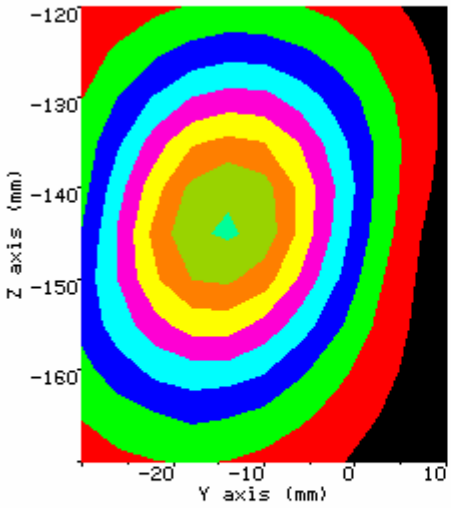
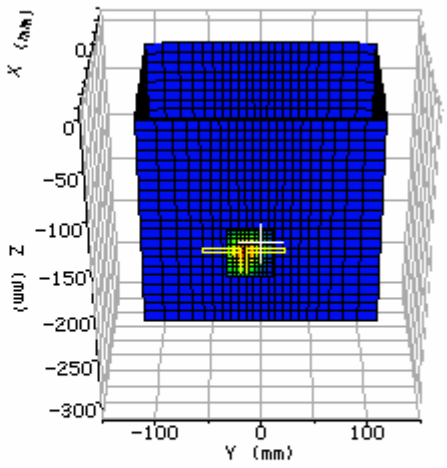
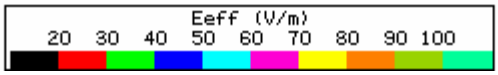
Question 3.

Dell Model	Antenna	Model number	Worst case postion measured	Test report #	SAR W/Kg	Notes
1 - Dell PP05L	Wistron NeWeb	CA5-Q	Aux - 5mm separation bystander	BRQ-001-SAR	0.5708	
2 -Dell PP05L	Hitachi	HFT01-DL01	Main - 5mm separation bystander	BRQ-002-SAR	0.7884	
3 -Dell PP07L	Phycomp	4313 334 01250 Left Antenna. 4313 334 02250 Right Antenna	Aux - 0mm separation bystander	BRQ-003-SAR	0.9	
4 - Dell PP07L	Wistron NeWeb	CAA-C	Aux - 0mm separation bystander	BRQ-003-SAR	0.6	
5 - Dell PP02X	Hitachi	Main Antenna HFT04-DL01-MAIN Aux Antenna HFT04-DL01-AUX	Main - 5mm separation bystander	BRQ-002-SAR	0.9710	
6 - Dell PP02X	Wistron NeWeb	CA9-C	**Main - 5mm separation bystander**	**BRQ-002-SAR**	**1.0998**	**Worst case.**
7 - Dell PP04S	Wistron NeWeb	CA0-S	N/A			NOT tested. Mobile device
8 - Dell PP04S	Hitachi	HFT-06	N/A			NOT tested. Mobile device
9 -Dell PPT	Wistron NeWeb	CAB-A	Main - 0mm separation bystander	BRQ-003-SAR	1.17	<1.0W/Kg at 5mm separation distance
10 - Dell PP10L	Phycomp	4313 351 012501 Main Antenna. 4313 351 032501 Aux Antenna	N/A			NOT tested. Mobile device
11 - Dell PP10L	Wistron NeWeb	EBB-Q	N/A			NOT tested. Mobile device
12 - Dell PP09L	Phycomp	CAN4313 339 012501B (LCD side) CAN4313 339 022501B (Base side)	N/A			NOT tested. Mobile device
12 - Dell PP09L	Hitachi	HFT08-DL-AS (Antenna side) HFT08-DL-MS (Module side)	N/A			NOT tested. Mobile device

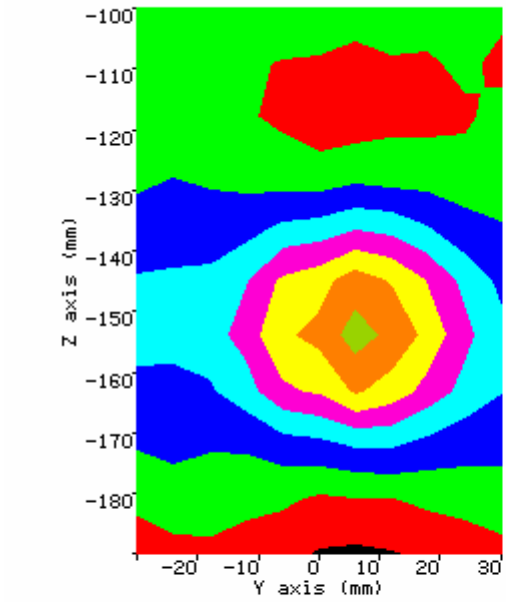
Question 4.

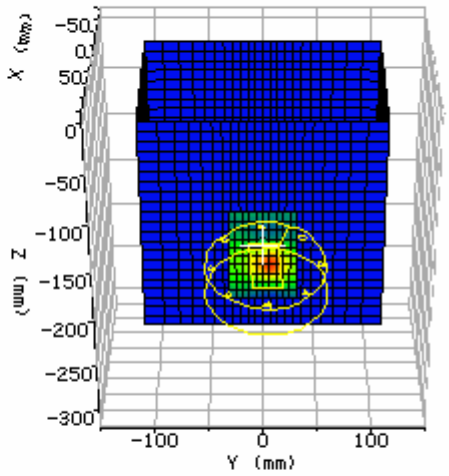


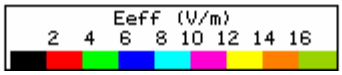




Dipole


-100
-110
-120
-130
-140
-150
-160
-170
-180
Z axis (mm)
-20
-10
0
10
20
30
Y axis (mm)


X (mm)
-50
0
50
0
-50
-100
-150
-200
-250
-300
Z (mm)
-100
0
100
Y (mm)


Eeff (V/m)
2 4 6 8 10 12 14 16

waveguide

Question 5.

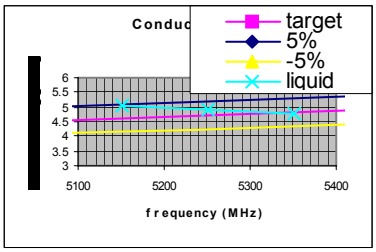
a	*b*	*c*	*d*	*e = f(d,k)*	*f*	*g = c x f / e*	*k*
Uncertainty Component	**Sec.**	**Tol. (± %)**	**Prob. Dist.**	**Div.**	**c_i (1-g)**	**1-g u_i (±%)**	**v_i**
Measurement System							
Probe Calibration	E2.1	3.6	N	1	1	3.6	∞
Axial Isotropy	E2.2	4.23	R	√3	$(1\text{-cp})^{1/2}$	0.00	∞
Hemispherical Isotropy	E2.2	10.7	R	√3	$\sqrt{c_p}$	6.18	∞
Boundary Effect	E2.3	1.7	R	√3	1	0.98	∞
Linearity	E2.4	2.92	R	√3	1	1.69	∞
System Detection Limits	E2.5	0.00	R	√3	1	0.00	∞
Readout Electronics	E2.6	0.00	N	1	1	0.00	∞
Response Time	E2.7	0.00	R	√3	1	0.00	∞
Integration Time	E2.8	0.00	R	√3	1	0.00	∞
RF Ambient Conditions	E6.1	0.00	R	√3	1	0.00	∞
Probe Positioner Mechanical Tolerance	E6.2	1.14	R	√3	1	0.33	∞
Probe Positioning with respect to Phantom Shell	E6.3	2.86	R	√3	1	0.83	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E5.2	3.6	R	√3	1	2.08	∞
Test sample Related							
Test Sample Positioning	E4.2	0.00	N	1	1	0.00	*0*
Device Holder Uncertainty	E4.1	0.00	N	1	1	0.00	*0*
Output Power Variation - SAR drift measurement	6.6.2	5.0	R	√3	1	2.89	∞
Phantom and Tissue Parameters							
Phantom Uncertainty (shape and thickness tolerances)	E3.1	1.43	R	√3	1	0.83	∞
Liquid Conductivity Target - tolerance	E3.2	5.0	R	√3	0.7	2.02	∞
Liquid Conductivity - measurement uncertainty	E3.3	2.0	R	√3	0.7	0.81	∞
Liquid Permittivity Target tolerance	E3.2	5.0	R	√3	0.6	1.73	∞
Liquid Permittivity - measurement uncertainty	E3.3	1.0	R	√3	0.6	0.35	∞
Combined Standard Uncertainty			RSS			**± 8.9%**	
Expanded Uncertainty (95% CONFIDENCE INTERVAL)			*k*= 2.003935			**± 17.9%**	

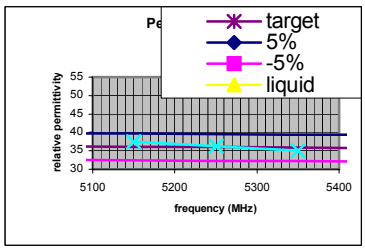
Highlited items related to positioning have been multiplied by 2.

Question 6.
There was not enough room at the bottom of phantom. VPM correction was applied as described in section 6.9 of report.

Question 8.
Head liquid

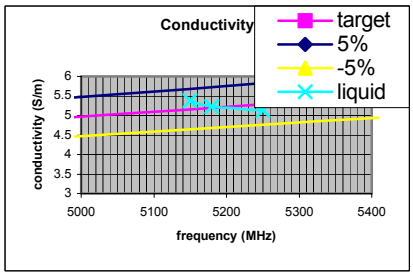
Freq. (MHz)	Amplitude (dB)	Phase (deg)	Rel. Perm.	Condy (S/m)
5150	-46.04	109.26	37.54	5.052
5250	-45.66	111.14	36.21	4.93
5350	-45.12	113.65	35.01	4.789

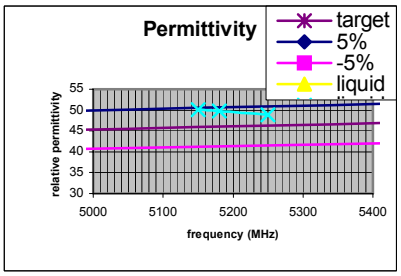




Body liquid

Freq. (MHz)	Amplitude (dB)	Phase (deg)	Rel. Perm.	Condy (S/m)
5150	-44.06	-61.97	50.16	5.373
5180	-43.24	-63.12	49.81	5.235
5250	-42.82	-64.92	48.84	5.131





Question 9.
5mm gap.