

## OLLI Wireless Microphone Frequency Plan

Band D: 655.500 - 680.375 MHz

Classrooms	--			Road Show
656.250	656.375	656.500	656.625	656.750
657.250	657.375	657.500	657.625	657.750
658.250	658.375	658.500	658.625	658.750
659.250	659.375	659.500	659.625	659.750
660.250	660.375	660.500	660.625	660.750
661.250	661.375	661.500	661.625	661.750

### "D" Band Systems – Green Tip on Bodypak Transmitter Antennas

Classrooms: At each OLLI location, the first classroom's mic system should be assigned / set up using the first frequency in the yellow column, ie: 656.250 MHz; the second classroom, 657.250, etc.

Road Show Kits: Road Show I mics should be set to the first three frequencies in the green column; Kit II mics assigned to the 2<sup>nd</sup> three frequencies. Thus, RS mic 1 will be assigned to 656.750 MHz; RS mic 6 will be assigned to 661.750.

This plan allows the Road Show kit mics to be used in the classrooms without interference with the in-classroom systems. The Road Show kit-of-choice, if only three additional mics are needed in a classroom, would be RS Kit II, since there would be the least chance of cross channel interference between classroom and RS Kit mics in that instance.

### July 16, 2015 – This will probably impact our future wireless microphone use:

<https://www.fcc.gov/blog/seizing-opportunities-unlicensed-spectrum-and-wireless-microphones>

This plan was initially developed in January, 2010 by Don Ferrett to allow OLLI's Audio Technica 3000 series wireless microphones to be used with minimal interference in our classrooms, taking into account local TV broadcasting stations at that time.

### "C" Band Systems – Blue Tip on Bodypak Transmitter Antennas

In January, 2013, three new wireless mic systems were acquired, one each for the largest classrooms at each OLLI location. These systems were C band units, to hedge against future changes to allowable frequency use as increasing bandwidth is allocated to cellular phones and emerging technologies. Frequency selection was 546.250. Tallwood Cottage's wireless system is also a C band unit, and its frequency is set to 562.250.

A 'C' Band system was acquired for use in Reston at the Rose Gallery and small room at UCP in January 2014, and the frequency is set to 565.500

A similar "C" Band system is being used at Tallwood, frequency 565.500, acquired 4Q2014, and two additional "C" Band systems were installed in TA1 in mid-2015. Four more "C" Band systems were acquired for use at LofL locations in Fairfax and Clifton. Frequency selections is as shown in the matrix below in the "Final Frequencies" column.

OLLI Wireless Mic Frequency Planning – C Band

<b>Classroom / Location</b>	<b>Current Frequencies</b>	<b>Final Frequencies</b>	<b>Final Frequencies</b>	<b>Current Frequencies</b>	<b>Road Show / Locations</b>
TA1-7 / Reston 1-8 / Loudoun 1-9	546.250	546.250	547.250		Road Show 4-14 / Clifton LofL
TA1-12		560.250	561.250		Road Show 4-15 / Clifton LofL
TA1-13		544.250	545.250		
TA Cottage	541.500	562.250	563.250		Road Show 4-16 / FFX LofL
Reston 2-10 (Rose Gallery) / TA Port Sys -11		565.500	564.500		Road Show 4-17 / FFX LofL

## 3000 Series UHF Wireless Operating Frequencies

TV Ch.	Band C: 541.500 - 566.375 MHz							
25	--	--	--	--	541.500	541.625	541.750	541.875
26	542.000	542.125	542.250	542.375	542.500	542.625	542.750	542.875
26	543.000	543.125	543.250	543.375	543.500	543.625	543.750	543.875
26	544.000	544.125	544.250	544.375	544.500	544.625	544.750	544.875
26	545.000	545.125	545.250	545.375	545.500	545.625	545.750	545.875
26	546.000	546.125	546.250	546.375	546.500	546.625	546.750	546.875
26	547.000	547.125	547.250	547.375	547.500	547.625	547.750	547.875
27	548.000	548.125	548.250	548.375	548.500	548.625	548.750	548.875
27	549.000	549.125	549.250	549.375	549.500	549.625	549.750	549.875
27	550.000	550.125	550.250	550.375	550.500	550.625	550.750	550.875
27	551.000	551.125	551.250	551.375	551.500	551.625	551.750	551.875
27	552.000	552.125	552.250	552.375	552.500	552.625	552.750	552.875
27	553.000	553.125	553.250	553.375	553.500	553.625	553.750	553.875
28	554.000	554.125	554.250	554.375	554.500	554.625	554.750	554.875
28	555.000	555.125	555.250	555.375	555.500	555.625	555.750	555.875
28	556.000	556.125	556.250	556.375	556.500	556.625	556.750	556.875
28	557.000	557.125	557.250	557.375	557.500	557.625	557.750	557.875
28	558.000	558.125	558.250	558.375	558.500	558.625	558.750	558.875
28	559.000	559.125	559.250	559.375	559.500	559.625	559.750	559.875
29	560.000	560.125	560.250	560.375	560.500	560.625	560.750	560.875
29	561.000	561.125	561.250	561.375	561.500	561.625	561.750	561.875
29	562.000	562.125	562.250	562.375	562.500	562.625	562.750	562.875
29	563.000	563.125	563.250	563.375	563.500	563.625	563.750	563.875
29	564.000	564.125	564.250	564.375	564.500	564.625	564.750	564.875
29	565.000	565.125	565.250	565.375	565.500	565.625	565.750	565.875
30	566.000	566.125	566.250	566.375	--	--	--	--