Project Number: 02I1265-1

APPLICANT:	Hyundai Curitel Inc.
	San 136-1, Ami-Ri, Bubal-Eup, Ichon-Si
	Kyoungki-do, 467-701, Korea
TRADE NAME:	HYUNDAI
MODEL:	DX-22B
FCC ID:	PP4DX-22B
EUT Type:	Dual mode cellular phone (AMPS/CDMA)
DEVICE CATEGORY:	PORTABLE DEVICES
EXPOSURE CATEGORY:	GENERAL POPULATION/UNCONTROLLED EXPOSURE

SYSTEM VALIDATION DATA

Ambient temperature (°C): 24; Relative Humidity (%): 54Date: April 19, 2002								
Liquid depth (cm): 15.1 Dipole: D900V2 SN: 108 Measured By: Sunny Shih								
Liquid Liquid Parameters Target Value Measured Value Deviation [%]								
Head 900 MHz	20	ε _r	41.5	41.6	0.24	± 5		
		σ	0.97	0.94	-3.1	± 5		
	20	1 g SAR	10.8	10.8	0	± 10		
Note: Please refer to Attachment for the result presentation in plot format.								

MEASUREMENT RESULTS

Ambient	conditions	- Ambient ter	mperature (°C):	23; F	Relative	Humidity (%)): 54			
	/ERIFY									
Type of liquid: Head 835 MHzMeasured date: April 19, 2002										
Liquid Te	emp. [°C]	Parameters	Target Valu	е	Mea	asured	Deviation [%]		_imit [%]	
20.2		ε _r	41.5	41.5		43.0		3	±5	
		σ	0.90		(0.87			±5	
SAR ME	SAR MEASUREMENT									
Model: DX-22B (Modulation: AMPS; Crest factor: 1) Measured date: April 19, 2002									19 , 2002	
Phantom	Section - L	_eft Head					De	pth of liquid	: 15.1 cm	
Frequ	uency	EUT Set-	up conditions	Co	nducted p	ower [dBm]	Liquid	SAR	Limit (W/kg)	
Channel	MHz	Antenna	EUT Position	В	Before	After	Temp [°C]	(W/kg)		
0991	824.04	fixed	Touch	27.2		27.2		0.862	1.6	
0991	824.04	fixed	Touch	27.2		27.15	20.4	0.720	1.6	
0991	824.04	fixed	Tilt		27.2	27.2		0.718	1.6	
0991	824.04	fixed	Tilt	27.2		27.14	20	0.584	1.6	
Phantom	Section -	Right Head								
Frequ	uency	EUT Set-	up conditions	onditions Conducted power [dBm		ower [dBm]	Liquid	SAR	Limit	
Channel	MHz	Antenna	EUT Position	В	Before	After	Temp [°C]	(W/kg)	(W/kg)	
0991	824.04	fixed	Touch	27.2		27.2		0.780	1.6	
0991	824.04	fixed	Touch		27.2	27.18	21	0.748	1.6	
0991	824.04	fixed	Tilt		27.2	27.2		0.695	1.6	
0991	824.04	fixed	Tilt		27.2	27.15	21.0	0.461	1.6	

COMPLIANCE CERTIFICATION SERVICES

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SAR MEASUREMENT								
Model: DX-22B; Modulation: CDMA; Crest factor: 1 Measured date: April 19, 2002								
Phantom Section - Left Head Depth of liquid: 15.1 cm								15.1 cm
Freq	uency	EUT Set-	up conditions	Conducted p	Conducted power [dBm]		SAR	Limit
Channel	MHz	Antenna	EUT Position	Before	After	Temp [°C]	(W/kg)	(W/kg)
1013	824.71	fixed	Touch	25.5	25.4		0.542	1.6
1013	824.71	fixed	Touch	25.5	25.3	20.2	0.467	1.6
1013	824.71	fixed	Tilt	25.5	25.4		0.461	1.6
1013	824.71	fixed	Tilt	25.5 25.35		20.1	0.382	1.6
Phantom	Section - F	Right Head						
Freq	Frequency EUT Set-up conditions Conducted power [dBm]				oower [dBm]	Liquid	SAR	Limit
Channel	MHz	Antenna	EUT Position	Before	After	Temp [°C]	(W/kg)	(W/kg)
0777	848.31	fixed	Touch	25.5	25.4		0.505	1.6
0777	848.31	fixed	Touch	25.5	25.35	21	0.430	1.6
0777	848.31	fixed	Tilt	25.5	25.4		0.433	1.6
0777	848.31	fixed	Tilt	25.5	24.35	21.1	0.320	1.6

Ambient conditions - Ambient temperature (°C): 23; Relative Humidity (%): 56									
Type of liquid: Muscle 835 MHzMeasured date: April 22, 2002									
Liquid Te	emp. [°C]	Parameters	Target Valu	e Me	asured	Deviation	[%]	Limit [%]	
	εr		55.2		55.4	+0.36		±5	
20).7	σ	0.97	(0.94			±5	
SAR ME	ASUREME	NT	·	·			÷		
Model: D	Model: DX-22B; Modulation: AMPS; Crest factor: 1 Measured date: April 22, 2002								
Phantom	Section: F	lat (Body)				Dep	th of liqui	d: 15.1 cm	
Freq	uency	EUT Set-	up conditions	Conducted	Conducted power [dBm]		SAR	Limit	
Channel	MHz	Antenna	Sep. [mm]	Before	After	Temp [°C]	(W/kg)	(W/kg)	
0991	824.04	fixed	With holster	27.2	27.2		0.446	1.6	
0991	824.04	fixed	With holster	27.2	27.15	20.6	0.334	1.6	
Model: D	X-22B; Mo	dulation: CDI	MA; Crest factor	: 1					
Phantom Section: Flat (Body)									
Freq	uency	EUT Set-	up conditions	tions Conducted power [dBm]		Liquid SAF		Limit	
Channel	MHz	Antenna	Sep. [mm]	Before After		Temp [°C]	(W/kg)		
1013	824.71	In	With holster	25.5	25.5		0.307	1.6	
1013	824.71	In	With holster	25.5	24.35	20.5	0.148	1.6	