Model Information	
FCC ID:	NZLUAHL6D
Model:	UAHL6D
# of Transmitters Simultaneously Transmitting	3
Distance to User (cm)	20
Mobile or Portable	Mobile
Field Strength or Worse Case Output Power	
Radiated Field Strength - 288MHz(dBuV/m)	81.79
Radiated Field Strength - 310MHz(dBuV/m)	83.88
Radiated Field Strength - 365MHz(dBuV/m)	84.1
Radiated Field Strength - 430MHz(dBuV/m)	86.17
Worse Case Output Power - 902-928MHz (dBm)	-5.32
Worse Case Output Power - BLE - 2.4GHz (dBm)	6.88
Antenna Gain	
Worse Case Antenna Gain - HL 288MHz (dBi)	-26.75
Worse Case Antenna Gain - HL 310MHz (dBi)	-22.77
Worse Case Antenna Gain - HL 365MHz (dBi)	-19.11
Worse Case Antenna Gain - HL 430MHz (dBi)	-10.1
Worse Case Antenna Gain - HL High Band (dBi)	13.16
Worse Case Antenna Gain - BLE (dBi)	-3.04

Requirements				
Requirements				
Distance to User (cm):	d <u>≥</u> 20			
Exposure Condition:	Mobile			
	Model Information			
Frequency (MHz):	288			
Measured Field Strength				
(dBuV/m):	81.79			
Distance to User (cm):	20			
dBuV/m to V/m	0.012			
Worst Case EIRP (mW)	0.045302			
Power Density (mW/cm²)	0.00009			
Power Density Limit				
(mW/cm ²)	0.2			
Ratio	4.50631E-05			

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

S=(PG)/4πR 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)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limi	ts for Genera	l Population/U	ncontrolled Ex	posure
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)

Requirements				
Distance to User (cm):	d <u>≥</u> 20			
Exposure Condition:	Mobile			
	Model Information			
Frequency (MHz):	310			
Measured Field Strength				
(dBuV/m):	83.88			
Distance to User (cm):	20			
dBuV/m to V/m	0.016			
Worst Case EIRP (mW)	0.073303			
Power Density (mW/cm²)	0.000015			
Power Density Limit				
(mW/cm²)	0.20666667			
Ratio	7.05636E-05			

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

S=(PG)/4πR 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/cm²)	Averaging time (minutes)
(ii) Lim	its for Genera	l Population/U	ncontrolled Ex	posure
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.

	- · ·			
Requirements				
Distance to User (cm):	d <u>≥</u> 20			
Exposure Condition:	Mobile			
	Model Information			
Frequency (MHz):	365			
Measured Field Strength				
(dBuV/m):	84.10			
Distance to User (cm):	20			
dBuV/m to V/m	0.016			
Worst Case EIRP (mW)	0.077112			
Power Density (mW/cm²)	0.000015			
Power Density Limit				
(mW/cm²)	0.24333333			
Ratio	6.30449E-05			

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

S=(PG)/4πR 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)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limi	its for Genera	l Population/U	ncontrolled E	posure
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)

	Dturana anta
	Requirements
Distance to User (cm):	d <u>≥</u> 20
Exposure Condition:	Mobile
	Model Information
Frequency (MHz):	430
Measured Field Strength	
(dBuV/m):	86.17
Distance to User (cm):	20
dBuV/m to V/m	0.020
Worst Case EIRP (mW)	0.124200
Power Density (mW/cm²)	0.000025
Power Density Limit	
(mW/cm²)	0.28666667
Ratio	8.61934E-05

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

S=(PG)/4πR 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)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limi	ts for Genera	l Population/U	ncontrolled Ex	posure
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)

Requirements				
	•			
Distance to User (cm):	d <u>></u> 20			
Exposure Condition:	Mobile			
	Model Information			
Frequency (MHz):	902			
Distance to User (cm):	20			
Worse Case Output Power				
(dBm):	-5.32			
Distance to User (cm):	20.1			
Antenna Gain (dBi)	13.16			
Numerical Antenna Gain	20.70141349			
Tune Up Adjustment (dB)	1			
Worse Case Output Power				
with tune up tolerance (dBm):	-4.32			
Worse Case Output Power	0.370			
with tune up tolerance (mW):				
EIRP (mW)	7.655966			
Power Density (mW/cm ²)	0.001524			
Power Density Limit				
(mW/cm²)	0.601333333			
Ratio	0.002534166			

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

S=(PG)/4πR 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

range (MHz)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averagin time (minutes
(ii) Limi	its for Genera	Population/U	Incontrolled Ex	cposure
0.3-1.34	614	1.63	*(100)	<3
1.34-30	824/f	2.19/f	*(180/f ²)	<
30-300	27.5	0.073	0.2	<
300-1,500			f/1500	<
1,500- 100,000			1.0	<;

Permissible Exposure (MPE)

	S			
Requirements				
Distance to User (cm):	d <u>></u> 20			
Exposure Condition:	Mobile			
	Model Information			
Frequency (MHz):	2402			
Distance to User (cm):	20			
Worse Case Output Power				
(dBm):	6.88			
Distance to User (cm):	20			
Antenna Gain (dBi)	-3.04			
Numerical Antenna Gain	0.496592321			
Tune Up Adjustment (dB)	1			
Worse Case Output Power				
with tune up tolerance (dBm):	7.88			
Worse Case Output Power	6.138			
with tune up tolerance (mW):				
EIRP (mW)	3.047895			
Power Density (mW/cm ²)	0.001222			
Power Density Limit				
(mW/cm²)	1			
Ratio	0.00122166			

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

S=(PG)/4πR 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)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(ii) Lim	its for Genera	l Population/U	Incontrolled E	cposure
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)

FCC Total Exposure Ratio				
Specification/Frequency Band	Worse Case			
15.231 - 286-440MHz	0.000086			
15.247 - 902-928MHz	0.002534			
15.247 - 2.4GHz (BLE)	0.001222			
Total Exposure Ratio=	0.004253			