


TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT		CVH12.DAT															
By: TEST SYSTEMS, Inc.		11/20/13 (14:52:10)															
<b>CUSTOMER:</b>  Microsemi SOC Corp. 3870 N. First Street San Jose, CA 95134		<b>TEST STARTED:</b>  Nov. 20, 2013  <b>TEST COMPLETED:</b>  Nov. 20, 2013															
<b>UNIT UNDER TEST IDENTIFICATION:</b>  CORE1553BRM v4.0.007 running VHDL at 12 MHz (CVH12) Tested on SF2-CORE1553-DB (DVP-101-000404-001) Board REV-A and M2GL\M2S-EVAL-KIT REV-C (DVP-102-000402-001 RevC) using Aeroflex ACT 4453-001-5 Transceiver and Holt PM-DB2744 Transformers																	
<table border="1"> <thead> <tr> <th>SUMMARY OF TEST RESULTS:</th> <th>A-Bus</th> <th>B-Bus</th> </tr> </thead> <tbody> <tr> <td>Electrical:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Required Protocol:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Optional Protocol:</td> <td>Passed</td> <td>Passed</td> </tr> <tr> <td>Noise Rejection:</td> <td>Passed</td> <td>Passed</td> </tr> </tbody> </table>			SUMMARY OF TEST RESULTS:	A-Bus	B-Bus	Electrical:	Passed	Passed	Required Protocol:	Passed	Passed	Optional Protocol:	Passed	Passed	Noise Rejection:	Passed	Passed
SUMMARY OF TEST RESULTS:	A-Bus	B-Bus															
Electrical:	Passed	Passed															
Required Protocol:	Passed	Passed															
Optional Protocol:	Passed	Passed															
Noise Rejection:	Passed	Passed															
<b>CERTIFICATE OF COMPLIANCE:</b>  TEST SYSTEMS, Inc., certifies that this MIL-STD-1553B REMOTE TERMINAL VALIDATION TEST REPORT provides the results of the RT Validation Testing performed on November 20, 2013, in Phoenix, AZ, for Microsemi SOC. TEST SYSTEMS, Inc., further certifies that this testing was in accordance with the RT VALIDATION TEST PROCEDURE dated 06-03-96 and complies with the RT Validation Test Plan (MIL-HDBK-1553 Appendix A) with the exceptions noted on page 2.																	
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">   <u>Leroy Earhart</u> </div> <div style="text-align: center;"> <u>11/20/2013</u>            Date         </div> </div>																	
TEST SYSTEMS, Inc. 217 W. Palmarie Phoenix, AZ 85021 602/861-1010																	
<b>SUBTITLE:</b> Test Summary		<b>DATE:</b> 20 Nov 2013 <b>TIME:</b> 16:52:39															
		<b>Page:</b> 1 of 26															

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT		CVH12.DAT
By: TEST SYSTEMS, Inc.		11/20/13 (14:52:10)
EXCEPTIONS TO THE RT VALIDATION TEST PLAN:		
<p>1. Step 6 of Reset remote terminal (5.2.1.5.3) is changed to repeat step 4 rather than step 5. (Error in Test Plan.)</p> <p>2. Frequency Stability (5.1.1.10) and Terminal Fail-Safe (5.2.1.3.7) tests were not run.</p> <p>3. Not all commands which cause the BUSY bit to be set are recorded for every test. This can be impractical in tests where 10,000 iterations are performed because of the volume of information that would be generated. Rather than recording each scenario in which the BUSY bit is set, this report provides a count of the messages in the scenarios which have the BUSY bit set.</p>		
TEST COMMENTS:		
<p>Remote Terminal Address and Status bits of Service Request, Busy and Terminal Flag were set and reset manually as required in the test plan from a laptop computer through a USB link on the unit and Subsystem Flag was set and reset using a switch on the unit.</p> <p>5.1.1.3 Zero Crossing - An additional test was run off-line to measure the time of the first half sync from +3.0 volts to -3.0 volts. The nominal time is 1500 ns. Bus A 1514 ns; Bus B 1514 ns.</p> <p>5.1.2.3 Input Impedance magnitude measurements recorded as 9999 ohms are actually 9999 ohms or greater.</p> <p>5.3 Noise Rejection passed on both Buses with 170 mv of noise (30 mv more than required).</p> <p>Protocol in this report was run with the illegalization shown on pages 4 and 5 implemented with the registers within the core. This illegalization was done to demonstrate the illegalization capability of the core.</p>		
SUBTITLE:	DATE: 20 Nov 2013 TIME: 16:52:39	Page: 2 of 26

## TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT

CVH12.DAT

By: TEST SYSTEMS, Inc.

11/20/13 (14:52:10)

## NOTE:

Command words are expressed in four fields with 5 bits in the first, third and fourth fields and 1 bit in the second field. Status words are expressed in four fields with 5 bits in the first and fourth fields and 3 bits in the second and third fields. Each field is given in decimal.

## TEST PERSONNEL:

Leroy Earhart	TSI
Eugene O'Rourke	Microsemi

## EQUIPMENT LIST:

EQUIPMENT TYPE	MANUFACTURER	CALIBRATION	
	MODEL NO./SERIAL NO.	Date Done	Date Due
1553 BUS TESTER *	TSI 122 / 8804111	N/A	
Oscilloscope	MSOX3054A/MY52010665	01/27/12	01/27/14
Differential Probe	AG N2791A / PH49270334	N/A	
True RMS Voltmeter	HP 3400A / 1218A27635	04/08/13	04/08/15
Impedance Analyzer	HP 4192A /2830J06227	04/08/13	04/08/15
Function Generator	Tenma 72-5015/ 8981068	N/A	
Connection Panel	TSI 0100 / 900101	N/A	

\* The 1553 BUS TESTER was modified by installing a single board computer and the following three TSI cards inside the chassis:  
PC/AT PARALLEL I/O CARD, MANCHESTER CARD & 1553 NOISE GENERATOR CARD

SUBTITLE:

DATE: 20 Nov 2013

Page:

TIME: 16:52:39

3 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT	CVH12.DAT
By: TEST SYSTEMS, Inc.	11/20/13 (14:52:10)

Valid, Legal Non-Broadcast Commands (if not marked by '-')

Receive (T/R=0) Word Count Field	Transmit (T/R=1) Word Count Field
111111111122222222233	111111111122222222233
SA 01234567890123456789012345678901	SA 01234567890123456789012345678901
0 -----7-----	0 -12345678-----6-89-----
1 01234567890123456789012345678901	1 01234567890123456789012345678901
2 01234567890123456789012345678901	2 01234567890123456789012345678901
3 01234567890123456789012345678901	3 01234567890123456789012345678901
4 01234567890123456789012345678901	4 01234567890123456789012345678901
5 01234567890123456789012345678901	5 01234567890123456789012345678901
6 01234567890123456789012345678901	6 01234567890123456789012345678901
7 01234567890123456789012345678901	7 01234567890123456789012345678901
8 01234567890123456789012345678901	8 01234567890123456789012345678901
9 01234567890123456789012345678901	9 01234567890123456789012345678901
10 01234567890123456789012345678901	10 01234567890123456789012345678901
11 01234567890123456789012345678901	11 01234567890123456789012345678901
12 01234567890123456789012345678901	12 01234567890123456789012345678901
13 01234567890123456789012345678901	13 01234567890123456789012345678901
14 01234567890123456789012345678901	14 01234567890123456789012345678901
15 01234567890123456789012345678901	15 01234567890123456789012345678901
16 01234567890123456789012345678901	16 01234567890123456789012345678901
17 01234567890123456789012345678901	17 01234567890123456789012345678901
18 01234567890123456789012345678901	18 01234567890123456789012345678901
19 01234567890123456789012345678901	19 01234567890123456789012345678901
20 01234567890123456789012345678901	20 01234567890123456789012345678901
21 01234567890123456789012345678901	21 01234567890123456789012345678901
22 01234567890123456789012345678901	22 01234567890123456789012345678901
23 01234567890123456789012345678901	23 01234567890123456789012345678901
24 01234567890123456789012345678901	24 01234567890123456789012345678901
25 -----	25 01234567890123456789012345678901
26 01234567890123456789012345678901	26 -----
27 -----	27 -----
28 01234567890123456789012345678901	28 01234567890123456789012345678901
29 01234567890123456789012345678901	29 01234567890123456789012345678901
30 01234567890123456789012345678901	30 01234567890123456789012345678901
31 -----7-----	31 -12345678-----6-89-----

Illegal Command Detection Implemented:	Yes
Broadcast Implemented:	Yes
Data Wrap-Around	Receive SA: 30      Transmit SA: 30
Terminal Address Used:	3
Coupling Used:	Transformer
Implemented Status bits:	ME SRB BCR BUSY SF TF
Implemented Non-Broadcast Mode Codes:	1,2,3,4,5,6,7,8,16,17,18,19
Implemented Broadcast Mode Codes:	1,3,4,5,6,7,8,17

SUBTITLE: Configuration Used  
Non-Broadcast Commands

DATE: 20 Nov 2013	Page:
TIME: 16:52:39	4 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT	CVH12.DAT
By: TEST SYSTEMS, Inc.	11/20/13 (14:52:10)

Valid, Legal Broadcast Commands (if not marked by '-')

Receive (T/R=0) Word Count Field

Transmit (T/R=1) Word Count Field

1111111111222222222233  
SA 01234567890123456789012345678901

1111111111222222222233  
SA 01234567890123456789012345678901

```

0 -----7-----
1 01234567890123456789012345678901
2 01234567890123456789012345678901
3 01234567890123456789012345678901
4 01234567890123456789012345678901
5 01234567890123456789012345678901
6 01234567890123456789012345678901
7 01234567890123456789012345678901
8 01234567890123456789012345678901
9 01234567890123456789012345678901
10 01234567890123456789012345678901
11 01234567890123456789012345678901
12 01234567890123456789012345678901
13 01234567890123456789012345678901
14 01234567890123456789012345678901
15 01234567890123456789012345678901
16 01234567890123456789012345678901
17 01234567890123456789012345678901
18 01234567890123456789012345678901
19 01234567890123456789012345678901
20 01234567890123456789012345678901
21 01234567890123456789012345678901
22 01234567890123456789012345678901
23 01234567890123456789012345678901
24 01234567890123456789012345678901
25 -----
26 01234567890123456789012345678901
27 -----
28 01234567890123456789012345678901
29 01234567890123456789012345678901
30 01234567890123456789012345678901
31 -----7-----

```

```

0 -1-345678-----
1 -----
2 -----
3 -----
4 -----
5 -----
6 -----
7 -----
8 -----
9 -----
10 -----
11 -----
12 -----
13 -----
14 -----
15 -----
16 -----
17 -----
18 -----
19 -----
20 -----
21 -----
22 -----
23 -----
24 -----
25 -----
26 -----
27 -----
28 -----
29 -----
30 -----
31 -1-345678-----

```

Test STAT abbreviation definitions:

ABRT: Test Aborted	BCR: Broadcast Received	BRTF: Brdcst Rcvd+TermFlag
BUSY: Busy Bit	CS: Clear Status	DEA: Dynamic Bus Accepted
DC: Don't Care	EF: Error Found	Inhb: Operator Inhibited
INVL: Invalid Test	MBR: Msg Err+Brdcst Rcvd	MBRT: ME+TF+BCR
ME: Message Error	MTF: MsgErr+TermFlag	NR: No Response
NRUn: Not Run	RIF: Respond In Form	SF: Subsystem Flag
SR: Service Request	TF: Terminal Flag	TO: Timed Out
VR: Valid Response		

SUBTITLE: Configuration Used  
Broadcast Commands

DATE: 20 Nov 2013  
TIME: 16:52:39

Page:  
5 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S A Meas. STAT	B U S B Meas. STAT		
5.1.1	OUTPUT CHARACTERISTICS						
5.1.1.1	OUTPUT AMPLITUDE Max	18.0-27.0	Vpp	19.81	Pass	19.88	Pass
	Min	18.0-27.0	Vpp	19.56	Pass	19.56	Pass
5.1.1.2	OUTPUT RISE TIME-Sync	100- 300	ns	204	Pass	201	Pass
5.1.1.2	OUTPUT RISE TIME-Data	100- 300	ns	204	Pass	201	Pass
5.1.1.2	OUTPUT FALL TIME-Sync	100- 300	ns	204	Pass	195	Pass
5.1.1.2	OUTPUT FALL TIME-Data	100- 300	ns	205	Pass	200	Pass
5.1.1.3	ZERO CROSSING STAB.						
	500ns Tzcp	475- 525	ns	498	Pass	494	Pass
	1000ns Tzcp	975-1025	ns	1003	Pass	1004	Pass
	1500ns Tzcp	1475-1525	ns	1496	Pass	1497	Pass
	2000ns Tzcp	1975-2025	ns	1997	Pass	1997	Pass
	500ns Tzcn	475- 525	ns	502	Pass	496	Pass
	1000ns Tzcn	975-1025	ns	1005	Pass	1006	Pass
	1500ns Tzcn	1475-1525	ns	1507	Pass	1507	Pass
	2000ns Tzcn	1975-2025	ns	2005	Pass	2005	Pass
5.1.1.4	DISTORTION, OVERSHOOT AND RINGING	$\leq \pm 900$	mVp	50	Pass	50	Pass
5.1.1.5	OUTPUT SYMMETRY						
	(0000)	$\leq \pm 250$	mVp	-53	Pass	9	Pass
	(5555)	$\leq \pm 250$	mVp	-53	Pass	10	Pass
	(7FFF)	$\leq \pm 250$	mVp	-31	Pass	20	Pass
	(8000)	$\leq \pm 250$	mVp	-39	Pass	13	Pass
	(AAAA)	$\leq \pm 250$	mVp	-46	Pass	11	Pass
	(FFFF)	$\leq \pm 250$	mVp	-32	Pass	18	Pass
5.1.1.6	OUTPUT NOISE						
	with power on	$\leq 14$	mVrms	8	Pass	8	Pass
	with power off	$\leq 14$	mVrms	1	Pass	1	Pass
5.1.1.7	OUTPUT ISOLATION	$\geq 45$	db	72	Pass	72	Pass
	Active Bus	18.0-27.0	Vpp	19.81	Pass	19.88	Pass
	Inactive Bus		mVpp	5	Pass	5	Pass
5.1.1.8.1	POWER ON/OFF NOISE						
	Power Up Amplitude	$\leq \pm 250$	mVp	180	Pass	200	Pass
	Pulse Width		us	.1		.1	
	Power Down Amplitude	$\leq \pm 250$	mVp	50	Pass	50	Pass
	Pulse Width		us	.1		.1	
5.1.1.8.2	POWER ON RESPONSE	protocol	---		Pass		Pass
SUBTITLE: Electrical Tests			DATE: 20 Nov 2013		Page:		
5.1.1 Output Characteristics (XFR)			TIME: 16:52:39		6 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT					CVH12.DAT		
By: TEST SYSTEMS, Inc.					11/20/13 (14:52:10)		
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S A Meas. STAT	B U S B Meas. STAT		
5.1.1.9	TERMINAL RESPONSE TIME						
	Transmit	4.0-12.0	us	6.59	Pass	6.57	Pass
	Receive	4.0-12.0	us	6.42	Pass	6.41	Pass
	RT-UUT	4.0-12.0	us	6.42	Pass	6.40	Pass
	Mode Command	4.0-12.0	us	6.59	Pass	6.57	Pass
5.1.1.10	FREQUENCY STABILITY						
	Min. Frequency		kHz				
	Max. Frequency		kHz				
	Avg. Frequency		kHz				
5.1.2	INPUT CHARACTERISTICS						
5.1.2.1.1	ZERO CROSSING DISTORTION						
	Min. Deviation	≤ -150	ns	-178	Pass	-177	Pass
	Max. Deviation	≥ 150	ns	170	Pass	174	Pass
	Plus 150 nsec	protocol	---		Pass		Pass
	Minus 150 nsec	protocol	---		Pass		Pass
5.1.2.1.2	AMPLITUDE VARIATIONS						
	1st CS threshold	200- 860	mVpp	606	Pass	580	Pass
	1st NR threshold	200- 860	mVpp	606	Pass	580	Pass
5.1.2.1.3	RISE AND FALL TIME						
5.1.2.1.3.1	TRAPEZOIDAL	protocol	---		Pass		Pass
5.1.2.1.3.2	SINUSOIDAL	protocol	---		Pass		Pass
5.1.2.2	COMMON MODE REJECTION						
	+10 volt	protocol	---		Pass		Pass
	-10 volt	protocol	---		Pass		Pass
	±10 volt	protocol	---		Pass		Pass
SUBTITLE: Electrical Tests				DATE: 20 Nov 2013	Page:		
5.1.1.9 Terminal Resp. Time (XFR)				TIME: 16:52:39	7 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT					CVH12.DAT		
By: TEST SYSTEMS, Inc.					11/20/13 (14:52:10)		
Ref. Section	Test Description ( Xformr Coupled )	Limits	Units	B U S Meas.	A STAT	B U S Meas.	B STAT
5.1.2.3	INPUT IMPEDANCE						
	75 kHz Power ON	$\geq 1000$	ohms	9999	Pass	9999	Pass
	Phase Angle		degs	46		42	
	100 kHz Power ON	$\geq 1000$	ohms	9999	Pass	9999	Pass
	Phase Angle		degs	18		9	
	250 kHz Power ON	$\geq 1000$	ohms	8155	Pass	7435	Pass
	Phase Angle		degs	-62		-66	
	500 kHz Power ON	$\geq 1000$	ohms	3753	Pass	3432	Pass
	Phase Angle		degs	-77		-79	
	1.0 MHz Power ON	$\geq 1000$	ohms	1846	Pass	1690	Pass
	Phase Angle		degs	-83		-84	
	75 kHz Power OFF	$\geq 1000$	ohms	9999	Pass		Pass
	Phase Angle		degs	38			
	100 kHz Power OFF	$\geq 1000$	ohms	9999	Pass		Pass
	Phase Angle		degs	5			
	250 kHz Power OFF	$\geq 1000$	ohms	7018	Pass		Pass
	Phase Angle		degs	-65			
	500 kHz Power OFF	$\geq 1000$	ohms	3280	Pass		Pass
	Phase Angle		degs	-78			
	1.0 MHz Power OFF	$\geq 1000$	ohms	1616	Pass		Pass
	Phase Angle		degs	-84			
SUBTITLE: Electrical Tests			DATE: 20 Nov 2013		Page:		
5.1.2.3 Input Impedance (XFR)			TIME: 16:52:39		8 of 26		



TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.1	Response to Command Words							
5.2.1.1.1	RT Response to Commands							
	Non-Broadcast Commands							
	Valid, Legal Commands	3 0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 1792/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1792/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 128/ 0/ 0)	3-0-25-00	3-4-0-00	ME	3-0-25-00	3-4-0-00	ME	
	B: ( 128/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 61440/ 0/ 0)	0-0-00-00	- - -	NR	0-0-00-00	- - -	NR	
	B: ( 61440/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 16/ 0/ 0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS	
	B: ( 16/ 0/ 0)	3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 6/ 0/ 0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME	
	B: ( 6/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 98/ 0/ 0)	3-0-00-00	3-4-0-00	ME	3-0-00-00	3-4-0-00	ME	
	B: ( 98/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:				
5.2.1.1. Response to Command Words		TIME: 16:52:39		9 of 26				

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.1	RT Response to Commands						
	Broadcast Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 896/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
	B: ( 896/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Valid, Illegal Commands	3-0-02-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 1024/ 0/ 0)	31-0-25-00	- - -	NR	31-0-25-00	- - -	NR
	B: ( 1024/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Invalid Commands			N/A			N/A
				N/A			N/A
				N/A			N/A
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 8/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B: ( 8/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Illegal Mode Commands	3-0-02-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 14/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR
	B: ( 14/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 98/ 0/ 0)	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR
	B: ( 98/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:			
5.2.1.1. Response to Command Words		TIME: 16:52:39		10 of 26			

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT  
By: TEST SYSTEMS, Inc.

CVH12.DAT  
11/20/13 (14:52:10)

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.2	RT-RT Response to Command Words Non-Broadcast Receive Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 896/ 0/ 0)	3-0-01-01	3-0-0-00	CS	3-0-01-01	3-0-0-00	CS
	B: ( 896/ 0/ 0)	4-1-01-02	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 64/ 0/ 0)	3-0-25-01	3-4-0-00	ME	3-0-25-01	3-4-0-00	ME
	B: ( 64/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 30720/ 0/ 0)	0-0-00-00	- - -	NR	0-0-00-00	- -	NR
	B: ( 30720/ 0/ 0)	2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS
	B: ( 2/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-0-00-20	3-4-0-00	ME	3-0-00-20	3-4-0-00	ME
	B: ( 4/ 0/ 0)	4-1-01-01	4-0-0-00	CS	4-1-01-01	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 58/ 0/ 0)	2-0-00-00	3-4-0-00	ME	2-0-00-00	3-4-0-00	ME
	B: ( 58/ 0/ 0)	4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME

SUBTITLE: Required Protocol Tests  
5.2.1.1. Response to Command Words

DATE: 20 Nov 2013  
TIME: 16:52:39

Page:  
11 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.1	Response to Command Words							
5.2.1.1.2	RT-RT Response to Command Words Non-Broadcast Transmit Commands							
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 896/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR	
	B: ( 896/ 0/ 0)	3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 64/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR	
	B: ( 64/ 0/ 0)	3-1-26-01	3-4-0-00	ME	3-1-26-01	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Invalid Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 30720/ 0/ 0)	2-0-01-00	- - -	NR	2-0-01-00	- - -	NR	
	B: ( 30720/ 0/ 0)	0-1-00-00	- - -	NR	0-1-00-00	- - -	NR	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 14/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 14/ 0/ 0)	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 2/ 0/ 0)	3-1-00-00	3-4-0-00	ME	3-1-00-00	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 40/ 0/ 0)	4-0-01-00	- - -	NR	4-0-01-00	- - -	NR	
	B: ( 40/ 0/ 0)	3-1-00-09	3-4-0-00	ME	3-1-00-09	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:				
5.2.1.1. Response to Command Words		TIME: 16:52:39		12 of 26				

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.2	RT-RT Response to Command Words Broadcast Receive Commands						
	Valid, Legal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 896/ 0/ 0)	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	B: ( 896/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 64/ 0/ 0)	31-0-25-01	- - -	NR	31-0-25-01	- - -	NR
	B: ( 64/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Invalid Commands			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B: ( 2/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR
	B: ( 4/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 58/ 0/ 0)	31-0-00-00	- -	NR	31-0-00-00	- - -	NR
	B: ( 58/ 0/ 0)	0-1-01-00	0-0-0-00	CS	0-1-01-00	0-0-0-00	CS
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:			
5.2.1.1. Response to Command Words		TIME: 16:52:39		13 of 26			

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.1	Response to Command Words						
5.2.1.1.2	RT-RT Response to Command Words Broadcast Transmit Commands						
	Valid, Legal Commands			N/A N/A N/A N/A			N/A N/A N/A N/A
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 960/ 0/ 0)	0-0-01-01	- - -	NR	0-0-01-01	- - -	NR
	B: ( 960/ 0/ 0)	31-1-01-01	- - -	NR	31-1-01-01	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Invalid Commands			N/A N/A N/A N/A			N/A N/A N/A N/A
	Legal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 6/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR
	B: ( 6/ 0/ 0)	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 10/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR
	B: ( 10/ 0/ 0)	31-1-00-00	- - -	NR	31-1-00-00	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	Undefined Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 40/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR
	B: ( 40/ 0/ 0)	31-1-00-09	- - -	NR	31-1-00-09	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.2	Intermessage Gap							
5.2.1.2.1	Minimum Time							
	BC-UUT Transfer	3-0-05-00	3-0-0-00	CS	3-0-05-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	UUT-BC Transfer	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	UUT/RT Transfer	3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	RT/UUT Transfer	25-0-01-00	25-0-0-00	DC	4-0-01-00	4-0-0-00	DC	
	A: ( 1000/ 0/ 0)	3-1-24-00	3-0-0-00	CS	3-1-24-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Mode Command w/o data	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Mode Command, Transmit w/Data	3-1-00-16	3-0-0-00	CS	3-1-00-16	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Mode Command, Receive w/Data	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast BC-UUT	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast RT/UUT	31-0-01-30	- - -	NR	31-0-01-30	- - -	NR	
	A: ( 1000/ 0/ 0)	3-1-30-30	3-0-0-00	CS	3-1-30-30	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Broadcast UUT/RT	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
	A: ( 1000/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS	
	B: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	Broadcast Mode Cmnd w/o data	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
	Broadcast Mode Cmnd w/data	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
	A: ( 1000/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 1000/ 0/ 0)							
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.1.2. Intermessage Gap				TIME: 16:52:39		15 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT  
By: TEST SYSTEMS, Inc.

CVH12.DAT  
11/20/13 (14:52:10)

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.2	Intermessage Gap						
5.2.1.2.2	Transmission Rate						
	Transmit-Transmit	3-1-06-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	A: ( 19328/ 0/ 0)	3-1-07-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 19332/ 0/ 0)	3-1-06-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-1-07-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	Busy (usec)		0			0	
	Receive-Receive	3-0-10-00	3-0-0-00	CS	3-0-10-00	3-0-0-00	CS
	A: ( 19310/ 0/ 0)	3-0-11-00	3-0-0-00	CS	3-0-11-00	3-0-0-00	CS
	B: ( 19306/ 0/ 0)	3-0-10-00	3-0-0-00	CS	3-0-10-00	3-0-0-00	CS
		3-0-11-00	3-0-0-00	CS	3-0-11-00	3-0-0-00	CS
	Busy (usec)		0			0	
	Transmit-Receive	3-1-20-00	3-0-0-00	CS	3-1-20-00	3-0-0-00	CS
	A: ( 19312/ 0/ 0)	3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS
	B: ( 19340/ 0/ 0)	3-1-20-00	3-0-0-00	CS	3-1-20-00	3-0-0-00	CS
		3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS
	Busy (usec)		0			0	
5.2.1.3	Error Injection						
5.2.1.3.1	Parity						
5.2.1.3.1.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.1.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.1.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 32/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 32/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
SUBTITLE: Required Protocol Tests			DATE: 20 Nov 2013		Page:		
5.2.1.2. Intermessage Gap			TIME: 16:52:39		16 of 26		



TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.3.2	Word Length						
5.2.1.3.2.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.2.2	Receive Command						
	Short Receive commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	Long Receive commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.2.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 126/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 126/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.3	Bi-Phase Encoding						
5.2.1.3.3.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 34/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 34/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.3.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 34/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 34/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.3.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 1088/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 1088/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
5.2.1.3.4	Sync Encoding						
5.2.1.3.4.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 5/ 0/ 0)	3-1-06-00	- - -	NR	3-1-06-00	- - -	NR
	B: ( 5/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.4.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 5/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 5/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.3.4.3	Receive Data Words	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 160/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR
	B: ( 160/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.1.3.2. Word Length				TIME: 16:52:39		17 of 26	

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.3.5	Message Length							
5.2.1.3.5.1	Transmit Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-1-06-00	- - -	NR	3-1-06-00	- - -	NR	
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
5.2.1.3.5.2	Receive Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 33/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR	
	B: ( 33/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
5.2.1.3.5.3	Receive Mode Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	3-0-00-17	- - -	NR	3-0-00-17	- - -	NR	
	B: ( 2/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
	Transmit Mode Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 1/ 0/ 0)	3-1-00-01	- - -	NR	3-1-00-01	- - -	NR	
	B: ( 1/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
5.2.1.3.5.4	RT-RT Word Count Error	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS	
	B: ( 2/ 0/ 0)	3-0-08-00	- - -	NR	3-0-08-00	- - -	NR	
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS	
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
5.2.1.3.6	Contiguous Data	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 32/ 0/ 0)	3-0-05-00	- - -	NR	3-0-05-00	- - -	NR	
	B: ( 32/ 0/ 0)	3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
5.2.1.3.7	Terminal Fail-Safe							
5.2.1.4	Superseding Commands							
	part A	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	part B	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
	part C	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	part D	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.1.3.5. Message Length				TIME: 16:52:39		18 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.5	Required Mode Commands						
5.2.1.5.1	Transmit Status	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	B: ( 2/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
5.2.1.5.2	Xmtr Shutdown/Override	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B: ( 4/ 0/ 0)	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-1-00-05	- - -	NR	3-1-00-05	- - -	NR
		3-0-01-00	- - -	NR	3-0-01-00	-	NR
		3-1-00-05	3-0-0-00	CS	3-1-00-05	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.1.5.3	Reset Remote Terminal						
	Delay to Stable Response	3-1-00-08	3-0-0-00	CS	3-1-00-08	3-0-0-00	CS
	A: ( 1764/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B: ( 1764/ 0/ 0)						
	(T ≤ 5000us)		4			4	
	Shutdown	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS
	A: ( 2/ 0/ 0)	3-1-01-00	- - -	NR	3-1-01-00	- - -	NR
	B: ( 2/ 0/ 0)	3-1-00-08	3-0-0-00	CS	3-1-00-08	3-0-0-00	CS
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
5.2.1.6	Data Wrap-around	3-0-30-00	3-0-0-00	CS	3-0-30-00	3-0-0-00	CS
	A: ( 10000/ 0/ 0)	3-1-30-00	3-0-0-00	CS	3-1-30-00	3-0-0-00	CS
	B: ( 10000/ 0/ 0)						
5.2.1.7	RT-RT Timeout Delay						
	Time to first NR	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
	(54us ≤ T ≤ 60us)		57.5			57.5	
	Time to first CS	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		4-1-01-00	4-0-0-00	CS	4-1-01-00	4-0-0-00	CS
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS
	(54us ≤ T ≤ 60us)		57.0			57.0	
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.1.5. Required Mode Commands				TIME: 16:52:39		19 of 26	

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.1.8	Bus Switching							
	RT Transmitting							
	Valid, Legal Command	3-1-02-00	- - -	NR	3-1-02-00	- - -	NR	
	A: ( 10945/ 0/ 0)	3-1-05-00	3-0-0-00	CS	3-1-05-00	3-0-0-00	CS	
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	Command w/Parity Error	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS	
	A: ( 10945/ 0/ 0)	3-1-05-00	- - -	NR	3-1-05-00	- - -	NR	
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	Command to another RT	3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS	
	A: ( 10945/ 0/ 0)	4-1-05-00	- - -	NR	4-1-05-00	- - -	NR	
	B: ( 10945/ 0/ 0)	3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	RT Receiving							
	Valid, Legal Command	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS	
	B: ( 11649/ 0/ 0)	3-1-05-00	3-0-0-00	CS	3-1-05-00	3-0-0-00	CS	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	Command w/Parity Error	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS	
	B: ( 11649/ 0/ 0)	3-1-05-00	- - -	NR	3-1-05-00	- - -	NR	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
	Command to another RT	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 11649/ 0/ 0)	4-1-05-00	4-0-0-00	CS	4-1-05-00	4-0-0-00	CS	
	B: ( 11649/ 0/ 0)	4-1-05-00	- - -	NR	4-1-05-00	- - -	NR	
		3-1-00-02	3-0-0-00	CS	3-1-00-02	3-0-0-00	CS	
SUBTITLE: Required Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.1.8. Bus Switching				TIME: 16:52:39		20 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT					CVH12.DAT		
By: TEST SYSTEMS, Inc.					11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.1.9	Unique UUT Address part A						
	UUT Adr 0	0-0-05-00	0-0-0-00	CS	0-0-05-00	0-0-0-00	CS
	UUT Adr 1	1-0-05-00	1-0-0-00	CS	1-0-05-00	1-0-0-00	CS
	UUT Adr 2	2-0-05-00	2-0-0-00	CS	2-0-05-00	2-0-0-00	CS
	UUT Adr 3	3-0-05-00	3-0-0-00	CS	3-0-05-00	3-0-0-00	CS
	UUT Adr 4	4-0-05-00	4-0-0-00	CS	4-0-05-00	4-0-0-00	CS
	UUT Adr 5	5-0-05-00	5-0-0-00	CS	5-0-05-00	5-0-0-00	CS
	UUT Adr 6	6-0-05-00	6-0-0-00	CS	6-0-05-00	6-0-0-00	CS
	UUT Adr 7	7-0-05-00	7-0-0-00	CS	7-0-05-00	7-0-0-00	CS
	UUT Adr 8	8-0-05-00	8-0-0-00	CS	8-0-05-00	8-0-0-00	CS
	UUT Adr 9	9-0-05-00	9-0-0-00	CS	9-0-05-00	9-0-0-00	CS
	UUT Adr 10 (0A)	10-0-05-00	10-0-0-00	CS	10-0-05-00	10-0-0-00	CS
	UUT Adr 11 (0B)	11-0-05-00	11-0-0-00	CS	11-0-05-00	11-0-0-00	CS
	UUT Adr 12 (0C)	12-0-05-00	12-0-0-00	CS	12-0-05-00	12-0-0-00	CS
	UUT Adr 13 (0D)	13-0-05-00	13-0-0-00	CS	13-0-05-00	13-0-0-00	CS
	UUT Adr 14 (0E)	14-0-05-00	14-0-0-00	CS	14-0-05-00	14-0-0-00	CS
	UUT Adr 15 (0F)	15-0-05-00	15-0-0-00	CS	15-0-05-00	15-0-0-00	CS
	UUT Adr 16 (10)	16-0-05-00	16-0-0-00	CS	16-0-05-00	16-0-0-00	CS
	UUT Adr 17 (11)	17-0-05-00	17-0-0-00	CS	17-0-05-00	17-0-0-00	CS
	UUT Adr 18 (12)	18-0-05-00	18-0-0-00	CS	18-0-05-00	18-0-0-00	CS
	UUT Adr 19 (13)	19-0-05-00	19-0-0-00	CS	19-0-05-00	19-0-0-00	CS
	UUT Adr 20 (14)	20-0-05-00	20-0-0-00	CS	20-0-05-00	20-0-0-00	CS
	UUT Adr 21 (15)	21-0-05-00	21-0-0-00	CS	21-0-05-00	21-0-0-00	CS
	UUT Adr 22 (16)	22-0-05-00	22-0-0-00	CS	22-0-05-00	22-0-0-00	CS
	UUT Adr 23 (17)	23-0-05-00	23-0-0-00	CS	23-0-05-00	23-0-0-00	CS
	UUT Adr 24 (18)	24-0-05-00	24-0-0-00	CS	24-0-05-00	24-0-0-00	CS
	UUT Adr 25 (19)	25-0-05-00	25-0-0-00	CS	25-0-05-00	25-0-0-00	CS
	UUT Adr 26 (1A)	26-0-05-00	26-0-0-00	CS	26-0-05-00	26-0-0-00	CS
	UUT Adr 27 (1B)	27-0-05-00	27-0-0-00	CS	27-0-05-00	27-0-0-00	CS
	UUT Adr 28 (1C)	28-0-05-00	28-0-0-00	CS	28-0-05-00	28-0-0-00	CS
	UUT Adr 29 (1D)	29-0-05-00	29-0-0-00	CS	29-0-05-00	29-0-0-00	CS
	UUT Adr 30 (1E)	30-0-05-00	30-0-0-00	CS	30-0-05-00	30-0-0-00	CS
	UUT Adr 31 (1F)	31-0-05-00	- - -	NR	31-0-05-00	- - -	NR
	part B	31-0-05-00	- - -	NR	31-0-05-00	- - -	NR
SUBTITLE: Required Protocol Tests		DATE: 20 Nov 2013		Page:			
5.2.1.9. Unique UUT Address		TIME: 16:52:39		21 of 26			

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.2.1	Optional Protocol							
5.2.2.1.1	Dynamic Bus Control A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-1-00-00	3-4-0-00	ME	3-1-00-00	3-4-0-00	ME	
5.2.2.1.2	Synchronize							
5.2.2.1.2.1	Synchronize without data A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-1-00-01	3-0-0-00	CS	3-1-00-01	3-0-0-00	CS	
5.2.2.1.2.2	Synchronize with data A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-0-00-17	3-0-0-00	CS	3-0-00-17	3-0-0-00	CS	
	SYNC Word		0000			0000		
5.2.2.1.3	Initiate Self-Test A: ( 1964/ 0/ 0) B: ( 1964/ 0/ 0) (T ≤ 100,000us)	3-1-00-03 3-1-01-00	3-0-0-00 3-0-0-00	CS CS	3-1-00-03 3-1-01-00	3-0-0-00 3-0-0-00	CS CS	
			4			4		
5.2.2.1.4	Transmit BIT word A: ( 2/ 0/ 0) B: ( 2/ 0/ 0)	3-1-00-19	3-0-0-00	CS	3-1-00-19	3-0-0-00	CS	
	BIT Word		200c			200c		
5.2.2.1.5	Selective Xmtr Shutdown A: ( 4/ 0/ 0) B: ( 4/ 0/ 0)	3-0-01-00 3-0-01-00 3-0-00-20 3-0-01-00 3-0-01-00 3-0-00-21 3-0-01-00 3-0-00-21 3-0-01-00 3-0-01-00 3-0-00-20 3-0-01-00 3-0-01-00	3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00	CS CS ME CS CS ME CS ME CS CS ME CS CS	3-0-01-00 3-0-01-00 3-0-00-20 3-0-01-00 3-0-01-00 3-0-00-21 3-0-01-00 3-0-00-21 3-0-01-00 3-0-01-00 3-0-00-20 3-0-01-00 3-0-01-00	3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00 3-4-0-00 3-0-0-00 3-0-0-00	CS CS ME CS CS ME CS ME CS CS ME CS CS	
	Alt Bus Selection Word		0000			0000		
	Pri Bus Selection Word		0000			0000		
5.2.2.1.6	Terminal Flag Bit Inhibit A: ( 4/ 0/ 0) B: ( 4/ 0/ 0)	3-0-01-00 3-1-01-01 3-0-01-00 3-1-00-06 3-0-01-00 3-1-31-07 3-0-01-00 3-1-01-01 3-0-01-00	3-0-0-00 3-0-0-01 3-0-0-01 3-0-0-00 3-0-0-00 3-0-0-01 3-0-0-00 3-0-0-00 3-0-0-00	CS DC TF CS CS TF TF DC CS	3-0-01-00 3-1-01-01 3-0-01-00 3-1-00-06 3-0-01-00 3-1-31-07 3-0-01-00 3-1-01-01 3-0-01-00	3-0-0-00 3-0-0-01 3-0-0-01 3-0-0-00 3-0-0-00 3-0-0-01 3-0-0-00 3-0-0-00 3-0-0-00	CS DC TF CS CS TF TF DC CS	
SUBTITLE: Optional Protocol Tests 5.2.2.1. Optional Protocol		DATE: 20 Nov 2013 TIME: 16:52:39		Page: 22 of 26				

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.2.1.7	Transmit Vector Word	3-1-00-16	3-0-0-00	CS	3-1-00-16	3-0-0-00	CS	
	A: ( 2/ 0/ 0)							
	B: ( 2/ 0/ 0)							
	VECTOR Word		880f			880f		
5.2.2.1.8	Transmit Last Command	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	3-0-01-01	- - -	NR	3-0-01-01	- - -	NR	
	B: ( 2/ 0/ 0)	3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
		3-1-00-18	3-4-0-00	ME	3-1-00-18	3-4-0-00	ME	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS	
5.2.2.2	Status Word							
5.2.2.2.1	Service Request	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-1-01-01	3-1-0-00	DC	3-1-01-01	3-1-0-00	DC	
		3-1-01-00	3-1-0-00	SR	3-1-01-00	3-1-0-00	SR	
		3-1-01-00	3-1-0-00	SR	3-1-01-00	3-1-0-00	SR	
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
5.2.2.2.2	Broadcast Command Received	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS	
		3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
5.2.2.2.3	Busy	3-1-01-01	3-0-0-08	DC	3-1-01-01	3-0-0-08	DC	
		3-1-02-00	3-0-0-08	BUSY	3-1-02-00	3-0-0-08	BUSY	
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC	
		3-1-01-01	3-0-0-00	CS	3-1-01-01	3-0-0-00	CS	
5.2.2.2.4	Subsystem Flag	3-1-01-01	3-0-0-04	DC	3-1-01-01	3-0-0-04	DC	
		3-1-02-00	3-0-0-04	SF	3-1-02-00	3-0-0-04	SF	
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
5.2.2.2.5	Terminal Flag	3-1-01-01	3-0-0-01	DC	3-1-01-01	3-0-0-01	DC	
		3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF	
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
SUBTITLE: Optional Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.2.1.7. Transmit Vector Word				TIME: 16:52:39		23 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.2.3	Illegal Command part A	3-0-25-00	3-4-0-00	ME	3-0-25-00	3-4-0-00	ME
		3-1-02-00	3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-02	3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
		3-0-25-00	- - -	NR	3-0-25-00	- - -	NR
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
		part B	3-1-26-00	3-4-0-00	ME	3-1-26-00	3-4-0-00
	3-1-02-00		3-0-0-00	CS	3-1-02-00	3-0-0-00	CS
	3-0-25-00		- - -	NR	3-0-25-00	- - -	NR
	3-1-00-02		3-4-0-00	ME	3-1-00-02	3-4-0-00	ME
	3-1-01-00		3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	3-0-25-00		- - -	NR	3-0-25-00	- - -	NR
	3-1-00-18		3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
	5.2.2.4		Broadcast Mode Commands				
	5.2.2.4.1	Synchronize without data	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00
A: ( 2/ 0/ 0)	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR	
B: ( 2/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
5.2.2.4.2	Synchronize with data	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
A: ( 2/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR	
B: ( 2/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	SYNC Word		0000			0000	
5.2.2.4.3	Initiate Self-Test	31-1-00-03	- - -	NR	31-1-00-03	- - -	NR
A: ( 1968/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
B: ( 1968/ 0/ 0)							
	(T ≤ 100,000us)		4			4	
5.2.2.4.4	Xmtr Shutdown/Override	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
B: ( 4/ 0/ 0)	31-1-00-04	- - -	NR	31-1-00-04	- - -	NR	
	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	31-1-00-05	- - -	NR	31-1-00-05	- - -	NR	
	3-0-01-00	- - -	NR	3-0-01-00	- - -	NR	
	31-1-00-05	- - -	NR	31-1-00-05	- - -	NR	
	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR	
	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
SUBTITLE: Optional Protocol Tests				DATE: 20 Nov 2013		Page:	
5.2.2.3. Illegal Command				TIME: 16:52:39		24 of 26	



TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT		
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)		
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B			
		Command	Response	STAT	Command	Response	STAT	
5.2.2.4.5	Selective Xmtr Shutdown	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	A: ( 4/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
	B: ( 4/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		31-0-00-20	- - -	NR	31-0-00-20	- - -	NR	
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
		Alt Bus Selection Word	0000		0000			
		Pri Bus Selection Word	0000		0000			
	5.2.2.4.6	Terminal Flag Bit Inhibit	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		A: ( 4/ 0/ 0)	3-1-01-01	3-0-0-01	DC	3-1-01-01	3-0-0-01	DC
		B: ( 4/ 0/ 0)	3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
			31-1-00-06	- - -	NR	31-1-00-06	- - -	NR
			3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
			3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
			31-1-31-07	- - -	NR	31-1-31-07	- - -	NR
			3-1-00-18	3-0-0-17	BRTF	3-1-00-18	3-0-0-17	BRTF
			3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		3-1-01-01	3-0-0-00	DC	3-1-01-01	3-0-0-00	DC	
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS	
5.2.2.4.7		Reset Remote Terminal						
		Delay to Stable Response	31-1-00-08	- - -	NR	31-1-00-08	- - -	NR
	A: ( 1768/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
	B: ( 1768/ 0/ 0)							
	(T ≤ 5000us)		4			4		
	Clear Xmtr Shutdown	3-1-00-04	3-0-0-00	CS	3-1-00-04	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	3-1-01-00	- - -	NR	3-1-01-00	- - -	NR	
	B: ( 2/ 0/ 0)	31-1-00-08	- - -	NR	31-1-00-08	- - -	NR	
		3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
5.2.2.4.8	Dynamic Bus Control	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS	
	A: ( 2/ 0/ 0)	31-1-00-00	- - -	NR	31-1-00-00	- - -	NR	
	B: ( 2/ 0/ 0)	3-1-00-02	3-4-0-16	MBR	3-1-00-02	3-4-0-16	MBR	
SUBTITLE: Optional Protocol Tests				DATE: 20 Nov 2013		Page:		
5.2.2.4.5. Selective Xmtr Shutdown				TIME: 16:52:39		25 of 26		

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT						CVH12.DAT	
By: TEST SYSTEMS, Inc.						11/20/13 (14:52:10)	
Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A			B U S B		
		Command	Response	STAT	Command	Response	STAT
5.2.2.5	Error Injection						
	-Broadcast Messages						
5.2.2.5.1	Parity: BC-RT Broadcast						
5.2.2.5.1.1	Command w/Parity Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-00-18	3-0-0-00	CS	3-1-00-18	3-0-0-00	CS
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.2.5.1.2	Data Word Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	A: ( 32/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	B: ( 32/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.2.5.2	Message Length: BC-RT Broadcast	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
		3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	A: ( 33/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B: ( 33/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
		3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
5.2.3	Noise Rejection	3-0-30-00	3-0-0-00	CS	3-0-30-00	- - -	EF
	Words Received	44,000,022		PASS	52,100,004		PASS
	Noise Level used (mV)	170			170		
	A: ( 1333334/ 0/ 0)						
	B: ( 1578788/ 1/ 0)						
SUBTITLE: Optional Protocol Tests				DATE: 20 Nov 2013	Page:		
5.2.2.5. Error Injection				TIME: 16:52:39	26 of 26		