



Elite Electronic Engineering, Inc.
1516 Centre Circle
Downers Grove, IL 60515
630-495-9770
www.elitetest.com

NOTE: FOR ELITE CUSTOMER USE ONLY. Information listed here is subject to revision without notice. Actual chamber performance will depend on test item and specification requirements. Contact Elite for current test equipment information and test application assistance.

EMI CHAMBER DESCRIPTION

TEST SUITE 14

Test Room ID: R14ML

Description:	SHIELDED TEST ENCLOSURE
Primary Testing Uses:	REVERBERATION
Dimensions:	6.4m x 5.79m x 4.87m (21ft. x 19ft. x 16ft.)
Construction:	<p>26 Gauge Galvanized Steel Laminate on each side of a 0.75 in. High-Density wood core.</p> <p><i>Ground Plane Bonding:</i> (7) 6 in. x 39.4 in. x 0.031in. copper straps. Each strap was grounded to floor with three ¼ - 20 bolts. Each strap was soldered to the ground plane. Bonding Resistance measured at 0.29milliohms, ground plane to wall.</p>
Ground Plane Dimensions:	<p><i>Mode Tuned Ground Plane:</i> 4.87m x 1.22m x .78mm (16ft. x 4.0ft. x 0.031in.)</p> <p><i>Mode Tuned Ground Plane:</i> 2.13m (7ft.) straight length</p>
Distance from Cable Tunnel to Front of Ground Plane:	4.27m (14ft.) along ground plane to floor to wall and up wall
Room Filters:	<p>(3) 30A AC Filtered Lines</p> <p>(4) 30A DC Filtered Lines</p>
Power Availability:	<p>115VAC, 400Hz, 3Phase, 30A Filtered AC Power</p> <p>115VAC, 60Hz, 1Phase, 15A Outlets</p> <p>Note: Other power arrangements are available upon request.</p>



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Monitor Room ID: R14MS

Description:	SHIELDED MONITOR/LOAD ENCLOSURE
Dimensions:	3.05m x 2.74m x 2.44m (10ft. x 9ft. x 8ft.)
Construction:	<p>26 Gauge Galvanized Steel Laminate on each side of 0.75 in. High-Density wood core.</p> <p><i>Ground Plane Bonding:</i> 4 - 6 in. wide by 39.4 in. long by 0/031in thick copper straps. Each strap was grounded to floor with three ¼ - 20 bolts and soldered to the ground plane. Bonding Resistance was measured at 0.29milliohms from ground plane to enclosure wall.</p>
Ground Plane Dimensions:	2.36m x 1.22m x .78mm (7ft. 8in. x 4.0ft. x 0.031in.)
Distance from Cable Tunnel to Front of Ground Plane:	18cm (7.0in.)
Power Availability:	<p>(3) 30A AC Filtered Lines (4) 30A DC Filtered Lines 115VAC, 400Hz, 3Phase, 30A Filtered AC Power 115VAC, 60Hz, 1Phase, 15A outlets</p>



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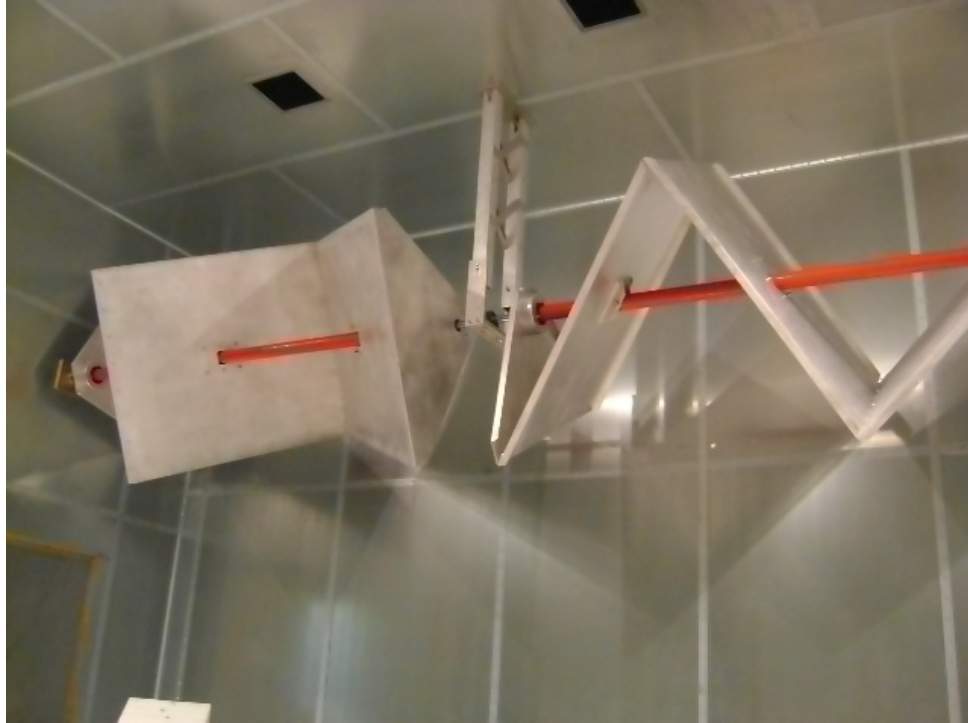
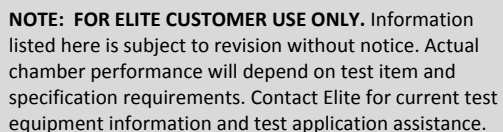


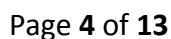
Figure - 1: Room R14ML (Tuner)



Figure - 2: Room R14MS (Tuner)



TEST SUITE 14



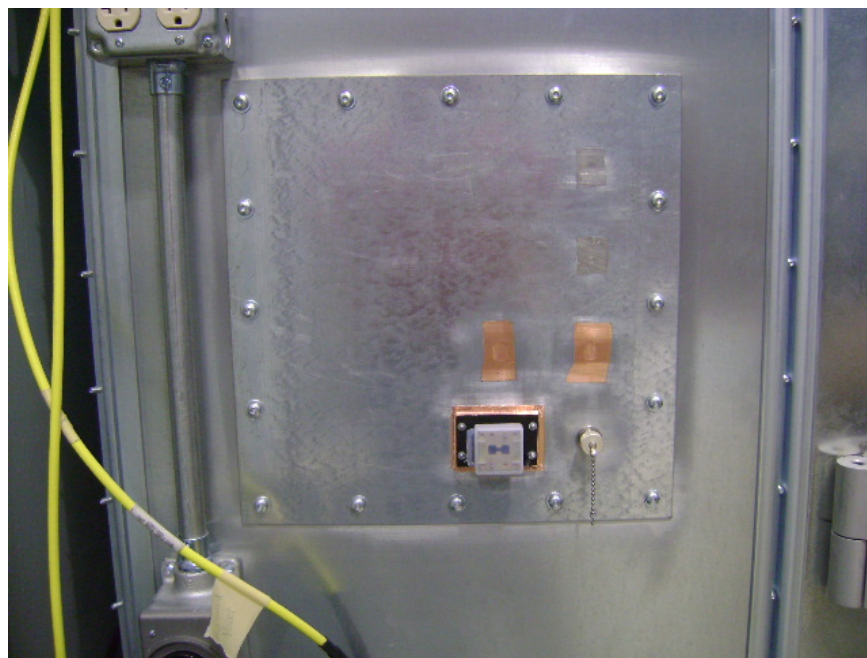


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Room R14MS Transmit Antenna Panel



Room R14MS Transmit Antenna Panel

Figure - 4: R14ML & R14MS Transmit Antenna excess Panels
(Large Test Room & Small Test Room)



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Room R14MS Transmit Antenna Panel

Figure - 4: R14ML & R14MS Transmit Antenna excess Panels
(Large Test Room & Small Test Room)

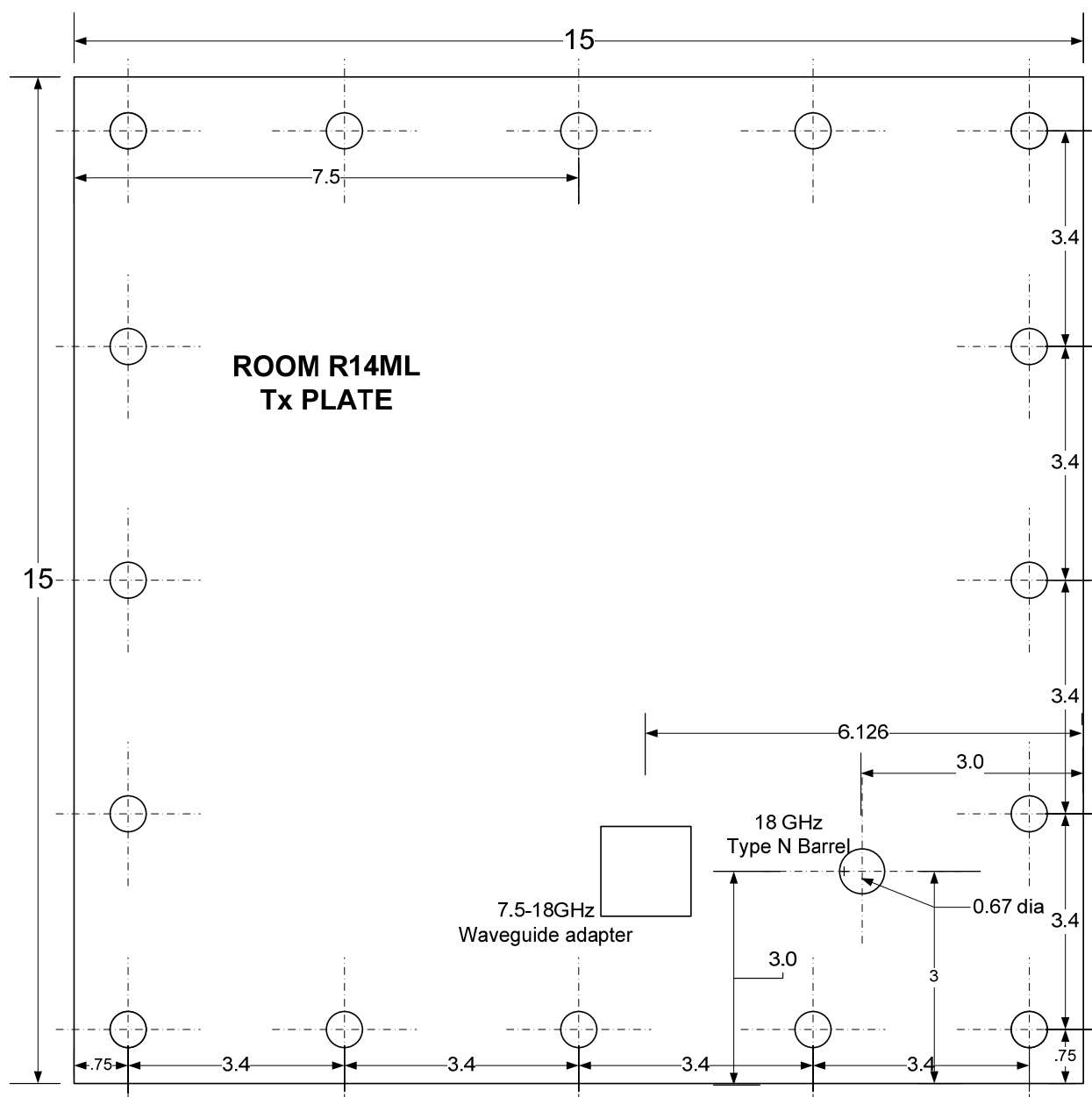


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All dimensions are in inches



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Figure – 6a: Room R14ML (Test Room) Large Mounting Plate (right)
See Figure 6b for a To Scale template.



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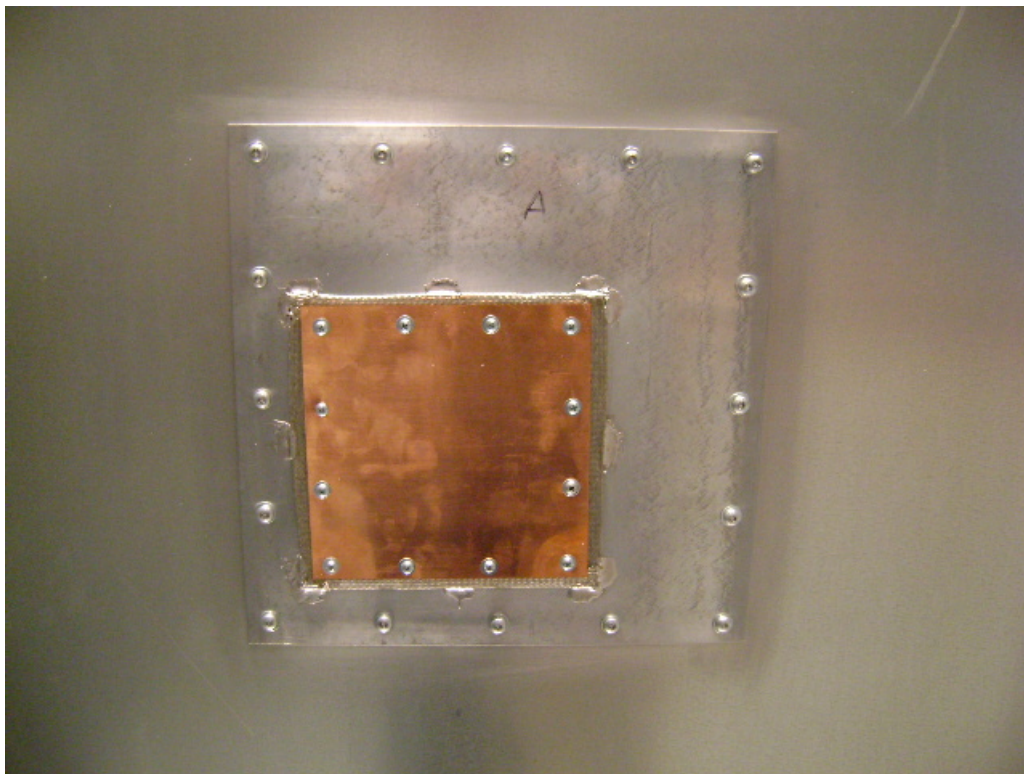


Figure – 7a: Room R14ML (Test Room) Inner Mounting Plate (left)
See Figure 7b on Room 14 Extras for a To Scale template.



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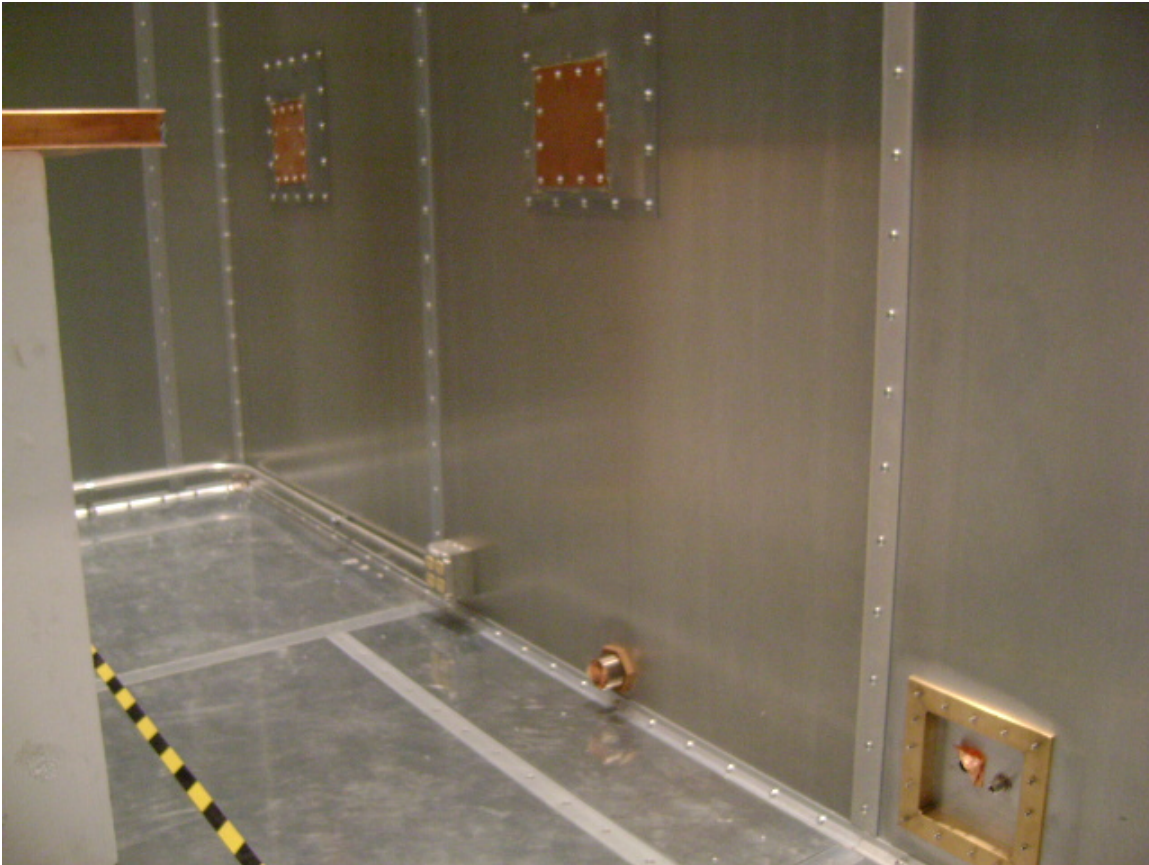


Figure - 8: Room R14ML (Test Room) Inner Mounting Plates and 2 inch Brass tube and Receive Antenna Panel



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Figure - 9: Room R14ML (Test Room) Mode Tuned Ground Plane



Figure - 10: Room R14ML (Test Room) Mode Tuned Ground Plane (toward mounting plate interface)



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Figure - 11: Room R14ML (Large Test Room) Inner Mounting Plate Dimensions; Right & Left Excess Panels



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