

Lyft Radar Experiment Proposal

1. Introduction

Lyft's mission is to improve lives by providing the world's best transportation. Lyft's Level 5 business unit is highly focused on making autonomous vehicles a reality.

Lyft is planning to conduct 77-81 GHz band radar field testing using frequency modulated continuous wave Radar Front-End Units installed on moving vehicles to evaluate these millimeter-wave radar technologies.

Lyft's testing location is shown below in section 2. Radar units will utilize 4 GHz in the 77-81 GHz frequency band.

2. Transmitter Information

Radar unit information such as the maximum output power and bandwidth are denoted below:

Type	Frequency (GHz)	Power			Bandwidth (GHz)	Emissions Designator
		EIRP (dBm)	EIRP (mW)	ERP (mW)		
Mobile	77-81	20	100	N/A	4	4G00F1N

Lyft will test up to 150 units in the testing area below:

Address	Latitude	Longitude	Radius (kilometers)	Antenna Type
3210 Porter Dr, Palo Alto CA, 94304	37° 24' 27.1542"	122° 8' 51.0252"	100	Directional, Patch Array

3. Contact Information

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4. Applicant Information

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