

Backwall Reader (Tower) Q/A Checklist

VR102601

VR Serial Number

Start Date:

Final
Q/A

Interface Board & 16 Antennas

Reference In-Process Q/A Sheet (ISO-IPQA-02 Rev. G) for details of Inspection points.

Reference Drawing:

VR102601-Interconnect Diagram_Rev A

Family Tree:

ISO-FAM-001

Process #	Initials	Checklist
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1		Record Lot # of plastic being used. [iQA1] LOT # <input type="text"/>
1a		Verify that top side HDPE plastic has been routed per M001.
2		Verify that bottom side of HDPE plastic has been routed per M002.
3		Verify that edges of routed Top & Bottom plastics have been deburred.

In Process Inspection_01

Q/A
01

4		Ensure aluminum sheet has been cut.
5		Ensure aluminum sheet has been applied to bottom side of HDPE.
6		Record Lot # of FR4 being used. [iQA2] LOT # <input type="text"/>
6a		Ensure that FR4 antenna panels and HDPE have been glued with sprayer @ 80 PSI.
7		Pass FR4 and HDPE through heat process and adhere together.
8		Verify Mux Boards installed to HDPE per (VR102601 - Interconnect Diagram).
9		Ensure solder from cut aluminum backplane has not gotten further then provided exposed ground plane of the mux boards.
9a		<i>(If Copper or Aluminum back plane)</i> Perform an ohms test between Mux and end of antenna to insure low resistance.
10		Ensure filament feedlines solder joints are not much bigger then 1/8" and cleaned off.

In Process Inspection_02

Q/A
02

11		Verify thermal tape has been applied to the bottom plate of the ThingMagic M6e module.
12		Install ThingMagic M6e module to routed HDPE.
13		Verify that Interface Board has been installed per (VR102601 - Interconnect Diagram).
14		Build all associated wire & cable assemblies. Per drawings located at VR102601-14
15		Verify that all (In-House) built cables have been tested by an identifying green dot.
16		Ensure RF cables are installed between Mux boards per Interconnect diagram VR102601.
17		Ensure Data & GPIO cables are installed between Mux boards per Interconnect diagram VR102601.
17a		Record Lot #'s of wire/cable assemblies → [iQA6]

LOT # <input type="text"/>	VR102664 - Mux to M6e-a
LOT # <input type="text"/>	VR102664 - Mux to Interface
LOT # <input type="text"/>	VR102665 - 55"
LOT # <input type="text"/>	VR102666 - 11.25"
LOT # <input type="text"/>	VR102667 - 12"
LOT # <input type="text"/>	VR102668 - 44.75"
LOT # <input type="text"/>	VR102669 - 46"

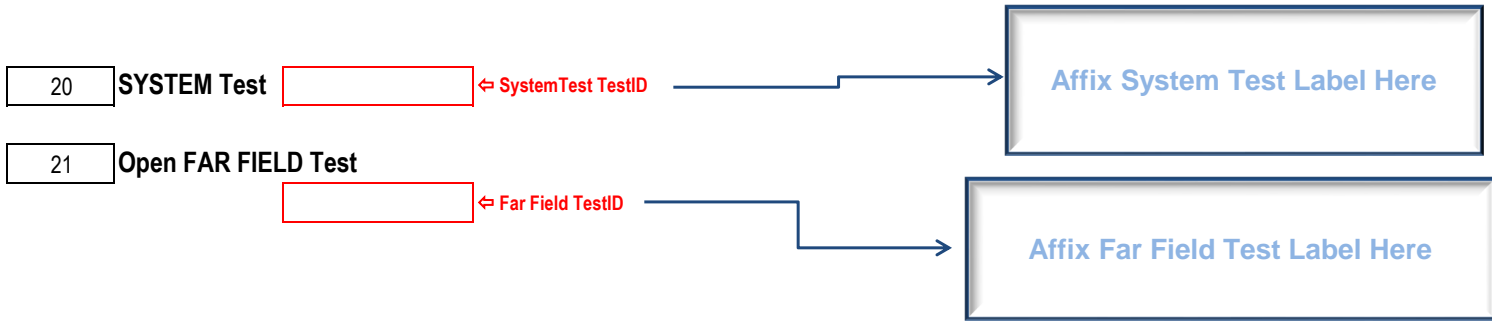
In Process Inspection_03

Q/A
03

18	SWR Test	<input type="text"/>	↔ SWRTest TestID	
19		Ensure RF & GPIO cables are connected to ThingMagic Reader.		

Affix SWR Test Label Here

Continue on Page 2



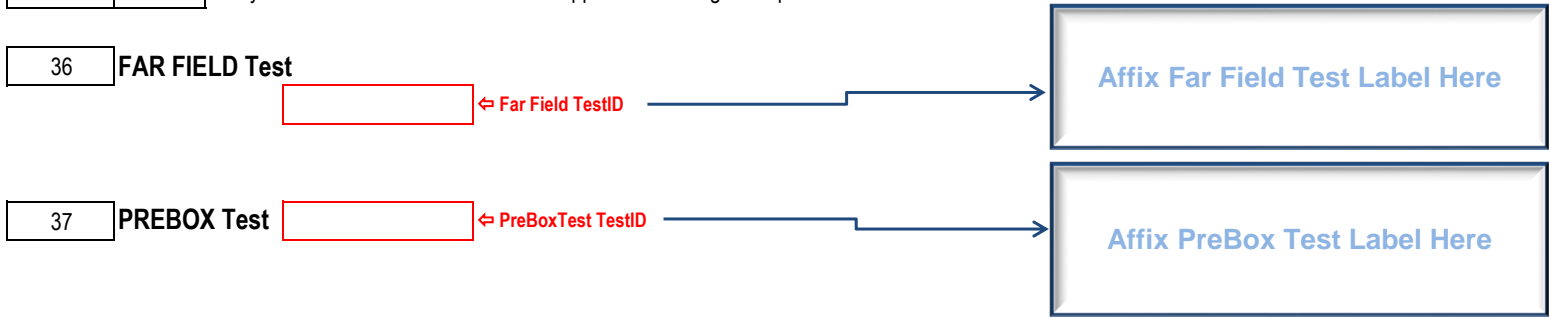
22 Verify the RF cable(s), GPIO cable, and all connectors are hot glued down to prevent them sticking from up and disconnecting.

In Process Inspection_04 Q/A
04

23	Verify 1/16" Bottom ABS has been routed per M004 .	[iQA7] Record Lot #	LOT # _____
24	Verify 1/8" Top ABS has been routed per M003 .	[iQA8] Record Lot #	LOT # _____
25	Ensure Bottom ABS panel & HDPE Bottom are glued per Engineering Glue Process procedures.		
26	Pass panels through heat process.		
27	Place panel on Assembly fixture.		
28	Ensure Top ABS panel & HDPE Top are glued per Engineering Glue Process procedures.		
29	Pass panels through heat process.		
30	Place panel on Assembly fixture.		
31	Pass panel through pressing process		
32	Verify edges have have rounded on top and bottom side per Engineering procedures.		
33	Verify mounting holes have been drilled per Engineering drawing M006 .		

In Process Inspection_05 Q/A
05

34	Verify Connector plate has been routed per drawing M005 .
35	Ensure that the diagnostic panel is aligned and secured with Qty.2 #4 x 1/4" SS FPH screws.
35a	Verify that the VRSerial # of unit label is applied to the diagnostic panel.



38 Verify that FCC & Certification labels have been applied to unit.

FINAL Q/A *When Final Q/A has been completed stamp at Top of First Page where designated*