



August 28, 2026

TUV SUD America CB
10 Centennial Drive FL2
Peabody, MA 01960

Attention: Director of Certification

RE: Analysis of RF Exposure 47 CFR FCC Part 2.1091 and RSS-102 Issue 6 December 15, 2025

FCC ID: AFJ460100
ISED Certification Number IC: 202D-460100

1. General Information:

Applicant: Icom Inc.
Exposure Conditions: Mobile Device

2. FCC Limits

Limits for General Population/Uncontrolled Exposure (Title 47 Subpart J §2.1091 and KDB 447498 D01 referring to limits under §1.1310)

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Electric Field Strength (H) (A/m)	Power Density (S) (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*



America

3. **ISED Limits:**

Limits for Devices Used by the General Public (Uncontrolled Environment (RSS-102 Issue 6 December 15, 2025)

Frequency Range (MHz)	Electric Field Strength (V/m rms)	Magnetic Field (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003 - 10 ²¹	83	90	-	Instantaneous
0.1 - 10	-	0.73/f	-	6**
1.1 - 10	87/f ^{0.5}	-	-	6**
10 - 20	27.46	0.0728	2	6
20 - 48	-58.07/f ^{0.25}	0.1540/f ^{0.25}	8.944/f ^{0.5}	6
48 - 300	22.06	0.05852	1.291	6
300 - 6000	3.142 f ^{0.3417}	0.008335 f ^{0.3417}	0.02619 f ^{0.6834}	6
6000 - 15000	61.4	0.163	10	6
15000 - 150000	61.4	0.163	10	616000/f ^{1.2}
150000 - 300000	0.158f ^{0.5}	4.21 x 10 ⁻⁴ f ^{0.5}	6.67 x 10 ⁻⁵ f	616000/f ^{1.2}

f is frequency in MHz

**Based on nerve stimulation (NS)*

*** Based on specific absorption rate (SAR)*

4. **MPE Calculation Summary using 246cm separation distance:**

ISED Limits were used since are stricter for these frequencies than FCC Limits.

Only worst-case power wise presented as representative configuration frequency.

Output power worst case was taken from 721021487A_iCom FCC Part 80E_RSS-182 iCom Inc.Test Report Test Report.

Output Power (dBm)	Power Density at 246 cm (mW/cm ²)	ISED Limit (mW/cm ²)
43.9	0.12820	0.1291
EUT Complies		

5. **ISED Mobile Calculation using a 246cm separation distance:**

Using Power Density formula:

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic

R = distance to the center of radiation of the antenna



MPE Results (Presented Results are with a Source Based time of 50% at 245 cm distance)

Maximum peak output power at antenna input terminal:	43.90	(dBm)
Maximum peak output power at antenna input terminal:	24547.09	(mW)
Maximum Antenna Gain	9	(dBi)
Maximum Antenna Gain	7.943	(numeric)
Prediction distance:	246	(cm)
Source Based Time Average Duty Cycle:	50	(%)
Prediction frequency:	157.425	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.1291	(mW/cm ²)
Power density at prediction frequency:	0.12820	(mW/cm ²)
Power density at prediction frequency:	1.282	(W/m ²)
Margin of Compliance:	-0.03	(dB)

Sincerely,

A handwritten signature in black ink, appearing to read 'Omar Castillo', positioned above a horizontal line.

Omar Castillo

Name

Authorized Signatory

Title: Senior EMC / Wireless Test Engineer