

MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

Report No.: LYFT08-U17 FCC MPE Rev A

Company: Lyft, Inc

Model Name: SIT-03-2-B



MPE/RF EXPOSURE REPORT

Company Name: Lyft, Inc

Model Name: SIT-03-2-B

To: FCC CFR 47 Part 1.1310

Report Serial No.: LYFT14-U17 FCC MPE Rev A

This report supersedes: NONE

Applicant: Lyft, Inc

185 Berry St #5000 San Francisco, California 94107

USA

Issue Date: 16th July 2022

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.

575 Boulder Court Pleasanton California 94566 USA

Phone: +1 (925) 462-0304 Fax: +1 (925) 462-0306 www.micomlabs.com



MiCOM Labs is an ISO 17025 Accredited Testing Laboratory



Title: Lyft Inc SIT-03-2-B

To: FCC CFR 47 Part 1.1310
Serial #: LYFT14-U17 Rev A FCC MPE

1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = Pd (mW/cm²) = EIRP/($4*\pi*d^2$)

EIRP = P * G

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10 ^ (G (dBi)/10)$

FCC CFR 47 Part 1.1310 Power Density Limits for General Population/Uncontrolled Exposure:

1.34 – 30 MHz Plane Wave Power Density = $(180/f^2)$ mW/cm² 300-1,500 MHz; Power Density = f/1500 mW/cm² 1,500-100,000 MHz; Power Density = 1.0 mW/cm²

The calculations in the table below use the highest measured conducted power values together with the antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

NFC Output Power is as declared by the manufacturer.

Specification - Maximum Permissible Exposure Limits.

The Limit is defined in Table 1 of FCC §1.1310.

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	
NFC 13.56	0.0	1.00	23.0	199.53	0.040	0.98	4.027	
LTE Band 12 699.7	1.1	1.29	22.71	186.64	0.048	0.47	6.404	
LTE Band 13 779.5	1.1	1.29	22.82	191.43	0.049	0.52	6.15	
LTE Band 26 814.7	1.3	1.35	22.56	180.30	0.048	0.54	5.97	
LTE Band 5 836.5	1.3	1.35	22.95	197.24	0.053	0.56	6.16	
LTE Band 4 1732.5	3.8	2.40	22.96	197.70	0.094	1.00	6.14	
LTE Band 2 1850.7	3.7	2.34	22.85	192.75	0.090	1.00	6.00	
LTE Band 25 1914.2	3.7	2.34	22.82	191.43	0.089	1.00	5.98	

Note 1: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Issue Date: 16th July 2022 Page: 3 of 5



Title: Lyft Inc SIT-03-2-B

To: FCC CFR 47 Part 1.1310

Serial #: LYFT14-U17 Rev A FCC MPE

Worst Case Simultaneous Operation

These calculations represent worst case in terms of the exposure levels and assume all radio transmitters

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance for Summation (cm)	Power Density Limit (mW/cm²) @ 20cm Pd _{Limit}	Calculated Power Density (mW/cm²) Pd _{Calc}	Pd _{Calc} / Pd _{Limit}	
13.56	0.0	1.00	23.0	199.53	20.00	0.98	0.03969	0.04055	
1710.7	3.8	2.40	22.97	198.15	20.00	1	0.09435	0.09435	
Summation Pd _{Calc} / Pd _{Limit} @ 20 cm distance:									

Evaluation for compliance of simultaneous transmission where the power density limits are different is performed by the summation of ratios;

Calculated Power Density/Power Density Limit

Pd $_{Calc1}$ /Pd $_{Limit1}$ + Pd $_{Calc2}$ /Pd $_{Limit2}$ + Pd $_{Calc3}$ /Pd $_{Limit3}$ + etc. < 1.

SUMMARY; Minimum safe distance to meet the RF exposure requirements = 20cm

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Specification

Maximum Permissible Exposure Limits

FCC CFR 47 Part 1.1310 Power Density Limits for General Population/Uncontrolled Exposure:

1.34 - 30 MHz Plane Wave Power Density = $(180/\text{f}^2) \text{ mW/cm}^2$ 300-1,500 MHz; Power Density = $f/1500 \text{ mW/cm}^2$

1,500-100,000 MHz; Power Density = 1.0 mW/cm²

Issue Date: 16th July 2022 Page: 4 of 5





575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com