

EXHIBIT C - RF EXPOSURE EVALUATION

Maximum Permissible Exposure (MPE)

Applicable Standard

According to subpart §1.1310 systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (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

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

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

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Operation Mode	Frequency (MHz)	Antenna Gain [▲]		Conducted output power including Tune-up Tolerance [▲]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
WCDMA B2	1850-1910	3.2	2.09	24.5	281.84	20.00	0.117	1.0
WCDMA B4	1710-1755	2.0	1.58	24.5	281.84	20.00	0.089	1.0
WCDMA B5	824-849	1.8	1.51	24.5	281.84	20.00	0.085	0.5
LTE B2	1850-1910	3.2	2.09	24.0	251.19	20.00	0.104	1.0
LTE B4	1710-1755	2.0	1.58	24.0	251.19	20.00	0.079	1.0
LTE B5	824-849	1.8	1.51	24.0	251.19	20.00	0.076	0.5
LTE B12	699-716	-3.5	0.45	24.0	251.19	20.00	0.022	0.5
LTE B13	777-787	-1.2	0.76	24.0	251.19	20.00	0.038	0.5
LTE B17	704-716	-3.5	0.45	24.0	251.19	20.00	0.022	0.5
LTE B66	1710-1780	2.5	1.78	24.0	251.19	20.00	0.089	1.0
LTE B71	663-698	-3.5	0.45	24.0	251.19	20.00	0.022	0.4
BT	2402-2480	2.9	1.95	7.5	5.62	20.00	0.002	1.0
BLE	2402-2480	2.9	1.95	6.5	4.47	20.00	0.002	1.0
2.4G Wifi	2412-2462	2.9	1.95	23.0	199.53	20.00	0.077	1.0
5G Wifi	5150-5250	3.29	2.13	13.0	19.95	20.00	0.008	1.0
	5250-5350	2.38	1.73	15.5	35.48	20.00	0.012	1.0
	5470-5725	1.28	1.34	12.5	17.78	20.00	0.005	1.0
	5725-5850	1.75	1.50	14.0	25.12	20.00	0.007	1.0
NFC	13.56	/	/	-32.28	0.001	20.00	<<0.001	0.98
RFID Transmitter	13.56	/	/	-43.17	0.001	20.00	<<0.001	0.98

Note:

1. NFC field strength is 62.92dBμV/m @ 3m = -32.28 dBm(0.001mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

2. The device built in a certified WWAN module, FCC ID: ZMONL668AM00, certified on 2018/11/29.

3. The device built in a certified RFID Transmitter, FCC ID: 2AK6L-UNOMINI, certified on 2024/12/10. RFID field strength is 52.03dBμV/m @ 3m = -43.17 dBm(0.00005mW) EIRP. That equal to antenna gain is 0dBi and used the EIRP value as conducted power.

4. The device built in a certified Bluetooth&Wifi module, FCC ID: 2AZGW-AP6256, certified on 2026/06/16.

Note:

The Antenna Gain and Conducted output power including Tune-up Tolerance provided by manufacturer.

2.4G Wifi, RFID Transmitter and WWAN can transmit simultaneously with NFC:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

$$= S_{2.4G\ Wifi} / S_{limit-2.4G\ Wifi} + S_{WWAN} / S_{limit- WWAN} + S_{NFC} / S_{limit- NFC} + S_{RFID\ Transmitter} / S_{limit- RFID\ Transmitter}$$

$$= 0.077/1.0 + 0.076/0.5 + 0.001/0.98 + 0.001/0.98$$

$$= 0.23$$

$$< 1$$

Result: Compliant. The devices meet FCC MPE at 20 cm distance