

# 2345-2360 MHz

## 1. Introduction

The Air Force and the Navy use this band for aeronautical telemetry systems in support of various flight testing missions. The Department of Energy also conducts surface telemetry operations using frequencies in this band. The Coast Guard uses this band for fixed point-to-point data communications.

## 2. Allocations

### 2a. Allocations Table

The frequency allocations table shown below is extracted from the Manual of Regulations and Procedures for Federal Radio Frequency Management, Chapter 4 – Allocations, Allotments and Plans.

*Table of Frequency Allocations*

*United States Table*

<b>Federal Table</b>	<b>Non-Federal Table</b>	<b>FCC Rule Part(s)</b>
2345-2360 Fixed Mobile US339 Radiolocation G2 US327	2345-2360 FIXED MOBILE US339 BROADCASTING-SATELLITE RADIOLOCATION 5.396 US327	Wireless Communications (27) Aviation (87)

### 2b. Additional Allocations Table Information

**5.396** Space stations of the broadcasting-satellite service in the band 2310-2360 MHz operating in accordance with No. 5.393 that may affect the services to which this band is allocated in other countries shall be coordinated and notified in accordance with Resolution 33 (Rev.WRC-03). Complementary terrestrial broadcasting stations shall be subject to bilateral coordination with neighboring countries prior to their bringing into use.

**US327** The band 2310-2360 MHz is allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution 528.

**US339** The bands 2310-2320 and 2345-2360 MHz are also available for aeronautical telemetering and associated telecommand operations for flight testing of manned or unmanned aircraft, missiles or major components thereof on a secondary basis to the Wireless Communications Service. The following two frequencies are shared on a co-

## **2345 – 2360 MHz**

equal basis by Federal and non-Federal stations for telemetering and associated telecommand operations of expendable and re-usable launch vehicles whether or not such operations involve flight testing: 2312.5 and 2352.5 MHz. Other mobile telemetering uses may be provided on a non-interference basis to the above uses. The broadcasting-satellite service (sound) during implementation should also take cognizance of the expendable and reusable launch vehicle frequencies 2312.5 and 2352.5 MHz, to minimize the impact on this mobile service use to the extent possible.

**G2** In the bands 216.965-216.995 MHz, 420-450 MHz (except as provided for in G129), 890-902 MHz, 928-942 MHz, 1300-1390 MHz, 2310-2390 MHz, 2417-2450 MHz, 2700-2900 MHz, 3300-3500 MHz (except as provided for in US108), 5650-5925 MHz, and 9000-9200 MHz, use of the Federal radiolocation service is restricted to the military services.

### 3. Federal Agency Use

#### 3a. Federal Agency Frequency Assignments Table

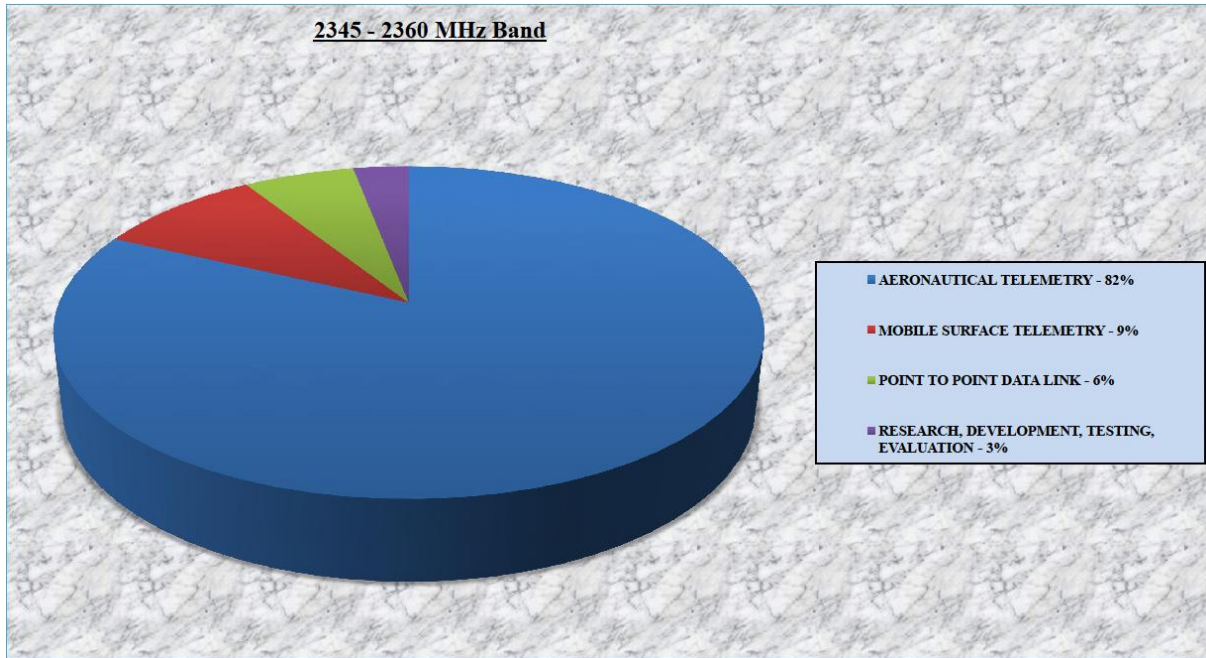
The following table identifies the frequency band, types of allocations, types of applications, and the number of frequency assignments by agency.

*Federal Frequency Assignment Table*

2345-2360 MHz						
SHARED BAND						
AGENCY	BROADCASTING-SATELLITE FIXED MOBILE RADIOLOCATION					
	TYPE OF APPLICATION					
	AERONAUTICAL TELEMETRY	MOBILE SURFACE TELEMETRY	POINT TO POINT DATA LINK	RESEARCH DEVELOPMENT TESTING EVALUATION	TOTAL	
AF	18			1	19	
AR			9		9	
CG			2	2	4	
DOE	1	2			3	
N	9			1	10	
NASA	1				1	
<b>TOTAL</b>	<b>29</b>	<b>2</b>	<b>11</b>	<b>4</b>	<b>46</b>	
<p>The number of actual systems, or number of equipments, may exceed and sometimes far exceed, the number of frequency assignments in a band. Also, a frequency assignment may represent, a local, state, regional or nationwide authorization. Therefore, care must be taken in evaluating bands strictly on the basis of assignment counts or percentages of assignments.</p>						

### 3b. Percentage of Frequency Assignments Chart

The following chart displays the percentage of frequency assignments for the types of Federal systems operating in the 2345-2360 MHz band.



## 4. Frequency Band Analysis by Application

### 4a. Aeronautical Telemetry

The Air Force operates aeronautical telemetry systems in support of various flight testing programs at Edwards Air Force Base, California; and Eglin Air Force Base, Florida. The Air Force supports developmental and operational tests of military flight systems, which transfer real-time telemetry data to multiple receive locations while flight systems are either on the ground or during airborne testing.

The Navy supports flight testing missions as their scheduled operations in the test ranges at Barking Sands, Hawaii. The Marine Corps operates aeronautical mobile telemetry (AMT) systems to transmit video downlink from unmanned aerial vehicles to receive-only terminals during Marine Corps exercises.

The Department of Energy uses this band for aeronautical telemetry support of Sandia National Laboratory test activities over the Pacific Ocean.

**4b. Mobile Surface Telemetry**

The Department of Energy operates ground telemetry systems in this band for various test programs.

**4c. Point-to-Point Data Link**

The Coast Guard operates fixed point-to-point data communications links on a secondary basis in Alaska.

**5. Planned Use**

The Federal Government use of this band is expected to remain the same for the foreseeable future.