

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. (Error 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:

5.1.1.3 Zero Crossing Stability: 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 1519 ns; Bus B 1520 ns.

5.1.2.3 Input Impedance magnitude measurements recorded as 9999 ohms are actually 9999 ohms or greater.

Service Request, Busy, Subsystem Flag and Terminal Flag status bits were set and reset manually as required from a notetop computer through a RS232 link on the test board.

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
Ian Bryant Actel

EQUIPMENT LIST:

EQUIPMENT TYPE	MANUFACTURER MODEL NO./SERIAL NO.	CALIBRATION	
		Date Done	Date Due
1553 BUS TESTER	TSI 122 / 8804111		N/A
Oscilloscope	TEK 2445B / B060730	11/09/01	11/09/02
True RMS Voltmeter	HP 3400A /2415A31584	11/05/01	11/05/03
Impedance Analyzer	HP 4192A /2150J01463	12/06/01	12/06/02
Host Processor *	DEL 333S/L / 37358		N/A
Connection Panel	TSI 0100 / 900101		N/A

* The Host Processor has three TSI cards installed:
PC/AT PARALLEL I/O CARD, MANCHESTER CARD & 1553 NOISE GENERATOR CARD

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

By: TEST SYSTEMS, Inc.

CORE.DAT

08/22/02 (11:51:26)

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 -----7-----	25 01234567890123456789012345678901
26 01234567890123456789012345678901	26 -----7-----
27 -123456789-----	27 -----7-----
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
 Terminal Address Used: 1
 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

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

Receive (T/R=0) Word Count Field	Transmit (T/R=1) Word Count Field
11111111122222222233	11111111122222222233
SA 01234567890123456789012345678901	SA 01234567890123456789012345678901
0 -----7-----	0 -1-345678-----
1 01234567890123456789012345678901	1 -----
2 01234567890123456789012345678901	2 -----
3 01234567890123456789012345678901	3 -----
4 01234567890123456789012345678901	4 -----
5 01234567890123456789012345678901	5 -----
6 01234567890123456789012345678901	6 -----
7 01234567890123456789012345678901	7 -----
8 01234567890123456789012345678901	8 -----
9 01234567890123456789012345678901	9 -----
10 01234567890123456789012345678901	10 -----
11 01234567890123456789012345678901	11 -----
12 01234567890123456789012345678901	12 -----
13 01234567890123456789012345678901	13 -----
14 01234567890123456789012345678901	14 -----
15 01234567890123456789012345678901	15 -----
16 01234567890123456789012345678901	16 -----
17 01234567890123456789012345678901	17 -----
18 01234567890123456789012345678901	18 -----
19 01234567890123456789012345678901	19 -----
20 01234567890123456789012345678901	20 -----
21 01234567890123456789012345678901	21 -----
22 01234567890123456789012345678901	22 -----
23 01234567890123456789012345678901	23 -----
24 01234567890123456789012345678901	24 -----
25 -----	25 -----
26 01234567890123456789012345678901	26 -----
27 -123456789-----	27 -----
28 01234567890123456789012345678901	28 -----
29 01234567890123456789012345678901	29 -----
30 01234567890123456789012345678901	30 -----
31 -----7-----	31 -1-345678-----

Test STAT abbreviation definitions:

ABRT: Test Aborted	BCR: Broadcast Received	BRTF: Brdcst Rcvd+TermFlag
BUSY: Busy Bit	CS: Clear Status	DBA: 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		

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

By: TEST SYSTEMS, Inc.

CORE.DAT

08/22/02 (11:51:26)

Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S A		B U S B	
				Meas.	STAT	Meas.	STAT
5.1.1	OUTPUT CHARACTERISTICS						
5.1.1.1	OUTPUT AMPLITUDE Max	18.0-27.0	Vpp	19.40	Pass	19.80	Pass
	Min	18.0-27.0	Vpp	19.20	Pass	19.50	Pass
5.1.1.2	OUTPUT RISE TIME-Sync	100- 300	ns	210	Pass	210	Pass
5.1.1.2	OUTPUT RISE TIME-Data	100- 300	ns	205	Pass	204	Pass
5.1.1.2	OUTPUT FALL TIME-Sync	100- 300	ns	207	Pass	205	Pass
5.1.1.2	OUTPUT FALL TIME-Data	100- 300	ns	208	Pass	205	Pass
5.1.1.3	ZERO CROSSING STAB.						
	500ns Tzcp	475- 525	ns	497	Pass	497	Pass
	1000ns Tzcp	975-1025	ns	1004	Pass	1004	Pass
	1500ns Tzcp	1475-1525	ns	1500	Pass	1500	Pass
	2000ns Tzcp	1975-2025	ns	2000	Pass	2000	Pass
	500ns Tzcn	475- 525	ns	505	Pass	505	Pass
	1000ns Tzcn	975-1025	ns	1005	Pass	1005	Pass
	1500ns Tzcn	1475-1525	ns	1515	Pass	1515	Pass
	2000ns Tzcn	1975-2025	ns	2005	Pass	2006	Pass
5.1.1.4	DISTORTION, OVERSHOOT AND RINGING	≤ ± 900	mVp	150	Pass	150	Pass
5.1.1.5	OUTPUT SYMMETRY						
	(0000)	≤ ± 250	mVp	40	Pass	50	Pass
	(5555)	≤ ± 250	mVp	40	Pass	45	Pass
	(7FFF)	≤ ± 250	mVp	75	Pass	85	Pass
	(8000)	≤ ± 250	mVp	65	Pass	75	Pass
	(AAAA)	≤ ± 250	mVp	50	Pass	55	Pass
	(FFFF)	≤ ± 250	mVp	85	Pass	95	Pass
5.1.1.6	OUTPUT NOISE						
	with power on	≤ 14	mVrms	3	Pass	4	Pass
	with power off	≤ 14	mVrms	3	Pass	4	Pass
5.1.1.7	OUTPUT ISOLATION						
	Active Bus	≥ 45	db	64	Pass	63	Pass
	Inactive Bus	18.0-27.0	Vpp	19.40	Pass	19.80	Pass
			mVpp	12	Pass	14	Pass
5.1.1.8.1	POWER ON/OFF NOISE						
	Power Up Amplitude	≤ ± 250	mVp	5	Pass	20	Pass
	Pulse Width		us	.1		.1	
	Power Down Amplitude	≤ ± 250	mVp	5	Pass	5	Pass
	Pulse Width		us	.1		.1	
5.1.1.8.2	POWER ON RESPONSE	protocol	---		Pass		Pass

SUBTITLE: Electrical Tests
5.1.1 Output Characteristics (XFR)

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Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S A		B U S B	
				Meas.	STAT	Meas.	STAT
5.1.1.9	TERMINAL RESPONSE TIME						
	Transmit	4.0-12.0	us	6.00	Pass	6.01	Pass
	Receive	4.0-12.0	us	5.80	Pass	5.80	Pass
	RT-UUT	4.0-12.0	us	5.80	Pass	5.80	Pass
	Mode Command	4.0-12.0	us	6.00	Pass	6.00	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	-186	Pass	-185	Pass
	Max. Deviation	≥ 150	ns	177	Pass	177	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	568	Pass	554	Pass
	1st NR threshold	200- 860	mVpp	576	Pass	542	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

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

CORE.DAT
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Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S A		B U S B	
				Meas.	STAT	Meas.	STAT
5.1.2.3	INPUT IMPEDANCE						
	75 kHz Power ON Phase Angle	≥ 1000	ohms degs	4529 71	Pass	4363 71	Pass
	100 kHz Power ON Phase Angle	≥ 1000	ohms degs	6430 65	Pass	6133 64	Pass
	250 kHz Power ON Phase Angle	≥ 1000	ohms degs	9999 -31	Pass	9999 -24	Pass
	500 kHz Power ON Phase Angle	≥ 1000	ohms degs	5012 -70	Pass	5345 -67	Pass
	1.0 MHz Power ON Phase Angle	≥ 1000	ohms degs	2311 -80	Pass	2464 -79	Pass
	75 kHz Power OFF Phase Angle	≥ 1000	ohms degs	4757 70	Pass	5534 65	Pass
	100 kHz Power OFF Phase Angle	≥ 1000	ohms degs	6925 63	Pass	7934 55	Pass
	250 kHz Power OFF Phase Angle	≥ 1000	ohms degs	9999 -41	Pass	9999 -40	Pass
	500 kHz Power OFF Phase Angle	≥ 1000	ohms degs	4315 -72	Pass	4464 -70	Pass
	1.0 MHz Power OFF Phase Angle	≥ 1000	ohms degs	2021 -81	Pass	2127 -80	Pass

SUBTITLE: Electrical Tests
 5.1.2.3 Input Impedance (XFR)

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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 5.2.1.1.1	Response to Command Words RT Response to Commands Non-Broadcast Commands						
	Valid, Legal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(1801/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1801/ 0/ 0)	1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Valid, Illegal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(119/ 0/ 0)	1-0-25-00	1-4-0-00	ME	1-0-25-00	1-4-0-00	ME
	B:(119/ 0/ 0)	1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Invalid Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(61440/ 0/ 0)	0-0-00-00	- - -	NR	0-0-00-00	- - -	NR
	B:(61440/ 0/ 0)	1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Legal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(16/ 0/ 0)	1-0-00-17	1-0-0-00	CS	1-0-00-17	1-0-0-00	CS
	B:(16/ 0/ 0)	1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Illegal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(6/ 0/ 0)	1-0-00-20	1-4-0-00	ME	1-0-00-20	1-4-0-00	ME
	B:(6/ 0/ 0)	1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Undefined Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(98/ 0/ 0)	1-0-00-00	1-4-0-00	ME	1-0-00-00	1-4-0-00	ME
	B:(98/ 0/ 0)	1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME

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 5.2.1.1.1	Response to Command Words RT Response to Commands Broadcast Commands						
	Valid, Legal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(905/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
	B:(905/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	Valid, Illegal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(1015/ 0/ 0)	31-0-25-00	- - -	NR	31-0-25-00	- - -	NR
	B:(1015/ 0/ 0)	1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
	Invalid Commands			N/A			N/A
				N/A			N/A
				N/A			N/A
	Legal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(8/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B:(8/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	Illegal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(14/ 0/ 0)	31-0-00-20	- - -	NR	31-0-00-20	- - -	NR
	B:(14/ 0/ 0)	1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
	Undefined Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(98/ 0/ 0)	31-0-00-00	- - -	NR	31-0-00-00	- - -	NR
	B:(98/ 0/ 0)	1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR

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 5.2.1.1.2	Response to Command Words RT-RT Response to Command Words Non-Broadcast Receive Commands						
	Valid, Legal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(905/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-01	1-0-0-00	CS
	B:(905/ 0/ 0)	2-1-01-01	2-0-0-00	CS	2-1-01-01	2-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Valid, Illegal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(55/ 0/ 0)	1-0-25-01	1-4-0-00	ME	1-0-25-01	1-4-0-00	ME
	B:(55/ 0/ 0)	2-1-01-01	2-0-0-00	CS	2-1-01-01	2-0-0-00	CS
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Invalid Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	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
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Legal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	1-0-00-17	1-0-0-00	CS	1-0-00-17	1-0-0-00	CS
	B:(2/ 0/ 0)	2-1-01-01	2-0-0-00	CS	2-1-01-01	2-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Illegal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(4/ 0/ 0)	1-0-00-20	1-4-0-00	ME	1-0-00-20	1-4-0-00	ME
	B:(4/ 0/ 0)	2-1-01-01	2-0-0-00	CS	2-1-01-01	2-0-0-00	CS
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Undefined Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(58/ 0/ 0)	1-0-00-00	1-4-0-00	ME	1-0-00-00	1-4-0-00	ME
	B:(58/ 0/ 0)	2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME

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 5.2.1.1.2	Response to Command Words RT-RT Response to Command Words Non-Broadcast Transmit Commands						
	Valid, Legal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(896/ 0/ 0)	2-0-01-01	- - -	NR	2-0-01-01	- - -	NR
	B:(896/ 0/ 0)	1-1-01-01	1-0-0-00	CS	1-1-01-01	1-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Valid, Illegal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(64/ 0/ 0)	2-0-01-01	- - -	NR	2-0-01-01	- - -	NR
	B:(64/ 0/ 0)	1-1-26-01	1-4-0-00	ME	1-1-26-01	1-4-0-00	ME
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Invalid Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	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
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Legal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(14/ 0/ 0)	2-0-01-00	- - -	NR	2-0-01-00	- - -	NR
	B:(14/ 0/ 0)	1-1-00-01	1-0-0-00	CS	1-1-00-01	1-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	Illegal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	2-0-01-00	- - -	NR	2-0-01-00	- - -	NR
	B:(2/ 0/ 0)	1-1-00-00	1-4-0-00	ME	1-1-00-00	1-4-0-00	ME
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
	Undefined Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(40/ 0/ 0)	2-0-01-00	- - -	NR	2-0-01-00	- - -	NR
	B:(40/ 0/ 0)	1-1-00-09	1-4-0-00	ME	1-1-00-09	1-4-0-00	ME
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME

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 5.2.1.1.2	Response to Command Words RT-RT Response to Command Words Broadcast Receive Commands						
	Valid, Legal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(905/ 0/ 0)	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	B:(905/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	Valid, Illegal Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(55/ 0/ 0)	31-0-25-01	- - -	NR	31-0-25-01	- - -	NR
	B:(55/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0-1-01-01	0-0-0-00	CS
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
	Invalid Commands			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
	Legal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	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
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	Illegal Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	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
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
	Undefined Mode Commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	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
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR

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 5.2.1.1.2	Response to Command Words 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	1-0-01-01 0-0-01-01 31-1-01-01 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR	1-0-01-00 0-0-01-01 31-1-01-01 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR
	A:(960/ 0/ 0)						
	B:(960/ 0/ 0)						
	Invalid Commands			N/A N/A N/A N/A			N/A N/A N/A N/A
	Legal Mode Commands	1-0-01-01 0-0-01-00 31-1-00-01 1-1-00-18	1-0-0-00 - - - - - - 1-0-0-16	CS NR NR BCR	1-0-01-00 0-0-01-00 31-1-00-01 1-1-00-18	1-0-0-00 - - - - - - 1-0-0-16	CS NR NR BCR
	A:(6/ 0/ 0)						
	B:(6/ 0/ 0)						
	Illegal Mode Commands	1-0-01-01 0-0-01-00 31-1-00-00 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR	1-0-01-00 0-0-01-00 31-1-00-00 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR
	A:(10/ 0/ 0)						
	B:(10/ 0/ 0)						
	Undefined Mode Commands	1-0-01-01 0-0-01-00 31-1-00-09 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR	1-0-01-00 0-0-01-00 31-1-00-09 1-1-00-18	1-0-0-00 - - - - - - 1-4-0-16	CS NR NR MBR
	A:(40/ 0/ 0)						
	B:(40/ 0/ 0)						

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By: TEST SYSTEMS, Inc.

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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 5.2.1.2.1	Intermessage Gap						
	Minimum Time						
	BC-UUT Transfer	1-0-05-00	1-0-0-00	CS	1-0-05-00	1-0-0-00	CS
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	UUT-BC Transfer	1-1-02-00	1-0-0-00	CS	1-1-02-00	1-0-0-00	CS
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	UUT/RT Transfer	1-0-21-00	1-0-0-00	CS	1-0-21-00	1-0-0-00	CS
	A:(1000/ 0/ 0)	2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
	B:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	RT/UUT Transfer	25-0-01-00	25-0-0-00	DC	2-0-01-00	2-0-0-00	DC
	A:(1000/ 0/ 0)	1-1-24-00	1-0-0-00	CS	1-1-24-00	1-0-0-00	CS
	B:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	Mode Command w/o data	1-1-00-01	1-0-0-00	CS	1-1-00-01	1-0-0-00	CS
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	Mode Command, Transmit w/Data	1-1-00-16	1-0-0-00	CS	1-1-00-16	1-0-0-00	CS
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	Mode Command, Receive w/Data	1-0-00-17	1-0-0-00	CS	1-0-00-17	1-0-0-00	CS
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	Broadcast BC-UUT	31-0-30-00	- - -	NR	31-0-30-00	- - -	NR
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	Broadcast RT/UUT	31-0-01-30	- - -	NR	31-0-01-30	- - -	NR
	A:(1000/ 0/ 0)	1-1-30-30	1-0-0-00	CS	1-1-30-30	1-0-0-00	CS
	B:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	Broadcast UUT/RT	31-0-30-00	- - -	NR	31-0-30-00	- - -	NR
	A:(1000/ 0/ 0)	0-1-01-00	0-0-0-00	CS	0-1-01-00	0-0-0-00	CS
	B:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	Broadcast Mode Cmnd w/o data	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						
	Broadcast Mode Cmnd w/data	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	A:(1000/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(1000/ 0/ 0)						

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5.2.1.2. Intermessage Gap

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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 5.2.1.2.2	Intermessage Gap						
	Transmission Rate						
	Transmit-Transmit	1-1-06-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
	A:(19344/ 0/ 0)	1-1-07-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
	B:(19330/ 0/ 0)	1-1-06-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-07-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
	Busy (usec)		0			0	
	Receive-Receive	1-0-10-00	1-0-0-00	CS	1-0-10-00	1-0-0-00	CS
	A:(19338/ 0/ 0)	1-0-11-00	1-0-0-00	CS	1-0-11-00	1-0-0-00	CS
	B:(19354/ 0/ 0)	1-0-10-00	1-0-0-00	CS	1-0-10-00	1-0-0-00	CS
		1-0-11-00	1-0-0-00	CS	1-0-11-00	1-0-0-00	CS
	Busy (usec)		0			0	
	Transmit-Receive	1-1-20-00	1-0-0-00	CS	1-1-20-00	1-0-0-00	CS
	A:(19350/ 0/ 0)	1-0-21-00	1-0-0-00	CS	1-0-21-00	1-0-0-00	CS
	B:(19338/ 0/ 0)	1-1-20-00	1-0-0-00	CS	1-1-20-00	1-0-0-00	CS
		1-0-21-00	1-0-0-00	CS	1-0-21-00	1-0-0-00	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	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-06-00	- - -	NR	1-1-06-00	- - -	NR
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.1.2	Receive Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.1.3	Receive Data Words	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME

SUBTITLE: Required Protocol Tests
 5.2.1.2. Intermassage Gap

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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	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	1-1-06-00	- - -	NR	1-1-06-00	- - -	NR
	B:(2/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.2.2	Receive Command						
	Short Receive commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(2/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	Long Receive commands	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(2/ 0/ 0)	1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.2.3	Receive Data Words	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(126/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(126/ 0/ 0)	1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.3	Bi-Phase Encoding						
5.2.1.3.3.1	Transmit Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(34/ 0/ 0)	1-1-06-00	- - -	NR	1-1-06-00	- - -	NR
	B:(34/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.3.2	Receive Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(34/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(34/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.3.3	Receive Data Words	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(1088/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(1088/ 0/ 0)	1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.4	Sync Encoding						
5.2.1.3.4.1	Transmit Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(5/ 0/ 0)	1-1-06-00	- - -	NR	1-1-06-00	- - -	NR
	B:(5/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.4.2	Receive Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(5/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(5/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.3.4.3	Receive Data Words	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(160/ 0/ 0)	1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
	B:(160/ 0/ 0)	1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME

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5.2.1.3.2. Word Length

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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 5.2.1.3.5.1	Message Length Transmit Command	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-06-00	- - -	NR	1-1-06-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.5.2	Receive Command A:(33/ 0/ 0) B:(33/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.5.3	Receive Mode Command A:(2/ 0/ 0) B:(2/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-00-17	- - -	NR	1-0-00-17	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.5.4	Transmit Mode Command A:(1/ 0/ 0) B:(1/ 0/ 0)	1-0-01-01	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-01	- - -	NR	1-1-00-01	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.5.4	RT-RT Word Count Error A:(2/ 0/ 0) B:(2/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		1-0-08-00	- - -	NR	1-0-08-00	- - -	NR
		2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.6	Contiguous Data A:(32/ 0/ 0) B:(32/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-05-00	- - -	NR	1-0-05-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
5.2.1.3.7	Terminal Fail-Safe						
5.2.1.4	Superseding Commands part A	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	part B	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
	part C	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	part D	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS

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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 A:(2/ 0/ 0) B:(2/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
		1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
5.2.1.5.2	Xmtr Shutdown/Override A:(4/ 0/ 0) B:(4/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-04	1-0-0-00	CS	1-1-00-04	1-0-0-00	CS
		1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-05	- - -	NR	1-1-00-05	- - -	NR
		1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-1-00-05	1-0-0-00	CS	1-1-00-05	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
5.2.1.5.3	Reset Remote Terminal Delay to Stable Response A:(1764/ 0/ 0) B:(1764/ 0/ 0) (T ≤ 5000us) Shutdown A:(2/ 0/ 0) B:(2/ 0/ 0)	1-1-00-08	1-0-0-00	CS	1-1-00-08	1-0-0-00	CS
		1-1-01-00	- - -	NR	1-1-01-00	- - -	NR
			11			11	
		1-1-00-04	1-0-0-00	CS	1-1-00-04	1-0-0-00	CS
		1-1-01-00	- - -	NR	1-1-01-00	- - -	NR
		1-1-00-08	1-0-0-00	CS	1-1-00-08	1-0-0-00	CS
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
5.2.1.6	Data Wrap-around A:(10000/ 0/ 0) B:(10000/ 0/ 0)	1-0-30-00	1-0-0-00	CS	1-0-30-00	1-0-0-00	CS
		1-1-30-00	1-0-0-00	CS	1-1-30-00	1-0-0-00	CS
5.2.1.7	RT-RT Timeout Delay Time to first NR (54us ≤ T ≤ 60us) Time to first CS (54us ≤ T ≤ 60us)	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
			57.5			57.5	
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		2-1-01-00	2-0-0-00	CS	2-1-01-00	2-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
			57.0			57.0	

SUBTITLE: Required Protocol Tests
 5.2.1.5. Required Mode Commands

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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	1-1-02-00	- - -	NR	1-1-02-00	- - -	NR
	A:(10945/ 0/ 0)	1-1-05-00	1-0-0-00	CS	1-1-05-00	1-0-0-00	CS
	B:(10945/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	Command w/Parity Error	1-1-02-00	1-0-0-00	CS	1-1-02-00	1-0-0-00	CS
	A:(10945/ 0/ 0)	1-1-05-00	- - -	NR	1-1-05-00	- - -	NR
	B:(10945/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	Command to another RT	1-1-02-00	1-0-0-00	CS	1-1-02-00	1-0-0-00	CS
	A:(10945/ 0/ 0)	2-1-05-00	- - -	NR	2-1-05-00	- - -	NR
	B:(10945/ 0/ 0)	1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	RT Receiving						
	Valid, Legal Command	1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
	A:(11649/ 0/ 0)	2-1-05-00	2-0-0-00	CS	2-1-05-00	2-0-0-00	CS
	B:(11649/ 0/ 0)	1-1-05-00	1-0-0-00	CS	1-1-05-00	1-0-0-00	CS
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	Command w/Parity Error	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(11649/ 0/ 0)	2-1-05-00	2-0-0-00	CS	2-1-05-00	2-0-0-00	CS
	B:(11649/ 0/ 0)	1-1-05-00	- - -	NR	1-1-05-00	- - -	NR
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS
	Command to another RT	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(11649/ 0/ 0)	2-1-05-00	2-0-0-00	CS	2-1-05-00	2-0-0-00	CS
	B:(11649/ 0/ 0)	2-1-05-00	- - -	NR	2-1-05-00	- - -	NR
		1-1-00-02	1-0-0-00	CS	1-1-00-02	1-0-0-00	CS

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

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)	1-1-00-00	1-4-0-00	ME	1-1-00-00	1-4-0-00	ME
5.2.2.1.2	Synchronize						
5.2.2.1.2.1	Synchronize without data A:(2/ 0/ 0) B:(2/ 0/ 0)	1-1-00-01	1-0-0-00	CS	1-1-00-01	1-0-0-00	CS
5.2.2.1.2.2	Synchronize with data A:(2/ 0/ 0) B:(2/ 0/ 0)	1-0-00-17	1-0-0-00	CS	1-0-00-17	1-0-0-00	CS
5.2.2.1.3	SYNC Word Initiate Self-Test A:(1964/ 0/ 0) B:(1964/ 0/ 0) (T ≤ 100,000us)	1-1-00-03 1-1-01-00	1-0-0-00 1-0-0-00	CS CS	1-1-00-03 1-1-01-00	1-0-0-00 1-0-0-00	CS CS
5.2.2.1.4	Transmit BIT word A:(2/ 0/ 0) B:(2/ 0/ 0)	1-1-00-19	1-0-0-00	CS	1-1-00-19	1-0-0-00	CS
5.2.2.1.5	BIT Word Selective Xmtr Shutdown A:(4/ 0/ 0) B:(4/ 0/ 0)		0241			8241	
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-00-20	1-4-0-00	ME	1-0-00-20	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-00-21	1-4-0-00	ME	1-0-00-21	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-00-21	1-4-0-00	ME	1-0-00-21	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-00-20	1-4-0-00	ME	1-0-00-20	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	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)	1-0-01-00 1-1-01-01 1-0-01-00 1-1-00-06 1-0-01-00 1-1-31-07 1-0-01-00 1-1-01-01 1-0-01-00	1-0-0-00 1-0-0-01 1-0-0-01 1-0-0-00 1-0-0-00 1-0-0-01 1-0-0-01 1-0-0-00 1-0-0-00	CS DC TF CS CS TF TF DC CS	1-0-01-00 1-1-01-01 1-0-01-00 1-1-00-06 1-0-01-00 1-1-31-07 1-0-01-00 1-1-01-01 1-0-01-00	1-0-0-00 1-0-0-01 1-0-0-01 1-0-0-00 1-0-0-00 1-0-0-01 1-0-0-01 1-0-0-00 1-0-0-00	CS DC TF CS CS TF TF DC CS

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 A:(2/ 0/ 0) B:(2/ 0/ 0) VECTOR Word	1-1-00-16	1-0-0-00	CS	1-1-00-16	1-0-0-00	CS
5.2.2.1.8	Transmit Last Command A:(2/ 0/ 0) B:(2/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-0-01-01	- - -	NR	1-0-01-01	- - -	NR
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
		1-1-00-18	1-4-0-00	ME	1-1-00-18	1-4-0-00	ME
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
5.2.2.2	Status Word						
5.2.2.2.1	Service Request	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		1-1-01-01	1-1-0-00	DC	1-1-01-01	1-1-0-00	DC
		1-1-01-00	1-1-0-00	SR	1-1-01-00	1-1-0-00	SR
		1-1-01-00	1-1-0-00	SR	1-1-01-00	1-1-0-00	SR
		1-1-01-01	1-0-0-00	DC	1-1-01-01	1-0-0-00	DC
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
5.2.2.2.2	Broadcast Command Received	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-01-01	1-0-0-00	CS	1-1-01-01	1-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
5.2.2.2.3	Busy	1-1-01-01	1-0-0-08	DC	1-1-01-01	1-0-0-08	DC
		1-1-02-00	1-0-0-08	BUSY	1-1-02-00	1-0-0-08	BUSY
		1-1-01-01	1-0-0-00	DC	1-1-01-01	1-0-0-00	DC
		1-1-01-01	1-0-0-00	CS	1-1-01-01	1-0-0-00	CS
5.2.2.2.4	Subsystem Flag	1-1-01-01	1-0-0-04	DC	1-1-01-01	1-0-0-04	DC
		1-1-02-00	1-0-0-04	SF	1-1-02-00	1-0-0-04	SF
		1-1-01-01	1-0-0-00	DC	1-1-01-01	1-0-0-00	DC
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
5.2.2.2.5	Terminal Flag	1-1-01-01	1-0-0-01	DC	1-1-01-01	1-0-0-01	DC
		1-0-01-00	1-0-0-01	TF	1-0-01-00	1-0-0-01	TF
		1-1-01-01	1-0-0-00	DC	1-1-01-01	1-0-0-00	DC
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS

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	1-0-25-00	1-4-0-00	ME	1-0-25-00	1-4-0-00	ME
		1-1-02-00	1-0-0-00	CS	1-1-02-00	1-0-0-00	CS
		1-0-25-00	- - -	NR	1-0-25-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-0-25-00	- - -	NR	1-0-25-00	- - -	NR
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
	part B	1-1-26-00	1-4-0-00	ME	1-1-26-00	1-4-0-00	ME
		1-1-02-00	1-0-0-00	CS	1-1-02-00	1-0-0-00	CS
		1-0-25-00	- - -	NR	1-0-25-00	- - -	NR
		1-1-00-02	1-4-0-00	ME	1-1-00-02	1-4-0-00	ME
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
		1-0-25-00	- - -	NR	1-0-25-00	- - -	NR
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
5.2.2.4	Broadcast Mode Commands						
5.2.2.4.1	Synchronize without data	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR
	B:(2/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
5.2.2.4.2	Synchronize with data	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(2/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B:(2/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	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)	1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS
	B:(1968/ 0/ 0)		4			4	
5.2.2.4.4	Xmtr Shutdown/Override	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	A:(4/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	B:(4/ 0/ 0)	31-1-00-04	- - -	NR	31-1-00-04	- - -	NR
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
		1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		31-1-00-05	- - -	NR	31-1-00-05	- - -	NR
		1-0-01-00	- - -	NR	1-0-01-00	- - -	NR
		31-1-00-05	- - -	NR	31-1-00-05	- - -	NR
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS	

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A			BUS B				
		Command	Response	STAT	Command	Response	STAT		
5.2.2.4.5	Selective Xmtr Shutdown A:(4/ 0/ 0) B:(4/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-0-00-20	- - -	NR	31-0-00-20	- - -	NR		
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-0-00-21	- - -	NR	31-0-00-21	- - -	NR		
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-0-00-20	- - -	NR	31-0-00-20	- - -	NR		
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-0-00-20	- - -	NR	31-0-00-20	- - -	NR		
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
	Alt Bus Selection Word		0000		0000				
	Pri Bus Selection Word		0000		0000				
5.2.2.4.6	Terminal Flag Bit Inhibit A:(4/ 0/ 0) B:(4/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		1-1-01-01	1-0-0-01	DC	1-1-01-01	1-0-0-01	DC		
		1-0-01-00	1-0-0-01	TF	1-0-01-00	1-0-0-01	TF		
		31-1-00-06	- - -	NR	31-1-00-06	- - -	NR		
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		31-1-31-07	- - -	NR	31-1-31-07	- - -	NR		
		1-1-00-18	1-0-0-17	BRTF	1-1-00-18	1-0-0-17	BRTF		
		1-0-01-00	1-0-0-01	TF	1-0-01-00	1-0-0-01	TF		
		1-1-01-01	1-0-0-00	DC	1-1-01-01	1-0-0-00	DC		
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS		
		5.2.2.4.7	Reset Remote Terminal Delay to Stable Response A:(1768/ 0/ 0) B:(1768/ 0/ 0) (T ≤ 5000us)	31-1-00-08	- - -	NR	31-1-00-08	- - -	NR
				1-1-01-00	- - -	NR	1-1-01-00	- - -	NR
				14			14		
5.2.2.4.8	Dynamic Bus Control A:(2/ 0/ 0) B:(2/ 0/ 0)	1-1-00-04	1-0-0-00	CS	1-1-00-04	1-0-0-00	CS		
		1-1-01-00	- - -	NR	1-1-01-00	- - -	NR		
		31-1-00-08	- - -	NR	31-1-00-08	- - -	NR		
		1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS		
5.2.2.4.8	Dynamic Bus Control A:(2/ 0/ 0) B:(2/ 0/ 0)	1-1-01-00	1-0-0-00	CS	1-1-01-00	1-0-0-00	CS		
		31-1-00-00	- - -	NR	31-1-00-00	- - -	NR		
		1-1-00-02	1-4-0-16	MBR	1-1-00-02	1-4-0-16	MBR		

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						
5.2.2.5.1	-Broadcast Messages						
5.2.2.5.1.1	Parity: BC-RT Broadcast Command w/Parity Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
		1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-00-18	1-0-0-00	CS	1-1-00-18	1-0-0-00	CS
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
5.2.2.5.1.2	Data Word Error	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	A:(32/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	B:(32/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
5.2.2.5.2	Message Length: BC-RT Broadcast	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	A:(33/ 0/ 0)	1-1-00-18	1-0-0-16	BCR	1-1-00-18	1-0-0-16	BCR
	B:(33/ 0/ 0)	1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
		31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
		1-1-00-18	1-4-0-16	MBR	1-1-00-18	1-4-0-16	MBR
		1-0-01-00	1-0-0-00	CS	1-0-01-00	1-0-0-00	CS
5.2.3	Noise Rejection	1-0-30-00	1-0-0-00	CS	1-0-30-00	1-0-0-00	CS
	Words Received	44,000,022		PASS	44,000,022		PASS
	Noise Level used (mV)	140			140		
	A:(1333334/ 0/ 0)						
	B:(1333334/ 0/ 0)						