Panasonic

Panasonic 79GHzband Radar (77-81GHz) Experiment Proposal

1. Introduction

Panasonic Corporation is a worldwide leader in the development of diverse electronics technologies and solutions for customers in the consumer electronics, housing, automotive, enterprise solutions and device industries. Since its founding in 1918, the company has expanded globally and now operates 468 subsidiaries and 94 associated companies worldwide in 2015.

Panasonic Automotive Company is planning to conduct 79GHz band Radar field testing by utilizing frequency modulated continuous wave Radar Front-End Units ("FEU") installed on moving vehicles to evaluate these millimeter-wave Radar technologies.

Test location is within 100 km radius of urban field located in 333 Brannan St, San Francisco, CA 94103 or 37101 Corporate Dr. Farmington Hills, MI 48331. FEUs will utilize either 2GHz bandwidth in the 77-81 GHz frequency band.

2. Transmitter Information

FEU information such as the maximum output power and bandwidth are denoted in Table 1.

Table 1: Transmitter Information

Type	Frequency (GHz)	Power			Bandwidth (GHz)	Emissions Designator:
		EIRP (dBm)	EIRP (mW)	ERP (mW)		
Mobile	77-81	22	158	58	2	2G00F3N

Up to 10 FEUs will be tested around Panasonic office described in Table 2.

Panasonic

Table 2: Test Location

Address	Latitude	Longitude	Radius (km)	Antenna Type:
333 Brannan St, San Francisco, CA 94103	North 37°46'51"	West 122°24'34"	100	Omni-directional
37101 Corporate Dr. Farmington Hills, MI 48331	North 42°29'39"	West 83°24'53"	100	Omni-directional

3. Contact Information

Ryo Takahashi
Panasonic Automotive Systems Company of America
37101 Corporate Dr. Farmington Hills, MI 48331
Phone: 248-842-7263
Email: ryo.takahashi@us.panasonic.com

4. Applicant Information

Akihiko Matsuoka
Automotive Company
Panasonic Corporation
600 Saedo-cho, Tsuzuki-ku, Yokohama, 224-8539, JAPAN
Email: matsuoka.takashi@jp.panasonic.com