SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

10. RADIO FREQUENCY EXPOSURE

10.1. Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

Table: Limits for General Population/Uncontrolled Exposure

Frequency Range	Power Density (S)	
(MHz)	(mW/cm2)	
0.3–1.34	*(100)	
1.34–30	*(180/f ²)	
30–300	0.2	
300–1500	f/1500	
1500–100,000	1.0	

F = frequency in MHz

* = Plane-wave equivalent power density

Maximum Permissible Exposure

The MPE was calculated at 20cm to show compliance with the power density limit.

- $S = PG/4\pi R^2$
- S = Power density
- P = power input to antenna
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator
- \mathbf{R} = distance to the center of radiation of the antenna.

Note:

- 1. Manufacturer declared that the maximum antenna gain is 0dBi(Max.).
- 2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.
- 3. Only record worst case data.

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FCC ID: 2ANCNH-RF801 Report No.: LCS170803007AE

Test Mode	Channel	Frequency (MHz)	Power (dBm, Peak)	Power Tune Up (dBm, Peak)
GFSK	Low	2402	-3.536	-3.0 ± 1.0
	Middle	2441	0.506	0 ± 1.0
	High	2480	0.151	0 ± 1.0

10.2 Test Results

Test Mode	Channel	Max. Tune Up Power (dBm, Peak)	Max. Tune Up Power (mW)	MPE (mW/cm ²)	Limit (mW/cm ²)
GFSK	Low	-2.0	0.63	0.0001	1.0
	Middle	1.0	1.26	0.0003	1.0
	High	1.0	1.26	0.0003	1.0

Antenna Gain (typical): 0dBi, 1.00 (numeric)

Prediction distance: >=20cm

The power density level worst case at 20 cm is below the uncontrolled exposure limit.