0.04	0.04
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.026	0.038	0.013	0.5	0.026	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.035	0.074	0.037	0.5	0.050	0.025	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.022	0.027	0.023	0.5	0.024	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.034	0.093	0.169	0.5	0.101	0.05	0.05
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.041	0.123	0.141	0.5	0.104	0.05	0.05
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.048	0.053	0.059	0.5	0.054	0.03	0.03

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.037	0.026	0.067	0.5	0.045	0.022	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.096	0.149	0.060	0.5	0.104	0.05	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.046	0.100	0.060	0.5	0.070	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.051	0.157	0.162	0.5	0.126	0.06	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.033	0.087	0.101	0.5	0.075	0.04	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.039	0.074	0.092	0.5	0.070	0.03	0.04
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.060	0.086	0.059	0.5	0.070	0.03	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.069	0.099	0.039	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.104	0.142	0.101	0.5	0.118	0.06	0.06
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.055	0.067	0.055	0.5	0.060	0.03	0.03
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PF	0.060	0.103	0.058	0.5	0.075	0.038	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.044	0.094	0.105	0.5	0.083	0.04	0.04

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	E	1.02	PF	0.085	0.113	0.112	0.5	0.105	0.053	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.048	0.062	0.093	0.5	0.069	0.035	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	E	1.02	PF	0.063	0.108	0.089	0.5	0.088	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	E	1.02	PF	0.073	0.137	0.116	0.5	0.111	0.06	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.130	0.121	0.152	0.5	0.137	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	E	1.03	PF	0.116	0.171	0.115	0.5	0.138	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	E	1.02	PF	0.060	0.099	0.127	0.5	0.097	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.114	0.155	0.142	0.5	0.140	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	E	1.02	PF	0.100	0.174	0.130	0.5	0.137	0.07	0.07
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	E	1.02	PF	0.090	0.118	0.129	0.5	0.115	0.06	0.06
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.069	0.110	0.119	0.5	0.101	0.051	0.05

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	E	1.02	PF	0.062	0.093	0.096	0.5	0.085	0.043	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	E	1.02	PF	0.067	0.136	0.116	0.5	0.108	0.054	0.06
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.062	0.086	0.135	0.5	0.096	0.048	0.05
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	E	1.02	PF	0.069	0.177	0.212	0.5	0.156	0.078	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	E	1.02	PF	0.102	0.164	0.172	0.5	0.149	0.074	0.08
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	E	1.02	PF	0.131	0.128	0.135	0.5	0.134	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.066	0.083	0.055	0.5	0.133	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.076	0.084	0.049	0.5	0.138	0.07	0.07
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.064	0.055	0.046	0.5	0.084	0.04	0.04
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.050	0.053	0.049	0.5	0.068	0.03	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.045	0.054	0.049	0.5	0.064	0.032	0.03
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.035	0.036	0.043	0.5	0.036	0.02	0.02
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.039	0.047	0.038	0.5	0.042	0.02	0.02

Notes:

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Table G.2 (Continued)

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.063	0.071	0.058	0.5	0.115	0.06	0.06
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.041	0.044	0.030	0.5	0.041	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.044	0.048	0.040	0.5	0.053	0.027	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.029	0.026	0.033	0.5	0.023	0.01	0.01
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.038	0.039	0.033	0.5	0.035	0.02	0.02
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.047	0.056	0.037	0.5	0.055	0.03	0.03
Roof	RAD4010ARB, 1/2 wave (136-174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.045	0.048	0.029	0.5	0.042	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.064	0.067	0.059	0.5	0.112	0.056	0.06
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.063	0.070	0.054	0.5	0.107	0.05	0.05
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.044	0.049	0.029	0.5	0.047	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.036	0.041	0.031	0.5	0.035	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.041	0.047	0.036	0.5	0.045	0.02	0.02
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.051	0.060	0.044	0.5	0.067	0.03	0.03
Roof	HAD4022A, 5/8 Wave (132 -174 MHz)	5.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.048	0.050	0.036	0.5	0.049	0.02	0.02

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.069	0.067	0.033	0.5	0.096	0.05	0.05
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.056	0.058	0.037	0.5	0.071	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.047	0.063	0.044	0.5	0.072	0.04	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PF	0.055	0.069	0.043	0.5	0.083	0.042	0.04
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.048	0.072	0.050	0.5	0.084	0.04	0.04
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	146.0000	60.0	59.6	CW	H	0.84	PF	0.046	0.047	0.030	0.5	0.046	0.023	0.02
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.047	0.051	0.036	0.5	0.054	0.027	0.03
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	158.3000	60.0	59.0	CW	H	0.83	PF	0.055	0.073	0.054	0.5	0.098	0.05	0.05
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	165.9000	60.0	58.7	CW	H	0.81	PF	0.051	0.082	0.070	0.5	0.117	0.06	0.06
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.040	0.046	0.054	0.5	0.053	0.03	0.03
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	136.0000	60.0	59.0	CW	H	0.86	PF	0.083	0.082	0.040	0.5	0.141	0.07	0.07
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	140.0000	60.0	59.0	CW	H	0.85	PF	0.066	0.073	0.041	0.5	0.103	0.05	0.05
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.064	0.059	0.034	0.5	0.079	0.04	0.04

Notes:

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

APX4500 VHF - MPE measurement data for Passenger

D.U.T. Info.								Probe Info.			MPE Measurements						
											Passenger/Operator (MC) Positions						
Ant Loc.	Ant. Model/ Desc.	Ant. Gain (dBi)	Ant. Meas. Dist. (cm)	Tx Freq (MHz)	Max Pwr (W)	Initial Pwr (W)	Test Mode	E/H Field	Probe Cal. Factor	Test Pos.	Head/ Top 1/3	Chest/ Middle 1/3	Lower Trunk/ Bottom 1/3	DUT Max. TX Factor	Avg. over Body (mW/ cm2)	Calc. P.D. (mW/ cm2)	Max Calc. P.D. (mW/ cm2)
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	144.0000	60.0	59.3	CW	H	0.85	PF	0.057	0.062	0.037	0.5	0.077	0.04	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	148.0000	60.0	59.1	CW	H	0.84	PF	0.050	0.062	0.038	0.5	0.069	0.03	0.04
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.053	0.064	0.045	0.5	0.079	0.040	0.04
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	150.8000	60.0	58.8	CW	H	0.84	PF	0.052	0.052	0.040	0.5	0.062	0.031	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	156.2000	60.0	58.8	CW	H	0.83	PF	0.049	0.053	0.051	0.5	0.068	0.034	0.03
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.042	0.049	0.055	0.5	0.061	0.030	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	162.0000	60.0	58.8	CW	H	0.82	PF	0.056	0.049	0.051	0.5	0.069	0.034	0.04
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	167.7000	60.0	58.7	CW	H	0.81	PF	0.055	0.045	0.042	0.5	0.056	0.028	0.03
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	2.15	NA	173.4000	60.0	59.0	CW	H	0.80	PF	0.054	0.062	0.051	0.5	0.075	0.04	0.04

Notes:

MPE calculations are defined in section 15.0

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