

RF EXPOSURE EVALUATION

EUT Specification

EUT	Jupiter2 AI Kit
Model Number	SS24-RE-VG
FCC ID	2A36J-SS24-RE-VG
Antenna gain (Max)	LTE Band 2: Maximum Gain is 3.55dBi; LTE Band 4: Maximum Gain is 3.55dBi; LTE Band 5: Maximum Gain is 2.53dBi. LTE Band 7: Maximum Gain is 3.05dBi; LTE Band 19: Maximum Gain is 2.53dBi. LTE Band 25: Maximum Gain is 3.55dBi; LTE Band 26: Maximum Gain is 2.53dBi. LTE Band 38: Maximum Gain is 3.05dBi; LTE Band 41: Maximum Gain is 3.05dBi. LTE Band 66: Maximum Gain is 3.55dBi.
Operation Frequency	LTE Band 2: 1850 ~ 1910 MHz; LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz; LTE Band 7: 2500 ~2570 MHz LTE Band 19: 830 ~845MHz; LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz; LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2535MHz ~ 2655MHz; LTE Band 66: 1710 MHz ~ 1780 MHz
Input Rating	DC 12V from Switching Power Supply with AC 120V/60Hz

Test Requirement:

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF)

Radiation as specified in §1.1307(b)

KDB Test Methodology: KDB 447498 D01v06

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

11.1 Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm=20cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

11.2 Measurement Result

Mode	Frequency (MHz)	Prediction distance (cm)	Conducted Power (dBm)	Maximum Tune-up (dBm)	MPE (mW/cm ²)	Limit (mW/cm ²)	SAR Test Exclusion
LTE Band 2	1850-1910	20	22.90	24	0.113169	1	Yes
LTE Band 4	1710-1755	20	23.33	24	0.113169	1	Yes
LTE Band 5	824-849	20	23.03	24	0.089481	0.549	Yes
LTE Band 7	2500-2570	20	21.99	23	0.080118	1	Yes
LTE Band 19	830-845	20	23.11	24	0.089481	0.553	Yes
LTE Band 25	1850-1915	20	24.88	26	0.179361	1	Yes
LTE Band 26 (814-824MHz)	814-824	20	24.48	25	0.112649	0.542	Yes
LTE Band 26 (824-849MHz)	824-849	20	24.48	25	0.112649	0.549	Yes
LTE Band 38	2570-2620	20	21.55	23	0.080118	1	Yes
LTE Band 41	2535-2655	20	22.09	23	0.080118	1	Yes
LTE Band 66	1710-1780	20	23.92	25	0.142472	1	Yes

Only show the Max EIRP for each mode above

LTE Band 2: Maximum Gain is 3.55dBi;

LTE Band 4: Maximum Gain is 3.55dBi; LTE Band 5: Maximum Gain is 2.53dBi.

LTE Band 7: Maximum Gain is 3.05dBi; LTE Band 19: Maximum Gain is 2.53dBi.

LTE Band 25: Maximum Gain is 3.55dBi; LTE Band 26: Maximum Gain is 2.53dBi.

LTE Band 38: Maximum Gain is 3.05dBi; LTE Band 41: Maximum Gain is 3.05dBi.

LTE Band 66: Maximum Gain is 3.55dBi

Signature:



Felix Pang

Date: 2026-03-03