

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WH2XAV

(Call Sign)

0064-EX-CM-2018

(File Number)

NAME Microsoft Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(d j) of the Commission's Rules

Station Locations

- (1) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-08-30
- (2) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-59; WL 122-08-35
- (3) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-30
- (4) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-28
- (5) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-23; WL 122-08-30
- (6) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-08-08
- (7) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50
- (8) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-08-16
- (9) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-50
- (10) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-05; WL 122-08-08
- (11) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-09; WL 122-07-49
- (12) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-41
- (13) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-36-42; WL 122-08-04
- (14) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-40; WL 122-08-12
- (15) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-28; WL 122-07-32
- (16) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-07-34
- (17) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-50; WL 122-08-00
- (18) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-10; WL 122-08-09
- (19) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-26; WL 122-08-28
- (20) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-08-25
- (21) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50
- (22) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-08-32
- (23) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-29
- (24) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-08-09
- (25) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-59; WL 122-08-04

This authorization effective May 21, 2018 and
will expire 3:00 A.M. EST March 01, 2020

FEDERAL
COMMUNICATIONS
COMMISSION



Station Locations

(26) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-01; WL 122-08-01

(27) MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-04; WL 122-08-00

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-42; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-59; WL 122-08-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-59; WL 122-08-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-37; WL 122-08-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-23; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-23; WL 122-08-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-08-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-35; WL 122-08-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-08-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-34; WL 122-08-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-21; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-05; WL 122-08-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-05; WL 122-08-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-09; WL 122-07-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-09; WL 122-07-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-10; WL 122-07-41

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-36-42; WL 122-08-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-36-42; WL 122-08-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-40; WL 122-08-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-40; WL 122-08-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-28; WL 122-07-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-28; WL 122-07-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-07-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-07-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-50; WL 122-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-50; WL 122-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-10; WL 122-08-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-10; WL 122-08-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-26; WL 122-08-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-26; WL 122-08-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-08-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-14; WL 122-08-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-12; WL 122-07-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-08-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-20; WL 122-08-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-22; WL 122-08-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-08-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-27; WL 122-08-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-59; WL 122-08-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-38-59; WL 122-08-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	10 uW (Output Power)	

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-01; WL 122-08-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-01; WL 122-08-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-04; WL 122-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
886-888.99 MHz	MO	200KG9D	100 uW (ERP)	
895-900 MHz	MO	5M00F9W	100 uW (ERP)	
900-915 MHz	MO	15M0F9W	100 uW (ERP)	
925-940 MHz	MO	15M0F9W	100 uW (ERP)	
940-945 MHz	MO	5M00F9W	100 uW (ERP)	
945-960 MHz	MO	15M0F9W	100 uW (ERP)	
1710-1785 MHz	MO	40M0F9W	100 uW (ERP)	
1805-1880 MHz	MO	40M0F9W	100 uW (ERP)	
1980-1985 MHz	MO	200KG9W	100 uW (ERP)	
1985-1990 MHz	MO	5M00F9W	100 uW (ERP)	

Frequency Information

MOBILE: Redmond, WA, within 0.05 km, centered around NL 47-39-04; WL 122-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2130 MHz	MO	10M0F9W	100 uW (ERP)	
2555-2570 MHz	MO	15M0F9W	100 uW (ERP)	
2675-2690 MHz	MO	15M0F9W	100 uW (ERP)	
3445-3600 MHz	MO	100MF9W	100 uW (ERP)	

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (6) All of the experimental devices will be under control of Microsoft Corp. and they will be retrieved by Microsoft Corp. from the participants upon completion of the experiment.
- (7) Operation in the 1980-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensee(s) to avoid interference.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (9) Microsoft will be responsible for ensuring that the devices are used in authorized locations and in a manner authorized.

Special Conditions:

- (10) Microsoft should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (11) Under this authorization, the total number of experimental devices shall not exceed 6000 units.
- (12) The designated point-of-contact to terminate transmissions if interference occurs is "mcnteam@microsoft.com".