

Model Information	
FCC ID:	NZLUAHL6B
Model:	UAHL6B
# of Transmitters Simultaneously Transmitting	2
Distance to User (cm)	20
Mobile or Portable	Mobile
Field Strength or Worse Case Output Power	
Radiated Field Strength - 288MHz(dBuV/m)	82.74
Radiated Field Strength - 310MHz(dBuV/m)	83.68
Radiated Field Strength - 365MHz(dBuV/m)	85.68
Radiated Field Strength - 430MHz(dBuV/m)	84.26
Worse Case Output Power - BLE - 2.4GHz (dBm)	1.84
Antenna Gain	
Worse Case Antenna Gain - HL 288MHz (dBi)	-9.24
Worse Case Antenna Gain - HL 310MHz (dBi)	-14.13
Worse Case Antenna Gain - HL 365MHz (dBi)	-6.72
Worse Case Antenna Gain - HL 430MHz (dBi)	-5.11
Worse Case Antenna Gain - BLE (dBi)	4.993

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	288
Measured Field Strength (dBuV/m):	82.74
Distance to User (cm):	20
dBuV/m to V/m	0.014
Worst Case EIRP (mW)	0.056380
Power Density (mW/cm ²)	0.000011
Power Density Limit (mW/cm ²)	0.2
Ratio	5.60817E-05

Exposure Evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$S = (PG) / (4\pi R^2)$

Where S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

Table 1 from 47 CFR 1.1310—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	310
Measured Field Strength (dBuV/m):	83.68
Distance to User (cm):	20
dBuV/m to V/m	0.015
Worst Case EIRP (mW)	0.070004
Power Density (mW/cm ²)	0.000014
Power Density Limit (mW/cm ²)	0.206666667
Ratio	6.73878E-05

Exposure Evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$S = (PG) / 4\pi R^2$

Where S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

Table 1 from 47 CFR 1.1310—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	365
Measured Field Strength (dBuV/m):	85.68
Distance to User (cm):	20
dBuV/m to V/m	0.019
Worst Case EIRP (mW)	0.110948
Power Density (mW/cm ²)	0.000022
Power Density Limit (mW/cm ²)	0.243333333
Ratio	9.07089E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S = (PG) / 4\pi R^2$
Where S: power density
P: power input to the antenna
G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
R: distance to the center of radiation of the antenna

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	Permissible Exposure (MPE)
(ii) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	<30	
1.34-30	824/f	2.19/f	*(180/f ²)	<30	
30-300	27.5	0.073	0.2	<30	
300-1,500			f/1500	<30	
1,500-100,000			1.0	<30	

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	430
Measured Field Strength (dBuV/m):	84.26
Distance to User (cm):	20
dBuV/m to V/m	0.016
Worst Case EIRP (mW)	0.080006
Power Density (mW/cm ²)	0.000016
Power Density Limit (mW/cm ²)	0.286666667
Ratio	5.55232E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S = (PG) / 4\pi R^2$
Where S: power density
P: power input to the antenna
G: power gain of the antenna in the direction of interest relative to an isotropic radiator.
R: distance to the center of radiation of the antenna

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	Permissible Exposure (MPE)
(ii) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	<30	
1.34-30	824/f	2.19/f	*(180/f ²)	<30	
30-300	27.5	0.073	0.2	<30	
300-1,500			f/1500	<30	
1,500-100,000			1.0	<30	

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	2440
Distance to User (cm):	20
Worse Case Output Power (dBm):	1.84
Distance to User (cm):	20
Antenna Gain (dBi)	4.993
Numerical Antenna Gain	3.157184776
Tune Up Adjustment (dB)	1
Worse Case Output Power with tune up tolerance (dBm):	2.84
Worse Case Output Power with tune up tolerance (mW):	1.923
EIRP (mW)	6.071556
Power Density (mW/cm^2)	0.001209
Power Density Limit (mW/cm^2)	1
Ratio	0.00120851

Exposure Evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (PG) / 4\pi R^2$$

Where S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	$824/f$	$2.19/f$	*($180/f^2$)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			$f/1500$	<30
1,500-100,000			1.0	<30

Permissible Exposure (MPE)

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

FCC Total Exposure Ratio	
Specification/Frequency Band	Worse Case
15.231 - 286-440MHz	0.000091
15.247 - 2.4GHz (BLE)	0.001209
Total Exposure Ratio=	0.001299