

Project 25 Compliance Assessment Program  
 Summary Test Report  
 EF Johnson 5300 ES VHF Mobile Subscriber Unit  
 STR-EFJ-11070703  
 July 7, 2011

Test Item Description	
<b>Manufacturer</b>	EF Johnson Technologies
<b>Manufacturer Contact</b>	John Oblak (507) 837-5116
<b>Product Name</b>	5300 ES and 53SL ES Series VHF Mobile Subscriber Unit
<b>Installed Options</b>	SEM Module Installed
<b>Vocoder Identification</b>	Enhanced Full Rate

Test Description
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081017 (Harris)
<b>Date(s) of Test</b>	June 22, 2009
<b>Date of Issue</b>	July 1, 2009

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081012 (Motorola)
<b>Date(s) of Test</b>	July 20, 2009 to July 22, 2009
<b>Date of Issue</b>	July 22, 2009

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	November 25, 2009
<b>Date of Issue</b>	November 30, 2009

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	November 23, 2009 to January 12, 2010
<b>Date of Issue</b>	January 14, 2010

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Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	January 29, 2010 to February 2, 2010
<b>Date of Issue</b>	February 8, 2010

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081016 (Timco Engineering)
<b>Date(s) of Test</b>	June 16, 2010
<b>Date of Issue</b>	June 29, 2010

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081015 (TELTEST Laboratories)
<b>Date(s) of Test</b>	October 28, 2010
<b>Date of Issue</b>	November 2, 2010

Test Information	
<b>P25 CAP Laboratory Code</b>	P25CAP081010 (EF Johnson Technologies)
<b>Date(s) of Test</b>	Feb 22, 2011 to March 4, 2011
<b>Date of Issue</b>	March 4, 2011

Informative References	
Date	Title
Mar 2010	P25-CAB-CAI_TEST_REQ – March 2010

Other Devices Tested with 5300 ES Mobile Subscriber Unit		
Manufacturer	Product Name, Definition, and Unique ID	Installed Options
Harris	P25 Trunked Infrastructure	System release 6.4.2
Motorola	ASTRO 25 Trunked Infrastructure	System Release 7.7
Tait	TaitNet P25/EADS COR P25 Network	P25V11_05.E21
EF Johnson	IP25 Trunked Infrastructure	Release 3.1-RC1
PowerTrunk	PowerTrunk 25 B800014 Infrastructure	Version 9.4.52

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance		DTR-P25CAP081010-10011402 DTR-P25CAP081010-11030403	
Receiver Tests			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	$\leq -116$ dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	$\leq -108$ dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	$\geq 50$ $\mu$ s	P3
2.1.7	Adjacent Channel Rejection	$\geq 60$ dB (Class A)	P4
2.1.8	Co-Channel Rejection	$\leq 9$ dB	P
2.1.9	Spurious Response Rejection	$\geq 70$ dB (Class B)	P
2.1.10	Intermodulation Rejection	$\geq 75$ dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	$\geq 1000$ Hz	P
2.1.17	Late Entry Unsquench Delay		
	No Talk Group or Encryption	$\leq 125$ ms	P
	Talk Group Only	$\leq 370$ ms	P
	Encryption Only	$\leq 370$ ms	P
	Both Talk Group and Encryption	$\leq 460$ ms	P
2.1.18	Receiver Throughput Delay	$\leq 125$ ms	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.1 – Project 25 Phase 1 Common Air Interface Conventional Subscriber Unit Performance</b>		<b>DTR-P25CAP081010-10011402</b>	
<b>Transmitter Tests</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	$\geq 67$ dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	$\leq 50$ ms	P
	Encoder Attack Time	$\leq 100$ ms	P
2.2.14	Transmitter Throughput Delay	$\leq 125$ ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} \leq f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} \leq f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 5$ ms	$\leq \pm 12.5$ kHz	P
	Time Interval $t_2 = 20$ ms	$\leq \pm 6.25$ kHz	P
	Time Interval $t_3 = 5$ ms	$\leq \pm 12.5$ kHz	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance</b>		<b>DTR-P25CAP081010-10011402 DTR-P25CAP081010-11030403</b>	
<b>Receiver Tests</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.1.4	Reference Sensitivity	$\leq -116$ dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	$\leq -108$ dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	$\geq 50$ $\mu$ s	P3
2.1.7	Adjacent Channel Rejection	$\geq 60$ dB (Class A)	P4
2.1.8	Co-Channel Rejection	$\leq 9$ dB	P
2.1.9	Spurious Response Rejection	$\geq 70$ dB (Class B)	P
2.1.10	Intermodulation Rejection	$\geq 75$ dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	$\geq 1000$ Hz	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance</b>		<b>DTR-P25CAP081010-10011402</b>	
<b>Transmitter Tests</b>			
<b>Test Case</b>	<b>Description</b>	<b>Requirement</b>	<b>Results</b>
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	$\geq 67$ dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	$\leq 50$ ms	P
	Encoder Attack Time	$\leq 100$ ms	P
2.2.14	Transmitter Throughput Delay	$\leq 125$ ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} \leq f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} \leq f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 5$ ms	$\leq \pm 12.5$ kHz	P
	Time Interval $t_2 = 20$ ms	$\leq \pm 6.25$ kHz	P
	Time Interval $t_3 = 5$ ms	$\leq \pm 12.5$ kHz	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance</b>		<b>DTR-P25CAP081010-10020802</b>	
<b>Trunked Subscriber Unit Tests</b>			
Test Case	Description	Requirement	Results
2.3.1	Trunking Control Channel Slot Times (45 ms slot)  Encode Attack Time RF Power Attack Time RF Power Turn Off Time	  $2.00 \text{ ms} \leq t \leq 11.65 \text{ ms}$ $0 \text{ ms} \leq t \leq 11.65 \text{ ms}$ $\leq 1.57 \text{ ms}$	  P P P
2.3.2	Trunking Request Time	$\leq 160 \text{ ms}$	P
2.3.3	Trunking Voice Access Time	500 ms (Manufacturer Specified)	P
2.3.5	Transmitter Time to Key on a Traffic Channel Short Channel Form	$\leq 150.0 \text{ ms}$	P

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<b>P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.3.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Interoperability</b>		DTR- P25CAP081017- 1090622E02	DTR-MOT-40016- M1-MC2	DTR- P25CAP081015- 3204	DTR- P25CAP081010- 09113001	DTR-TIMC081016- 023-5377-720	
<b>EF Johnson 5300 ES Mobile</b>		Harris P25 Trunking Infrastructure	Motorola ASTRO 25 Trunking	TaitNet P25/EADS Core P25	EF Johnson IP25 Trunking Infrastructure	PowerTrunk B800014 Trunking	
<b>Test Case</b>	<b>Description</b>						
<b>2.2.1</b>	<b>Full Registration</b>						
<b>2.2.1.4.1</b>	Test Case 1 - Valid Registration						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.1.4.2</b>	Test Case 2 – Denied or Refused						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.1.4.3</b>	Test Case 3 - Unverified Registration						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.2</b>	<b>Group Voice Call</b>						
<b>2.2.2.4.1</b>	Test Case 1 – Group Call Granted						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.2.4.2</b>	Test Case 2 – Group Call Denied						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.2.4.3</b>	Test Case 3 – Group Call Request						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	

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<b>EF Johnson 5300 ES Mobile</b>		Harris P25 Trunking Infrastructure	Motorola ASTRO25 Trunking	TaitNet P25/EADS Core P25	EF Johnson IP25 Trunking Infrastructure	PowerTrunk B800014 Trunking	
<b>Test Case</b>	<b>Description</b>						
<b>2.2.3</b>	<b>Unit-To-Unit Voice Call</b>						
<b>2.2.3.4.1</b>	Test Case 1 – Unit-To-Unit Call With Target Availability Check						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.3.4.2</b>	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied By Target						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.3.4.3</b>	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check						
	Home Operation	P	P	N/A 1	P	N/A 3	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.3.4.4</b>	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target availability check						
	Home Operation	N/A 2	N/A 2	P	N/A 2	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.3.4.5</b>	Test Case 5 – Unit-To-Unit Call Without Target Availability Check						
	Home Operation	N1	N2	N3	N4	N5	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	

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<b>EF Johnson 5300 ES Mobile</b>		Harris P25 Trunking Infrastructure	Motorola ASTRO25 Trunking	TaitNet P25/EADS Core P25	EF Johnson IP25 Trunking Infrastructure	PowerTrunk B800014 Trunking	
<b>Test Case</b>	<b>Description</b>						
<b>2.2.3</b>	<b>Unit-To-Unit Voice Call</b>						
<b>2.2.3.4.6</b>	Test Case 6 – Unit-To-Unit Call Queued Without Target Availability Check						
	Home Operation	N1	N2	N3	N4	N5	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.3.4.7</b>	Test Case 7 – Unit-To-Unit Call Denied						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	

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<b>EF Johnson 5300 ES Mobile</b>		Harris P25 Trunking Infrastructure	Motorola ASTRO25 Trunking	TaitNet P25/EADS Core P25	EF Johnson IP25 Trunking Infrastructure	PowerTrunk B800014 Trunking	
<b>Test Case</b>	<b>Description</b>						
<b>2.2.4</b>	<b>Broadcast Voice Call</b>						
<b>2.2.4.4.1</b>	Test Case 1 – Broadcast Voice Call						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.5</b>	<b>Affiliation</b>						
<b>2.2.5.4.1</b>	<i>Test Case 1 - Radio Permitted To Affiliate With New Group</i>						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.5.4.2</b>	<i>Test Case 2 - Radio Denied Affiliation To New Group</i>						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.6</b>	<b>Announcement Group Call</b>						
<b>2.2.6.4.1</b>	Test Case 1 - Collection Of Talk Groups Receive Call						
	Home Operation	P	P	P	P	N6	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.7</b>	<b>Emergency Alarm</b>						
<b>2.2.7.4.1</b>	Test Case 1 - Emergency Alarm						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	

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<b>EF Johnson 5300 ES Mobile</b>		Harris P25 Trunking Infrastructure	Motorola ASTRO25 Trunking	TaitNet P25/EADS Core P25	EF Johnson IP25 Trunking Infrastructure	PowerTrunk B800014 Trunking	
<b>Test Case</b>	<b>Description</b>						
<b>2.2.8</b>	<b>Emergency Group Call</b>						
<b>2.2.8.4.1</b>	Test Case 1 - Emergency Call						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.10</b>	<b>Encryption</b>						
<b>2.2.10.4.1</b>	Test Case 1 - Call Privacy For Encrypted Call						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	
<b>2.2.11</b>	<b>Intra-Location Registration Area Roaming</b>						
<b>2.2.11.4.1</b>	Test Case 1 – Idle Radio						
	Home Operation	P	P	P	P	P	
	Inter-System Operation	N1	N1	N1	N1	N1	
	Inter-WACN Operation	N1	N1	N1	N1	N1	

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Model Class Definition		Applied to P25-CAB-CAI_Test_Req Mar 2010, 2.1.3.2
Model Class Name	Product Name, Definition, and Unique ID	Installed Options
5300 ES Series Mobile	5300 ES Series Mobile	<b>Firmware:</b> 6.10.6
	5300 ES Series Mobile	<b>Firmware:</b> 6.12.2

Test Case Result Definitions	
<b>No Test Performed</b>	---
<b>Test Does Not Apply to the Test Object</b>	N/A
<b>Test Object Meets Requirements</b>	P (Pass)
<b>Test Object Does Not Meet Requirements</b>	F (Fail)
<b>Test Object is Not Conclusive</b>	I (Inconclusive)

Comments
N/A 1: Test case 2.2.3.4.3 is not applicable for Taitnet/EADS COR P25 Infrastructure; see results of test case 2.2.3.4.4
N/A 2: Test case 2.2.3.4.4 is not applicable for these infrastructures; see results of test 2.2.3.4.3
N/A 3: Test case 2.2.3.4.3 is not applicable for PowerTrunk 25 infrastructure; see results of test case 2.2.3.4.4
N1: EF Johnson 5300 ES subscriber does not support these features
N2: Motorola trunking system release 7.7 and EF Johnson 5300 ES subscriber do not support these features
N3: TaitNet P25 / EADS COR P25 and EF Johnson 5300 ES subscriber do not support these features
N4: EF Johnson trunking system release 3.1-RC1 and EF Johnson 5300 ES subscriber do not support these features
N5: PowerTrunk 25 infrastructure and EF Johnson 5300ES Subscriber do not support these features
N6: PowerTrunk 25 infrastructure does not support these features
P1: EF Johnson 5300 ES VHF subscriber passes Reference Sensitivity ( $\leq -116$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P2: EF Johnson 5300 ES VHF subscriber passes Faded Reference Sensitivity ( $\leq -108$ dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P3: EF Johnson 5300 ES VHF subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) ( $\geq 50$ $\mu$ s) and Simulcast modulations ( $\geq 80$ $\mu$ s).
P4: EF Johnson 5300 ES VHF subscriber passes Adjacent Channel Rejection ( $\geq 60$ dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.

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**OMB NO:** 1640-0015

**EXPIRATION DATE:** 04/30/2012

**Burden Statement**

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DHS FORM 10044 – June 2009