

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	ANAFI Ai
Model Name	ANAFI Ai
FCC ID	2AG6IANAFIAI

2. EVALUATION METHOD AND LIMIT

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

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

Where:

S=power density

P=power input to 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

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

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Mode	Frequency (MHz)	Antenna Gain (linear)	Output Power (dBm)	Output Power (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)
LTE BAND 2	1900	2.24	21.45	139.64	0.0622	1.00
LTE BAND 4	1754.3	1.26	20.57	114.02	0.0286	1.17
LTE BAND 5	848.3	1.35	20.53	112.98	0.0303	0.57
LTE BAND 7	2502.5	1.58	21.40	138.04	0.0434	1.00
LTE BAND 12	707.5	1.00	21.75	149.62	0.0298	0.47
LTE BAND 13	779.5	1.41	21.69	147.57	0.0414	0.52
LTE BAND 14	793.0	1.45	21.68	147.23	0.0425	0.53
LTE BAND 17	706.5	1.00	20.35	108.39	0.0216	0.47
LTE BAND 25	1882.5	2.24	21.64	145.88	0.0650	1.00
LTE BAND 26A	825.5	1.32	21.69	147.57	0.0388	0.55
LTE BAND 26B	819.0	1.32	21.53	142.23	0.0374	0.55
LTE BAND 30	2307.5	1.48	20.77	119.40	0.0352	1.00
LTE BAND 38	2595	1.41	21.30	134.90	0.0378	1.00
LTE BAND 41	2501.0	1.58	23.68	233.35	0.0734	1.00
LTE BAND 66	1745.0	1.58	21.47	140.28	0.0441	1.16

Mode	Frequency (MHz)	Antenna Gain (linear)	Output Power (dBm)	Output Power (mW)	Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)
2.4GWIFI 802.11b	2462	2.04	24.43	277.33	0.1126	1.00
5.8GWIFI OFDM with data rate 6	5785	3.16	24.83	304.09	0.1912	1.0
2.4GWIFI_MIMO 10MHz	2412	2.04	26.71	468.81	0.0002	1.0
2.4GWIFI_MIMO 20MHz	2462	1.82	26.86	485.29	0.0002	1.0
5.8GWIFI_MIMO 10MHz	5745	1.84	27.19	523.60	0.0002	1.00
5.8GWIFI_MIMO 20MHz	5785	3.24	27.53	566.24	0.0004	1.00

Note:

1. Only the worst case recorded.

The LTE BAND 41 and 2.4GHz WIFI MIMO band and 5GHz WIFI MIMO can transmit simultaneously: $0.0734/1+0.0002/1+0.0004/1=0.0741<1$

4.conclusion

Compliance the RF exposure requirement

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