Model Information	
FCC ID:	NZLUAHL5T
Model:	UAHL5T
# 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)	83.04
Radiated Field Strength - 310MHz(dBuV/m)	83.95
Radiated Field Strength - 365MHz(dBuV/m)	84.67
Radiated Field Strength - 430MHz(dBuV/m)	89.22
Worse Case Output Power - 902-928MHz (dBm)	-3.234
Antenna Gain	
Worse Case Antenna Gain - HL 288MHz (dBi)	-16.94
Worse Case Antenna Gain - HL 310MHz (dBi)	-16.34
Worse Case Antenna Gain - HL 365MHz (dBi)	-8.09
Worse Case Antenna Gain - HL 430MHz (dBi)	0.152
Worse Case Antenna Gain - HL High Band (dBi)	2.76

	Requirements
Distance to User (cm):	d <u>≥</u> 20
Exposure Condition:	Mobile
	Model Information
Frequency (MHz):	288
Measured Field Strength	
(dBuV/m):	83.04
Distance to User (cm):	20
dBuV/m to V/m	0.014
Worst Case EIRP (mW)	0.060412
Power Density (mW/cm²)	0.000012
• • • • • • • • • • • • • • • • • • • •	0.000012
Power Density Limit	
(mW/cm ²)	0.2
Ratio	6.00927E-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	Population/U	ncontrolled Ex	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

	Requirements
Distance to User (cm):	d <u>≥</u> 20
Exposure Condition:	Mobile
	Model Information
Frequency (MHz):	310
Measured Field Strength	
(dBuV/m):	83.95
Distance to User (cm):	20
dBuV/m to V/m	0.016
Worst Case EIRP (mW)	0.074494
Power Density (mW/cm²)	0.000015
Power Density Limit	
(mW/cm²)	0.206666667
Ratio	7.17102E-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)	field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limi	ts for Genera	Population/U	Incontrolled 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):	84.67	
Distance to User (cm):	20	
dBuV/m to V/m	0.017	
Worst Case EIRP (mW)	0.087927	
Power Density (mW/cm²)	0.000017	
Power Density Limit		
(mW/cm ²)	0.24333333	
Ratio	7.18869E-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	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

	Requirements
Distance to User (cm):	d <u>≥</u> 20
Exposure Condition:	Mobile
	Model Information
Frequency (MHz):	430
Measured Field Strength	
(dBuV/m):	89.22
Distance to User (cm):	20
dBuV/m to V/m	0.029
Worst Case EIRP (mW)	0.250681
Power Density (mW/cm²)	0.000050
Power Density Limit	
(mW/cm²)	0.28666667
Ratio	0.00017397

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)	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	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

Requirements				
Distance to User (cm):	d <u>></u> 20			
Exposure Condition:	Mobile			
ı	Model Information			
Frequency (MHz):	902.25			
Distance to User (cm):	20			
Worse Case Output Power				
(dBm):	-3.23			
Distance to User (cm):	20			
Antenna Gain (dBi)	2.76			
Numerical Antenna Gain	1.887991349			
Tune Up Adjustment (dB)	1			
Worse Case Output Power				
with tune up tolerance				
(dBm):	-2.23			
Worse Case Output Power	0.598			
with tune up tolerance (mW):				
EIRP (mW)	1.128756			
Power Density (mW/cm²)	0.000225			
Power Density Limit				
(mW/cm²)	0.6015			
Ratio	0.000373521			

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	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.

FCC Total Exposure Ratio			
Specification/Frequency Band Worse Case			
15.231 - 286-440MHz	0.000174		
15.247 - 902-928MHz	0.000374		
Total Exposure Ratio=	0.000547		