TEST SYSTEMS, Inc. MIL-STD-1553B RT VALIDATION TEST REPORT By: TEST SYSTEMS, Inc.	BVL12.DAT 11/18/13 (13:55:22)
CUSTOMER: Microsemi SOC Corp. 3870 N. First Street San Jose, CA 95134	**TEST STARTED:** Nov. 13, 2013 **TEST COMPLETED:** Nov. 13, 2013

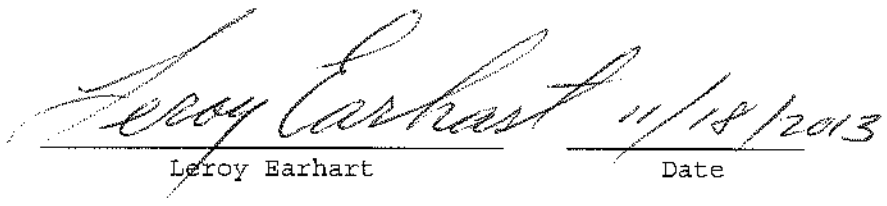
UNIT UNDER TEST IDENTIFICATION:

CORE1553BRT v4.0.004 running Verilog at 12 MHz (BVL12)
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

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 13, 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

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:

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 Bus A with 165 mv of noise and passed on Bus B with 170 mv of noise (25 mv and 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.

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
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

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

	Receive (T/R=0) Word Count Field		Transmit (T/R=1) Word Count Field
	11111111112222222223		11111111112222222223
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	01234567890----------------------	27	-----567890123456----------------
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:	None.

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

	Receive (T/R=0) Word Count Field		Transmit (T/R=1) Word Count Field
	11111111112222222223		11111111112222222223
SA	01234567890123456789012345678901	SA	01234567890123456789012345678901
0	----------------------------------	0	---3----------------------------
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	01234567890----------------------	27	----------------------------------
28	01234567890123456789012345678901	28	----------------------------------
29	01234567890123456789012345678901	29	----------------------------------
30	01234567890123456789012345678901	30	----------------------------------
31	----------------------------------	31	---3----------------------------

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		

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	≤ ± 900	mVp	50	Pass	50	Pass
5.1.1.5	OUTPUT SYMMETRY						
	(0000)	≤ ± 250	mVp	-53	Pass	9	Pass
	(5555)	≤ ± 250	mVp	-53	Pass	10	Pass
	(7FFF)	≤ ± 250	mVp	-31	Pass	20	Pass
	(8000)	≤ ± 250	mVp	-39	Pass	13	Pass
	(AAAA)	≤ ± 250	mVp	-46	Pass	11	Pass
	(FFFF)	≤ ± 250	mVp	-32	Pass	18	Pass
5.1.1.6	OUTPUT NOISE						
	with power on	≤ 14	mVrms	8	Pass	8	Pass
	with power off	≤ 14	mVrms	1	Pass	1	Pass
5.1.1.7	OUTPUT ISOLATION	≥ 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	≤ ± 250	mVp		Pass	200	Pass
	Pulse Width		us	.1		.1	
	Power Down Amplitude	≤ ± 250	mVp		Pass	50	Pass
	Pulse Width		us	.1		.1	
5.1.1.8.2	POWER ON RESPONSE	protocol	---		Pass		Pass

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	6.48	Pass	6.47	Pass
	Receive	4.0-12.0	us	6.31	Pass	6.30	Pass
	RT-UUT	4.0-12.0	us	6.31	Pass	6.30	Pass
	Mode Command	4.0-12.0	us	6.49	Pass	6.41	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	-179	Pass	-178	Pass
	Max. Deviation	≥ 150	ns	167	Pass	173	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	605	Pass	580	Pass
	1st NR threshold	200- 860	mVpp	605	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

Ref. Section	Test Description (Xformr Coupled)	Limits	Units	B U S A Meas.	STAT	B U S B Meas.	STAT
5.1.2.3	INPUT IMPEDANCE						
	75 kHz Power ON	≥ 1000	ohms	9999	Pass	9999	Pass
	Phase Angle		degs	46		42	
	100 kHz Power ON	≥ 1000	ohms	9999	Pass	9999	Pass
	Phase Angle		degs	18		9	
	250 kHz Power ON	≥ 1000	ohms	8155	Pass	7435	Pass
	Phase Angle		degs	-62		-66	
	500 kHz Power ON	≥ 1000	ohms	3753	Pass	3432	Pass
	Phase Angle		degs	-77		-79	
	1.0 MHz Power ON	≥ 1000	ohms	1846	Pass	1690	Pass
	Phase Angle		degs	-83		-84	
	75 kHz Power OFF	≥ 1000	ohms	9999	Pass		Pass
	Phase Angle		degs	38			
	100 kHz Power OFF	≥ 1000	ohms	9999	Pass		Pass
	Phase Angle		degs	5			
	250 kHz Power OFF	≥ 1000	ohms	7018	Pass		Pass
	Phase Angle		degs	-65			
	500 kHz Power OFF	≥ 1000	ohms	3280	Pass		Pass
	Phase Angle		degs	-78			
	1.0 MHz Power OFF	≥ 1000	ohms	1616	Pass		Pass
	Phase Angle		degs	-84			

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A Command	 Response	 STAT	BUS B 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:(1815/ 0/ 0)	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	B:(1815/ 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:(105/ 0/ 0)	3-0-25-00	3-4-0-00	ME	3-0 25-00	3-4-0-00	ME
	B:(105/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A Command	 Response	 STAT	BUS B 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:(907/ 0/ 0)	31-0-01-00	- - -	NR	31-0-01-00	- - -	NR
	B:(907/ 0/ 0)	3-1-00-18	3-0-0-16	BCR	3-1-00-18	3-0-0-16	BCR
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(1013/ 0/ 0)	31-0-25-00	- - -	NR	31-0-25-00	- - -	NR
	B:(1013/ 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			N/A			N/A
				N/A			N/A
				N/A			N/A
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(28/ 0/ 0)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B:(28/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A Command	 Response	 STAT	BUS B 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/ 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
	Valid, Illegal Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(53/ 0/ 0)	3-0-25-01	3-4-0-00	ME	3-0-25-01	3-4-0-00	ME
	B:(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)	0-0-00-00	- - -	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)	3-0-00-00	3-4-0-00	ME	3-0-00-00	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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(908/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR
	B:(908/ 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:(52/ 0/ 0)	4-0-01-01	- - -	NR	4-0-01-01	- - -	NR
	B:(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/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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:(907/ 0/ 0)	31-0-01-01	- - -	NR	31-0-01-01	- - -	NR
	B:(907/ 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:(53/ 0/ 0)	31-0-25-01	- - -	NR	31-0-25-01	-	NR
	B:(53/ 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			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
	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)	31-0-00-17	- - -	NR	31-0-00-17	- - -	NR
	B:(6/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
	Illegal Mode Commands	3-0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0-00	CS
	A:(22/ 0/ 0)	0-0-01-00	- - -	NR	0-0-01-00	- - -	NR
	B:(22/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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,	3-1-00-16	3-0-0-00	CS	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
	A:(1000/ 0/ 0)						
	B:(1000/ 0/ 0)						
	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
	A:(1000/ 0/ 0)						
	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	31-0-01-00	- -	NR
	A:(1000/ 0/ 0)	0-1-01-01	0-0-0-00	CS	0 1-01-00	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	31-1-00-01	- - -	NR	31-1-00-03	-	NR
	w/o data	3 0-01-00	3-0-0-00	CS	3-0-01-00	3-0-0 00	CS
	A:(1000/ 0/ 0)						
	B:(1000/ 0/ 0)						
	Broadcast Mode Cmnd	31-0-00-17	-	NR	31-1-00 01	- - -	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)						
	B:(1000/ 0/ 0)						

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A Command	 Response	 STAT	BUS B 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:(19338/ 0/ 0)	3-1-07-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B:(19318/ 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:(19330/ 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:(19314/ 0/ 0)	3-0-21-00	3-0-0-00	CS	3-0-21-00	3-0-0-00	CS
	B:(19338/ 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	BUS A Command	BUS A Response	BUS A STAT	BUS B Command	BUS B Response	BUS B 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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	

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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 Command	 Response	 STAT	B U S B 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/ 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/ 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/ 0/ 0)						
	B:(2/ 0/ 0)						
	SYNC Word		0000			0000	
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/ 0/ 0)	3-1-01-00	3-0-0-00	CS	3-1-01-00	3-0-0-00	CS
	B:(1964/ 0/ 0)						
	(T ≤ 100,000us)		4			4	
5.2.2.1.4	Transmit BIT word	3-1-00-19	3-0-0-00	CS	3-1-00-19	3-0-0-00	CS
	A:(2/ 0/ 0)						
	B:(2/ 0/ 0)						
	BIT Word		02cd			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/ 0)	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	CS
		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	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	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
		3-0-00-20	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	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	
5.2.2.1.6	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/ 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
		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
		3-0-01-00	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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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		0000			0000	
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	31-0-01-00	- - -	NR	31-0-01-00	- - -	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
		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
		3-1-00-18	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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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	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
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	CS
	A:(2/ 0/ 0)	31-1-00-01	- - -	NR	31-1-00-01	- - -	NR
	B:(2/ 0/ 0)	3-1-00-18	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
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	3-4-0-16	MBR	3-1-00-18	3-4-0-16	MBR
	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	3-4-0-16	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
		31-1-00-05	- - -	NR	31-1-00-05	- - -	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
		3-1-00-18	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

Reference Section	Test Description Bus: (run cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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	3-4-0-17	MBRT	3-1-00-18	3-4-0-17	MBRT
		3-0-01-00	3-0-0-01	TF	3-0-01-00	3-0-0-01	TF
		31-1-31-07	- - -	NR	31-1-31-07	- - -	NR
		3-1-00-18	3-4-0-17	MBRT	3-1-00-18	3-4-0-17	MBRT
		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			N/A			N/A
				N/A			N/A
				N/A			N/A
				N/A			N/A
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

Reference Section	Test Description Bus: (rcv cnt/ errors/ busy cnt)	B U S A Command	 Response	 STAT	B U S B 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	- - -	EF	3-0-30-00	- - -	EF
	Words Received	52,100,004		PASS	68,300,001		PASS
	Noise Level used (mV)	165			170		
	A:(1578788/ 1/ 0)						
	B:(2069697/ 3/ 0)						