TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT By: TEST SYSTEMS, Inc.	BVH24.DAT 11/12/13 (14:15:48)
CUSTOMER:	TEST STARTED:
 Microsemi SOC Corp. 3870 N. First Street	 Nov. 12, 2013
San Jose, CA 95134	TEST COMPLETED:
	Nov. 12, 2013

UNIT UNDER TEST IDENTIFICATION:

CORE1553BRT v4.0.004 running VHDL at 24 MHz (BVH24)
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

SUMMARY OF TEST RESULTS:	A-Bus	B-Bus	
 Electrical:	Passed	Passed	
Required Protocol:	Passed	Passed	
Optional Protocol:	Passed	Passed	
Noise Rejection:	Passed	Passed	
<u>[</u>			

CERTIFICATE OF COMPLIANCE:

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 12, 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.

Leroy Earhart Date

TEST SYSTEMS, Inc. 217 W. Palmaire Phoenix, AZ 85021 602/861-1010

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT

By: TEST SYSTEMS, Inc. 11/12/13 (14:15:48)

EXCEPTIONS TO THE RT VALIDATION TEST PLAN:

- 1. Step 6 of Reset remote terminal (5.2.1.5.3) is changed to repeat step 4 rather than step 5. (Brror in Test Plan.)
- 2. Frequency Stability (5.1.1.10) and Terminal Fail-Safe (5.2.1.3.7) tests were not run.
- 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.

TEST COMMENTS:

Remote Terminal Address and Status bits were set using switches on the test board.

- 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.
- 5.1.2.3 Input Impedance magnitude measurements recorded as 9999 ohms are actually 9999 ohms or greater.
- 5.3 Noise Rejection passed on both Buses with 170 mv of noise (30 mv more than required).

Protocol in this report was run with the illegalization shown on pages 4 and 5 implemented external to the core. This illegalization was done to demonstrate external illegalization capability of the core. Protocol was rerun off-line with no illegalization and passed on both Buses.

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TEST	SYSTEMS, Inc.	MIL-STD-1553B	RT VALIDATION	TEST REPORT	B4	/H24.DAT	
$\ \mathtt{By}:$	TEST SYSTEMS,	Inc.			11/12/13	(14:15:48)	
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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 MODEL NO./SERIAL NO.	CALIBRATION Date Done Date Due			
	AQUIFMENT TIFE	MODEL NO./SERIAL NO.	Date Done D	ate 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			
1						

* 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

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SUBTITLE:	DATE:	12 Nov 2013	Page:
	TIME:	16:16:19	3 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) 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----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 27 01234567890-----27 ----567890123456-----28 01234567890123456789012345678901 28 01234567890123456789012345678901 29 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 01234567890123456789012345678901 31 -----7----7-----31 -12345678-----6-89-----Illegal Command Detection Implemented: | Broadcast Implemented: Data Wrap-Around Receive SA: 30 Transmit SA: 30 Terminal Address Used: 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 DATE: 12 Nov 2013 | Page: Non-Broadcast Commands TIME: 16:16:19 4 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Valid, Legal Broadcast Commands (if not marked by '-') Receive (T/R=0) Word Count Field Transmit (T/R=1) Word Count Field 111111111122222222233 11111111111222222222233 SA 01234567890123456789012345678901 SA 01234567890123456789012345678901 0 ----7----7 0 -1-345678-----1 01234567890123456789012345678901 2 01234567890123456789012345678901 3 01234567890123456789012345678901 4 01234567890123456789012345678901 5 01234567890123456789012345678901 6 01234567890123456789012345678901 7 01234567890123456789012345678901 8 01234567890123456789012345678901 9 01234567890123456789012345678901 _____ 10 01234567890123456789012345678901 11 -----11 01234567890123456789012345678901 12 01234567890123456789012345678901 1 13 01234567890123456789012345678901 13 -----| 14 01234567890123456789012345678901 15 01234567890123456789012345678901 16 01234567890123456789012345678901 17 01234567890123456789012345678901 18 01234567890123456789012345678901 18 -----19 01234567890123456789012345678901 20 01234567890123456789012345678901 20 -----21 01234567890123456789012345678901 22 01234567890123456789012345678901 22 -----23 01234567890123456789012345678901 24 01234567890123456789012345678901 24 -----26 01234567890123456789012345678901 27 01234567890------27 28 01234567890123456789012345678901 29 01234567890123456789012345678901 30 01234567890123456789012345678901 30 ------31 -1-345678-----31 -----Test STAT abbreviation definitions: ABRT: Test Aborted BCR: Broadcast Received BRTF: Brdcst Rcvd+TermFlaq BUSY: Busy Bit CS: Clear Status DBA: Dynamic Bus Accepted DC: Don't Care EF: Error Found Inhb: Operator Inhibited MBR: Msg Err+Brdcst Rcvd MBRT: ME+TF+BCR INVL: Invalid Test ME: Message Error MTF: MsgErr+TermFlag NR: No Response NRun: Not Run RIF: Respond In Form SF: Subsystem Flag TF: Terminal Flag TO: Timed Out SR: Service Request VR: Valid Response SUBTITLE: Configuration Used DATE: 12 Nov 2013 Page: 5 of 26 Broadcast Commands TIME: 16:16:19

Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S Meas.	A TAT	B U S Meas.	B 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	 Pas:
5.1.1.2	OUTPUT RISE TIME-Data	100- 300	i ns i	204	Pass		Pass
5.1.1.2	OUTPUT FALL TIME-Sync	100- 300	ns		Pass		Pass
5.1.1.2	OUTPUT FALL TIME-Data		ns		Pass		Pas
5.1.1.3	ZERO CROSSING STAB.] 	 	
	500ns Tzcp	475- 525	ns	498	Pass	494	Pas:
	1000ns Tzcp	975-1025	ns	1003	Pass		Pas
	1500ns Tzcp	1475-1525	ns	1496	Pass		Pas
	2000ns Tzcp	1975-2025	ns	1997	Pass		Pas
	500ns Tzcn	475- 525	ns	502	Pass		Pas
	1000ns Tzcn	975-1025	ns	1005	Pass		Pas
	1500ns Tzcn	1475-1525	ns	1507	Pass	!	Pas
	2000ns Tzcn	1975-2025	ns	2005	Pass		Pas
5.1.1.4	DISTORTION, OVERSHOOT AND RINGING	 ≤ ± 900	mVp	50	Pass	50	 Pas
5,1.1.5	OUTPUT SYMMETRY]				
	(0000)	≤ ± 250	mVp	-53	Pass	9	Pas
	(5555)	≤ ± 250	mVp	-53	Pass	10	Pas
	(7FFF)	≤ ± 250	mVp	-31	Pass	20	Pas
	(8000)	≤ ± 250	mVp	-39	Pass	13	Pas
	(AAAA)	≤ ± 250	mVp]	-46	Pass	11	Pas
	(FFFF)	≤ ± 250	mVp	-32	Pass	18	Pas
5.1.1.6	OUTPUT NOISE				[<u> </u>	
	with power on	≤ 14	mVrms	8	Pass	8	Pas
	with power off	≤ 14	mVrms	1	Pass	1	Pas
5.1.1.7	OUTPUT ISOLATION	 ≥ 45	db	72	Pass	i 72	 Pas
	Active Bus	18.0-27.0	Vpp	19.81	Pass	19.88	Pas
	Inactive Bus		mVpp	5	Pass	5	Pas
5.1.1.8.1	POWER ON/OFF NOISE	[[
	Power Up Amplitude	≤ ± 250	m∀p	180	Pass	200	Pas
	Pulse Width		us	.1		j .1	1
	Power Down Amplitude Pulse Width	1	mVp us	50 .1	Pass	:	Pas
		j				.1 	[]
5.1.1.8.2	POWER ON RESPONSE	protocol		 	Pass	1	Pas

Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S Meas.	A STAT	B U S Meas.	B STAT
5.1.1.9	TERMINAL RESPONSE TIME!				j 		j I
	Transmit	4.0-12.0	us	5.90	Pass	5.88	Pass
	Receive	4.0-12.0	us		Pass	5.80	
	RT-UUT	4.0-12.0	us	5.81	Pass	5.80	Pass
	Mode Command	4.0-12.0	us	5.90	Pass	5.88	Pass
5.1.1.10	FREQUENCY STABILITY						
	Min. Frequency		kHz		i i		
	Max. Frequency		kHz		İ		
	Avg. Frequency		kHz				
5.1.2	 INPUT CHARACTERISTICS]] i		
5.1.2.1.1	ZERO CROSSING		i i				!
	DISTORTION				i i		
	Min. Deviation	≤ -150	ns	-187	Pass	-187	Pass
	Max. Deviation	≥ 150	ns	182	Pass	178	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	585	! Pass
	1st NR threshold	200- 860	mVpp		Pass	565	Pass
5.1.2.1.3	 RISE AND FALL TIME] 		
5.1.2.1.3.1	TRAPEZOIDAL	protocol	i i		 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		Pas
		prococor			Fass		Fas:
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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 Phase Angle	 ≥ 1000 	ohms degs	9999 46	Pass Pass	9999 42	 Pass
	100 kHz Power ON Phase Angle	 ≥ 1000 	ohms degs	9999 18	Pass	9999	 Pass
	250 kHz Power ON Phase Angle	 ≥ 1000	ohms degs	8155 -62	Pass	7435 -66	 Pass
	500 kHz Power ON Phase Angle	 ≥ 1000 	ohms degs	 3753 -77	 Pass	3432 -79	 Pass
	1.0 MHz Power ON Phase Angle	 ≥ 1000 	ohms	 1846 -83	 Pass	 1690 -84	Pass
	75 kHz Power OFF Phase Angle	 ≥ 1000	ohms degs	9999 38	 Pass 		Pass
	100 kHz Power OFF Phase Angle	 ≥ 1000 	ohms degs	9999	Pass		 Pass
	250 kHz Power OFF Phase Angle	 ≥ 1000 	ohms degs	7018 -65	 Pass 		 Pass
	500 kHz Power OFF Phase Angle	 ≥ 1000 	ohms degs	 3280 -78	 Pass 		Pass
	1.0 MHz Power OFF Phase Angle	 ≥ 1000	ohms	 1616 -84	Pass		Pass
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	ectrical Tests nput Impedance (XFR)		DATE:	l 12 Nov 16:16:		Page:	of 26

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Reference Test Description BUS A BUSB Section Bus: (run cnt/ errors/ busy cnt) 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 1815/ A: (0/ 3-0-01-00 3-0-0-00 CS 0) 3-0-01-00 3-0-0-00 CS B; (1815/ 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 105/ A: (0/ 3-0-25-00 3-4-0-00 ME 3-0-25-00 3-4-0-00 ME B: (105/ 3-1-00-18 3-4-0-00 ME 0/ 0) 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/ 0-0-00-00 NR 0-0-00:00 - - -NR B;(61440/ 0/ 3-1-00-18 3-0-0-00 CS 0) 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/ 3-0-00-17 3-0-0-00 CS 00 3-0-00-17 3-0-0-00 CS Br (16/ 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: (3-0-00-20 3-4-0-00 ME 3-0-00-20 3-4-0-00 ME B: (3-1-00-18 3-4-0-00 ME ε/ 0/ 0) 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/ 3-0-00-00 3-4-0-00 ME 0) 3-0-00-00 3.4-0-00 ME 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: 12 Nov 2013 Page: 5.2.1.1. Response to Command Words TIME: 16:16:19 9 of 26 TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) BUS A B U S B Reference Test Description Section Bus: (run cnt/ errors/ busy cnt) 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 3-0-02-00 3-0 0-00 CS A: (907/ 07 0) 31-0-01-00 · · · NR 31-0-01-00 NR Bt (907/ 0/ 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 31-0-25-00 - - -A: (1013/ 0/ 0) NR 31-0-25-00 - - -NR B: (1013/ 3-1-00-18 3-4-0-16 MBR 0/ 0) 3-1-00-18 3-4-0 16 MBR Invalid Commands N/A N/AN/A N/A $A \setminus M$ |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/ 31-0-00-17 - - -NR 31-0-00-17 B: (8/ 0/ 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: (14/ 0/ D) 33-0-00-20 - - -NR 31-0-00-20 ...-NR 3-1-00-18 3-4-0-16 MBR Br (14/ 0) 0/ 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/ 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 12 Nov 2013 | Page: DATE: 5.2.1.1. Response to Command Words TIME: 16:16:19 10 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Reference Test Description BUS BUSB Section Bus: (run cnt/ errors/ busy cnt) 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: (907/ 0/ 0) 3-0-01-01 3-0-0-00 CS 3-0-01-01 3-0-0-00 CS B: (907/ 4-1-01-01 4-0-0-00 CS 0/ 0) 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 3-0-25-01 3-4-0-00 ME 3-0-25-01 3-4-0-00 ME A: (53/ 0/ 0) 3:(53/ 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/ 0-0-00-00 - - ... NR 0-0-00-00 0) NR B: (30720/ 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 3-0-00-17 3-0-0-00 CS A: (2/ 3-0-00-17 3-0-0-00 CS B: (2/ 0/ 0) 4-1-03-01 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: (3-0-00-20 3-4-0-00 3-0-00-20 3-4-0-00 ME B: (4 1-01-01 | 4-0-0-00 | CS 4-1-01-01 4-0-0-00 CS 4/ 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: (58/ 0/ 0) 3 0-00-00 3-4-0-00 ME 3-0-00-00 3-4-0-00 ME 58/ B: (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 DATE: 12 Nov 2013 | Page: 5.2.1.1. Response to Command Words TIME: 16:16:19 11 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT By: TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Reference Test Description BUS A BUSB Section Bus: (rum cnt/ errors/ busy cnt) 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 908/ A: (0/ 0) 4-0-03/01 - - -NR 4-0-00-01 - -NR B:(908/ 0) 3-1-01-01 3-0-0-00 CS 0/ 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 0/ 4-0-01-01 A: (52/ 0) NR 4-0-01-01 ... NR Br (52/ 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/ NR 0/ 2-0-01-00 - - -0) 2-0-01-00 - - -NR B:(30720/ 0-1-00-00 - - -0/ 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 4-0-01-00 - - -4-0-01-00 - - -A: (0/ NR 14/ C) 3-1-00-01 3-0-0:00 CS B: (14/ 0/ 0) 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/ 4-0-01-00 -- - -4-0-01-00 - - -B: (2/ 0) 3-1-00-00 3-4-0-00 ME 3-1-00-00 3-4-0-09 ME 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: (40/ 0/ 0) 4-0-03-00 - - -NR 4-0 01 00 | - - -B; (3-1-00-09 3-4-0-00 ME 40/ 0/ 0) 3-1-00-09 3-4-0-00 ME 3-1-00-28 3-4-0-00 ME 3-1-00-18 3-4-0-00 ME 12 Nov 2013 | Page: SUBTITLE: Required Protocol Tests DATE: TIME: 5.2.1.1. Response to Command Words 16:16:19 12 of 26

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5.2.1.1 5.2.1.1.2	Response to RT-RT Res Command Broadcs	ponse Words st Red	to 3								
	Valid, A:(B:(Legal 907/ 907/	0/ 0/	ands 0) 0)	3-0-01-00 31-0-02-01 01-01-01 3-1-00 18	 0-0-0-00	CS NR CS BCR	3·0·01-00 31··0-01-01 0·1·01-01 3··1 00·18	0-0-0-00	CS NR CS BCR	
	Valid, A:(B:(Illega 53/ 53/	al Co 0/ 0/	mmands 0) 0)	3-0-01-00 31-0-25-01 0-1-01-01 3-1-00-18	· · · · · · · · · · · · · · · · · ·	CS NR CS MBR	3-0-01-00 31-0-25-01 0-1-01-01 3-1-00-18	0.0.0-00	CS NR CS MBR	
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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT By: TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Reference Test Description BUS BUSB Α Section Bus: (run cnt/ errors/ busy cnt) 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 10007 A: (0/ 3-0-01-00 3-0-0-00 l CS 3-0-01-00 3-0-0-00 CS B: (1000/ 0/ UUT-BC Transfer 3 1 02-00 3-0-0-00 CS 3-1-02-00 3-0-0-00 CS A: (1000/ 07 3..0-01-00 3-0-0-00 cs CS 03 3-0-01-00 3-0-0-00 B: (1000/ 0/ UUT/RT Transfer 3 0-21-00 3-0-0-00 CS 3-0-21-00 3-0-0-00 LCS A: (1000/ 4-1-01-00 4-0-0-08 lcs 4-1-01-00 4-0-0-00 CS 3 -0 -01 -00 3 -0 -0 -00 B: (1000/ 07 0) 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/ 3-1-24-00 3-0-0-00 CS 3-1-24-00 3-0-0-00 CS 1000/ B: (3-0-01-00 3-0-0-00 CS 0/ 3-0-01-00 3-0-0-00 CS Mode Command w/o data 3 1.00-01 3-0-0-00 CS 3-2-00-01 3-0 0.00 CS A: (3-0 01-00 3-0-0-00 CS 3-0-01-00 3-0-0 00 CS B- (30007 Mode Command, 3-1-00-16 3-0-0-00 CŞ 3-1-00-16 3-0-0-00 CS Transmit w/Data 3-0-01-00 3-0-0-00 CS 3 -0--01--00 3-0-0-00 CS 1000/ 0/ B: (1000/ o/ Mode Command, 3-0-00-17 3-0-0-00 CS 3-0-00-17 3-0-0-00 CS Receive w/Data 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS At (1000/ 0/ 0) B: (1000/ 0/ Broadcast BC-UUT NR 31 -0-00-00 31-0-00-00 MR A: (1000/ 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: (10007 0/ Broadcast RT/UUT 31-0-01-30 NR NR 33-0-01:30 A: (1000/ 0/ 0) 3-1-30-30 3-0-0-00 CS 3-1-30-30 3-0-0-00 lcs B: (1000/ 0) 3.0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 0/ Broadcast UUT/RT 31-0-00 -17 NR 31-0-00-17 NR At (1000/ 0/ 0-1-01 01 0-0-0-00 CŞ 0-1-01-01 0-0-0-00 CS B: (1000/ 3.0.01-00 3-0-0-00 CS ٥/ ŋ١ 3-0-01-00 3-0 0.00 CS Broadcast Mode Cmnd 31-1-00-01 NR - - -31-1-00-01 NR w/o data 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (1000/ 07 0) 1000/ Broadcast Mode Cmnd NR 31-0-00-17 31-0-00-17 NR w/data 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (1000/ 0/ 0) 1000/ B: (0/ Ω SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 Page: 5.2.1.2. Intermessage Gap TIME: 16:16:19 15 of 26

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Reference	Test Description	ВТ	JS A		В	s B	
Section	Bus: (rum cnt/ errors/ busy cnt)	Command	Response	STAT	Command	Response	STAT
		İ					
5,2,1,2	Intermessage Gap						
5.2.1.2.2	Transmission Rate Transmit-Transmit]					
		1	3-0-0-00	cs cs	1	3-0-0-00	1
	A: (19340/ 0/ 0) B: (19332/ 0/ 0)	1	3-0-0-00 3-0-0-00	l CS	3-1-01.00	3-0-0-00	CS CS
	2.(25555, 67 67	- 1	!	cs	3-1-01-00		Ics
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	Receive-Receive	3-0-10-00	3-0-0-00	l las	3-0-10-00	3-0-0-00	 CS
	A: (19328/ 0/ 0)	:	3-0-0-00		3-0-11-00		cs
	B:(19340/ 0/ 0)	:	3.0 0.00	cs	1	3-0-0-00	CS
		3-0-11-00	3 0-0-00	CS	3-0-12-00	3-0-0-00	CS
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	A: (19328/ 0/ 0)		:	cs	3-0-21 00		lcs
	B: (19324/ 0/ 0)	- 1	<u> </u>	cs	3-1-20-00		cs
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5.2.1.3	Transce Train which						
5.2.1.3	Error Injection Parity	l I]				
5.2.1.3.1.1	Transmit Command	3-0-01-00	 3-0-0-00	lcs	 	3-0-0-00	cs
		3-1-06-00		NR	3-1-06-00		NR
		3-1-00-02	3-0-0-00	CS	:	3-0-0-00	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	l cs
		3-0-05-00	;	NR	3-0-05-00		NR
		3-1-00-02	3-0-0-00	cs	3-1-00-02	30-0-00	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	l Ics
	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
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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) By: Reference Test Description BUSA BUSB Section Command Response STAT Bus: (run cnt/ errors/ busy cnt) 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/ 3-1-05-00 NR 3-1-06-00 0) B: (2/ 07 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 CS 3-0-01-00 3-0-0-00 3-0-01-00 3-0-0-00 CS 0) NR NR A: (0/ 3-0-05-00 - - -3-0-05-00 B: (2.7 07 0) 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 lcs Long Receive commands CS lcs 3-0-01-00 3-0-0-00 3-0-01-00 3-0-0-00 3-0-05-00 - - -NR3 0-05-00 NR 2/ B: (2/ η/ 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-C-0-00 CS 3.26/ 3-0-05-00 3-0-05-00 - - -126/ B: (۵ì 3-1-00 02 3-4-0-00 ME 3-1-00-02 3-4 0 00 ME 0/ 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 Ar (34/ 0/ 3-1-06-00 NR 3-1-06-00 - - -0) NB В: (34/ cs 0/ 3-1-00-02 3-0-0-00 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/ 3-1-00-02 3.0-0-00 CS 3-1-00-02 3 0 0-00 0) 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 3-0-05-00 - -A: (1088/ 0/ 0) NR 3-0-05-00 -NR B: (1088/ 3-1-00-02 3-4-0 00 ME 07 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/ 3-1-06-00 - - -NR 3-1-06-00 Ν̈́R D) B: (3-1-00-02 3-0-0-00 CS 0/ 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 3-0-05-00 A: (a) - - -NR 3 - 0 - 05 - 00 - - l 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 1cs 3-0 01-00 3-0-0-00 CS A: (160/ 0/ 3-0-05-00 - - -NR 3-0-05-00 - - -3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 ME B: (160/ 0/ 01 SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 Page: 5.2.1.3.2. Word Length TIME: 16:16:19 17 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. By: 11/12/13 (14:15:48) Reference Test Description BUSA BUS B Command Response STAT Section Bus: (run cnt/ errors/ busy cnt) 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 NR 3 -1 -06 -00 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 At (33/ 3--0-05--00 - - -NR 3-0-05-00 - - -NR 0) 3-1-00-02 3-4-0-00 ME B: (33/ 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 NR A: (2/ οź 3-0-00-17 3-0-00-17 - - -NR B: (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 1cs A: (1/ 3-1-00-01 - --NR 3-1-00-01 NR - - -3-1-00-02 3-4-0-00 ME B: (1/ 3-1-00-02 3-4-0-00 ME 5.2.1.3.5.4 RT-RT Word Count Error CS 3-0-01-00 3-0-0-00 3-0-01-00 3-0-0-00 CS 0/ 4-1-01-00 4-0-0-00 CS A: (2/ 0) 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 В: (32/ 0/ 3-1-00-02 3-4-0-00 ME 0) 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 - - -3-0-01-00 - - -NR NR 3-1-00-02 3-4-0-00 ME 3-1-00-02 3-4-0-00 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 NR 3-0-01-00 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 - - -INR 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: 12 Nov 2013 Page: TIME 5.2.1.3.5. Message Length 16:16:19 18 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) BUS B U S B Reference Test Description Section Command Response STAT Command Response STAT Bus: (run cmt/ errors/ busy cmt) 5.2.1.5 Required Mode Commands Transmit Status 3-0-01-00 3-0 0 00 CS 3-0-01-00 3 0-0-00 CS ||5.2.1.5.1 3-1-00-02 3-0-0-00 CS 3-1-00-02 3-0-0-00 CS A: (2/ 0/ 0) 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS B: (2/ 0/ 0) 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 3-1-09-02 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 lcs 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 3-0-01 00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (4/ oΖ -οΣ B: (4/ 0/ 0) 3-1-00-04 3-0-0-00 CS 3-1-00-04 3-C-0-00 CS NR 3-0-01-00 - - -3-0-01-00 - - -NB 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 - .. . NR NR 3-0-01-00 3-0-01-00 - - -3-1-00-05 3-0-0 00 CS |Ç\$ 3-1-00-05 3-0-0-00 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/ C/ 0) $(T \leq 5000us)$ 4 4 Shutdown 3-1-00-04 3-0-0-00 CS 3-1-00-04 3-0-0-00 CS A: f 2/ 3-1-01-00 - - -NR 3-1-01-00 - - -0/ 01 INR Э: (2/ 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 CS 3-1-01-00 3-0-0-00 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: (100007 0/ 5.2.1.7 RT-RT Timeout Delay Time to first NR NR 3-0-01-00 - - -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 57.5 $(54us \le T \le 60us)$ 57.5 Time to first CS 3-0-01-00 3-0-0-00 CS 3-0-07, 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 $(54us \le T \le 60us)$ 57.0 57.0 SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 Page: 19 of 26 5.2.1.5. Required Mode Commands TIME: 16:16:19

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Reference Section	Test Description Bus: (run cmt/ errors/ busy cmt)	B U		TAT	BÜ Command		STAT	
5.2.1.8	Bus Switching							
			!					
	RT Transmitting		1 1 2	r r o				
	Valid, Legal Command A:(10945/ 0/ 0)	3-1-02-00		ir 'S	3 1 02 00		NR CS	
	A: (10945/ 0/ 0) B: (10945/ 0/ 0)	3-1-05-00		.s :S	3-1-00-02	3 0 0-00	CS	
	B. (10545) 07 07	3-1-00-02	3-0-0-00	.0	3-1-00-02	3 0 0-00		
	Command w/Parity Error	3 - 1 - 02 - 00	3-0-0-00 (:s	3-1-02-00	3-0-0-00	 CS	
	A: (10945/ 0/ 0)	3 · 1. · 05 00	1	IR.	3-1-05-00		NR	
	B: (10945/ 0/ 0)	3-1-00-02	3-0-0-00 (S	3-1-00-02	3-0-0-00	CS	
	Command to another RT	3-1-02-00	3.0.0.00	:s	3-1-02-00	3-0-0-06	i Ics	
	A: (10945/ 0/ 0)	4-1-05-00	}	IR	4-1-05-00		NR	
	B: (10945/ 0/ 0)	1 1	:	cs	3-1-00-02		CS	
	RT Receiving							
	Valid, Legal Command	3-0-01-00		JR.	1 2 0 03 00		NR	
	A: (11649/ 0/ 0)	4-1-05-00		ik IS	3-0-01-00 4-1-05-00		CS	
	B: (11649/ 0/ 0)	3-1-05-00		.s		3-0-0-00	lcs	
		:	!!!	cs	- 1	3-0-0-00	CS	
	Command w/Parity Error	3 0.0100	3-0-0-00	S	3.0.01.00	3-0-0-00	cs	
	A: (11649/ 0/ 0)	4-1-05-00	:	S		4.0 0.00	cs	
	B: (11649/ 0/ 0)	3-1-05-00	:	JR	3-1-05-00		NR	
		3-1-00-02	:	cs	:	3-0-0:00	t t	
	Command to another RT	3-0-01-00	 3-0 0-06	cs	5 0 01 00	3-0-0:00	 cs	
	A: (11649/ 0/ 0)	1	!!!	.s :s	!	4 0 0 00	!	
	B: (11649/ C/ O)	4-2-05-00	: :	JR JR	4-1-05-00	!	NR	
 	1	1	! !	S	-	3 0-0-00		
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SUBTITLE:	Required Protocol Tests		ATE: 1	2 N	ov 2013	Page:		

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) By: BUSA Reference Test Description B U S B Section Command | Response | STAT | Command Response STAT Bus: (rum cnt/ errors/ busy cnt) Unique UUT Address ||5.2.1.9 part A UUT Adr 0 0-0-05-00 0-0-0-00 CS 0-0-05-00 0 0 0 0 0 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) 111-0-05-00 11-0-0 00 CS 11-0-05-00 | 11-0-0-00 | 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 | C\$ UUT Adr 14 (OE) 14-0-05-00 14-0-0-00 CS | 14-0-05-03 | 14-0-0-03 | CS UUT Adr 15 (OF) 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) 1.7-0-05-00 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) 21-0-05-08 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) NR 31-0-05-00 - - -31-0-05-00 - - -NRpart B 31-0-05-00 - - -NR 31-0-05-00 - -NR |SUBTITLE: Required Protocol Tests DATE: 12 Nov 2013 | Page: Unique UUT Address 5.2.1.9. TIME: 16:16:19 21 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT By: TEST SYSTEMS, Inc. 11/12/13 (14:15:48) Reference Test Description BUS A BUS B Section Bus: (run cnt/ errors/ busy cnt) Command Response STAT Command Response STAT ||5.2.2.1 Optional Protocol 5.2.2.1.1 Dynamic Bus Control 3-1-00-00 3-4-0-00 ME 3-1.00-00 3 4-0-00 ME A: (2/ 0/ B: (2/ 0) 0/ 5.2.2.1.2 Synchronize 5.2.2.1.2.1 Synchronize without data 3-1-00-01 3-0-0-00 | CS 3-1-00-01 3-0-0-00 CS A: (2/ 0/ 0) B: (2/ 0/ 5.2.2.1.2.2 Synchronize with data 3-0-00-17 3-0-0-00 CS 3-0-00-17 3-0-0-00 CS A: { 2/ B: (2/ 0/ 0) SYNC Word 0000 00001 5.2.2.1.3 Initiate Self-Test 3 1.00-03 3-0-0-00 CS 3-1-00-03 3 0 0-00 CS A: (1964/ 3-1-01-00 3-0-0-00 CS 3-1-01-00 3-0-0-00 CS o١ B: (1964/ 0/ 0) $(T \le 100,000us)$ 15.2.2.1.4 Transmit BIT word 3.1-00-19 3-0-0-00 CS 3-1-00 19 3-0-0-00 CS $A:\langle$ 2/ 0) B: (2/ 0/ 0) BIT Word 024d 824d! [5.2.2**.1.**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/ o) 3-0-00-20 3-4-0-00 ME 3-0-00-20 3-4-0-00 ME 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 1cs 3-0-01-00 3-0 0 00 CS 3-0-01-00 3-0 0 00 CS 3-0-00-21 3-4-0-00 ME 3-0-00-21 3-4 0 00 ME 3-0-01-00 3-0-0 00 lcs 3-0-01-00 3-0 0-00 CS 3-C-CO-21 3-4-0-00 ME 3-0-00-21 3-4-0 00 ME 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 3-0-02-00 3-0 0-00 CS 3-0-00-20 3-4-0-00 ME 3-0-00-20 3-4-0-00 ME 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-6-00 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 00001 5.2.2.1.6 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/ 3-1-01-01 3-0-0-01 DC 3-1-01-01 3-0-0-01 DC B: (3-0 01-00 3-0-0-01 3-0-01-00 3 0 0.01 TF 3-1-00 06 3-0-0-00 CS 3-1-00-06 3 0.0-00 CS 3.0 01.00 3-0-0-00 CS 3-0-01-00 3-0 0 00 CS 3-1-31-07 3-0-0-01 TF 3-1-31-07 3-0 0 01 TF 3-0-03-00 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 SUBTITLE: Optional Protocol Tests DATE: 12 Nov 2013 | Page: 5.2.2.1. Optional Protocol TIME: 16:16:19 22 of 26

TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT 11/12/13 (14:15:48) By: TEST SYSTEMS, Inc. Test Description BUS A BUS B Reference Section Command Response STAT Command Response STAT Bus: (run cnt/ errors/ busy cnt) 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 0) B: (00001 VECTOR Word 00001 15.2.2.1.8 Transmit Last Command 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS 2/ 3-0-01-01 --- NR 3-0-01-01 - - NR B: (2/ 0/ n١ 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 3-1-09-18 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 3-0-07-00 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 31-0-01-00 ---NR NR 31-0-01-00 - - -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 - 01 - 01 | 3 - 0 - 0 - 00 CS 3-1-01-01 3-0-0-00 CS 31-0-01-00 . . . -NR 31-0-01-00 NR 3-1-00-16 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: 12 Nov 2013 Page: 5.2.2.1.7. Transmit Vector Word TIME: 23 of 26 16:16:19

Reference	Test Description Bus: (run cnt/ errors/ busy cnt)			l Br	BUSA			BUSB		
Section				Command	Response	STAT	Command	Response	STAT	
					1					
5.2.2.3	Illegal Com	mand			j j					į
	part A				3 - 0 - 25 - 00	3-4-0-00	ME	3-0-25-00	3-4-0-00	ME
	ļ				3 -1 - 02 - 00	3-0-0-00	CS	3-1-02-00		CS
	ļ				3 -0 -25 -00		NR	3-0-25-00		NR
					3 - 1 - 00 - 02		ME	3-1-00-02		ME
					;	3-0-0-00	CS	3-1-01-00		CS
					3-0-25-00		NR	3-0-25-00		NR
	1				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	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
	ļ				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	3.0 000	CS 	3-1-00-18	3-0-0-00	CS
5.2.2.4	Broadcast N	Mode C	ommand	ds			 			
5.2.2.4.1	Synchroni	lze wi	thout	data	3 -0 01 -00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	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	Synchroni	ize wi	th dat	ta	3-0-01-00	3-0-0-00	l 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	f				0000			0000	
5.2.2.4.3	Initiate	Self-	Test		31-1-00-03		 NR	31-1-00-03		l NR
	A: (1968/	0/	0)	3-1-01-00	30 000	CS	3-1-01-00	3-0-0-00	CS
	В:(1968/	0/	0)				İ		İ
	(T ≤ 100,	,000us	1)			4			4	
5.2.2.4.4	 Xmtr Shut	tdown/	Overr:	ide	3-0-01-00	3-0-0-00	l Ics	3-0-01-00	3-0-0-00	l cs
	A: (4/	0/	0)	3-0-01-00	:	cs	3-0-01-00		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
	1				3-1-00-18	!	BCR	3 1 -00-18	3-0-0-16	BCR
			•		3-0-01-00	3.0 0.00	cs	3-0-01-00	•	cs
					3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS

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TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT BVH24.DAT TEST SYSTEMS, Inc. 11/12/13 (14:15:48) By: BUSA BUSB Reference Test Description Section Command Response STAT Bus: (run cnt/ errors/ busy cnt) 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 3-0-01-00 3-0-0-00 CS 3-0-01-00 3-0-0-00 CS A: (В: (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 3-4-0-36 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 - - - l 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 CS 3-0-01-00 3-0-0-00 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 - - -31-0-00-20 - - NR 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 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 3-1-01-03 3-0-0-01 DC A: (4/ 0/ 3-1-01-01 3-0 0-01 DC B: (4/ 0/ 3-0-01-00 3-0-0-01 TF ٥٥ 3-0-01-00 3.0.0-01 TF 31-1-00-06 - - -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 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 15.2.2.4.7 Reset Remote Terminal Delay to Stable Response 31-1-00-08 ---NR 31-1-00-08 NR A: (3-1-01-00 NR 1768/ c/ 0) 3-1-01-00 NR Br (1768/ 0/ 0) $(T \leq 5000us)$ 6 6 Clear Xmtr Shutdown 3-1-00-04 3-0-0-00 CS 3-1-00-04 3 0-0-00 CS A: (2/ 07 03 3-1-01-00 - - -NR 3-1-02:00 - - -NR в: (2/ 0/ 31-1-00-08 NR 31 1:00:08 NR CS lcs 3-1-01-00 3-0-0-00 3-1 01-00 3-0-0-00 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: (0/ 31-1-00-00 - - -NR 2/ Đ١ 31-1-00-00 NR. B:(3-1-00-02 3-4-0-16 MBR 3-1-00-02 3-4-0-16 MBR SUBTITLE: Optional Protocol Tests DATE: 12 Nov 2013 Page: 5.2.2.4.5. Selective Xmtr Shutdown TIME: 16:16:19 25 of 26

	S, Inc. MIL-STD-1553B RT VALI					11/12/13 (14:15:48)			
Reference Section	Test Description	вt	JS A		BUSB				
	Bus: (rum cnt/ errors/ busy cnt)	Command	Response	STAT	Command	Response	STAT		
5.2.2.5	 Error Injection	ļ	·				j l .		
	-Broadcast Messages	j	,	j	j j		ĺ		
5.2.2.5.1	Parity: BC-RT Broadcast	j			j j		ĺ		
5.2.2.5.1.1	<u>. </u>	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		
		32 00100		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	 	i NR	31-0-01-01		l 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-C-O-OO	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	31-0-01-01		NR	31-0-01-01		NR		
	Broadcast	3-10018	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	!	MBR	3-1-00-18	3-4-0-16	!		
		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	lcs	3-0-30-00	3-0-0-00	cs		
	Words Received		000,022	-	•	000,022	1		
	Noise Level used (mV)	j	170	İ	i	170	İ		
	A: (1333334/ 0/ 0)	į			j		İ		
	B:(1333334/ 0/ 0)		İ	ĺ	İ	İ	İ		
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