

Project 25 Compliance Assessment Program
 Summary Test Report
 EF Johnson Viking VP900 VHF and 700/800 MHz Portable Subscriber Unit
 STR-EFJ-14070304
 July 3, 2014

Test Item Description	
Manufacturer	EF Johnson Technologies
Manufacturer Contact	John Oblak (507) 837-5116
Product Name	Viking VP900 VHF (136 MHz to 174 MHz) and 700/800 MHz Portable Subscriber Unit
Installed Options	Limited and Full Keypad, SEM Installed
Vocoder Identification	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	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	October 8, 2013 to November 1, 2013
Date of Issue	November 6, 2013

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	January 24, 2013 to January 29, 2013
Date of Issue	February 1, 2013

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	October 5, 2012
Date of Issue	October 8, 2012

Test Information	
P25 CAP Laboratory Code	P25CAP081016 (Timco Engineering)
Date(s) of Test	July 24, 2012
Date of Issue	July 31, 2012

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Test Information	
P25 CAP Laboratory Code	P25CAP081017 (Harris)
Date(s) of Test	December 11, 2012
Date of Issue	December 17, 2012

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	January 28, 2013
Date of Issue	February 4, 2013

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	June 5, 2014 to June 6, 2014
Date of Issue	July 3, 2014

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

Other Devices Tested with Viking VP600 Portable Subscriber Unit		
Manufacturer	Product Name, Definition, and Unique ID	Installed Options
Tait	TN9400 TaitNet P25	Firmware 3.70, Kernel 3.60
EF Johnson	IP25 Trunked Infrastructure	Release 3.1-RC1
Harris	P25 Trunked Infrastructure	Release PR9D
EF Johnson	Atlas Trunked Infrastructure	TSNI 1.0.5-1
Motorola Solutions	ASTRO Trunked Infrastructure	Release 25.7.14

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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-P25CAP081010-13110601	
Receiver Tests (700/800 MHz)			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	≥ 50 μs	P3
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P
2.1.17	Late Entry Unsquench Delay		
	No Talk Group or Encryption	≤ 125 ms	P
	Talk Group Only	≤ 370 ms	P
	Encryption Only	≤ 370 ms	P
	Both Talk Group and Encryption	≤ 460 ms	P
2.1.18	Receiver Throughput Delay	≤ 125 ms	P

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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-P25CAP081010-13110601	
Receiver Tests (VHF)			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P5
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P6
2.1.6	Signal Delay Spread Capability	≥ 50 μ s	P7
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P8
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P
2.1.17	Late Entry Unsquench Delay		
	No Talk Group or Encryption	≤ 125 ms	P
	Talk Group Only	≤ 370 ms	P
	Encryption Only	≤ 370 ms	P
	Both Talk Group and Encryption	≤ 460 ms	P
2.1.18	Receiver Throughput Delay	≤ 125 ms	P

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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-P25CAP081010-13110601	
Transmitter Tests (800 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio		
	Offset From Center Frequency (kHz)		
	9.375	≥ 40 dB	P
	15.625, 21.875, 37.5	≥ 60 dB	P
	62.5, 87.5, 150, 250, 350	≥ 65 dB	P
	>400 kHz to 12 MHz	≥ 75 dB	P
2.2.12	12 MHz to paired RX Band	≥ 75 dB	P
	In the paired RX Band	≥ 100 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	2544 Hz < f _{dev} ≤ 3111 Hz	P
	Low Level Signal Deviation	848 Hz < f _{dev} ≤ 1037 Hz	P
2.2.16	Modulation Fidelity	≤ 5% (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval t ₁ = 20 ms	Δf ≤ 12.5 kHz	P
	Time Interval t ₂ = 50 ms	Δf ≤ 6.25 kHz	P
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	P

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Transmitter Tests (VHF)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 5$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 20$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 5$ ms	$ \Delta f \leq 12.5$ kHz	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.1.1.2 – Project 25 Phase 1 Common Air Interface Trunked Subscriber Unit Performance		DTR-P25CAP081010-13110601 DTR-P25CAP081010-13020101	
Receiver Tests (700/800 MHz)			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P1
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P2
2.1.6	Signal Delay Spread Capability	≥ 50 μs	P3
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P4
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P

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Receiver Tests (VHF)			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P5
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P6
2.1.6	Signal Delay Spread Capability	≥ 50 μs	P7
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P8
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 70 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 70 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P

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Transmitter Tests (800 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio		
	Offset From Center Frequency (kHz)		
	9.375	≥ 40 dB	P
	15.625, 21.875, 37.5	≥ 60 dB	P
	62.5, 87.5, 150, 250, 350	≥ 65 dB	P
	>400 kHz to 12 MHz	≥ 75 dB	P
2.2.12	12 MHz to Paired RX Band	≥ 75 dB	P
	In the Paired RX Band	≥ 100 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	2544 Hz < f _{dev} ≤ 3111 Hz	P
	Low Level Signal Deviation	848 Hz < f _{dev} ≤ 1037 Hz	P
2.2.16	Modulation Fidelity	≤ 5% (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval t ₁ = 20 ms	Δf ≤ 12.5 kHz	P
	Time Interval t ₂ = 50 ms	Δf ≤ 6.25 kHz	P
	Time Interval t ₃ = 10 ms	Δf ≤ 12.5 kHz	P

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Transmitter Tests (VHF)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.12	Transmitter Power and Encoder Attack Time		
	Power Attack Time	≤ 50 ms	P
	Encoder Attack Time	≤ 100 ms	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	P
2.2.15	Frequency Deviation for C4FM		
	High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 5$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 20$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 5$ ms	$ \Delta f \leq 12.5$ kHz	P

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Trunked Subscriber Unit Tests			
Test Case	Description	Requirement	Results
2.3.1	Trunking Control Channel Slot Times (45 ms slot) N7 Encode Attack Time RF Power Attack Time RF Power Turn Off Time	2.00 ms ≤ t ≤ 11.65 ms 0 ms ≤ t ≤ 11.65 ms ≤ 1.57 ms	P P P
2.3.2	Trunking Request Time	≤ 167.5 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	≤ 150.0 ms	P

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EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.1	Full Registration					
2.2.1.4.1	Test Case 1 - Valid Registration					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.2	Test Case 2 – Denied or Refused					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.1.4.3	Test Case 3 - Unverified Registration					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2	Group Voice Call					
2.2.2.4.1	Test Case 1 – Group Call Granted					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.2	Test Case 2 – Group Call Denied					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.2.4.3	Test Case 3 – Group Call Request					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

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EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.3	Unit-To-Unit Voice Call					
2.2.3.4.1	Test Case 1 – Unit-To-Unit Call With Target Availability Check					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.2	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied By Target					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.3	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check					
	Home Operation	N/A 1	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.4	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target availability check					
	Home Operation	P	N/A 2	N/A 2	N/A 2	N/A 2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.5	Test Case 5 – Unit-To-Unit Call Without Target Availability Check					
	Home Operation	N2	N2	P	N2	N2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

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EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.3	Unit-To-Unit Voice Call					
2.2.3.4.6	Test Case 6 – Unit-To-Unit Call Queued Without Target Availability Check					
	Home Operation	N2	N2	P	N2	N2
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.3.4.7	Test Case 7 – Unit-To-Unit Call Denied					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

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EF Johnson Viking V900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.4	Broadcast Voice Call					
2.2.4.4.1	Test Case 1 – Broadcast Voice Call					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.5	Affiliation					
2.2.5.4.1	<i>Test Case 1 - Radio Permitted To Affiliate With New Group</i>					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.5.4.2	Test Case 2 - Radio Denied Affiliation To New Group					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.6	Announcement Group Call					
2.2.6.4.1	Test Case 1 - Collection Of Talk Groups Receive Call					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.7	Emergency Alarm					
2.2.7.4.1	Test Case 1 - Emergency Alarm					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

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EF Johnson Viking VP900 Portable		TN9400 TaitNet P25	EF Johnson IP25 Trunking Infrastructure	Harris Trunked Infrastructure	EF Johnson Atlas Trunked Infrastructure	Motorola Solutions ASTRO Trunked Infrastructure
Test Case	Description					
2.2.8	Emergency Group Call					
2.2.8.4.1	Test Case 1 - Emergency Call					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.10	Encryption					
2.2.10.4.1	Test Case 1 - Call Privacy For Encrypted Call					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6
2.2.11	Intra-Location Registration Area Roaming					
2.2.11.4.1	Test Case 1 – Idle Radio					
	Home Operation	P	P	P	P	P
	Inter-System Operation	N3	N4	N5	N4	N6
	Inter-WACN Operation	N3	N4	N5	N4	N6

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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
Viking VP900 Series Portable	Viking VP900 Portable	Firmware: 8.7.10

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

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Comments
N/A 1: Test case 2.2.3.4.3 is not applicable for TN9400 Taitnet 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.
N1: EF Johnson VP600/VP900 subscriber does not support these features.
N2: Infrastructure does not support this mode of operation.
N3: TN9400 TaitNet P25 and EF Johnson Viking VP600/VP900 subscriber do not support these features.
N4: EF Johnson trunking system release 3.1-RC1, EF Johnson Atlas TSNI 1.0.5-1, and EF Johnson Viking VP600/VP900 subscriber do not support these features.
N5: Harris infrastructure release PR9D and EF Johnson Viking VP600 subscriber do not support these features.
N6: Motorola infrastructure release 25 and EF Johnson Viking VP600 subscriber do not support these features.
N7: VP900 meets timing requirements in the 45 ms slot timing mode.
P1: EF Johnson Viking VP900 700/800 MHz subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P2: EF Johnson Viking VP900 700/800 MHz subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P3: EF Johnson Viking VP900 700/800 MHz subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (≥ 50 μ s) and Simulcast modulations (≥ 80 μ s).
P4: EF Johnson Viking VP900 700/800 MHz subscriber passes Adjacent Channel Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P5: EF Johnson Viking VP900 VHF subscriber passes Reference Sensitivity (≤ -116 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P6: EF Johnson Viking VP900 VHF subscriber passes Faded Reference Sensitivity (≤ -108 dBm) specification for C4FM (Non-Simulcast) and Simulcast modulations.
P7: EF Johnson Viking VP900 VHF subscriber passes Signal Delay Spread Capability specification for C4FM (Non-Simulcast) (≥ 50 μ s) and Simulcast modulations (≥ 80 μ s).
P8: EF Johnson Viking VP900 VHF subscriber passes Adjacent Channel Rejection (≥ 60 dB) specification for C4FM (Non-Simulcast) and Simulcast modulations.

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OMB NO: 1640-0015

EXPIRATION DATE: 07/31/2015

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