COMPUTATIONAL EME COMPLIANCE ASSESSMENT OF THE APX SERIES MODEL M25KSS9PW1BN (PMUD3490A) MOBILE RADIO AND COMPANION DEVICE, DIGITAL VEHICULAR REPEATER (DVR VHF), MOBEXCOM DVRS VHF (DQPMDVR3000P)

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Introduction

This report summarizes the computational [numerical modeling] analysis performed to document compliance of the APX Series Model Number M25KSS9PW1BN (PMUD3490A) Mobile Radio interfaced with, and transmitting simultaneously with DVR VHF, model #MOBEXCOM DVRS VHF (DQPMDVR3000P) and vehicle-mounted antennas with the United States Federal Communications Commission (FCC) and Innovation, Science and Economic Development (ISED) Canada guidelines for human exposure to radio frequency (RF) emissions. The devices operate in the following frequency bands:

Regions	Device	Bands	Frequency Band (MHz)
US FCC	Mobile APX6500	VHF	150.8 – 173.4
	DVR	VHF	150.8-173.4
ISED Canada	Mobile APX6500	VHF	138 -174
	DVR	VHF	138-174

This computational analysis supplements the measurements conducted to evaluate the compliance of the exposure from this mobile radio and companion device DVR VHF with respect to applicable *reference levels*, which in the following will be referred to as *maximum*

permissible exposure (MPE) limits.[1] A total of 155 test conditions that did not conform with FCC MPE limit and 338 test conditions did not conform with ISED MPE limits were considered to determine whether those conditions complied with the *specific absorption rate* (SAR) limits for general public exposure (1.6 W/kg averaged over 1 gram of tissue and 0.08 W/kg averaged over the whole body) set forth in set forth in FCC guidelines [2] and Health Canada guidelines [1].

Employing SAR simulation reduction considerations[2], a total 31 configurations (requiring a total of 62 numerical simulations) have been performed, all of them addressing the exposure of the back seat passenger to the DVR VHF repeater featuring trunk-mount antennas and the APX6500 mobile radio featuring roof-mount antennas.

For all simulations a commercial code (XFDTD™ v7.6.0, by Remcom Inc, State College, PA, USA) based on the Finite-Difference-Time-Domain (FDTD) methodology was employed to carry out the computational analysis. It is well established and recognized within the scientific community that SAR represents the *basic restriction* for RF energy exposure up to 6 GHz and that MPE limits are in fact derived from SAR limits. Accordingly, the SAR computations provide a scientifically valid and more relevant estimate of RF energy exposures.

Method

The XFDTD™ v7.6.0 computational suite enable simulating the heterogeneous full human body model defined according to the IEC/IEEE 62704-2:2017 standard and derived from the so-called Visible Human [3], discretized in 3 mm cubic-edge voxels. The IEC/IEEE 62704-2:2017 dielectric properties for 39 body tissues are automatically assigned by XFDTD™ at the specific simulation frequency. The "seated" man model representing the passenger was obtained from the standing model by modifying the articulation angles at the hips and the knees. Details of the computational method and model are provided in the Appendix A to this report. The evaluation of the computational uncertainties and results of the benchmark validations are provided in the Appendix B attached to this report. The XFDTD code validation performed by Remcom Inc. according to the IEEE/IEC 62704-2:2017 standard requirements is provided in conjunction with this report.

[1] This choice is made for process efficiency, since "MPE" is used in the United States. In this way, chances of making editorial mistakes that may then require extended interactions with the report examiner are reduced.
[2] SAR simulation reduction is described in the SAR Simulations Reduction Considerations section of this report.

The car model has been imported into XFDTD™ from the CAD file of the sedan vehicle defined in the IEEE/IEC 62704-2:2017 standard, having dimensions 4.98 m (L) x 1.85 m (W) x 1.18 m (H), and discretized with the minimum resolution of 3 mm and the maximum resolution of 8 mm. Figure 1 below shows both the vehicle CAD model and a picture of the actual vehicle.

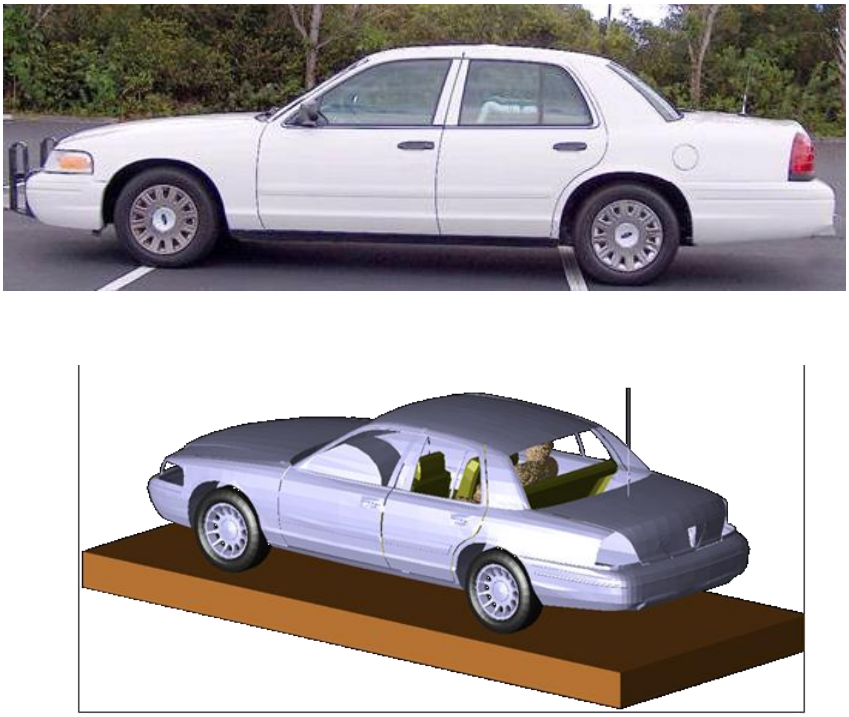
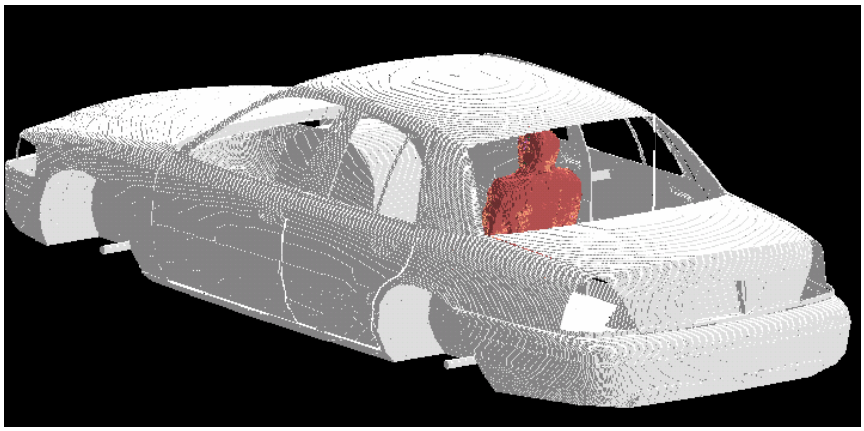


Figure 1: Picture of the vehicle and corresponding CAD model used in XFDTD™ simulations

For back seat passenger exposures, the antenna is positioned on the trunk at 85 cm distance from the passenger model head when the passenger model is located in the center of the back seat, replicating the experimental conditions used in MPE measurements. Figure 2 and figure 3 shows the XFDTD™ computational models used for passenger exposure to trunk and roof mount antennas.

According to the IEC/IEEE 62704-2:2017 standard a lossy dielectric slab featuring 30 cm thickness, relative dielectric constant 8 and conductivity 0.01 S/m has been introduced in the computational model to properly account for the effect of the ground (pavement) on exposure.

The computational code employs a time-harmonic field excitation to produce a steady-state electromagnetic field in the exposed body model. Subsequently, the corresponding SAR distribution is automatically processed in order to determine the whole-body SAR and peak spatial average SAR distribution.



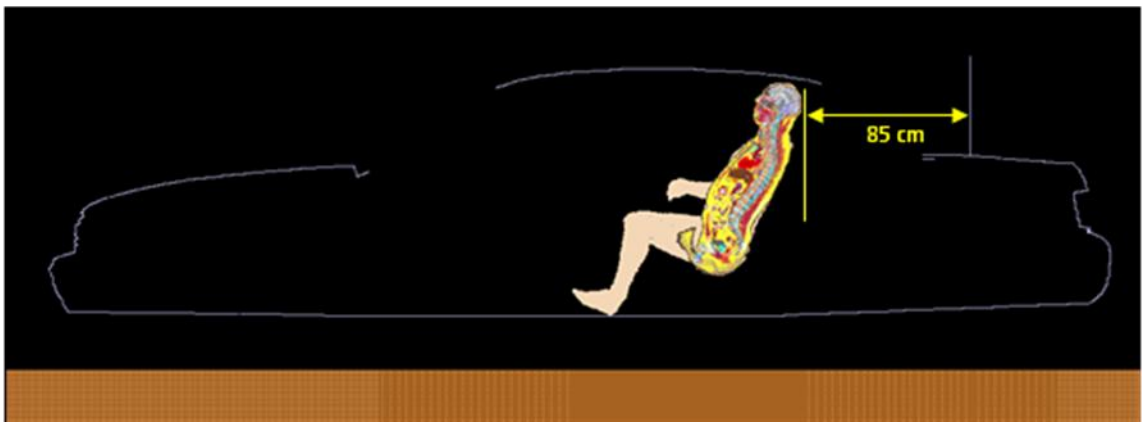


Figure 2: Passenger (back seat) model exposed to a trunk-mount antenna: XFDTD™ geometry. The antenna is installed at 85 cm from the passenger located in the center of the back seat.

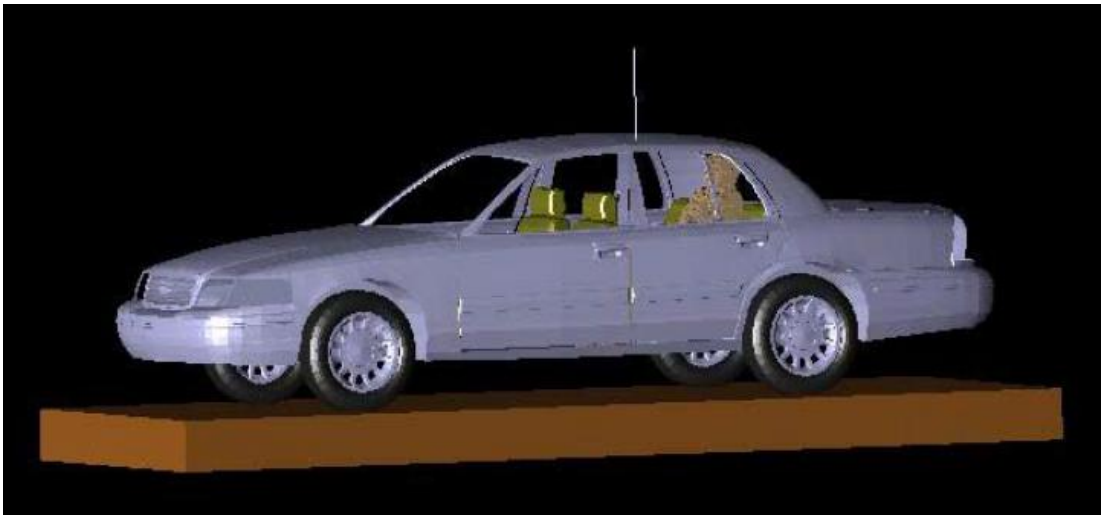


Figure 3: Passenger (back seat) model exposed to a roof-mount antenna: XFDTD™ geometry.

The maximum average output power from mobile radio antenna is 60W (VHF band) while it is 6W from the DVR VHF repeater antenna (VHF band). Since the ohmic losses in the vehicle materials, as well as the mismatch losses at the antenna feed-point are neglected, while source-based time averaging (50% talk time for to push-to-talk operation) for the APX6500 mobile radio and (100% talk time) for DVR VHF were employed, all computational results are

normalized to half of the APX6500 mobile radio maximum average net output power, i.e., 30W (VHF band) and to full average net output power of the companion DVR VHF repeater, i.e., 6W (VHF band); minus the corresponding minimum insertion loss in excess of 0.5 dB of the feed cables supplied with the antennas, in accordance with the IEC/IEEE 62704-2:2017 standard provisions.

Results of SAR computations for car passengers

The test conditions requiring SAR computations are summarized in Table 1 (APX6500 mobile radio, 50% talk time) and Table 2 (DVR VHF, 100% talk time), together with the antenna data, the SAR results, and power density (P.D.) as obtained from the MPE measurements in the corresponding test conditions. The conditions are for antennas mounted on the center of the roof (APX6500 mobile radio) and the center of the trunk (DVR VHF). The antenna length listed in the tables includes the height of the 1.8 cm magnetic mount base used in MPE measurements to position the antenna on the vehicle. The same length was then used in the corresponding simulation model.

The passenger is located in the center or on the side of the rear seat corresponding to the respective configurations defined in the IEC/IEEE 62704-2-2017 standard.

All the transmit frequency, antenna length, and passenger location combinations reported in Tables 1 and 2 have been simulated individually. These tables also include the interpolated adjustment factor and corresponding scaled SAR values following the requirements of the IEC/IEEE 62704-2:2017 standard.

Table 1a: Computed and adjusted SAR results for back seat passenger exposure for APX6500 mobile radio

(Configurations exceeding FCC MPE limits)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm^2)	Exposure Location	Computations SAR (W/kg)		Interpolated Adjustment Factors		Adjusted SAR Results (W/kg)	
						1 g	WB	1 g	WB	1 g	WB
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	50.8	150.8000	0.22	Back Center	0.111	0.004	1.303	1.900	0.144	0.007
					Back Side	0.217	0.004	1.002	2.401	0.218	0.010
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	47.3	162.0000	0.23	Back Center	0.028	0.001	1.352	1.896	0.038	0.003
					Back Side	0.055	0.002	1.028	2.420	0.056	0.004
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	44.8	162.0000	0.21	Back Center	0.028	0.001	1.352	1.896	0.038	0.003
					Back Side	0.055	0.002	1.028	2.420	0.056	0.004
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	53.1	150.8000	0.20	Back Center	0.111	0.004	1.303	1.900	0.145	0.007
					Back Side	0.216	0.004	1.002	2.401	0.217	0.010
			156.4000	0.18	Back Center	0.111	0.003	1.328	1.898	0.147	0.006
					Back Side	0.130	0.003	1.015	2.411	0.132	0.006
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	48.0	165.0125	0.22	Back Center	0.018	0.001	1.365	1.895	0.025	0.002
					Back Side	0.051	0.001	1.035	2.425	0.053	0.003
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	53.5	165.0125	0.18	Back Center	0.018	0.001	1.365	1.895	0.025	0.002
					Back Side	0.051	0.001	1.035	2.425	0.053	0.003
Roof	#HAD4022A, 5/8 Wave (132 -174 MHz)	115.8	150.8000	0.03	Back Center	0.068	0.002	1.303	1.900	0.089	0.004
					Back Side	0.118	0.002	1.002	2.401	0.119	0.005
		104.5	158.0125	0.05	Back Center	0.060	0.002	1.335	1.897	0.080	0.004
					Back Side	0.076	0.002	1.019	2.413	0.077	0.004
		98.3	165.0125	0.09	Back Center	0.019	0.001	1.365	1.895	0.026	0.002
					Back Side	0.046	0.001	1.035	2.425	0.048	0.003
		91.7	173.0125	0.06	Back Center	0.137	0.002	1.400	1.892	0.192	0.004
					Back Side Fig. 4 & 5	0.226	0.005	1.054	2.438	**0.238**	**0.012**
Roof	#RAD4010ARB, 1/2 wave (136-174 MHz)	128.6	150.8000	0.02	Back Center	0.056	0.002	1.303	1.900	0.073	0.003
					Back Side	0.090	0.002	1.002	2.401	0.091	0.004
		118.3	158.0125	0.04	Back Center	0.051	0.002	1.335	1.897	0.068	0.003
					Back Side	0.054	0.001	1.019	2.413	0.055	0.003
		114.3	165.0125	0.04	Back Center	0.018	0.001	1.365	1.895	0.024	0.002
					Back Side	0.031	0.001	1.035	2.425	0.032	0.002
		105.5	173.0125	0.04	Back Center	0.080	0.001	1.400	1.892	0.113	0.003
					Back Side	0.129	0.003	1.054	2.438	0.135	0.007

Bold Green – the highest adjusted SAR results for the respective frequency band.
Antenna length trimmed to frequency

Table 1b: Computed and adjusted SAR results for back seat passenger exposure for APX6500 mobile radio

(Configurations exceeding ISED MPE limits)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm^2)	Exposure Location	Computations SAR (W/kg)		Interpolated Adjustment Factors		Adjusted SAR Results (W/kg)	
						1 g	WB	1 g	WB	1 g	WB
Roof	HAD4006A, 1/4 Wave (136-144 MHz)	53.8	140.0000	0.22	Back Center Fig. 6 & 7	0.252	0.006	1.257	1.771	**0.316**	0.010
					Back Side	0.252	0.006	1.043	2.243	0.263	**0.014**
			144.0000	0.21	Back Center	0.155	0.006	1.274	1.823	0.197	0.011
					Back Side	0.251	0.006	1.026	2.306	0.258	0.014
Roof	HAD4007A, 1/4 Wave (144-150.8 MHz)	50.8	144.0000	0.19	Back Center	0.152	0.006	1.274	1.823	0.194	0.011
					Back Side	0.253	0.006	1.026	2.306	0.259	0.014
			*150.8000	0.22	Back Center	0.111	0.004	1.303	1.900	0.144	0.007
					Back Side	0.217	0.004	1.002	2.401	0.218	0.010
Roof	HAD4008A, 1/4 Wave (150.8-162 MHz)	47.3	*162.0000	0.23	Back Center	0.028	0.001	1.352	1.896	0.038	0.003
					Back Side	0.055	0.002	1.028	2.420	0.056	0.004
Roof	HAD4009A, 1/4 Wave (162-174 MHz)	44.8	*162.0000	0.21	Back Center	0.028	0.001	1.352	1.896	0.038	0.003
					Back Side	0.055	0.002	1.028	2.420	0.056	0.004
Roof	HAD4016A, 1/4 Wave (136-162 MHz)	53.1	144.0000	0.19	Back Center	0.154	0.006	1.274	1.823	0.196	0.011
					Back Side	0.252	0.006	1.026	2.306	0.258	0.014
			*150.8000	0.20	Back Center	0.111	0.004	1.303	1.900	0.145	0.007
					Back Side	0.216	0.004	1.002	2.401	0.217	0.010
Roof	HAD4017A, 1/4 Wave (146-174 MHz)	48.0	*165.0125	0.22	Back Center	0.018	0.001	1.365	1.895	0.025	0.002
					Back Side	0.051	0.001	1.035	2.425	0.053	0.003
Roof	HAD4021A, 1/4 Wave (136 -174MHz)	53.5	*165.0125	0.18	Back Center	0.018	0.001	1.365	1.895	0.025	0.002
					Back Side	0.051	0.001	1.035	2.425	0.053	0.003

Note:
Bold Green – the highest adjusted SAR results for the respective frequency band
***** - Same SAR simulation configuration as Table 1a

Table 1b (continued): Computed and adjusted SAR results for back seat passenger exposure for APX6500 mobile radio
(Configurations exceeding ISED MPE limits)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm^2)	Exposure Location	Computations SAR (W/kg)		Interpolated Adjustment Factors		Adjusted SAR Results (W/kg)	
						1 g	WB	1 g	WB	1 g	WB
Roof	#HAD4022A, 5/8 Wave (132 -174 MHz)	120.3	144.0000	0.04	Back Center	0.085	0.003	1.274	1.823	0.108	0.006
					Back Side	0.121	0.003	1.026	2.306	0.124	0.007
		115.8	*150.8000	0.03	Back Center	0.068	0.002	1.303	1.900	0.089	0.004
					Back Side	0.118	0.002	1.002	2.401	0.119	0.005
		104.5	*158.0125	0.05	Back Center	0.060	0.002	1.335	1.897	0.080	0.004
					Back Side	0.076	0.002	1.019	2.413	0.077	0.004
		98.3	*165.0125	0.09	Back Center	0.019	0.001	1.365	1.895	0.026	0.002
					Back Side	0.046	0.001	1.035	2.425	0.048	0.003
		91.7	*173.0125	0.06	Back Center	0.137	0.002	1.400	1.892	0.192	0.004
					Back Side	0.226	0.005	1.054	2.438	0.238	0.012
Roof	#RAD4010ARB, 1/2 wave (136-174 MHz)	132.3	144.0000	0.02	Back Center	0.064	0.002	1.274	1.823	0.081	0.004
					Back Side	0.091	0.002	1.026	2.306	0.093	0.005
		128.6	*150.8000	0.02	Back Center	0.056	0.002	1.303	1.900	0.073	0.003
					Back Side	0.090	0.002	1.002	2.401	0.091	0.004
		118.3	*158.0125	0.04	Back Center	0.051	0.002	1.335	1.897	0.068	0.003
					Back Side	0.054	0.001	1.019	2.413	0.055	0.003
		114.3	*165.0125	0.04	Back Center	0.018	0.001	1.365	1.895	0.024	0.002
					Back Side	0.031	0.001	1.035	2.425	0.032	0.002
		105.5	*173.0125	0.04	Back Center	0.080	0.001	1.400	1.892	0.113	0.003
					Back Side	0.129	0.003	1.054	2.438	0.135	0.007

Note:
***** - Same SAR simulation configuration as Table 1
# Antenna length trimmed to frequency

Table 2a: Computed and adjusted SAR results for back seat passenger exposure for DVR VHF
(Configurations exceeding FCC MPE limits)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm^2)	Exposure Location	Computed SAR (W/kg)		Interpolated Adjustment Factors		Adjusted SAR Results (W/kg)	
						1 g	WB	1 g	WB	1 g	WB
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	150.8000	0.10	Back Center	0.179	0.008	1.901	2.401	0.340	0.019
					Back Side	0.064	0.005	4.194	2.999	0.267	0.015
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	162.0000	0.23	Back Center	0.161	0.007	1.920	2.416	0.308	0.018
					Back Side	0.163	0.006	4.112	2.984	0.670	0.019
			156.4000	0.14	Back Center	0.123	0.007	1.911	2.409	0.234	0.017
					Back Side	0.151	0.006	4.153	2.991	0.629	0.018
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	44.8	162.0000	0.17	Back Center	0.162	0.008	1.92	2.42	0.312	0.018
					Back Side	0.166	0.007	4.11	2.98	0.684	**0.020**
			167.7000	0.16	Back Center	0.131	0.006	1.93	2.42	0.252	0.015
					Back Side **Fig. 8 & 9**	0.172	0.005	4.07	2.98	**0.699**	0.016
			173.4000	0.19	Back Center	0.099	0.005	1.939	2.431	0.191	0.013
					Back Side	0.128	0.005	4.028	2.969	0.516	0.015

Note:
Bold Green – the highest adjusted SAR results for the respective frequency band.

Table 2b: Computed and adjusted SAR results for back seat passenger exposure for DVR VHF

(Configurations exceeding ISED MPE limits)

Mount Location	Antenna Kit#	Antenna Length (cm)	Freq (MHz)	P.D. (mW/cm^2)	Exposure Location	Computed SAR (W/kg)		Interpolated Adjustment Factors		Adjusted SAR Results (W/kg)	
						1 g	WB	1 g	WB	1 g	WB
Trunk	HAD4006A, 1/4 Wave (136-144MHz)	53.8	140.0000	0.20	Back Center	0.068	0.003	1.771	2.257	0.121	0.006
					Back Side	0.053	0.003	3.743	2.714	0.199	0.008
			144.0000	0.17	Back Center	0.184	0.008	1.823	2.314	0.336	0.018
					Back Side	0.070	0.005	3.926	2.829	0.273	0.014
Trunk	HAD4007A, 1/4 Wave (144-150.8MHz)	50.8	144.0000	0.19	Back Center	0.185	0.008	1.823	2.314	0.337	0.018
					Back Side	0.070	0.005	3.926	2.829	0.273	0.014
			*150.8000	0.10	Back Center	0.179	0.008	1.901	2.401	0.340	0.019
					Back Side	0.064	0.005	4.194	2.999	0.267	0.015
Trunk	HAD4008A, 1/4 Wave (150.8-162MHz)	47.3	150.8000	0.10	Back Center	0.181	0.008	1.901	2.401	0.345	0.019
					Back Side	0.064	0.005	4.194	2.999	0.269	0.015
			*156.4000	0.14	Back Center	0.123	0.007	1.911	2.409	0.234	0.017
					Back Side	0.151	0.006	4.153	2.991	0.629	0.018
			*162.0000	0.23	Back Center	0.161	0.007	1.920	2.416	0.308	0.018
					Back Side	0.163	0.006	4.112	2.984	0.670	0.019
Trunk	HAD4009A, 1/4 Wave (162-174MHz)	44.8	*162.0000	0.17	Back Center	0.162	0.008	1.92	2.42	0.312	0.018
					Back Side	0.166	0.007	4.11	2.98	0.684	**0.020**
			*167.7000	0.16	Back Center	0.131	0.006	1.93	2.42	0.252	0.015
					Back Side **Fig. 8 & 9**	0.172	0.005	4.07	2.98	**0.699**	0.016
			*173.4000	0.19	Back Center	0.099	0.005	1.939	2.431	0.191	0.013
					Back Side	0.128	0.005	4.028	2.969	0.516	0.015

Note:
Bold Green – the highest adjusted SAR results for the respective frequency band.
***** - Same SAR simulation configuration as Table 2a

The SAR distribution in the passenger exposure condition that gave highest adjusted 1-g SAR for the APX6500 mobile radio (FCC) is reported in Figure 4. (173.0125 MHz, passenger on the side of the back seat, HAD4022A antenna installed on the roof).

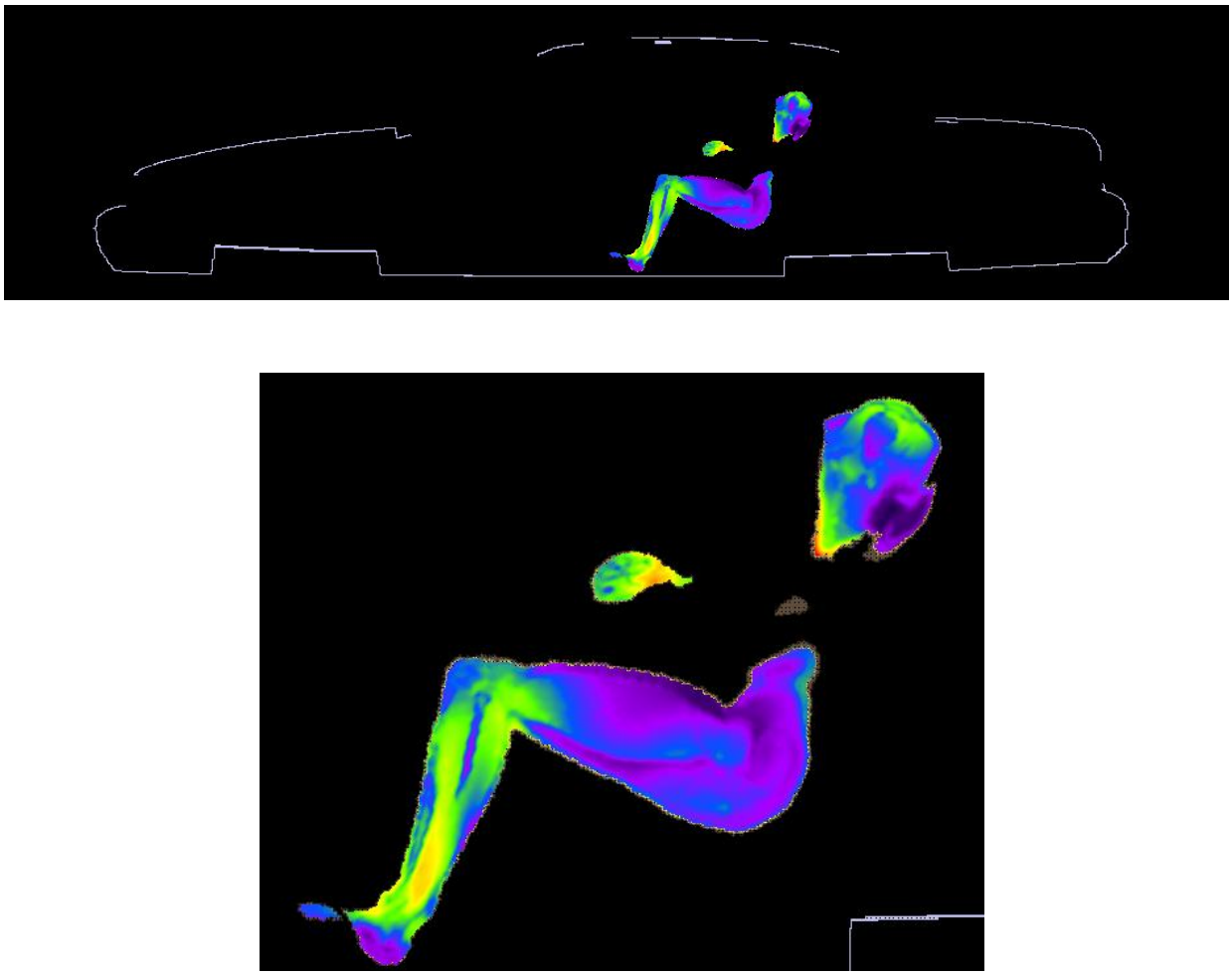
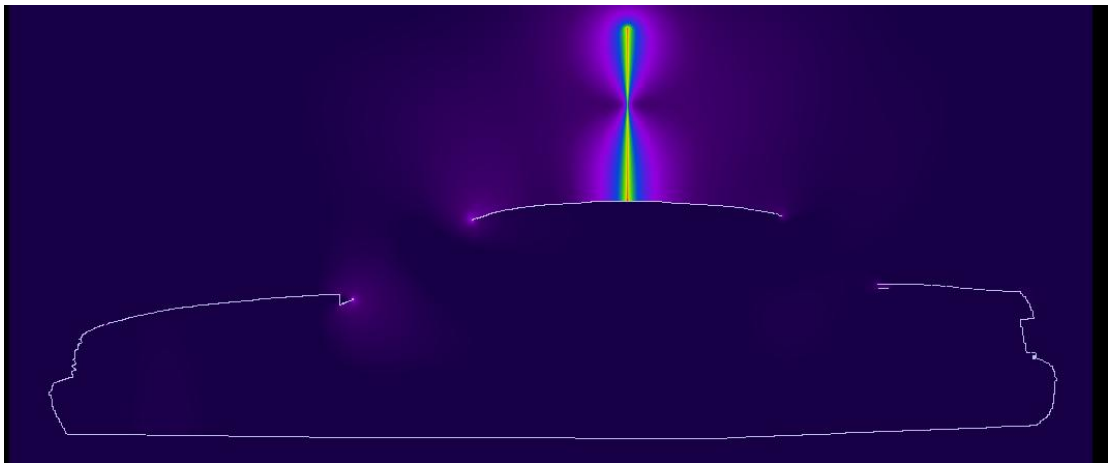
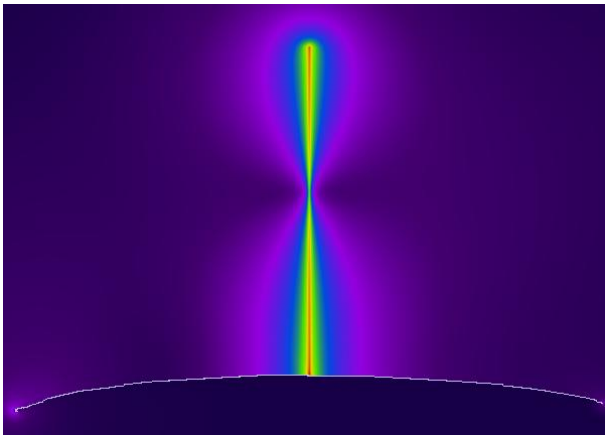


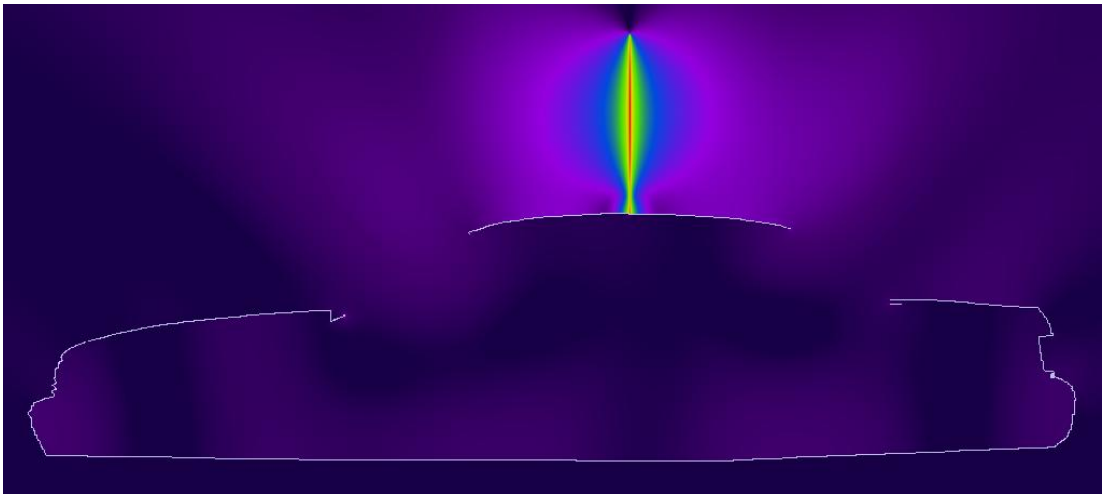
Figure 4. SAR distribution at 173.0125 MHz in the passenger model located on the side of the back seat, produced by the roof-mount HAD4022A antenna. The SAR distribution plot is relative to the plane where the peak 1-g average SAR for this exposure condition occurs.

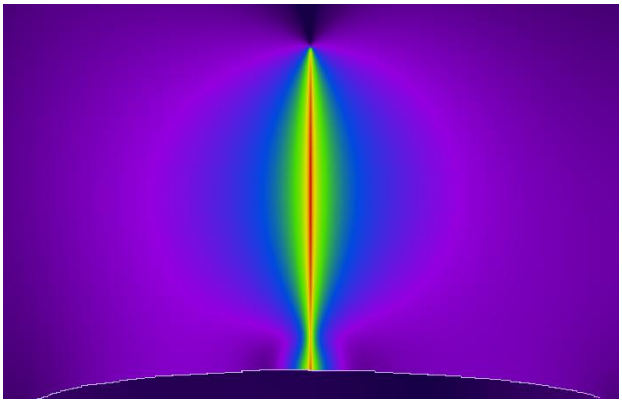
The plots in Figure 5 illustrate the E and H field distributions in the plane of the antenna corresponding to the exposure condition resulting in the SAR distribution in Figure 4.





a)





b)

Figure 5. (a) E-field magnitude distribution corresponding to exposure condition of Figure 4, and (b) H-field magnitude distribution corresponding to exposure condition of Figure 4.

The SAR distribution in the passenger exposure condition that gave highest adjusted 1-g SAR for the APX6500 mobile radio (ISED Canada) is reported in Figure 6. (140.0000 MHz, passenger on the center of the back seat, HAD4006A antenna installed on the roof).

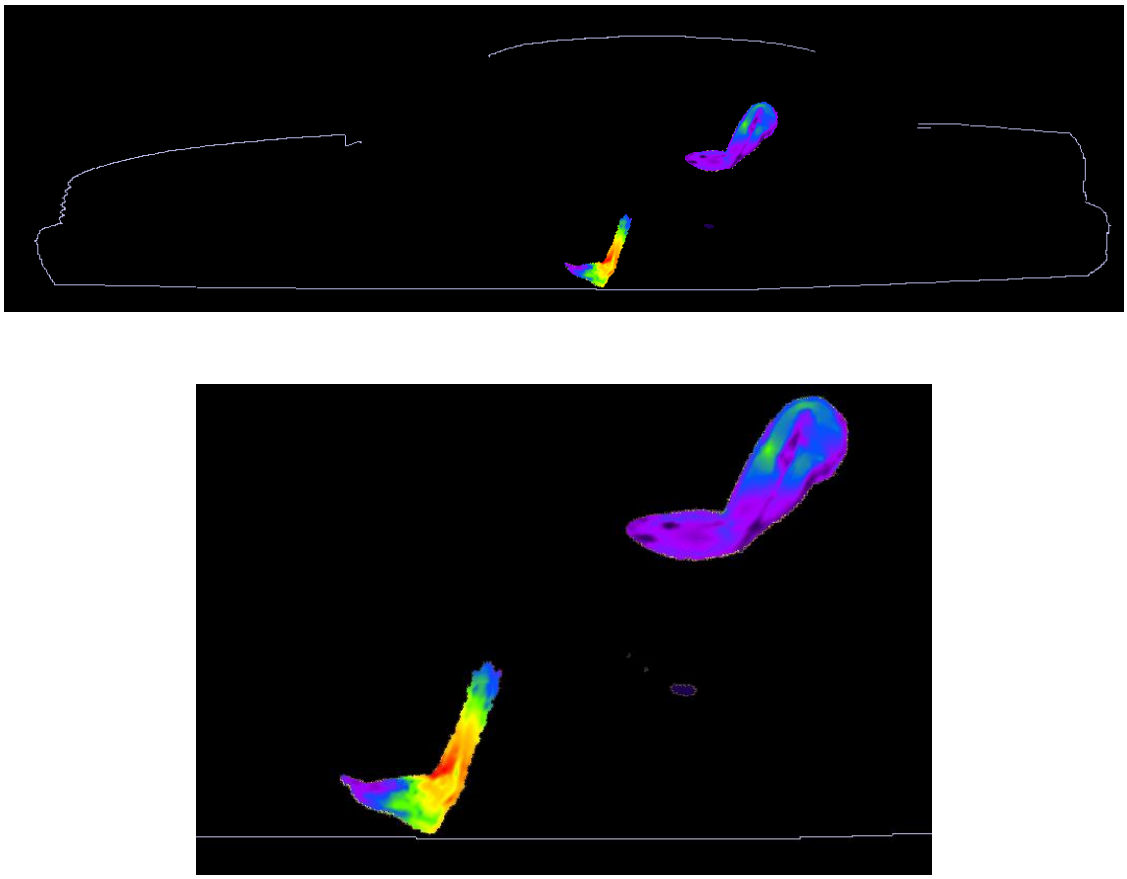
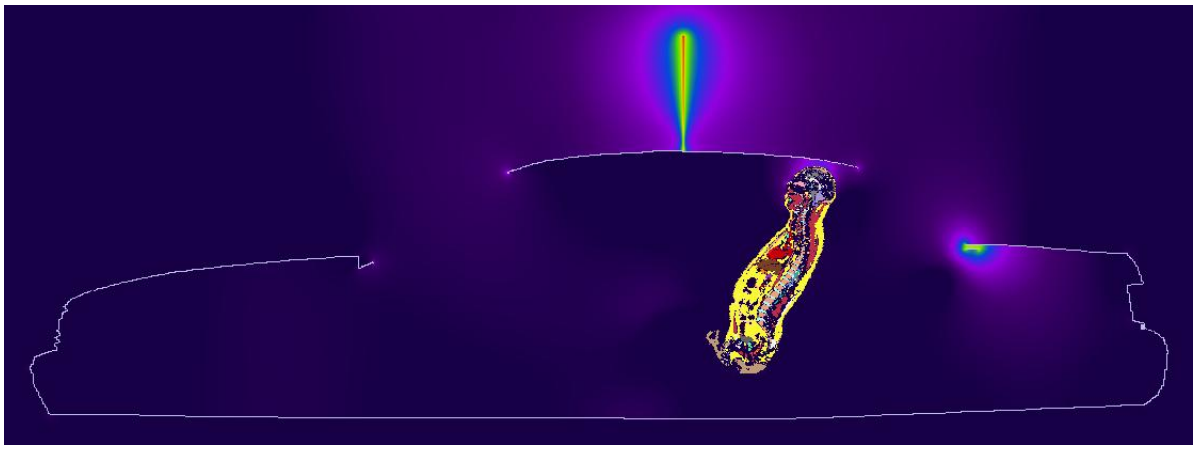
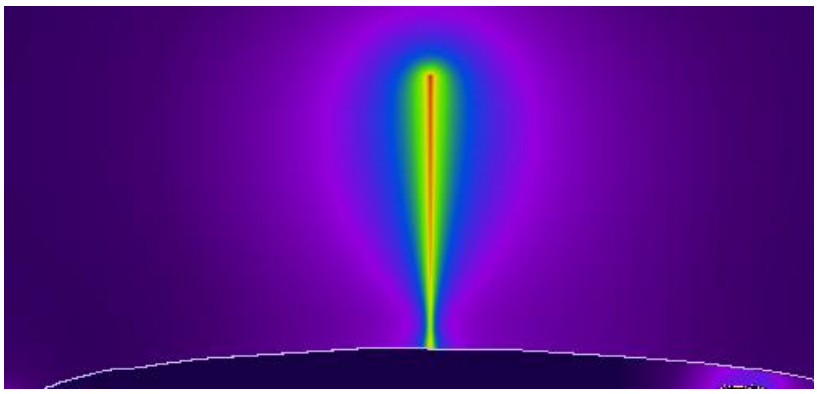


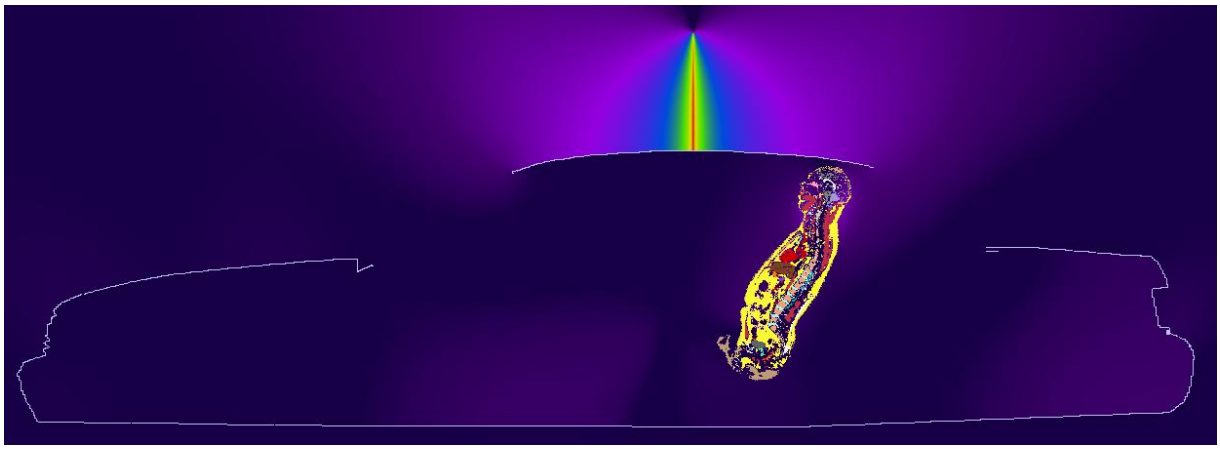
Figure 6. SAR distribution at 140.0000 MHz in the passenger model located on the center of the back seat, produced by the roof-mount HAD4006A antenna. The SAR distribution plot is relative to the plane where the peak 1-g average SAR for this exposure condition occurs.

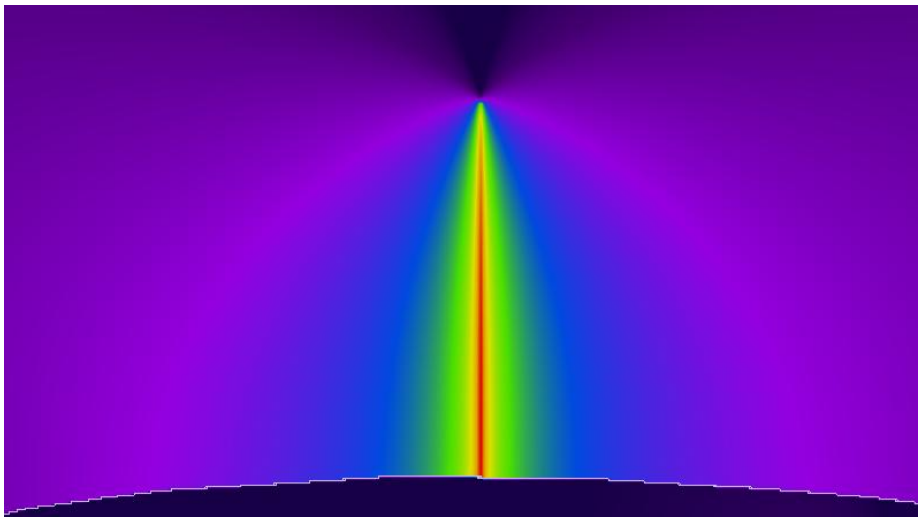
The plots in Figure 7 illustrate the E and H field distributions in the plane of the antenna corresponding to the exposure condition resulting in the SAR distribution in Figure 6.





a)





b)

Figure 7. (a) E-field magnitude distribution corresponding to exposure condition of Figure 6, and (b) H-field magnitude distribution corresponding to exposure condition of Figure 6

The SAR distribution in the passenger exposure condition that produced the highest adjusted 1-g SAR for the DVR VHF is reported in Figure 8 (167.7000 MHz, passenger on the side of the back seat, HAD4009A antenna installed on the trunk).

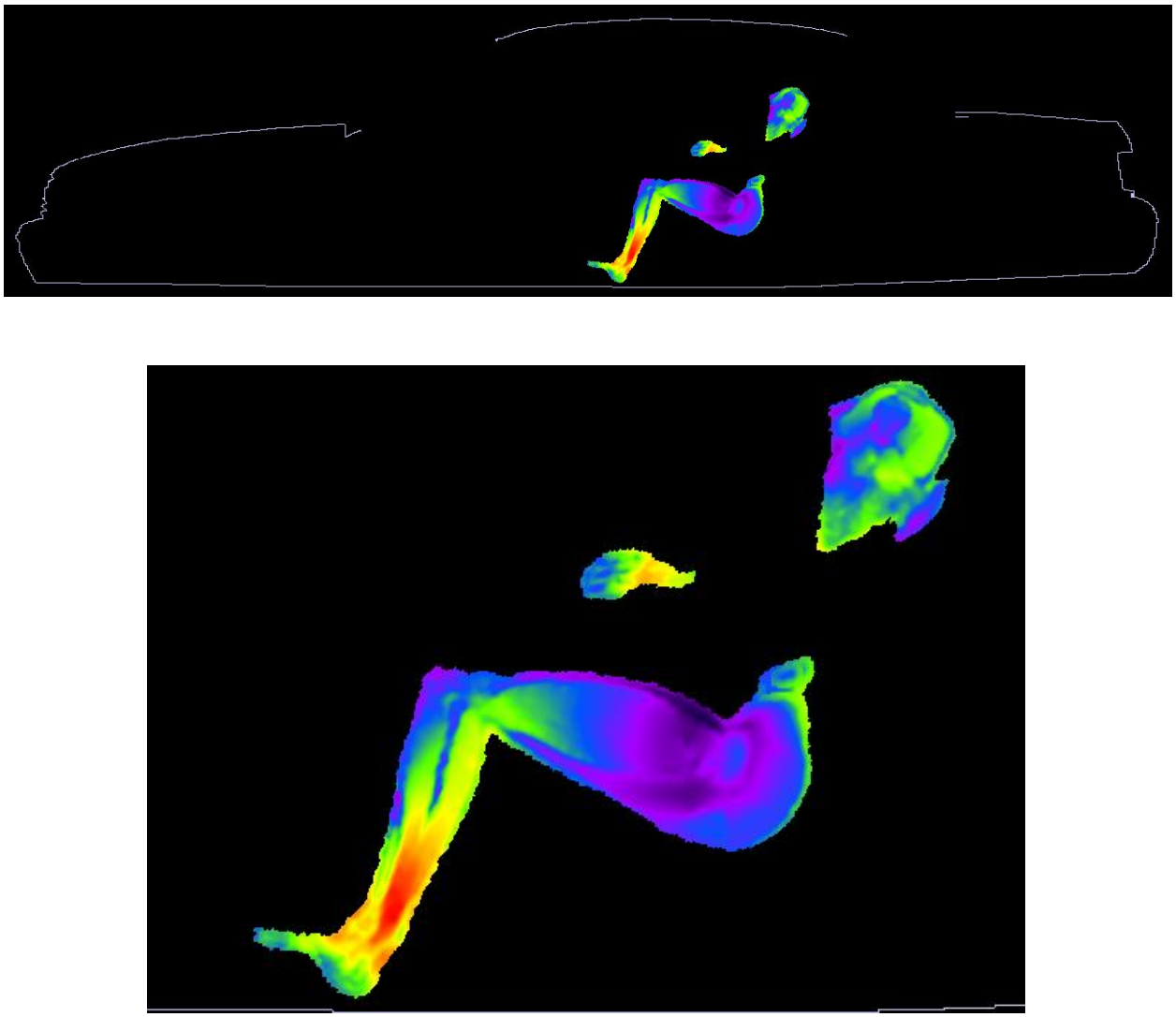
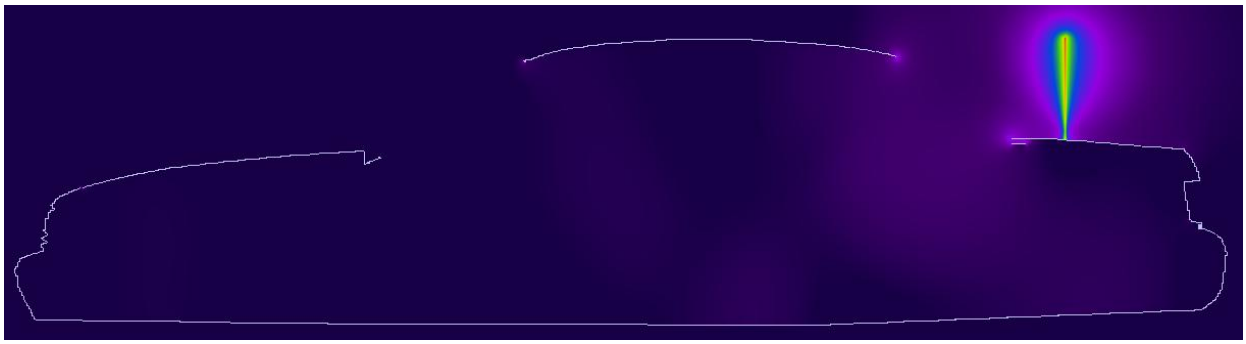
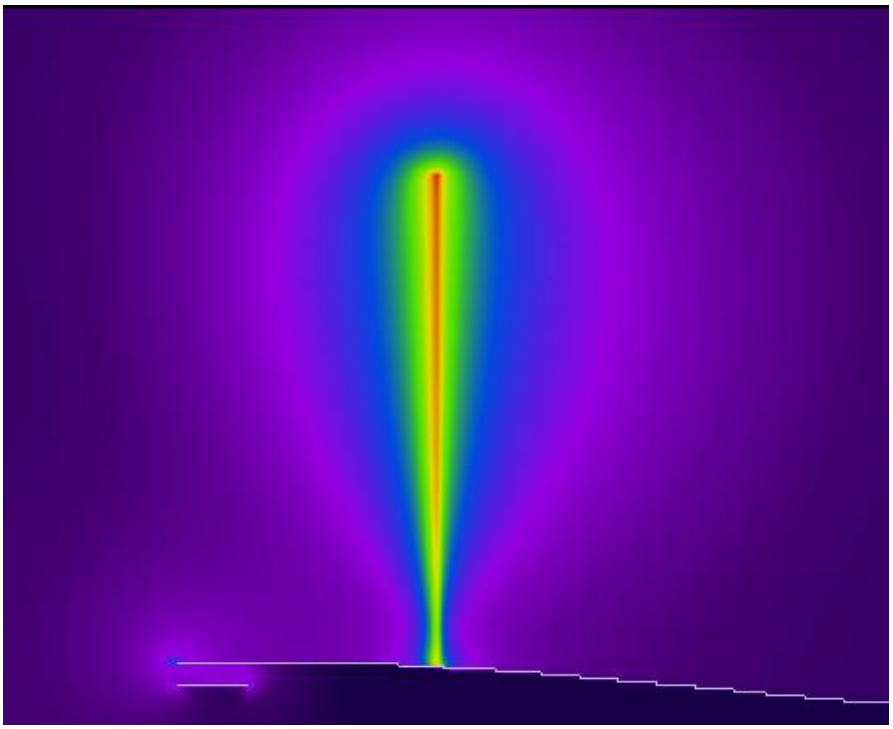


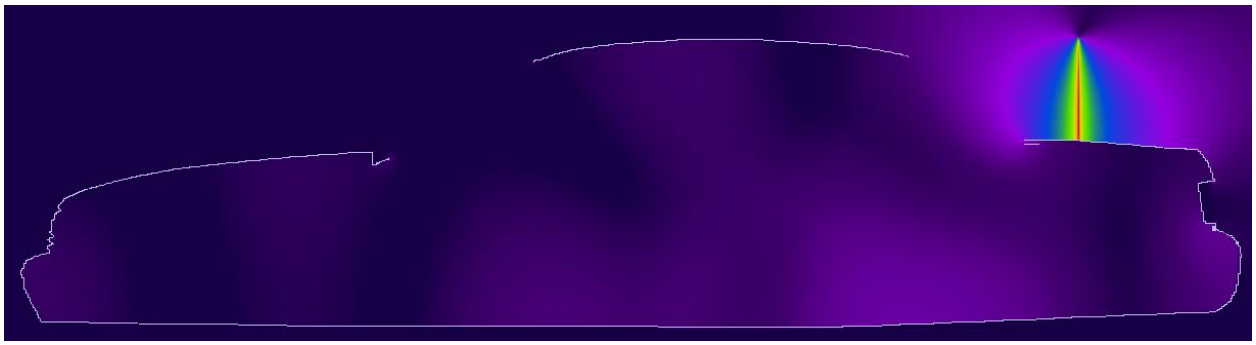
Figure 8. SAR distribution at 167.7000 MHz in the passenger model located on the side of the back seat, produced by the trunk-mount HAD4009A antenna. The contour plot is relative to the plane where the peak 1-g average SAR for this exposure condition occurs.

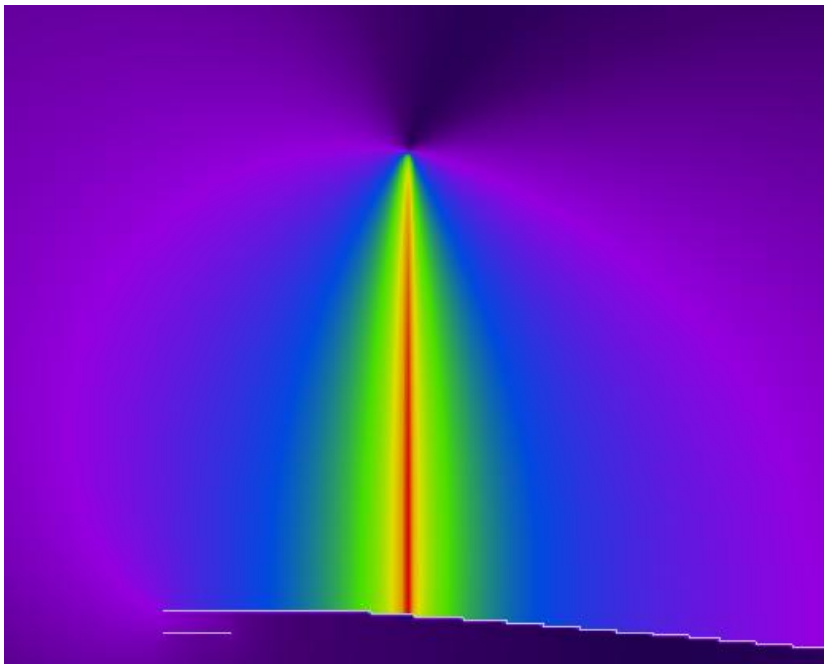
The plots in Figure 9 illustrate the E and H field distributions in the plane of the antenna corresponding to the exposure condition resulting in the SAR distribution in Figure 8.





a)





b)

Figure 9. (a) E-field magnitude distribution corresponding to exposure condition of Figure 8, and (b) H-field magnitude distribution corresponding to exposure condition of Figure 8.

SAR Simulation Reduction Considerations

Per the Response to Inquiry to FCC Tracking Number 528198, for a particular antenna that has more than one configuration which exceeds the MPE limit, SAR evaluations shall begin with the highest MPE configuration (mount location and frequency channel). If the SAR value is less than 50% of the SAR limit, no further SAR evaluation is needed for that antenna.

If the highest MPE configuration SAR value is above 50% of the SAR limit, a subsequent SAR simulation shall be performed on the subsequent highest MPE configuration (ranked in descending percentage of the MPE limit). If the subsequent adjusted SAR value is below 75% of the limit, no further SAR evaluation is needed for that antenna, otherwise further SAR simulations for the remaining antenna configurations shall continue until the adjusted SAR value is below 75% of the SAR limit.

Table 3 and Table 4 below lists all the configurations that did not conform to applicable MPE limits (ranked in descending percentage of the MPE limit), to which the aforementioned SAR simulation reduction considerations were applied.

Table 3: SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4007A	150.8000	HAD4007A	150.8000	162.1	Back Center	0.340	0.019	0.144	0.007	0.484	0.026	
					Back Side	0.267	0.015	0.218	0.010	0.485	0.025	
HAD4007A	150.8000	HAD4008A	162.0000	167.8	Back Center	0.340	0.019	0.038	0.003	0.378	0.022	
					Back Side	0.267	0.015	0.056	0.004	0.324	0.019	
HAD4007A	150.8000	HAD4008A	156.4000	162.3								The highest MPE configuration has SAR below 50% of the limit.
HAD4007A	150.8000	HAD4008A	150.8000	146.7								
HAD4007A	150.8000	HAD4009A	162.0000	159.8	Back Center	0.340	0.019	0.038	0.003	0.378	0.022	
					Back Side	0.267	0.015	0.056	0.004	0.324	0.019	
HAD4007A	150.8000	HAD4009A	165.0125	156.6								The highest MPE configuration has SAR below 50% of the limit.
HAD4007A	150.8000	HAD4009A	173.0125	119.1								
HAD4007A	150.8000	HAD4016A	150.8000	150.8	Back Center	0.340	0.019	0.145	0.007	0.485	0.026	
					Back Side	0.267	0.015	0.217	0.010	0.484	0.025	
HAD4007A	150.8000	HAD4016A	156.4000	144.9								The highest MPE configuration has SAR below 50% of the limit.
HAD4007A	150.8000	HAD4016A	162.0000	141.8								
HAD4007A	150.8000	HAD4017A	165.01250	163.0	Back Center	0.340	0.019	0.025	0.002	0.365	0.022	
					Back Side	0.267	0.015	0.053	0.003	0.320	0.018	
HAD4007A	150.8000	HAD4017A	158.01250	153.6								The highest MPE configuration has SAR below 50% of the limit.
HAD4007A	150.8000	HAD4017A	150.80000	137.1								
HAD4007A	150.8000	HAD4017A	173.01250	116.1								
HAD4007A	150.8000	HAD4021A	165.0125	142.1	Back Center	0.340	0.019	0.025	0.002	0.365	0.022	
					Back Side	0.267	0.015	0.053	0.003	0.320	0.018	
HAD4007A	150.8000	HAD4021A	158.0125	140.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4007A	150.8000	HAD4021A	150.8000	136.8								
HAD4007A	150.8000	HAD4021A	173.0125	107.5								

Table 3 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	HAD4007A	150.8000	225.5	Back Center	0.308	0.018	0.144	0.007	0.452	0.025	
					Back Side	0.670	0.019	0.218	0.010	0.888	0.030	
HAD4008A	156.4000	HAD4007A	150.8000	179.1	Back Center	0.234	0.017	0.144	0.007	0.379	0.024	
					Back Side	0.629	0.018	0.218	0.010	0.847	0.028	
HAD4008A	150.8000	HAD4007A	150.8000	159.7								The 2nd highest MPE configuration has SAR below 75% of the limit.
HAD4008A	162.0000	HAD4008A	162.0000	231.2	Back Center	0.308	0.018	0.038	0.003	0.346	0.021	
					Back Side	0.670	0.019	0.056	0.004	0.726	0.023	
HAD4008A	162.0000	HAD4008A	156.4000	225.7								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4008A	150.8000	210.1								
HAD4008A	156.4000	HAD4008A	162.0000	184.8								
HAD4008A	156.4000	HAD4008A	156.4000	179.3								
HAD4008A	150.8000	HAD4008A	162.0000	165.4								
HAD4008A	156.4000	HAD4008A	150.8000	163.7								
HAD4008A	150.8000	HAD4008A	156.4000	159.9								
HAD4008A	150.8000	HAD4008A	150.8000	144.3								
HAD4008A	162.0000	HAD4009A	162.00000	223.2	Back Center	0.308	0.018	0.038	0.003	0.346	0.021	
					Back Side	0.670	0.019	0.056	0.004	0.726	0.023	
HAD4008A	162.0000	HAD4009A	165.01250	220.0								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4009A	173.01250	182.5								
HAD4008A	156.4000	HAD4009A	162.00000	176.8								
HAD4008A	156.4000	HAD4009A	165.01250	173.6								
HAD4008A	150.8000	HAD4009A	162.00000	157.4								
HAD4008A	150.8000	HAD4009A	165.01250	154.2								
HAD4008A	156.4000	HAD4009A	173.01250	136.1								
HAD4008A	150.8000	HAD4009A	173.01250	116.7								
HAD4008A	162.0000	HAD4016A	150.8000	214.2	Back Center	0.308	0.018	0.145	0.007	0.453	0.025	
					Back Side	0.670	0.019	0.217	0.010	0.887	0.030	
HAD4008A	162.0000	HAD4016A	156.4000	208.3	Back Center	0.308	0.018	0.147	0.006	0.455	0.024	
					Back Side	0.670	0.019	0.132	0.006	0.802	0.025	
HAD4008A	162.0000	HAD4016A	162.0000	205.2								The 2nd highest MPE configuration has SAR below 75% of the limit.
HAD4008A	156.4000	HAD4016A	150.8000	167.8								
HAD4008A	156.4000	HAD4016A	156.4000	161.9								
HAD4008A	156.4000	HAD4016A	162.0000	158.8								
HAD4008A	150.8000	HAD4016A	150.8000	148.4								
HAD4008A	150.8000	HAD4016A	156.4000	142.5								
HAD4008A	150.8000	HAD4016A	162.0000	139.4								

Table 3 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	HAD4017A	165.01250	226.4	Back Center	0.308	0.018	0.025	0.002	0.333	0.021	
					Back Side	0.670	0.019	0.053	0.003	0.723	0.023	
HAD4008A	162.0000	HAD4017A	158.01250	217.0								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4017A	150.80000	200.5								
HAD4008A	156.4000	HAD4017A	165.01250	180.0								
HAD4008A	162.0000	HAD4017A	173.01250	179.5								
HAD4008A	156.4000	HAD4017A	158.01250	170.6								
HAD4008A	150.8000	HAD4017A	165.01250	160.6								
HAD4008A	156.4000	HAD4017A	150.8000	154.1								
HAD4008A	150.8000	HAD4017A	158.0125	151.2								
HAD4008A	150.8000	HAD4017A	150.8000	134.7								
HAD4008A	156.4000	HAD4017A	173.0125	133.1								
HAD4008A	150.8000	HAD4017A	173.0125	113.7								
HAD4008A	162.0000	HAD4021A	165.0125	205.5	Back Center	0.308	0.018	0.025	0.002	0.333	0.020	
					Back Side	0.670	0.019	0.053	0.003	0.723	0.023	
HAD4008A	162.0000	HAD4021A	158.0125	204.2								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4021A	150.8000	200.2								
HAD4008A	162.0000	HAD4021A	173.0125	170.9								
HAD4008A	156.4000	HAD4021A	165.0125	159.1								
HAD4008A	156.4000	HAD4021A	158.0125	157.8								
HAD4008A	156.4000	HAD4021A	150.8000	153.8								
HAD4008A	150.8000	HAD4021A	165.0125	139.7								
HAD4008A	150.8000	HAD4021A	158.0125	138.4								
HAD4008A	150.8000	HAD4021A	150.8000	134.4								
HAD4008A	156.4000	HAD4021A	173.0125	124.5								
HAD4008A	150.8000	HAD4021A	173.0125	105.1								
HAD4008A	162.0000	#HAD4022A	165.0125	159.8	Back Center	0.308	0.018	0.026	0.002	0.334	0.020	
					Back Side	0.670	0.019	0.048	0.003	0.718	0.022	
HAD4008A	162.0000	#HAD4022A	173.0125	148.9	Back Center	0.308	0.018	0.192	0.004	0.500	0.022	
					Back Side	0.670	0.019	0.238	0.012	0.908	0.031	
HAD4008A	162.0000	#HAD4022A	158.0125	142.6	Back Center	0.308	0.018	0.080	0.004	0.388	0.022	
					Back Side	0.670	0.019	0.077	0.004	0.747	0.023	
HAD4008A	162.0000	#HAD4022A	150.8000	133.2	Back Center	0.308	0.018	0.089	0.004	0.397	0.022	
					Back Side	0.670	0.019	0.119	0.005	0.788	0.025	
HAD4008A	156.4000	#HAD4022A	165.0125	113.4	Back Center	0.234	0.017	0.026	0.002	0.260	0.020	
					Back Side	0.629	0.018	0.048	0.003	0.677	0.021	
HAD4008A	156.4000	#HAD4022A	173.0125	102.5	Back Center	0.234	0.017	0.192	0.004	0.426	0.022	
					Back Side	0.629	0.018	0.238	0.012	0.867	0.030	

Antenna length trimmed to frequency

Table 3 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	#RAD4010ARB	173.0125	137.7	Back Center	0.308	0.018	0.113	0.003	0.421	0.021	
					Back Side	0.670	0.019	0.135	0.007	0.805	0.026	
HAD4008A	162.0000	#RAD4010ARB	165.0125	134.5	Back Center	0.308	0.018	0.024	0.002	0.332	0.020	
					Back Side	0.670	0.019	0.032	0.002	0.702	0.021	
HAD4008A	162.0000	#RAD4010ARB	158.0125	128.9	Back Center	0.308	0.018	0.068	0.003	0.376	0.021	
					Back Side	0.670	0.019	0.055	0.003	0.724	0.022	
HAD4008A	162.0000	#RAD4010ARB	150.8000	128.6	Back Center	0.308	0.018	0.073	0.003	0.381	0.021	
					Back Side	0.670	0.019	0.091	0.004	0.760	0.024	
HAD4009A	173.0000	HAD4007A	150.8000	203.0	Back Center	0.191	0.013	0.144	0.007	0.336	0.020	
					Back Side	0.516	0.015	0.218	0.010	0.733	0.025	
HAD4009A	162.0000	HAD4007A	150.8000	191.0								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	167.7000	HAD4007A	150.8000	191.0								
HAD4009A	173.4000	HAD4008A	162.0000	208.7	Back Center	0.191	0.013	0.038	0.003	0.229	0.016	
					Back Side	0.516	0.015	0.056	0.004	0.572	0.019	
HAD4009A	173.4000	HAD4008A	156.4000	203.2								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	162.0000	HAD4008A	162.0000	202.6								
HAD4009A	162.0000	HAD4008A	156.4000	197.1								
HAD4009A	167.7000	HAD4008A	162.0000	196.7								
HAD4009A	167.7000	HAD4008A	156.4000	191.2								
HAD4009A	173.4000	HAD4008A	150.8000	187.6								
HAD4009A	162.0000	HAD4008A	150.8000	181.5								
HAD4009A	167.7000	HAD4008A	150.8000	175.6								
HAD4009A	173.4000	HAD4009A	162.0000	200.7	Back Center	0.191	0.013	0.038	0.003	0.229	0.016	
					Back Side	0.516	0.015	0.056	0.004	0.572	0.019	
HAD4009A	173.4000	HAD4009A	165.0125	197.5								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	162.0000	HAD4009A	162.0000	194.6								
HAD4009A	162.0000	HAD4009A	165.0125	191.4								
HAD4009A	167.7000	HAD4009A	162.0000	188.7								
HAD4009A	167.7000	HAD4009A	165.0125	185.5								
HAD4009A	173.4000	HAD4009A	173.0125	160.0								
HAD4009A	162.0000	HAD4009A	173.0125	153.9								
HAD4009A	167.7000	HAD4009A	173.0125	148.0								

Antenna length trimmed to frequency

Table 3 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	HAD4016A	150.8000	191.7	Back Center	0.191	0.013	0.145	0.007	0.336	0.020	
					Back Side	0.516	0.015	0.217	0.010	0.732	0.025	
HAD4009A	173.4000	HAD4016A	156.4000	185.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	162.0000	HAD4016A	150.8000	185.6								
HAD4009A	173.4000	HAD4016A	162.0000	182.7								
HAD4009A	162.0000	HAD4016A	156.4000	179.7								
HAD4009A	167.7000	HAD4016A	150.8000	179.7								
HAD4009A	162.0000	HAD4016A	162.0000	176.6								
HAD4009A	167.7000	HAD4016A	156.4000	173.8								
HAD4009A	167.7000	HAD4016A	162.0000	170.7								
HAD4009A	173.4000	HAD4017A	165.0125	203.9	Back Center	0.191	0.013	0.025	0.002	0.216	0.016	
					Back Side	0.516	0.015	0.053	0.003	0.568	0.019	
HAD4009A	162.0000	HAD4017A	165.0125	197.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4017A	158.0125	194.5								
HAD4009A	167.7000	HAD4017A	165.0125	191.9								
HAD4009A	162.0000	HAD4017A	158.0125	188.4								
HAD4009A	167.7000	HAD4017A	158.0125	182.5								
HAD4009A	173.4000	HAD4017A	150.8000	178.0								
HAD4009A	162.0000	HAD4017A	150.8000	171.9								
HAD4009A	167.7000	HAD4017A	150.8000	166.0								
HAD4009A	173.4000	HAD4017A	173.0125	157.0								
HAD4009A	162.0000	HAD4017A	173.0125	150.9								
HAD4009A	167.7000	HAD4017A	173.0125	145.0								
HAD4009A	173.4000	HAD4021A	165.0125	183.0	Back Center	0.191	0.013	0.025	0.002	0.216	0.016	
					Back Side	0.516	0.015	0.053	0.003	0.569	0.019	
HAD4009A	173.4000	HAD4021A	158.0125	181.7								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4021A	150.8000	177.7								
HAD4009A	162.0000	HAD4021A	165.0125	176.9								
HAD4009A	162.0000	HAD4021A	158.0125	175.6								
HAD4009A	162.0000	HAD4021A	150.8000	171.6								
HAD4009A	167.7000	HAD4021A	165.0125	171.0								
HAD4009A	167.7000	HAD4021A	158.0125	169.7								
HAD4009A	167.7000	HAD4021A	150.8000	165.7								
HAD4009A	173.4000	HAD4021A	173.0125	148.4								
HAD4009A	162.0000	HAD4021A	173.0125	142.3								
HAD4009A	167.7000	HAD4021A	173.0125	136.4								

Table 3 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (FCC)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	#HAD4022A	165.0125	137.3	Back Center	0.191	0.013	0.026	0.002	0.217	0.016	
					Back Side	0.516	0.015	0.048	0.003	0.563	0.018	
HAD4009A	162.0000	#HAD4022A	165.0125	131.2	Back Center	0.312	0.018	0.026	0.002	0.338	0.021	
					Back Side	0.684	0.020	0.048	0.003	0.732	0.022	
HAD4009A	173.4000	#HAD4022A	173.0125	126.4	Back Center	0.191	0.013	0.192	0.004	0.383	0.017	
					Back Side	0.516	0.015	0.238	0.012	0.754	0.027	
HAD4009A	167.7000	#HAD4022A	165.0125	125.3	Back Center	0.252	0.015	0.026	0.002	0.278	0.017	
					Back Side	0.699	0.016	0.048	0.003	0.747	0.019	
HAD4009A	162.0000	#HAD4022A	173.0125	120.3	Back Center	0.312	0.018	0.192	0.004	0.504	0.022	
					Back Side	0.684	0.020	0.238	0.012	0.922	0.031	
HAD4009A	173.4000	#HAD4022A	158.0125	120.1	Back Center	0.191	0.013	0.080	0.004	0.271	0.017	
					Back Side	0.516	0.015	0.077	0.004	0.593	0.019	
HAD4009A	167.7000	#HAD4022A	173.0125	114.4	Back Center	0.252	0.015	0.192	0.004	0.444	0.019	
					Back Side	0.699	0.016	0.238	0.012	0.938	0.028	
HAD4009A	162.0000	#HAD4022A	158.0125	114.0	Back Center	0.312	0.018	0.080	0.004	0.392	0.022	
					Back Side	0.684	0.020	0.077	0.004	0.761	0.023	
HAD4009A	173.4000	#HAD4022A	150.8000	110.7	Back Center	0.191	0.013	0.089	0.004	0.280	0.017	
					Back Side	0.516	0.015	0.119	0.005	0.634	0.021	
HAD4009A	167.7000	#HAD4022A	158.0125	108.1	Back Center	0.252	0.015	0.080	0.004	0.332	0.019	
					Back Side	0.699	0.016	0.077	0.004	0.776	0.020	
HAD4009A	162.0000	#HAD4022A	150.8000	104.6	Back Center	0.312	0.018	0.089	0.004	0.400	0.022	
					Back Side	0.684	0.020	0.119	0.005	0.802	0.025	
HAD4009A	173.4000	#RAD4010ARB	173.0125	115.2	Back Center	0.191	0.013	0.113	0.003	0.304	0.016	
					Back Side	0.516	0.015	0.135	0.007	0.651	0.022	
HAD4009A	173.4000	#RAD4010ARB	165.0125	112.0	Back Center	0.191	0.013	0.024	0.002	0.215	0.015	
					Back Side	0.516	0.015	0.032	0.002	0.548	0.017	
HAD4009A	162.0000	#RAD4010ARB	173.0125	109.1	Back Center	0.312	0.018	0.113	0.003	0.424	0.021	
					Back Side	0.684	0.020	0.135	0.007	0.819	0.027	
HAD4009A	173.4000	#RAD4010ARB	158.0125	106.4	Back Center	0.191	0.013	0.068	0.003	0.259	0.016	
					Back Side	0.516	0.015	0.055	0.003	0.570	0.018	
HAD4009A	173.4000	#RAD4010ARB	150.8000	106.1	Back Center	0.191	0.013	0.073	0.003	0.264	0.016	
					Back Side	0.516	0.015	0.091	0.004	0.606	0.019	
HAD4009A	162.0000	#RAD4010ARB	165.0125	105.9	Back Center	0.312	0.018	0.024	0.002	0.336	0.020	
					Back Side	0.684	0.020	0.032	0.002	0.716	0.022	
HAD4009A	167.7000	#RAD4010ARB	173.0125	103.2	Back Center	0.252	0.015	0.113	0.003	0.365	0.017	
					Back Side	0.699	0.016	0.135	0.007	0.835	0.023	
HAD4009A	162.0000	#RAD4010ARB	158.0125	100.3	Back Center	0.312	0.018	0.068	0.003	0.379	0.022	
					Back Side	0.684	0.020	0.055	0.003	0.738	0.022	

Antenna length trimmed to frequency

Table 4: SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4006A	140.0000	HAD4006A	140.0000	326.2	Back Center	0.121	0.006	0.316	0.010	0.437	0.017	
					Back Side	0.199	0.008	0.263	0.014	0.462	0.022	
HAD4006A	140.0000	HAD4006A	144.0000	313.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	144.0000	HAD4006A	140.0000	304.5								
HAD4006A	144.0000	HAD4006A	144.0000	292.1								
HAD4006A	140.0000	HAD4007A	150.8000	323.5	Back Center	0.121	0.006	0.144	0.007	0.265	0.013	
					Back Side	0.199	0.008	0.218	0.010	0.417	0.018	
HAD4006A	140.0000	HAD4007A	144.0000	302.4								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	144.0000	HAD4007A	150.8000	301.8								
HAD4006A	144.0000	HAD4007A	144.0000	280.7								
HAD4006A	140.0000	HAD4008A	162.00000	332.4	Back Center	0.121	0.006	0.038	0.003	0.158	0.009	
					Back Side	0.199	0.008	0.056	0.004	0.256	0.012	
HAD4006A	140.0000	HAD4008A	156.40000	323.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	144.0000	HAD4008A	162.00000	310.7								
HAD4006A	144.0000	HAD4008A	156.40000	302.1								
HAD4006A	140.0000	HAD4008A	150.80000	299.7								
HAD4006A	144.0000	HAD4008A	150.80000	278.0								
HAD4006A	140.0000	HAD4009A	162.00000	319.9	Back Center	0.121	0.006	0.038	0.003	0.158	0.009	
					Back Side	0.199	0.008	0.056	0.004	0.256	0.012	
HAD4006A	140.0000	HAD4009A	165.01250	314.9								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	144.0000	HAD4009A	162.00000	298.2								
HAD4006A	144.0000	HAD4009A	165.01250	293.2								
HAD4006A	140.0000	HAD4009A	173.01250	256.9								
HAD4006A	144.0000	HAD4009A	173.01250	235.2								
HAD4006A	140.0000	HAD4016A	150.8000	306.0	Back Center	0.121	0.006	0.145	0.007	0.265	0.013	
					Back Side	0.199	0.008	0.217	0.010	0.416	0.018	
HAD4006A	140.0000	HAD4016A	144.0000	301.2								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	140.0000	HAD4016A	156.4000	296.9								
HAD4006A	140.0000	HAD4016A	162.0000	292.1								
HAD4006A	144.0000	HAD4016A	150.8000	284.3								
HAD4006A	144.0000	HAD4016A	144.0000	279.5								
HAD4006A	144.0000	HAD4016A	156.4000	275.2								
HAD4006A	144.0000	HAD4016A	162.0000	270.4								

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4006A	140.0000	HAD4017A	165.0125	324.9	Back Center	0.121	0.006	0.025	0.002	0.146	0.009	
					Back Side	0.199	0.008	0.053	0.003	0.252	0.011	
HAD4006A	140.0000	HAD4017A	158.0125	310.4								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	144.0000	HAD4017A	165.0125	303.2								
HAD4006A	144.0000	HAD4017A	158.0125	288.7								
HAD4006A	140.0000	HAD4017A	150.8000	284.8								
HAD4006A	144.0000	HAD4017A	150.8000	263.1								
HAD4006A	140.0000	HAD4017A	173.0125	252.2								
HAD4006A	140.0000	HAD4017A	146.0000	244.5								
HAD4006A	144.0000	HAD4017A	173.0125	230.5								
HAD4006A	144.0000	HAD4017A	146.0000	222.8								
HAD4006A	140.0000	HAD4021A	165.0125	292.5	Back Center	0.121	0.006	0.025	0.002	0.145	0.009	
					Back Side	0.199	0.008	0.053	0.003	0.252	0.011	
HAD4006A	140.0000	HAD4021A	158.0125	290.5								The highest MPE configuration has SAR below 50% of the limit.
HAD4006A	140.0000	HAD4021A	150.8000	284.3								
HAD4006A	140.0000	HAD4021A	144.0000	284.1								
HAD4006A	144.0000	HAD4021A	165.0125	270.8								
HAD4006A	144.0000	HAD4021A	158.0125	268.8								
HAD4006A	144.0000	HAD4021A	150.8000	262.6								
HAD4006A	144.0000	HAD4021A	144.0000	262.4								
HAD4006A	140.0000	HAD4021A	173.0125	238.9								
HAD4006A	144.0000	HAD4021A	173.0125	217.2								
HAD4006A	140.0000	#HAD4022A	165.0125	221.7	Back Center	0.121	0.006	0.026	0.002	0.147	0.009	
					Back Side	0.199	0.008	0.048	0.003	0.247	0.011	
HAD4006A	140.0000	#HAD4022A	173.0125	204.8	Back Center	0.121	0.006	0.192	0.004	0.313	0.011	
					Back Side	0.199	0.008	0.238	0.012	0.438	0.020	
HAD4006A	144.0000	#HAD4022A	165.0125	200.0	Back Center	0.336	0.018	0.026	0.002	0.362	0.020	
					Back Side	0.273	0.014	0.048	0.003	0.321	0.017	
HAD4006A	140.0000	#HAD4022A	158.0125	195.0	Back Center	0.121	0.006	0.080	0.004	0.201	0.010	
					Back Side	0.199	0.008	0.077	0.004	0.276	0.012	
HAD4006A	140.0000	#HAD4022A	144.0000	184.5	Back Center	0.121	0.006	0.108	0.006	0.229	0.012	
					Back Side	0.199	0.008	0.124	0.007	0.323	0.015	
HAD4006A	144.0000	#HAD4022A	173.0125	183.1	Back Center	0.336	0.018	0.192	0.004	0.528	0.022	
					Back Side	0.273	0.014	0.238	0.012	0.512	0.026	
HAD4006A	140.0000	#HAD4022A	150.8000	180.5	Back Center	0.121	0.006	0.089	0.004	0.209	0.010	
					Back Side	0.199	0.008	0.119	0.005	0.318	0.013	
HAD4006A	144.0000	#HAD4022A	158.0125	173.3	Back Center	0.336	0.018	0.080	0.004	0.416	0.022	
					Back Side	0.273	0.014	0.077	0.004	0.350	0.018	
HAD4006A	144.0000	#HAD4022A	144.0000	162.8	Back Center	0.336	0.018	0.108	0.006	0.444	0.024	
					Back Side	0.273	0.014	0.124	0.007	0.397	0.021	
HAD4006A	144.0000	#HAD4022A	150.8000	158.8	Back Center	0.34	0.018	0.09	0.004	0.42	0.022	
					Back Side	0.27	0.014	0.12	0.005	0.39	0.019	

Antenna length trimmed to frequency

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4006A	140.0000	#RAD4010ARB	173.0125	187.5	Back Center	0.121	0.006	0.113	0.003	0.233	0.009	
					Back Side	0.199	0.008	0.135	0.007	0.335	0.015	
HAD4006A	140.0000	#RAD4010ARB	165.0125	182.6	Back Center	0.121	0.006	0.024	0.002	0.145	0.008	
					Back Side	0.199	0.008	0.032	0.002	0.232	0.010	
HAD4006A	140.0000	#RAD4010ARB	144.0000	176.8	Back Center	0.121	0.006	0.081	0.004	0.202	0.010	
					Back Side	0.199	0.008	0.093	0.005	0.293	0.013	
HAD4006A	140.0000	#RAD4010ARB	158.0125	173.8	Back Center	0.121	0.006	0.068	0.003	0.188	0.010	
					Back Side	0.199	0.008	0.055	0.003	0.254	0.011	
HAD4006A	140.0000	#RAD4010ARB	150.8000	173.4	Back Center	0.121	0.006	0.073	0.003	0.193	0.010	
					Back Side	0.199	0.008	0.091	0.004	0.290	0.012	
HAD4006A	144.0000	#RAD4010ARB	173.0125	165.8	Back Center	0.336	0.018	0.113	0.003	0.449	0.021	
					Back Side	0.273	0.014	0.135	0.007	0.409	0.021	
HAD4006A	144.0000	#RAD4010ARB	165.0125	160.9	Back Center	0.336	0.018	0.024	0.002	0.360	0.020	
					Back Side	0.273	0.014	0.032	0.002	0.306	0.016	
HAD4006A	144.0000	#RAD4010ARB	144.0000	155.1	Back Center	0.336	0.018	0.081	0.004	0.417	0.022	
					Back Side	0.273	0.014	0.093	0.005	0.366	0.019	
HAD4006A	144.0000	#RAD4010ARB	158.0125	152.1	Back Center	0.336	0.018	0.068	0.003	0.404	0.021	
					Back Side	0.273	0.014	0.055	0.003	0.328	0.017	
HAD4006A	144.0000	#RAD4010ARB	150.8000	151.7	Back Center	0.336	0.018	0.073	0.003	0.409	0.021	
					Back Side	0.273	0.014	0.091	0.004	0.364	0.018	

Antenna length trimmed to frequency

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVRS VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVRS VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4007A	144.0000	HAD4006A	140.00000	287.7	Back Center	0.337	0.018	0.316	0.010	0.653	0.028	
					Back Side	0.273	0.014	0.263	0.014	0.536	0.028	
HAD4007A	144.0000	HAD4006A	144.00000	275.3								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	150.8000	HAD4006A	140.00000	254.4								
HAD4007A	150.8000	HAD4006A	144.00000	242.0								
HAD4007A	144.0000	HAD4007A	150.80000	285.0	Back Center	0.337	0.018	0.144	0.007	0.481	0.025	
					Back Side	0.273	0.014	0.218	0.010	0.491	0.024	
HAD4007A	144.0000	HAD4007A	144.00000	263.9								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	150.8000	HAD4007A	150.80000	251.7								
HAD4007A	150.8000	HAD4007A	144.00000	230.6								
HAD4007A	144.0000	HAD4008A	162.00000	293.9	Back Center	0.337	0.018	0.038	0.003	0.374	0.021	
					Back Side	0.273	0.014	0.056	0.004	0.329	0.018	
HAD4007A	144.0000	HAD4008A	156.40000	285.3								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	144.0000	HAD4008A	150.80000	261.2								
HAD4007A	150.8000	HAD4008A	162.00000	260.6								
HAD4007A	150.8000	HAD4008A	156.40000	252.0								
HAD4007A	150.8000	HAD4008A	150.80000	227.9								
HAD4007A	144.0000	HAD4009A	162.00000	281.4	Back Center	0.337	0.018	0.038	0.003	0.374	0.021	
					Back Side	0.273	0.014	0.056	0.004	0.329	0.018	
HAD4007A	144.0000	HAD4009A	165.01250	276.4								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	150.8000	HAD4009A	162.00000	248.1								
HAD4007A	150.8000	HAD4009A	165.01250	243.1								
HAD4007A	144.0000	HAD4009A	173.01250	218.4								
HAD4007A	150.8000	HAD4009A	173.01250	185.1								
HAD4007A	144.0000	HAD4016A	150.80000	267.5	Back Center	0.337	0.018	0.145	0.007	0.481	0.025	
					Back Side	0.273	0.014	0.217	0.010	0.490	0.024	
HAD4007A	144.0000	HAD4016A	144.00000	262.7								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	144.0000	HAD4016A	156.40000	258.4								
HAD4007A	144.0000	HAD4016A	162.00000	253.6								
HAD4007A	150.8000	HAD4016A	150.80000	234.2								
HAD4007A	150.8000	HAD4016A	144.00000	229.4								
HAD4007A	150.8000	HAD4016A	156.40000	225.1								
HAD4007A	150.8000	HAD4016A	162.00000	220.3								

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVRS VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVRS VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4007A	144.0000	HAD4017A	165.01250	286.4	Back Center	0.337	0.018	0.025	0.002	0.362	0.020	
					Back Side	0.273	0.014	0.053	0.003	0.326	0.017	
HAD4007A	144.0000	HAD4017A	158.01250	271.9								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	150.8000	HAD4017A	165.01250	253.1								
HAD4007A	144.0000	HAD4017A	150.80000	246.3								
HAD4007A	150.8000	HAD4017A	158.01250	238.6								
HAD4007A	144.0000	HAD4017A	173.01250	213.7								
HAD4007A	150.8000	HAD4017A	150.80000	213.0								
HAD4007A	144.0000	HAD4017A	146.00000	206.0								
HAD4007A	150.8000	HAD4017A	173.01250	180.4								
HAD4007A	150.8000	HAD4017A	146.00000	172.7								
HAD4007A	144.0000	HAD4021A	165.01250	254.0	Back Center	0.337	0.018	0.025	0.002	0.361	0.020	
					Back Side	0.273	0.014	0.053	0.003	0.326	0.017	
HAD4007A	144.0000	HAD4021A	158.01250	252.0								The highest MPE configuration has SAR below 50% of the limit
HAD4007A	144.0000	HAD4021A	150.80000	245.8								
HAD4007A	144.0000	HAD4021A	144.00000	245.6								
HAD4007A	150.8000	HAD4021A	165.01250	220.7								
HAD4007A	150.8000	HAD4021A	158.01250	218.7								
HAD4007A	150.8000	HAD4021A	150.80000	212.5								
HAD4007A	150.8000	HAD4021A	144.00000	212.3								
HAD4007A	144.0000	HAD4021A	173.01250	200.4								
HAD4007A	150.8000	HAD4021A	173.01250	167.1								
HAD4007A	144.0000	#HAD4022A	165.01250	183.2	Back Center	0.337	0.018	0.026	0.002	0.363	0.020	
					Back Side	0.273	0.014	0.048	0.003	0.321	0.017	
HAD4007A	144.0000	#HAD4022A	173.01250	166.3	Back Center	0.337	0.018	0.192	0.004	0.529	0.022	
					Back Side	0.273	0.014	0.238	0.012	0.511	0.026	
HAD4007A	144.0000	#HAD4022A	158.01250	156.5	Back Center	0.337	0.018	0.080	0.004	0.417	0.022	
					Back Side	0.273	0.014	0.077	0.004	0.350	0.018	
HAD4007A	150.8000	#HAD4022A	165.01250	149.9	Back Center	0.340	0.019	0.026	0.002	0.366	0.022	
					Back Side	0.267	0.015	0.048	0.003	0.315	0.018	
HAD4007A	144.0000	#HAD4022A	144.00000	146.0	Back Center	0.337	0.018	0.108	0.006	0.445	0.024	
					Back Side	0.273	0.014	0.124	0.007	0.396	0.020	
HAD4007A	144.0000	#HAD4022A	150.80000	142.0	Back Center	0.337	0.018	0.089	0.004	0.425	0.022	
					Back Side	0.273	0.014	0.119	0.005	0.391	0.019	
HAD4007A	150.8000	#HAD4022A	173.01250	133.0	Back Center	0.340	0.019	0.192	0.004	0.532	0.023	
					Back Side	0.267	0.015	0.238	0.012	0.506	0.027	
HAD4007A	150.8000	#HAD4022A	158.01250	123.2	Back Center	0.340	0.019	0.080	0.004	0.420	0.023	
					Back Side	0.267	0.015	0.077	0.004	0.344	0.019	
HAD4007A	150.8000	#HAD4022A	144.00000	112.7	Back Center	0.340	0.019	0.108	0.006	0.448	0.025	
					Back Side	0.267	0.015	0.124	0.007	0.391	0.021	
HAD4007A	150.8000	#HAD4022A	150.80000	108.7	Back Center	0.340	0.019	0.089	0.004	0.429	0.023	
					Back Side	0.267	0.015	0.119	0.005	0.386	0.020	

Antenna length trimmed to frequency.

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4007A	144.0000	#RAD4010ARB	173.0125	149.0	Back Center	0.337	0.018	0.113	0.003	0.449	0.021	
					Back Side	0.273	0.014	0.135	0.007	0.408	0.021	
HAD4007A	144.0000	#RAD4010ARB	165.0125	144.1	Back Center	0.337	0.018	0.068	0.003	0.404	0.021	
					Back Side	0.273	0.014	0.055	0.003	0.328	0.017	
HAD4007A	144.0000	#RAD4010ARB	144.0000	138.3	Back Center	0.337	0.018	0.081	0.004	0.418	0.022	
					Back Side	0.273	0.014	0.093	0.005	0.366	0.019	
HAD4007A	144.0000	#RAD4010ARB	158.0125	135.3	Back Center	0.337	0.018	0.024	0.002	0.361	0.020	
					Back Side	0.273	0.014	0.032	0.002	0.305	0.016	
HAD4007A	144.0000	#RAD4010ARB	150.8000	134.9	Back Center	0.337	0.018	0.073	0.003	0.409	0.021	
					Back Side	0.273	0.014	0.091	0.004	0.363	0.018	
HAD4007A	150.8000	#RAD4010ARB	173.0125	115.7	Back Center	0.340	0.019	0.113	0.003	0.453	0.022	
					Back Side	0.267	0.015	0.135	0.007	0.403	0.022	
HAD4007A	150.8000	#RAD4010ARB	165.0125	110.8	Back Center	0.340	0.019	0.068	0.003	0.408	0.022	
					Back Side	0.267	0.015	0.055	0.003	0.322	0.018	
HAD4007A	150.8000	#RAD4010ARB	144.0000	105.0	Back Center	0.340	0.019	0.081	0.004	0.422	0.023	
					Back Side	0.267	0.015	0.093	0.005	0.360	0.020	
HAD4007A	150.8000	#RAD4010ARB	158.0125	102.0	Back Center	0.340	0.019	0.024	0.002	0.364	0.021	
					Back Side	0.267	0.015	0.032	0.002	0.300	0.017	
HAD4007A	150.8000	#RAD4010ARB	150.8000	101.6	Back Center	0.340	0.019	0.073	0.003	0.413	0.022	
					Back Side	0.267	0.015	0.091	0.004	0.358	0.019	

Antenna length trimmed to frequency

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	HAD4006A	140.0000	352.6	Back Center	0.308	0.018	0.316	0.010	0.624	0.028	
					Back Side	0.670	0.019	0.263	0.014	0.933	0.033	
HAD4008A	162.0000	HAD4006A	144.0000	340.2	Back Center	0.308	0.018	0.197	0.011	0.505	0.030	
					Back Side	0.670	0.019	0.258	0.014	0.927	0.033	
HAD4008A	156.4000	HAD4006A	140.0000	280.7								The 2nd highest MPE configuration has SAR below 75% of the limit.
HAD4008A	156.4000	HAD4006A	144.0000	268.3								
HAD4008A	150.8000	HAD4006A	140.0000	250.6								
HAD4008A	150.8000	HAD4006A	144.0000	238.2								
HAD4008A	162.0000	HAD4007A	150.8000	349.9	Back Center	0.308	0.018	0.144	0.007	0.452	0.025	
					Back Side	0.670	0.019	0.218	0.010	0.888	0.030	
HAD4008A	162.0000	HAD4007A	144.0000	328.8	Back Center	0.308	0.018	0.194	0.011	0.502	0.029	
					Back Side	0.670	0.019	0.259	0.014	0.929	0.033	
HAD4008A	156.4000	HAD4007A	150.8000	278.0								The 2nd highest MPE configuration has SAR below 75% of the limit.
HAD4008A	156.4000	HAD4007A	144.0000	256.9								
HAD4008A	150.8000	HAD4007A	150.8000	247.9								
HAD4008A	150.8000	HAD4007A	144.0000	226.8								
HAD4008A	162.0000	HAD4008A	162.0000	358.8	Back Center	0.308	0.018	0.038	0.003	0.346	0.021	
					Back Side	0.670	0.019	0.056	0.004	0.726	0.023	
HAD4008A	162.0000	HAD4008A	156.4000	350.2								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4008A	150.8000	326.1								
HAD4008A	156.4000	HAD4008A	162.0000	286.9								
HAD4008A	156.4000	HAD4008A	156.4000	278.3								
HAD4008A	150.8000	HAD4008A	162.0000	256.8								
HAD4008A	156.4000	HAD4008A	150.8000	254.2								
HAD4008A	150.8000	HAD4008A	156.4000	248.2								
HAD4008A	150.8000	HAD4008A	150.8000	224.1								
HAD4008A	162.0000	HAD4009A	162.0000	346.3	Back Center	0.308	0.018	0.038	0.003	0.346	0.021	
					Back Side	0.670	0.019	0.056	0.004	0.726	0.023	
HAD4008A	162.0000	HAD4009A	165.0125	341.3								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4009A	173.0125	283.3								
HAD4008A	156.4000	HAD4009A	162.0000	274.4								
HAD4008A	156.4000	HAD4009A	165.0125	269.4								
HAD4008A	150.8000	HAD4009A	162.0000	244.3								
HAD4008A	150.8000	HAD4009A	165.0125	239.3								
HAD4008A	156.4000	HAD4009A	173.0125	211.4								
HAD4008A	150.8000	HAD4009A	173.0125	181.3								

Table 4 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	HAD4016A	150.8000	332.4	Back Center	0.308	0.018	0.145	0.007	0.453	0.025	
					Back Side	0.670	0.019	0.217	0.010	0.887	0.030	
HAD4008A	162.0000	HAD4016A	144.0000	327.6	Back Center	0.308	0.018	0.196	0.011	0.504	0.030	
					Back Side	0.670	0.019	0.258	0.014	0.928	0.033	
HAD4008A	162.0000	HAD4016A	156.4000	323.3								The 2nd highest MPE configuration has SAR below 75% of the limit.
HAD4008A	162.0000	HAD4016A	162.0000	318.5								
HAD4008A	156.4000	HAD4016A	150.8000	260.5								
HAD4008A	156.4000	HAD4016A	144.0000	255.7								
HAD4008A	156.4000	HAD4016A	156.4000	251.4								
HAD4008A	156.4000	HAD4016A	162.0000	246.6								
HAD4008A	150.8000	HAD4016A	150.8000	230.4								
HAD4008A	150.8000	HAD4016A	144.0000	225.6								
HAD4008A	150.8000	HAD4016A	156.4000	221.3								
HAD4008A	150.8000	HAD4016A	162.0000	216.5								
HAD4008A	162.0000	HAD4017A	165.0125	351.3	Back Center	0.308	0.018	0.025	0.002	0.333	0.021	
					Back Side	0.670	0.019	0.053	0.003	0.723	0.023	
HAD4008A	162.0000	HAD4017A	158.0125	336.8								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4017A	150.8000	311.2								
HAD4008A	156.4000	HAD4017A	165.0125	279.4								
HAD4008A	162.0000	HAD4017A	173.0125	278.6								
HAD4008A	162.0000	HAD4017A	146.0000	270.9								
HAD4008A	156.4000	HAD4017A	158.0125	264.9								
HAD4008A	150.8000	HAD4017A	165.0125	249.3								
HAD4008A	156.4000	HAD4017A	150.8000	239.3								
HAD4008A	150.8000	HAD4017A	158.0125	234.8								
HAD4008A	150.8000	HAD4017A	150.8000	209.2								
HAD4008A	156.4000	HAD4017A	173.0125	206.7								
HAD4008A	156.4000	HAD4017A	146.0000	199.0								
HAD4008A	150.8000	HAD4017A	173.0125	176.6								
HAD4008A	150.8000	HAD4017A	146.0000	168.9								
HAD4008A	162.0000	HAD4021A	165.0125	318.9	Back Center	0.308	0.018	0.025	0.002	0.333	0.020	
					Back Side	0.670	0.019	0.053	0.003	0.723	0.023	
HAD4008A	162.0000	HAD4021A	158.0125	316.9								The highest MPE configuration has SAR below 50% of the limit.
HAD4008A	162.0000	HAD4021A	150.8000	310.7								
HAD4008A	162.0000	HAD4021A	144.0000	310.5								
HAD4008A	162.0000	HAD4021A	173.0125	265.3								
HAD4008A	156.4000	HAD4021A	165.0125	247.0								
HAD4008A	156.4000	HAD4021A	158.0125	245.0								
HAD4008A	156.4000	HAD4021A	150.8000	238.8								
HAD4008A	156.4000	HAD4021A	144.0000	238.6								
HAD4008A	150.8000	HAD4021A	165.0125	216.9								
HAD4008A	150.8000	HAD4021A	158.0125	214.9								
HAD4008A	150.8000	HAD4021A	150.8000	208.7								
HAD4008A	150.8000	HAD4021A	144.0000	208.5								
HAD4008A	156.4000	HAD4021A	173.0125	193.4								
HAD4008A	150.8000	HAD4021A	173.0125	163.3								

Table 4 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	#HAD4022A	165.0125	248.1	Back Center	0.308	0.018	0.026	0.002	0.334	0.020	
					Back Side	0.670	0.019	0.048	0.003	0.718	0.022	
HAD4008A	162.0000	#HAD4022A	173.0125	231.2	Back Center	0.308	0.018	0.192	0.004	0.500	0.022	
					Back Side	0.670	0.019	0.238	0.012	0.908	0.031	
HAD4008A	162.0000	#HAD4022A	158.0125	221.4	Back Center	0.308	0.018	0.080	0.004	0.388	0.022	
					Back Side	0.670	0.019	0.077	0.004	0.747	0.023	
HAD4008A	162.0000	#HAD4022A	144.0000	210.9	Back Center	0.308	0.018	0.108	0.006	0.416	0.024	
					Back Side	0.670	0.019	0.124	0.007	0.793	0.026	
HAD4008A	162.0000	#HAD4022A	150.8000	206.9	Back Center	0.308	0.018	0.089	0.004	0.397	0.022	
					Back Side	0.670	0.019	0.119	0.005	0.788	0.025	
HAD4008A	156.4000	#HAD4022A	165.0125	176.2	Back Center	0.234	0.017	0.026	0.002	0.260	0.020	
					Back Side	0.629	0.018	0.048	0.003	0.677	0.021	
HAD4008A	156.4000	#HAD4022A	173.0125	159.3	Back Center	0.234	0.017	0.192	0.004	0.426	0.022	
					Back Side	0.629	0.018	0.238	0.012	0.867	0.030	
HAD4008A	156.4000	#HAD4022A	158.0125	149.5	Back Center	0.234	0.017	0.080	0.004	0.314	0.021	
					Back Side	0.629	0.018	0.077	0.004	0.706	0.022	
HAD4008A	150.8000	#HAD4022A	165.0125	146.1	Back Center	0.345	0.019	0.026	0.002	0.370	0.022	
					Back Side	0.269	0.015	0.048	0.003	0.317	0.018	
HAD4008A	156.4000	#HAD4022A	144.0000	139.0	Back Center	0.234	0.017	0.108	0.006	0.342	0.023	
					Back Side	0.629	0.018	0.124	0.007	0.752	0.024	
HAD4008A	156.4000	#HAD4022A	150.8000	135.0	Back Center	0.234	0.017	0.089	0.004	0.323	0.021	
					Back Side	0.629	0.018	0.119	0.005	0.747	0.023	
HAD4008A	150.8000	#HAD4022A	173.0125	129.2	Back Center	0.345	0.019	0.192	0.004	0.537	0.024	
					Back Side	0.269	0.015	0.238	0.012	0.508	0.027	
HAD4008A	150.8000	#HAD4022A	158.0125	119.4	Back Center	0.345	0.019	0.080	0.004	0.425	0.023	
					Back Side	0.269	0.015	0.077	0.004	0.346	0.019	
HAD4008A	150.8000	#HAD4022A	144.0000	108.9	Back Center	0.345	0.019	0.108	0.006	0.452	0.025	
					Back Side	0.269	0.015	0.124	0.007	0.393	0.022	
HAD4008A	150.8000	#HAD4022A	150.8000	104.9	Back Center	0.345	0.019	0.089	0.004	0.433	0.023	
					Back Side	0.269	0.015	0.119	0.005	0.388	0.020	

Antenna length trimmed to frequency

Table 4 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4008A	162.0000	#RAD4010ARB	173.0125	213.9	Back Center	0.308	0.018	0.113	0.003	0.421	0.021	
					Back Side	0.670	0.019	0.135	0.007	0.805	0.026	
HAD4008A	162.0000	#RAD4010ARB	165.0125	209.0	Back Center	0.308	0.018	0.024	0.002	0.332	0.020	
					Back Side	0.670	0.019	0.032	0.002	0.702	0.021	
HAD4008A	162.0000	#RAD4010ARB	144.0000	203.2	Back Center	0.308	0.018	0.081	0.004	0.390	0.022	
					Back Side	0.670	0.019	0.093	0.005	0.763	0.024	
HAD4008A	162.0000	#RAD4010ARB	158.0125	200.2	Back Center	0.308	0.018	0.068	0.003	0.376	0.021	
					Back Side	0.670	0.019	0.055	0.003	0.724	0.022	
HAD4008A	162.0000	#RAD4010ARB	150.8000	199.8	Back Center	0.308	0.018	0.073	0.003	0.381	0.021	
					Back Side	0.670	0.019	0.091	0.004	0.760	0.024	
HAD4008A	156.4000	#RAD4010ARB	173.0125	142.0	Back Center	0.234	0.017	0.113	0.003	0.347	0.020	
					Back Side	0.629	0.018	0.135	0.007	0.764	0.025	
HAD4008A	156.4000	#RAD4010ARB	165.0125	137.1	Back Center	0.234	0.017	0.024	0.002	0.259	0.019	
					Back Side	0.629	0.018	0.032	0.002	0.661	0.020	
HAD4008A	156.4000	#RAD4010ARB	144.0000	131.3	Back Center	0.234	0.017	0.081	0.004	0.316	0.021	
					Back Side	0.629	0.018	0.093	0.005	0.722	0.023	
HAD4008A	156.4000	#RAD4010ARB	158.0125	128.3	Back Center	0.234	0.017	0.068	0.003	0.302	0.021	
					Back Side	0.629	0.018	0.055	0.003	0.683	0.021	
HAD4008A	156.4000	#RAD4010ARB	150.8000	127.9	Back Center	0.234	0.017	0.073	0.003	0.307	0.021	
					Back Side	0.629	0.018	0.091	0.004	0.719	0.022	
HAD4008A	150.8000	#RAD4010ARB	173.0125	111.9	Back Center	0.345	0.019	0.113	0.003	0.457	0.022	
					Back Side	0.269	0.015	0.135	0.007	0.405	0.022	
HAD4008A	150.8000	#RAD4010ARB	165.0125	107.0	Back Center	0.345	0.019	0.024	0.002	0.369	0.021	
					Back Side	0.269	0.015	0.032	0.002	0.301	0.017	
HAD4008A	150.8000	#RAD4010ARB	144.0000	101.2	Back Center	0.345	0.019	0.081	0.004	0.426	0.023	
					Back Side	0.269	0.015	0.093	0.005	0.362	0.020	

Antenna length trimmed to frequency

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	HAD4006A	140.0000	317.7	Back Center	0.191	0.013	0.316	0.010	0.508	0.024	
					Back Side	0.516	0.015	0.263	0.014	0.779	0.029	
HAD4009A	162.0000	HAD4006A	140.0000	308.3								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4006A	144.0000	305.3								
HAD4009A	167.7000	HAD4006A	140.0000	299.1								
HAD4009A	162.0000	HAD4006A	144.0000	295.9								
HAD4009A	167.7000	HAD4006A	144.0000	286.7								
HAD4009A	173.4000	HAD4007A	150.8000	315.0	Back Center	0.191	0.013	0.144	0.007	0.336	0.020	
					Back Side	0.516	0.015	0.218	0.010	0.733	0.025	
HAD4009A	162.0000	HAD4007A	150.8000	305.6								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	167.7000	HAD4007A	150.8000	296.4								
HAD4009A	173.4000	HAD4007A	144.0000	293.9								
HAD4009A	162.0000	HAD4007A	144.0000	284.5								
HAD4009A	167.7000	HAD4007A	144.0000	275.3								
HAD4009A	173.4000	HAD4008A	162.0000	323.9	Back Center	0.191	0.013	0.038	0.003	0.229	0.016	
					Back Side	0.516	0.015	0.056	0.004	0.572	0.019	
HAD4009A	173.4000	HAD4008A	156.4000	315.3								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	162.0000	HAD4008A	162.0000	314.5								
HAD4009A	162.0000	HAD4008A	156.4000	305.9								
HAD4009A	167.7000	HAD4008A	162.0000	305.3								
HAD4009A	167.7000	HAD4008A	156.4000	296.7								
HAD4009A	173.4000	HAD4008A	150.8000	291.2								
HAD4009A	162.0000	HAD4008A	150.8000	281.8								
HAD4009A	167.7000	HAD4008A	150.8000	272.6								
HAD4009A	173.4000	HAD4009A	162.0000	311.4	Back Center	0.191	0.013	0.038	0.003	0.229	0.016	
					Back Side	0.516	0.015	0.056	0.004	0.572	0.019	
HAD4009A	173.4000	HAD4009A	165.0125	306.4								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	162.0000	HAD4009A	162.0000	302.0								
HAD4009A	162.0000	HAD4009A	165.0125	297.0								
HAD4009A	167.7000	HAD4009A	162.0000	292.8								
HAD4009A	167.7000	HAD4009A	165.0125	287.8								
HAD4009A	173.4000	HAD4009A	173.0125	248.4								
HAD4009A	162.0000	HAD4009A	173.0125	239.0								
HAD4009A	167.7000	HAD4009A	173.0125	229.8								

Table 4 (continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	HAD4016A	150.8000	297.5	Back Center	0.191	0.013	0.145	0.007	0.336	0.020	
					Back Side	0.516	0.015	0.217	0.010	0.732	0.025	
HAD4009A	173.4000	HAD4016A	144.0000	292.7								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4016A	156.4000	288.4								
HAD4009A	162.0000	HAD4016A	150.8000	288.1								
HAD4009A	173.4000	HAD4016A	162.0000	283.6								
HAD4009A	162.0000	HAD4016A	144.0000	283.3								
HAD4009A	162.0000	HAD4016A	156.4000	279.0								
HAD4009A	167.7000	HAD4016A	150.8000	278.9								
HAD4009A	162.0000	HAD4016A	162.0000	274.2								
HAD4009A	167.7000	HAD4016A	144.0000	274.1								
HAD4009A	167.7000	HAD4016A	156.4000	269.8								
HAD4009A	167.7000	HAD4016A	162.0000	265.0								
HAD4009A	173.4000	HAD4017A	165.0125	316.4	Back Center	0.191	0.013	0.025	0.002	0.216	0.016	
					Back Side	0.516	0.015	0.053	0.003	0.568	0.019	
HAD4009A	162.0000	HAD4017A	165.0125	307.0								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4017A	158.0125	301.9								
HAD4009A	167.7000	HAD4017A	165.0125	297.8								
HAD4009A	162.0000	HAD4017A	158.0125	292.5								
HAD4009A	167.7000	HAD4017A	158.0125	283.3								
HAD4009A	173.4000	HAD4017A	150.8000	276.3								
HAD4009A	162.0000	HAD4017A	150.8000	266.9								
HAD4009A	167.7000	HAD4017A	150.8000	257.7								
HAD4009A	173.4000	HAD4017A	173.0125	243.7								
HAD4009A	173.4000	HAD4017A	146.0000	236.0								
HAD4009A	162.0000	HAD4017A	173.0125	234.3								
HAD4009A	162.0000	HAD4017A	146.0000	226.6								
HAD4009A	167.7000	HAD4017A	173.0125	225.1								
HAD4009A	167.7000	HAD4017A	146.0000	217.4								
HAD4009A	173.4000	HAD4021A	165.0125	284.0	Back Center	0.191	0.013	0.025	0.002	0.216	0.016	
					Back Side	0.516	0.015	0.053	0.003	0.569	0.019	
HAD4009A	173.4000	HAD4021A	158.0125	282.0								The highest MPE configuration has SAR below 50% of the limit.
HAD4009A	173.4000	HAD4021A	150.8000	275.8								
HAD4009A	173.4000	HAD4021A	144.0000	275.6								
HAD4009A	162.0000	HAD4021A	165.0125	274.6								
HAD4009A	162.0000	HAD4021A	158.0125	272.6								
HAD4009A	162.0000	HAD4021A	150.8000	266.4								
HAD4009A	162.0000	HAD4021A	144.0000	266.2								
HAD4009A	167.7000	HAD4021A	165.0125	265.4								
HAD4009A	167.7000	HAD4021A	158.0125	263.4								
HAD4009A	167.7000	HAD4021A	150.8000	257.2								
HAD4009A	167.7000	HAD4021A	144.0000	257.0								
HAD4009A	173.4000	HAD4021A	173.0125	230.4								
HAD4009A	162.0000	HAD4021A	173.0125	221.0								
HAD4009A	167.7000	HAD4021A	173.0125	211.8								

Table 4 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	#HAD4022A	165.0125	213.2	Back Center	0.191	0.013	0.026	0.002	0.217	0.016	
					Back Side	0.516	0.015	0.048	0.003	0.563	0.018	
HAD4009A	162.0000	#HAD4022A	165.0125	203.8	Back Center	0.312	0.018	0.026	0.002	0.338	0.021	
					Back Side	0.684	0.020	0.048	0.003	0.732	0.022	
HAD4009A	173.4000	#HAD4022A	173.0125	196.3	Back Center	0.191	0.013	0.192	0.004	0.383	0.017	
					Back Side	0.516	0.015	0.238	0.012	0.754	0.027	
HAD4009A	167.7000	#HAD4022A	165.0125	194.6	Back Center	0.252	0.015	0.026	0.002	0.278	0.017	
					Back Side	0.699	0.016	0.048	0.003	0.747	0.019	
HAD4009A	162.0000	#HAD4022A	173.0125	186.9	Back Center	0.312	0.018	0.192	0.004	0.504	0.022	
					Back Side	0.684	0.020	0.238	0.012	0.922	0.031	
HAD4009A	173.4000	#HAD4022A	158.0125	186.5	Back Center	0.191	0.013	0.080	0.004	0.271	0.017	
					Back Side	0.516	0.015	0.077	0.004	0.593	0.019	
HAD4009A	167.7000	#HAD4022A	173.0125	177.7	Back Center	0.252	0.015	0.192	0.004	0.444	0.019	
					Back Side	0.699	0.016	0.238	0.012	0.938	0.028	
HAD4009A	162.0000	#HAD4022A	158.0125	177.1	Back Center	0.312	0.018	0.080	0.004	0.392	0.022	
					Back Side	0.684	0.020	0.077	0.004	0.761	0.023	
HAD4009A	173.4000	#HAD4022A	144.0000	176.0	Back Center	0.191	0.013	0.108	0.006	0.299	0.019	
					Back Side	0.516	0.015	0.124	0.007	0.639	0.022	
HAD4009A	173.4000	#HAD4022A	150.8000	172.0	Back Center	0.191	0.013	0.089	0.004	0.280	0.017	
					Back Side	0.516	0.015	0.119	0.005	0.634	0.021	
HAD4009A	167.7000	#HAD4022A	158.0125	167.9	Back Center	0.252	0.015	0.080	0.004	0.332	0.019	
					Back Side	0.699	0.016	0.077	0.004	0.776	0.020	
HAD4009A	162.0000	#HAD4022A	144.0000	166.6	Back Center	0.312	0.018	0.108	0.006	0.420	0.024	
					Back Side	0.684	0.020	0.124	0.007	0.807	0.026	
HAD4009A	162.0000	#HAD4022A	150.8000	162.6	Back Center	0.312	0.018	0.089	0.004	0.400	0.022	
					Back Side	0.684	0.020	0.119	0.005	0.802	0.025	
HAD4009A	167.7000	#HAD4022A	144.0000	157.4	Back Center	0.252	0.015	0.108	0.006	0.360	0.020	
					Back Side	0.699	0.016	0.124	0.007	0.823	0.023	
HAD4009A	167.7000	#HAD4022A	150.8000	153.4	Back Center	0.252	0.015	0.089	0.004	0.341	0.019	
					Back Side	0.699	0.016	0.119	0.005	0.818	0.022	

Antenna length trimmed to frequency

Table 4 (Continued): SAR Simulation Reduction Considerations for Back Seat Passenger (ISED Canada)

DVR VHF		APX6500 VHF		Combine MPE (%)	Exposure Location	DVR VHF Adjusted SAR Results (W/kg)		APX6500 VHF Adjusted SAR Results (W/kg)		Combine Adjusted SAR Results (W/kg)		SAR Simulation Reduction
Antenna Kit#	Freq (MHz)	Antenna Kit#	Freq (MHz)			1g	WB	1g	WB	1g	WB	
HAD4009A	173.4000	#RAD4010ARB	173.0125	179.0	Back Center	0.191	0.013	0.113	0.003	0.304	0.016	
					Back Side	0.516	0.015	0.135	0.007	0.651	0.022	
HAD4009A	173.4000	#RAD4010ARB	165.0125	174.1	Back Center	0.191	0.013	0.024	0.002	0.215	0.015	
					Back Side	0.516	0.015	0.032	0.002	0.548	0.017	
HAD4009A	162.0000	#RAD4010ARB	173.0125	169.6	Back Center	0.312	0.018	0.113	0.003	0.424	0.021	
					Back Side	0.684	0.020	0.135	0.007	0.819	0.027	
HAD4009A	173.4000	#RAD4010ARB	144.0000	168.3	Back Center	0.191	0.013	0.081	0.004	0.273	0.017	
					Back Side	0.516	0.015	0.093	0.005	0.609	0.020	
HAD4009A	173.4000	#RAD4010ARB	158.0125	165.3	Back Center	0.191	0.013	0.068	0.003	0.259	0.016	
					Back Side	0.516	0.015	0.055	0.003	0.570	0.018	
HAD4009A	173.4000	#RAD4010ARB	150.8000	164.9	Back Center	0.191	0.013	0.073	0.003	0.264	0.016	
					Back Side	0.516	0.015	0.091	0.004	0.606	0.019	
HAD4009A	162.0000	#RAD4010ARB	165.0125	164.7	Back Center	0.312	0.018	0.024	0.002	0.336	0.020	
					Back Side	0.684	0.020	0.032	0.002	0.716	0.022	
HAD4009A	167.7000	#RAD4010ARB	173.0125	160.4	Back Center	0.252	0.015	0.113	0.003	0.365	0.017	
					Back Side	0.699	0.016	0.135	0.007	0.835	0.023	
HAD4009A	162.0000	#RAD4010ARB	144.0000	158.9	Back Center	0.312	0.018	0.081	0.004	0.393	0.022	
					Back Side	0.684	0.020	0.093	0.005	0.777	0.024	
HAD4009A	162.0000	#RAD4010ARB	158.0125	155.9	Back Center	0.312	0.018	0.068	0.003	0.379	0.022	
					Back Side	0.684	0.020	0.055	0.003	0.738	0.022	
HAD4009A	162.0000	#RAD4010ARB	150.8000	155.5	Back Center	0.312	0.018	0.073	0.003	0.385	0.021	
					Back Side	0.684	0.020	0.091	0.004	0.774	0.024	
HAD4009A	167.7000	#RAD4010ARB	165.0125	155.5	Back Center	0.252	0.015	0.024	0.002	0.276	0.017	
					Back Side	0.699	0.016	0.032	0.002	0.732	0.018	
HAD4009A	167.7000	#RAD4010ARB	144.0000	149.7	Back Center	0.252	0.015	0.081	0.004	0.334	0.019	
					Back Side	0.699	0.016	0.093	0.005	0.792	0.021	
HAD4009A	167.7000	#RAD4010ARB	158.0125	146.7	Back Center	0.252	0.015	0.068	0.003	0.320	0.018	
					Back Side	0.699	0.016	0.055	0.003	0.754	0.019	
HAD4009A	167.7000	#RAD4010ARB	150.8000	146.3	Back Center	0.252	0.015	0.073	0.003	0.325	0.018	
					Back Side	0.699	0.016	0.091	0.004	0.790	0.021	

Antenna length trimmed to frequency

Results of SAR Computations for combined exposure

From all simulated results, the highest peak 1-g SAR values were identified for both DVR VHF and APX6500 mobile radio exposures and then summed up to produce the composite combined peak SAR value for corresponding locations of the human body model. Tables 5 and 6 present the highest combined peak 1-g and whole-body SAR values, respectively.

Table 5: Worst case peak 1-g average SAR for passenger exposure conditions and combined 1-g average SAR from simultaneous exposure.

	Passenger location	DVR VHF [W/kg]	Mobile APX6500 [W/kg]	Total 1-g SAR [W/kg]
FCC	Back Center	0.340	0.192	0.532
	Back Side	0.699	0.238	0.937
ISED Canada	Back Center	0.345	0.316	0.661
	Back Side	0.699	0.263	0.962

Table 6: Worst case peak whole body average SAR for passenger exposure conditions and combined whole body average SAR from simultaneous exposure.

	Passenger location	DVR VHF [W/kg]	Mobile APX6500 [W/kg]	Total WB SAR [W/kg]
FCC	Back Center	0.019	0.007	0.026
	Back Side	0.020	0.012	0.032
ISED Canada	Back Center	0.019	0.011	0.030
	Back Side	0.020	0.014	0.034

In summary, the maximum combined peak 1-g SAR is 0.962 W/kg, less than the 1.6 W/kg limit, while the maximum combined whole-body average SAR is 0.034 W/kg, less than the 0.08 W/kg limit.

Conclusions

Under the test conditions described for evaluating passenger exposure to the RF electromagnetic fields emitted by vehicle-mounted antennas used in conjunction with these products, the present analysis shows that the computed SAR values are compliant with the FCC and ISED Canada general public 1-g and whole body SAR limits.

References

[1] Health Canada Safety Code 6 (2015). Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.

[2] United States Federal Communication Commission, "Evaluating compliance with FCC guidelines for human exposure to radiofrequency electromagnetic fields," OET Bulletin 65 (Ed. 97-01), August 1997

[3] http://www.nlm.nih.gov/research/visible/visible_human.html

[4] ICNIRP (International Commission on Non-Ionising Radiation Protection) 1998. *Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz)*. Health Phys. 74:494–522.

[5] IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. IEEE Std C95.1-2019 (Revision of IEEE Std C95.1-2005/ Incorporates IEEE Std C95.1-2019/Cor 1-2019) .