



**National Semiconductor Corporation
Radiation Effects Laboratory
South Portland, Maine 04106**

ANALOG TOTAL DOSE RADIATION REPORT

Customer: ELDRS RAD. QUAL.

Part Type: RM139AWRQMLV

Input Bias Circuit: 7120 IR

Dose Rate: LOW DOSE

Test Program Used: RH0139AXYB

Tester: White Sands / L. Collins

Wafer Run Number: JM03BX30

Wafer Number: 1

Package Type: JCPAC014

Production Lot #: 8J9481C019

IPI #: N/A

Disposition: PASSES

Summary:

Passes Room Temp @: 100k

Part Out of Room Temp Spec @: N/A

Functional Failed @: N/A (no devices failed functionally)

Parameters over Limit:

Review By: Mike Maher

Reviewed By QA: Mike Maher – April 06, 2004

Note:

These parts may be dose rate sensitive in a space environment and demonstrate enhanced low dose rate effect.

**Standard Test Flow Sheet For Rad Testing
Customer Special Attachment
Rad Hard Linear**

NSID# RM139AWRQMLV

LOT# 8J9481C019

IPI# N/A

Test Program: RH0139AXYB

Machine: LTX 01-04

Operator: D0226

Bias Board: 7120 IR

Start Time/Date: 5:17 P.M 11/24/2003

Finish Time/Date: 4:14 P.M 3/26/2004

QA: April 6, 2004

Control Units s/n: #10 #11

Duts : #14 #15 #16 #17 #18 #19

Location Step	Operation Mtd/Cond	Qty In	Qty Out	Var	Mech	Rej	FF
PASS	Pre - Rad Read/Rec. Tp1	6	6	0	0	0	0
	<i>Irradiation</i> <i>3k</i> <i>Level</i>	6	6	0	0	N/A	N/A
PASS	Post Rad Read/Rec. Tp2	6	6	0	0	0	0
	<i>Irradiation</i> <i>10k</i> <i>Level</i>	6	6	0	0	N/A	N/A
PASS	Post Rad Read/Rec. Tp3	6	6	0	0	0	0

**Standard Test Flow Sheet For Rad Testing
Customer Special Attachment
Rad Hard Linear**

NSID# RM139AWRQMLV

LOT# 8J9481C019

IPI# N/A

Location Step	Operation Mtd/Cond	Qty In	Qty Out	Var	Mech	Rej	FF
	<i>Irradiation</i>	6	6	0	0		
	<i>30k</i>					N/A	N/A
	<i>Level</i>						
PASS	Post Rad Read/Rec. Tp4	6	6	0	0	0	0
	<i>Irradiation</i>	6	6	0	0		
	<i>52k</i>					N/A	N/A
	<i>Level</i>						
PASS	Post Rad Read/Rec. Tp5	6	6	0	0	0	0
	<i>Irradiation</i>	6	6	0	0		
	<i>78k</i>					N/A	N/A
	<i>Level</i>						
PASS	Post Rad Read/Rec. Tp6	6	6	0	0	0	0
	<i>Irradiation</i>	6	6	0	0		
	<i>100k</i>					N/A	N/A
	<i>Level</i>						
PASS	Post Rad Read/Rec. Tp7	6	6	0	0	0	0

Note: All irradiation's are done per MAS-5010

0k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	10	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0 DGR	1019.0	37.1 NA		
2019.0	36.5 NA	3019.0	35.7 NA	4019.0	36.0 NA		
1019.0	34.6 NA	2019.0	32.4 NA	3019.0	34.5 NA		
4019.0	34.6 NA	1.0	0.747 MA	2.0	0.888 MA		
1003.0	0.307 MV	1004.0	0.388 MV	1005.0	0.376 MV		
1006.0	110.83 DB	1007.0	111.07 DB	1008.0	-29.7 NA		
1009.0	-25.4 NA	1010.0	-4.3 NA	1011.0	0.00 UA		
1012.0	16.41 MA	1013.0	0.18 V	1014.0	229.6 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.90 US		
1018.0	0.310 US	2003.0	0.285 MV	2004.0	0.337 MV		
2005.0	0.230 MV	2006.0	114.69 DB	2007.0	113.27 DB		
2008.0	-30.2 NA	2009.0	-26.4 NA	2010.0	-3.8 NA		
2011.0	0.01 UA	2012.0	16.36 MA	2013.0	0.18 V		
2014.0	266.6 V/MV	2015.0	1.580 US	2016.0	0.530 US		
2017.0	0.91 US	2018.0	0.320 US	3003.0	0.485 MV		
3004.0	0.583 MV	3005.0	0.626 MV	3006.0	109.27 DB		
3007.0	104.99 DB	3008.0	-28.6 NA	3009.0	-27.1 NA		
3010.0	-1.5 NA	3011.0	0.00 UA	3012.0	16.21 MA		
3013.0	0.18 V	3014.0	415.8 V/MV	3015.0	1.630 US		
3016.0	0.540 US	3017.0	0.89 US	3018.0	0.310 US		
4003.0	0.221 MV	4004.0	0.334 MV	4005.0	0.285 MV		
4006.0	108.04 DB	4007.0	111.78 DB	4008.0	-28.4 NA		
4009.0	-27.1 NA	4010.0	-1.3 NA	4011.0	0.01 UA		
4012.0	16.21 MA	4013.0	0.18 V	4014.0	199.8 V/MV		
4015.0	1.620 US	4016.0	0.550 US	4017.0	0.89 US		
4018.0	0.320 US						

DEVICE	11	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0 DGR	1019.0	39.6 NA		
2019.0	39.3 NA	3019.0	38.2 NA	4019.0	38.7 NA		
1019.0	36.7 NA	2019.0	35.0 NA	3019.0	37.2 NA		
4019.0	37.1 NA	1.0	0.737 MA	2.0	0.876 MA		
1003.0	0.156 MV	1004.0	0.271 MV	1005.0	0.247 MV		
1006.0	107.87 DB	1007.0	108.80 DB	1008.0	-30.6 NA		
1009.0	-26.7 NA	1010.0	-3.9 NA	1011.0	0.00 UA		
1012.0	16.98 MA	1013.0	0.17 V	1014.0	243.4 V/MV		
1015.0	1.660 US	1016.0	0.550 US	1017.0	0.91 US		
1018.0	0.320 US	2003.0	0.248 MV	2004.0	0.281 MV		
2005.0	0.186 MV	2006.0	118.70 DB	2007.0	112.08 DB		
2008.0	-31.4 NA	2009.0	-27.6 NA	2010.0	-3.8 NA		
2011.0	0.01 UA	2012.0	16.97 MA	2013.0	0.17 V		
2014.0	294.9 V/MV	2015.0	1.640 US	2016.0	0.550 US		
2017.0	0.92 US	2018.0	0.320 US	3003.0	0.370 MV		
3004.0	0.432 MV	3005.0	0.482 MV	3006.0	113.31 DB		
3007.0	106.96 DB	3008.0	-30.2 NA	3009.0	-28.7 NA		
3010.0	-1.5 NA	3011.0	0.00 UA	3012.0	16.76 MA		
3013.0	0.17 V	3014.0	534.3 V/MV	3015.0	1.670 US		
3016.0	0.550 US	3017.0	0.89 US	3018.0	0.320 US		
4003.0	0.189 MV	4004.0	0.267 MV	4005.0	0.232 MV		
4006.0	111.29 DB	4007.0	115.29 DB	4008.0	-30.0 NA		
4009.0	-29.0 NA	4010.0	-1.0 NA	4011.0	0.01 UA		
4012.0	16.83 MA	4013.0	0.17 V	4014.0	218.9 V/MV		
4015.0	1.670 US	4016.0	0.560 US	4017.0	0.90 US		
4018.0	0.320 US						

DEVICE	14	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	37.6	NA
2019.0	36.8 NA	3019.0	36.0	NA	4019.0	36.3	NA
1019.0	34.7 NA	2019.0	32.7	NA	3019.0	35.0	NA
4019.0	35.1 NA	1.0	0.756	MA	2.0	0.896	MA
1003.0	0.182 MV	1004.0	0.173	MV	1005.0	0.256	MV
1006.0	120.00 DB	1007.0	110.58	DB	1008.0	-29.7	NA
1009.0	-25.4 NA	1010.0	-4.3	NA	1011.0	0.00	UA
1012.0	16.15 MA	1013.0	0.18	V	1014.0	218.5	V/MV
1015.0	1.610 US	1016.0	0.540	US	1017.0	0.89	US
1018.0	0.320 US	2003.0	0.204	MV	2004.0	0.237	MV
2005.0	0.173 MV	2006.0	118.74	DB	2007.0	118.16	DB
2008.0	-29.5 NA	2009.0	-25.7	NA	2010.0	-3.8	NA
2011.0	0.01 UA	2012.0	16.14	MA	2013.0	0.18	V
2014.0	251.0 V/MV	2015.0	1.580	US	2016.0	0.530	US
2017.0	0.89 US	2018.0	0.310	US	3003.0	0.227	MV
3004.0	0.299 MV	3005.0	0.344	MV	3006.0	111.98	DB
3007.0	106.55 DB	3008.0	-28.9	NA	3009.0	-27.1	NA
3010.0	-1.8 NA	3011.0	0.00	UA	3012.0	15.99	MA
3013.0	0.18 V	3014.0	349.8	V/MV	3015.0	1.610	US
3016.0	0.530 US	3017.0	0.89	US	3018.0	0.310	US
4003.0	0.343 MV	4004.0	0.497	MV	4005.0	0.398	MV
4006.0	105.38 DB	4007.0	113.23	DB	4008.0	-28.7	NA
4009.0	-27.4 NA	4010.0	-1.3	NA	4011.0	0.01	UA
4012.0	15.99 MA	4013.0	0.18	V	4014.0	192.0	V/MV
4015.0	1.600 US	4016.0	0.540	US	4017.0	0.88	US
4018.0	0.310 US						

DEVICE	15	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	36.9	NA
2019.0	36.4 NA	3019.0	35.8	NA	4019.0	36.0	NA
1019.0	34.3 NA	2019.0	32.4	NA	3019.0	34.1	NA
4019.0	34.5 NA	1.0	0.743	MA	2.0	0.878	MA
1003.0	0.368 MV	1004.0	0.407	MV	1005.0	0.455	MV
1006.0	117.27 DB	1007.0	109.12	DB	1008.0	-29.7	NA
1009.0	-25.7 NA	1010.0	-3.9	NA	1011.0	0.00	UA
1012.0	15.95 MA	1013.0	0.18	V	1014.0	221.6	V/MV
1015.0	1.620 US	1016.0	0.540	US	1017.0	0.90	US
1018.0	0.320 US	2003.0	0.239	MV	2004.0	0.240	MV
2005.0	0.217 MV	2006.0	120.00	DB	2007.0	120.00	DB
2008.0	-30.2 NA	2009.0	-26.4	NA	2010.0	-3.8	NA
2011.0	0.01 UA	2012.0	15.95	MA	2013.0	0.18	V
2014.0	255.3 V/MV	2015.0	1.580	US	2016.0	0.530	US
2017.0	0.91 US	2018.0	0.310	US	3003.0	0.216	MV
3004.0	0.274 MV	3005.0	0.331	MV	3006.0	113.94	DB
3007.0	106.79 DB	3008.0	-28.6	NA	3009.0	-27.1	NA
3010.0	-1.5 NA	3011.0	0.00	UA	3012.0	15.78	MA
3013.0	0.18 V	3014.0	375.3	V/MV	3015.0	1.640	US
3016.0	0.540 US	3017.0	0.90	US	3018.0	0.310	US
4003.0	0.628 MV	4004.0	0.753	MV	4005.0	0.636	MV
4006.0	107.19 DB	4007.0	120.00	DB	4008.0	-27.5	NA
4009.0	-26.5 NA	4010.0	-1.0	NA	4011.0	0.01	UA
4012.0	15.82 MA	4013.0	0.18	V	4014.0	191.6	V/MV
4015.0	1.620 US	4016.0	0.540	US	4017.0	0.89	US
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	40.0	NA
2019.0	39.2 NA	3019.0	38.5	NA	4019.0	38.3	NA
1019.0	37.0 NA	2019.0	35.5	NA	3019.0	37.1	NA
4019.0	37.5 NA	1.0	0.740	MA	2.0	0.879	MA
1003.0	0.178 MV	1004.0	0.234	MV	1005.0	0.269	MV
1006.0	114.09 DB	1007.0	108.74	DB	1008.0	-31.2	NA
1009.0	-26.7 NA	1010.0	-4.6	NA	1011.0	0.00	UA
1012.0	17.04 MA	1013.0	0.17	V	1014.0	242.5	V/MV
1015.0	1.660 US	1016.0	0.550	US	1017.0	0.91	US
1018.0	0.330 US	2003.0	0.272	MV	2004.0	0.317	MV
2005.0	0.232 MV	2006.0	116.08	DB	2007.0	115.98	DB
2008.0	-31.4 NA	2009.0	-27.6	NA	2010.0	-3.8	NA
2011.0	0.01 UA	2012.0	16.99	MA	2013.0	0.17	V
2014.0	301.5 V/MV	2015.0	1.620	US	2016.0	0.540	US
2017.0	0.91 US	2018.0	0.320	US	3003.0	0.124	MV
3004.0	0.211 MV	3005.0	0.247	MV	3006.0	110.31	DB
3007.0	106.21 DB	3008.0	-30.5	NA	3009.0	-28.0	NA
3010.0	-2.4 NA	3011.0	0.01	UA	3012.0	16.85	MA
3013.0	0.17 V	3014.0	508.1	V/MV	3015.0	1.660	US
3016.0	0.550 US	3017.0	0.89	US	3018.0	0.310	US
4003.0	0.100 MV	4004.0	0.155	MV	4005.0	0.121	MV
4006.0	114.36 DB	4007.0	120.00	DB	4008.0	-29.0	NA
4009.0	-28.7 NA	4010.0	-0.4	NA	4011.0	0.01	UA
4012.0	16.87 MA	4013.0	0.17	V	4014.0	207.6	V/MV
4015.0	1.670 US	4016.0	0.560	US	4017.0	0.90	US
4018.0	0.320 US						

DEVICE	17	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	37.4	NA
2019.0	36.5 NA	3019.0	35.7	NA	4019.0	36.7	NA
1019.0	35.2 NA	2019.0	33.3	NA	3019.0	34.5	NA
4019.0	35.1 NA	1.0	0.751	MA	2.0	0.892	MA
1003.0	0.352 MV	1004.0	0.412	MV	1005.0	0.412	MV
1006.0	113.43 DB	1007.0	112.28	DB	1008.0	-29.7	NA
1009.0	-25.7 NA	1010.0	-3.9	NA	1011.0	0.00	UA
1012.0	16.18 MA	1013.0	0.18	V	1014.0	225.5	V/MV
1015.0	1.630 US	1016.0	0.540	US	1017.0	0.88	US
1018.0	0.310 US	2003.0	0.242	MV	2004.0	0.266	MV
2005.0	0.196 MV	2006.0	120.00	DB	2007.0	114.71	DB
2008.0	-29.5 NA	2009.0	-25.7	NA	2010.0	-3.8	NA
2011.0	0.01 UA	2012.0	16.17	MA	2013.0	0.18	V
2014.0	253.5 V/MV	2015.0	1.580	US	2016.0	0.540	US
2017.0	0.90 US	2018.0	0.320	US	3003.0	0.439	MV
3004.0	0.447 MV	3005.0	0.534	MV	3006.0	120.00	DB
3007.0	108.34 DB	3008.0	-28.6	NA	3009.0	-27.4	NA
3010.0	-1.2 NA	3011.0	0.00	UA	3012.0	15.98	MA
3013.0	0.18 V	3014.0	401.2	V/MV	3015.0	1.620	US
3016.0	0.540 US	3017.0	0.89	US	3018.0	0.310	US
4003.0	0.175 MV	4004.0	0.256	MV	4005.0	0.239	MV
4006.0	110.88 DB	4007.0	111.83	DB	4008.0	-28.7	NA
4009.0	-27.4 NA	4010.0	-1.3	NA	4011.0	0.01	UA
4012.0	15.90 MA	4013.0	0.18	V	4014.0	191.9	V/MV
4015.0	1.600 US	4016.0	0.550	US	4017.0	0.89	US
4018.0	0.320 US						

DEVICE	18	BIN	1	HEAD	4	05:17 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	37.8	NA
2019.0	36.7 NA	3019.0	36.0	NA	4019.0	36.5	NA
1019.0	34.9 NA	2019.0	32.7	NA	3019.0	34.6	NA
4019.0	34.9 NA	1.0	0.751	MA	2.0	0.894	MA
1003.0	0.227 MV	1004.0	0.316	MV	1005.0	0.324	MV
1006.0	110.12 DB	1007.0	108.17	DB	1008.0	-30.0	NA
1009.0	-25.4 NA	1010.0	-4.6	NA	1011.0	0.00	UA
1012.0	16.10 MA	1013.0	0.18	V	1014.0	223.6	V/MV
1015.0	1.610 US	1016.0	0.540	US	1017.0	0.89	US
1018.0	0.320 US	2003.0	0.449	MV	2004.0	0.440	MV
2005.0	0.379 MV	2006.0	120.00	DB	2007.0	111.15	DB
2008.0	-30.2 NA	2009.0	-25.7	NA	2010.0	-4.4	NA
2011.0	0.01 UA	2012.0	16.09	MA	2013.0	0.18	V
2014.0	260.6 V/MV	2015.0	1.590	US	2016.0	0.530	US
2017.0	0.89 US	2018.0	0.320	US	3003.0	0.285	MV
3004.0	0.358 MV	3005.0	0.414	MV	3006.0	111.88	DB
3007.0	105.77 DB	3008.0	-28.6	NA	3009.0	-27.1	NA
3010.0	-1.5 NA	3011.0	0.00	UA	3012.0	15.84	MA
3013.0	0.18 V	3014.0	364.0	V/MV	3015.0	1.620	US
3016.0	0.540 US	3017.0	0.88	US	3018.0	0.310	US
4003.0	0.377 MV	4004.0	0.508	MV	4005.0	0.401	MV
4006.0	106.77 DB	4007.0	120.00	DB	4008.0	-27.8	NA
4009.0	-26.8 NA	4010.0	-1.0	NA	4011.0	0.01	UA
4012.0	15.85 MA	4013.0	0.18	V	4014.0	187.3	V/MV
4015.0	1.610 US	4016.0	0.540	US	4017.0	0.88	US
4018.0	0.320 US						

DEVICE	19	BIN	1	HEAD	4	05:18 PM	11/14/2003
700.0	300	800.0	0	DGR	1019.0	36.8	NA
2019.0	36.1 NA	3019.0	35.7	NA	4019.0	36.2	NA
1019.0	34.3 NA	2019.0	32.5	NA	3019.0	34.5	NA
4019.0	35.0 NA	1.0	0.751	MA	2.0	0.888	MA
1003.0	-0.132 MV	1004.0	-0.097	MV	1005.0	-0.044	MV
1006.0	118.10 DB	1007.0	108.99	DB	1008.0	-29.4	NA
1009.0	-25.4 NA	1010.0	-3.9	NA	1011.0	0.00	UA
1012.0	16.31 MA	1013.0	0.18	V	1014.0	229.7	V/MV
1015.0	1.610 US	1016.0	0.540	US	1017.0	0.89	US
1018.0	0.310 US	2003.0	0.113	MV	2004.0	0.147	MV
2005.0	0.072 MV	2006.0	118.43	DB	2007.0	115.78	DB
2008.0	-29.5 NA	2009.0	-25.4	NA	2010.0	-4.1	NA
2011.0	0.01 UA	2012.0	16.38	MA	2013.0	0.18	V
2014.0	267.2 V/MV	2015.0	1.590	US	2016.0	0.540	US
2017.0	0.89 US	2018.0	0.310	US	3003.0	0.472	MV
3004.0	0.557 MV	3005.0	0.589	MV	3006.0	110.57	DB
3007.0	106.57 DB	3008.0	-28.9	NA	3009.0	-27.4	NA
3010.0	-1.5 NA	3011.0	0.01	UA	3012.0	16.18	MA
3013.0	0.18 V	3014.0	394.7	V/MV	3015.0	1.630	US
3016.0	0.540 US	3017.0	0.88	US	3018.0	0.310	US
4003.0	0.274 MV	4004.0	0.402	MV	4005.0	0.348	MV
4006.0	106.89 DB	4007.0	110.57	DB	4008.0	-27.8	NA
4009.0	-27.1 NA	4010.0	-0.7	NA	4011.0	0.01	UA
4012.0	16.20 MA	4013.0	0.18	V	4014.0	195.2	V/MV
4015.0	1.600 US	4016.0	0.540	US	4017.0	0.88	US
4018.0	0.320 US						

3k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	10	BIN	1	HEAD	4	02:56 PM	12/05/2003
700.0	300	800.0	0 DGR	1019.0	36.6 NA		
2019.0	35.8 NA	3019.0	35.2 NA	4019.0	35.5 NA		
1019.0	34.1 NA	2019.0	32.3 NA	3019.0	34.1 NA		
4019.0	33.9 NA	1.0	0.743 MA	2.0	0.878 MA		
1003.0	0.196 MV	1004.0	0.248 MV	1005.0	0.266 MV		
1006.0	114.84 DB	1007.0	111.01 DB	1008.0	-29.4 NA		
1009.0	-25.7 NA	1010.0	-3.7 NA	1011.0	0.01 UA		
1012.0	16.45 MA	1013.0	0.19 V	1014.0	206.2 V/MV		
1015.0	1.630 US	1016.0	0.530 US	1017.0	0.90 US		
1018.0	0.320 US	2003.0	0.118 MV	2004.0	0.094 MV		
2005.0	0.057 MV	2006.0	120.00 DB	2007.0	112.19 DB		
2008.0	-29.7 NA	2009.0	-27.9 NA	2010.0	-1.8 NA		
2011.0	0.01 UA	2012.0	16.36 MA	2013.0	0.18 V		
2014.0	311.1 V/MV	2015.0	1.590 US	2016.0	0.540 US		
2017.0	0.91 US	2018.0	0.320 US	3003.0	0.027 MV		
3004.0	0.127 MV	3005.0	0.169 MV	3006.0	109.08 DB		
3007.0	104.90 DB	3008.0	-28.1 NA	3009.0	-26.6 NA		
3010.0	-1.5 NA	3011.0	0.01 UA	3012.0	16.20 MA		
3013.0	0.18 V	3014.0	395.4 V/MV	3015.0	1.640 US		
3016.0	0.540 US	3017.0	0.89 US	3018.0	0.310 US		
4003.0	0.272 MV	4004.0	0.399 MV	4005.0	0.344 MV		
4006.0	107.05 DB	4007.0	110.83 DB	4008.0	-27.6 NA		
4009.0	-26.1 NA	4010.0	-1.5 NA	4011.0	0.01 UA		
4012.0	16.21 MA	4013.0	0.18 V	4014.0	197.0 V/MV		
4015.0	1.610 US	4016.0	0.550 US	4017.0	0.89 US		
4018.0	0.320 US						

DEVICE	11	BIN	1	HEAD	4	02:56 PM	12/05/2003
700.0	300	800.0	0 DGR	1019.0	36.9 NA		
2019.0	36.3 NA	3019.0	35.4 NA	4019.0	35.8 NA		
1019.0	34.5 NA	2019.0	33.0 NA	3019.0	34.5 NA		
4019.0	34.8 NA	1.0	0.746 MA	2.0	0.889 MA		
1003.0	0.248 MV	1004.0	0.320 MV	1005.0	0.346 MV		
1006.0	112.05 DB	1007.0	108.14 DB	1008.0	-29.1 NA		
1009.0	-25.4 NA	1010.0	-3.7 NA	1011.0	0.01 UA		
1012.0	16.38 MA	1013.0	0.19 V	1014.0	195.9 V/MV		
1015.0	1.610 US	1016.0	0.540 US	1017.0	0.90 US		
1018.0	0.320 US	2003.0	0.274 MV	2004.0	0.244 MV		
2005.0	0.192 MV	2006.0	119.41 DB	2007.0	109.61 DB		
2008.0	-29.7 NA	2009.0	-28.8 NA	2010.0	-0.9 NA		
2011.0	0.01 UA	2012.0	16.35 MA	2013.0	0.18 V		
2014.0	301.8 V/MV	2015.0	1.570 US	2016.0	0.540 US		
2017.0	0.91 US	2018.0	0.320 US	3003.0	0.282 MV		
3004.0	0.408 MV	3005.0	0.414 MV	3006.0	107.09 DB		
3007.0	105.55 DB	3008.0	-28.1 NA	3009.0	-27.2 NA		
3010.0	-0.8 NA	3011.0	0.00 UA	3012.0	16.16 MA		
3013.0	0.18 V	3014.0	377.0 V/MV	3015.0	1.620 US		
3016.0	0.540 US	3017.0	0.90 US	3018.0	0.310 US		
4003.0	0.459 MV	4004.0	0.549 MV	4005.0	0.476 MV		
4006.0	110.05 DB	4007.0	120.00 DB	4008.0	-27.3 NA		
4009.0	-26.4 NA	4010.0	-0.9 NA	4011.0	0.01 UA		
4012.0	16.21 MA	4013.0	0.18 V	4014.0	198.5 V/MV		
4015.0	1.620 US	4016.0	0.540 US	4017.0	0.89 US		
4018.0	0.320 US						

DEVICE	14	BIN	1	HEAD	4	02:56 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	40.8	NA
2019.0	40.0 NA	3019.0	39.4	NA	4019.0	39.8	NA
1019.0	38.0 NA	2019.0	36.1	NA	3019.0	38.2	NA
4019.0	38.4 NA	1.0	0.753	MA	2.0	0.891	MA
1003.0	0.221 MV	1004.0	0.193	MV	1005.0	0.319	MV
1006.0	120.00 DB	1007.0	108.13	DB	1008.0	-31.9	NA
1009.0	-28.2 NA	1010.0	-3.7	NA	1011.0	0.01	UA
1012.0	16.04 MA	1013.0	0.19	V	1014.0	193.3	V/MV
1015.0	1.690 US	1016.0	0.550	US	1017.0	0.90	US
1018.0	0.320 US	2003.0	0.234	MV	2004.0	0.214	MV
2005.0	0.201 MV	2006.0	120.00	DB	2007.0	117.74	DB
2008.0	-32.8 NA	2009.0	-31.0	NA	2010.0	-1.8	NA
2011.0	0.01 UA	2012.0	16.02	MA	2013.0	0.18	V
2014.0	272.6 V/MV	2015.0	1.680	US	2016.0	0.540	US
2017.0	0.91 US	2018.0	0.320	US	3003.0	0.300	MV
3004.0	0.332 MV	3005.0	0.418	MV	3006.0	119.01	DB
3007.0	106.55 DB	3008.0	-31.1	NA	3009.0	-29.4	NA
3010.0	-1.8 NA	3011.0	0.00	UA	3012.0	15.87	MA
3013.0	0.18 V	3014.0	332.9	V/MV	3015.0	1.700	US
3016.0	0.550 US	3017.0	0.90	US	3018.0	0.310	US
4003.0	0.328 MV	4004.0	0.459	MV	4005.0	0.387	MV
4006.0	106.72 DB	4007.0	112.42	DB	4008.0	-30.3	NA
4009.0	-28.8 NA	4010.0	-1.5	NA	4011.0	0.01	UA
4012.0	15.87 MA	4013.0	0.18	V	4014.0	187.7	V/MV
4015.0	1.700 US	4016.0	0.550	US	4017.0	0.90	US
4018.0	0.320 US						

DEVICE	15	BIN	1	HEAD	4	02:56 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	40.3	NA
2019.0	39.8 NA	3019.0	39.0	NA	4019.0	39.1	NA
1019.0	37.6 NA	2019.0	35.9	NA	3019.0	37.7	NA
4019.0	38.1 NA	1.0	0.736	MA	2.0	0.872	MA
1003.0	0.401 MV	1004.0	0.423	MV	1005.0	0.512	MV
1006.0	120.00 DB	1007.0	107.09	DB	1008.0	-31.6	NA
1009.0	-28.2 NA	1010.0	-3.4	NA	1011.0	0.01	UA
1012.0	15.84 MA	1013.0	0.19	V	1014.0	193.6	V/MV
1015.0	1.710 US	1016.0	0.550	US	1017.0	0.91	US
1018.0	0.320 US	2003.0	0.257	MV	2004.0	0.208	MV
2005.0	0.238 MV	2006.0	115.30	DB	2007.0	120.00	DB
2008.0	-32.2 NA	2009.0	-31.0	NA	2010.0	-1.2	NA
2011.0	0.01 UA	2012.0	15.85	MA	2013.0	0.18	V
2014.0	285.9 V/MV	2015.0	1.680	US	2016.0	0.550	US
2017.0	0.92 US	2018.0	0.320	US	3003.0	0.268	MV
3004.0	0.294 MV	3005.0	0.387	MV	3006.0	120.00	DB
3007.0	106.43 DB	3008.0	-30.8	NA	3009.0	-29.1	NA
3010.0	-1.8 NA	3011.0	0.00	UA	3012.0	15.67	MA
3013.0	0.19 V	3014.0	346.9	V/MV	3015.0	1.740	US
3016.0	0.560 US	3017.0	0.91	US	3018.0	0.310	US
4003.0	0.599 MV	4004.0	0.701	MV	4005.0	0.613	MV
4006.0	108.91 DB	4007.0	120.00	DB	4008.0	-30.3	NA
4009.0	-29.4 NA	4010.0	-0.9	NA	4011.0	0.01	UA
4012.0	15.70 MA	4013.0	0.19	V	4014.0	190.5	V/MV
4015.0	1.700 US	4016.0	0.560	US	4017.0	0.91	US
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	02:57 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	44.7	NA
2019.0	43.7 NA	3019.0	43.0	NA	4019.0	42.8	NA
1019.0	41.7 NA	2019.0	40.5	NA	3019.0	42.0	NA
4019.0	42.2 NA	1.0	0.737	MA	2.0	0.874	MA
1003.0	0.211 MV	1004.0	0.257	MV	1005.0	0.331	MV
1006.0	115.70 DB	1007.0	106.34	DB	1008.0	-34.6	NA
1009.0	-30.3 NA	1010.0	-4.3	NA	1011.0	0.01	UA
1012.0	16.86 MA	1013.0	0.18	V	1014.0	207.7	V/MV
1015.0	1.730 US	1016.0	0.560	US	1017.0	0.92	US
1018.0	0.320 US	2003.0	0.277	MV	2004.0	0.267	MV
2005.0	0.235 MV	2006.0	120.00	DB	2007.0	115.52	DB
2008.0	-34.6 NA	2009.0	-33.4	NA	2010.0	-1.2	NA
2011.0	0.01 UA	2012.0	16.82	MA	2013.0	0.17	V
2014.0	329.2 V/MV	2015.0	1.710	US	2016.0	0.560	US
2017.0	0.93 US	2018.0	0.320	US	3003.0	0.172	MV
3004.0	0.230 MV	3005.0	0.302	MV	3006.0	113.80	DB
3007.0	105.69 DB	3008.0	-34.2	NA	3009.0	-32.4	NA
3010.0	-1.8 NA	3011.0	0.01	UA	3012.0	16.67	MA
3013.0	0.17 V	3014.0	480.1	V/MV	3015.0	1.740	US
3016.0	0.560 US	3017.0	0.91	US	3018.0	0.320	US
4003.0	0.097 MV	4004.0	0.126	MV	4005.0	0.130	MV
4006.0	119.91 DB	4007.0	117.75	DB	4008.0	-33.1	NA
4009.0	-31.3 NA	4010.0	-1.8	NA	4011.0	0.01	UA
4012.0	16.70 MA	4013.0	0.17	V	4014.0	216.7	V/MV
4015.0	1.730 US	4016.0	0.570	US	4017.0	0.91	US
4018.0	0.320 US						

DEVICE	17	BIN	1	HEAD	4	02:57 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	42.5	NA
2019.0	41.4 NA	3019.0	40.6	NA	4019.0	41.3	NA
1019.0	40.0 NA	2019.0	38.2	NA	3019.0	39.5	NA
4019.0	40.2 NA	1.0	0.743	MA	2.0	0.880	MA
1003.0	0.399 MV	1004.0	0.436	MV	1005.0	0.481	MV
1006.0	117.72 DB	1007.0	109.67	DB	1008.0	-33.1	NA
1009.0	-29.7 NA	1010.0	-3.4	NA	1011.0	0.01	UA
1012.0	16.01 MA	1013.0	0.19	V	1014.0	202.2	V/MV
1015.0	1.720 US	1016.0	0.550	US	1017.0	0.90	US
1018.0	0.320 US	2003.0	0.289	MV	2004.0	0.261	MV
2005.0	0.243 MV	2006.0	119.96	DB	2007.0	114.54	DB
2008.0	-33.4 NA	2009.0	-33.1	NA	2010.0	-0.3	NA
2011.0	0.01 UA	2012.0	16.00	MA	2013.0	0.18	V
2014.0	282.8 V/MV	2015.0	1.720	US	2016.0	0.560	US
2017.0	0.92 US	2018.0	0.320	US	3003.0	0.515	MV
3004.0	0.490 MV	3005.0	0.615	MV	3006.0	120.00	DB
3007.0	107.92 DB	3008.0	-31.8	NA	3009.0	-30.6	NA
3010.0	-1.1 NA	3011.0	0.01	UA	3012.0	15.81	MA
3013.0	0.19 V	3014.0	343.3	V/MV	3015.0	1.740	US
3016.0	0.560 US	3017.0	0.91	US	3018.0	0.320	US
4003.0	0.187 MV	4004.0	0.244	MV	4005.0	0.260	MV
4006.0	114.03 DB	4007.0	110.74	DB	4008.0	-31.3	NA
4009.0	-30.0 NA	4010.0	-1.2	NA	4011.0	0.01	UA
4012.0	15.72 MA	4013.0	0.19	V	4014.0	185.8	V/MV
4015.0	1.740 US	4016.0	0.570	US	4017.0	0.91	US
4018.0	0.320 US						

DEVICE	18	BIN	1	HEAD	4	02:57 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	42.8	NA
2019.0	41.7 NA	3019.0	40.9	NA	4019.0	41.1	NA
1019.0	39.7 NA	2019.0	37.9	NA	3019.0	39.7	NA
4019.0	40.1 NA	1.0	0.743	MA	2.0	0.880	MA
1003.0	0.277 MV	1004.0	0.343	MV	1005.0	0.392	MV
1006.0	112.67 DB	1007.0	106.70	DB	1008.0	-33.7	NA
1009.0	-29.4 NA	1010.0	-4.3	NA	1011.0	0.01	UA
1012.0	15.91 MA	1013.0	0.19	V	1014.0	196.3	V/MV
1015.0	1.720 US	1016.0	0.560	US	1017.0	0.91	US
1018.0	0.320 US	2003.0	0.518	MV	2004.0	0.451	MV
2005.0	0.447 MV	2006.0	112.52	DB	2007.0	110.96	DB
2008.0	-33.7 NA	2009.0	-32.5	NA	2010.0	-1.2	NA
2011.0	0.01 UA	2012.0	15.91	MA	2013.0	0.18	V
2014.0	279.6 V/MV	2015.0	1.720	US	2016.0	0.560	US
2017.0	0.92 US	2018.0	0.320	US	3003.0	0.338	MV
3004.0	0.374 MV	3005.0	0.467	MV	3006.0	117.89	DB
3007.0	105.70 DB	3008.0	-32.1	NA	3009.0	-30.3	NA
3010.0	-1.8 NA	3011.0	0.01	UA	3012.0	15.66	MA
3013.0	0.18 V	3014.0	325.1	V/MV	3015.0	1.750	US
3016.0	0.560 US	3017.0	0.91	US	3018.0	0.320	US
4003.0	0.367 MV	4004.0	0.479	MV	4005.0	0.402	MV
4006.0	108.16 DB	4007.0	117.06	DB	4008.0	-31.3	NA
4009.0	-30.0 NA	4010.0	-1.2	NA	4011.0	0.01	UA
4012.0	15.67 MA	4013.0	0.18	V	4014.0	183.0	V/MV
4015.0	1.740 US	4016.0	0.560	US	4017.0	0.90	US
4018.0	0.320 US						

DEVICE	19	BIN	1	HEAD	4	02:57 PM	12/05/2003
700.0	300	800.0	0	DGR	1019.0	41.9	NA
2019.0	41.1 NA	3019.0	40.7	NA	4019.0	41.1	NA
1019.0	39.2 NA	2019.0	37.7	NA	3019.0	39.4	NA
4019.0	40.1 NA	1.0	0.742	MA	2.0	0.876	MA
1003.0	-0.097 MV	1004.0	-0.086	MV	1005.0	0.012	MV
1006.0	120.00 DB	1007.0	107.24	DB	1008.0	-32.8	NA
1009.0	-29.1 NA	1010.0	-3.7	NA	1011.0	0.01	UA
1012.0	16.11 MA	1013.0	0.19	V	1014.0	203.4	V/MV
1015.0	1.740 US	1016.0	0.560	US	1017.0	0.91	US
1018.0	0.320 US	2003.0	0.154	MV	2004.0	0.124	MV
2005.0	0.112 MV	2006.0	119.74	DB	2007.0	115.58	DB
2008.0	-33.7 NA	2009.0	-33.1	NA	2010.0	-0.6	NA
2011.0	0.01 UA	2012.0	16.16	MA	2013.0	0.18	V
2014.0	290.1 V/MV	2015.0	1.740	US	2016.0	0.560	US
2017.0	0.92 US	2018.0	0.320	US	3003.0	0.534	MV
3004.0	0.576 MV	3005.0	0.653	MV	3006.0	116.51	DB
3007.0	106.45 DB	3008.0	-32.7	NA	3009.0	-30.6	NA
3010.0	-2.1 NA	3011.0	0.00	UA	3012.0	15.97	MA
3013.0	0.18 V	3014.0	371.9	V/MV	3015.0	1.750	US
3016.0	0.560 US	3017.0	0.91	US	3018.0	0.310	US
4003.0	0.295 MV	4004.0	0.396	MV	4005.0	0.372	MV
4006.0	109.02 DB	4007.0	110.21	DB	4008.0	-31.9	NA
4009.0	-30.6 NA	4010.0	-1.2	NA	4011.0	0.01	UA
4012.0	15.99 MA	4013.0	0.18	V	4014.0	189.2	V/MV
4015.0	1.750 US	4016.0	0.560	US	4017.0	0.90	US
4018.0	0.320 US						

10k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	1	BIN	1	HEAD	4	04:31 PM	12/17/2003
700.0	300	800.0	0 DGR	1019.0	37.4 NA		
2019.0	37.2 NA	3019.0	36.7 NA	4019.0	36.7 NA		
1019.0	35.3 NA	2019.0	32.9 NA	3019.0	35.9 NA		
4019.0	36.8 NA	1.0	0.753 MA	2.0	0.910 MA		
1003.0	0.095 MV	1004.0	0.213 MV	1005.0	0.165 MV		
1006.0	107.67 DB	1007.0	111.08 DB	1008.0	-28.5 NA		
1009.0	-26.4 NA	1010.0	-2.1 NA	1011.0	0.00 UA		
1012.0	16.51 MA	1013.0	0.18 V	1014.0	382.7 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.90 US		
1018.0	0.320 US	2003.0	0.015 MV	2004.0	0.101 MV		
2005.0	-0.010 MV	2006.0	110.40 DB	2007.0	120.00 DB		
2008.0	-29.7 NA	2009.0	-25.7 NA	2010.0	-3.9 NA		
2011.0	0.01 UA	2012.0	16.53 MA	2013.0	0.18 V		
2014.0	426.1 V/MV	2015.0	1.610 US	2016.0	0.560 US		
2017.0	0.90 US	2018.0	0.320 US	3003.0	0.268 MV		
3004.0	0.319 MV	3005.0	0.382 MV	3006.0	114.81 DB		
3007.0	106.81 DB	3008.0	-28.8 NA	3009.0	-27.3 NA		
3010.0	-1.6 NA	3011.0	0.00 UA	3012.0	16.30 MA		
3013.0	0.18 V	3014.0	618.6 V/MV	3015.0	1.640 US		
3016.0	0.540 US	3017.0	0.88 US	3018.0	0.310 US		
4003.0	0.117 MV	4004.0	0.208 MV	4005.0	0.160 MV		
4006.0	109.92 DB	4007.0	115.30 DB	4008.0	-27.6 NA		
4009.0	-27.6 NA	4010.0	0.0 NA	4011.0	0.01 UA		
4012.0	16.34 MA	4013.0	0.18 V	4014.0	198.8 V/MV		
4015.0	1.610 US	4016.0	0.540 US	4017.0	0.89 US		
4018.0	0.310 US						

DEVICE	2	BIN	1	HEAD	4	04:31 PM	12/17/2003
700.0	300	800.0	0 DGR	1019.0	37.3 NA		
2019.0	36.7 NA	3019.0	36.2 NA	4019.0	36.3 NA		
1019.0	35.4 NA	2019.0	33.1 NA	3019.0	35.9 NA		
4019.0	36.8 NA	1.0	0.753 MA	2.0	0.906 MA		
1003.0	0.088 MV	1004.0	0.158 MV	1005.0	0.172 MV		
1006.0	112.17 DB	1007.0	109.42 DB	1008.0	-28.2 NA		
1009.0	-26.1 NA	1010.0	-2.1 NA	1011.0	0.00 UA		
1012.0	16.52 MA	1013.0	0.18 V	1014.0	361.2 V/MV		
1015.0	1.620 US	1016.0	0.550 US	1017.0	0.90 US		
1018.0	0.330 US	2003.0	0.335 MV	2004.0	0.413 MV		
2005.0	0.283 MV	2006.0	111.25 DB	2007.0	113.78 DB		
2008.0	-29.4 NA	2009.0	-26.1 NA	2010.0	-3.3 NA		
2011.0	0.01 UA	2012.0	16.46 MA	2013.0	0.18 V		
2014.0	413.1 V/MV	2015.0	1.600 US	2016.0	0.550 US		
2017.0	0.91 US	2018.0	0.320 US	3003.0	0.329 MV		
3004.0	0.414 MV	3005.0	0.452 MV	3006.0	110.57 DB		
3007.0	106.21 DB	3008.0	-28.2 NA	3009.0	-27.0 NA		
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	16.31 MA		
3013.0	0.18 V	3014.0	613.1 V/MV	3015.0	1.640 US		
3016.0	0.550 US	3017.0	0.88 US	3018.0	0.320 US		
4003.0	0.350 MV	4004.0	0.458 MV	4005.0	0.385 MV		
4006.0	108.42 DB	4007.0	117.11 DB	4008.0	-27.6 NA		
4009.0	-27.6 NA	4010.0	0.0 NA	4011.0	0.01 UA		
4012.0	16.32 MA	4013.0	0.18 V	4014.0	207.2 V/MV		
4015.0	1.610 US	4016.0	0.550 US	4017.0	0.88 US		
4018.0	0.310 US						

DEVICE	14	BIN	1	HEAD 4	04:33 PM	12/17/2003
700.0	300	800.0	0 DGR	1019.0	47.0 NA	
2019.0	46.7 NA	3019.0	45.7 NA	4019.0	45.8 NA	
1019.0	44.8 NA	2019.0	42.5 NA	3019.0	45.1 NA	
4019.0	45.7 NA	1.0	0.751 MA	2.0	0.902 MA	
1003.0	0.267 MV	1004.0	0.268 MV	1005.0	0.343 MV	
1006.0	120.00 DB	1007.0	110.24 DB	1008.0	-35.8 NA	
1009.0	-33.4 NA	1010.0	-2.4 NA	1011.0	0.00 UA	
1012.0	15.82 MA	1013.0	0.18 V	1014.0	312.2 V/MV	
1015.0	1.800 US	1016.0	0.570 US	1017.0	0.93 US	
1018.0	0.310 US	2003.0	0.267 MV	2004.0	0.303 MV	
2005.0	0.247 MV	2006.0	118.02 DB	2007.0	120.00 DB	
2008.0	-37.0 NA	2009.0	-33.1 NA	2010.0	-3.9 NA	
2011.0	0.01 UA	2012.0	15.81 MA	2013.0	0.18 V	
2014.0	337.7 V/MV	2015.0	1.870 US	2016.0	0.590 US	
2017.0	0.93 US	2018.0	0.320 US	3003.0	0.303 MV	
3004.0	0.360 MV	3005.0	0.422 MV	3006.0	113.89 DB	
3007.0	106.41 DB	3008.0	-35.6 NA	3009.0	-34.3 NA	
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	15.67 MA	
3013.0	0.18 V	3014.0	392.0 V/MV	3015.0	1.860 US	
3016.0	0.580 US	3017.0	0.91 US	3018.0	0.320 US	
4003.0	0.358 MV	4004.0	0.485 MV	4005.0	0.416 MV	
4006.0	107.00 DB	4007.0	112.62 DB	4008.0	-34.6 NA	
4009.0	-34.6 NA	4010.0	0.0 NA	4011.0	0.01 UA	
4012.0	15.66 MA	4013.0	0.18 V	4014.0	181.3 V/MV	
4015.0	1.850 US	4016.0	0.580 US	4017.0	0.90 US	
4018.0	0.310 US					

DEVICE	15	BIN	1	HEAD 4	04:33 PM	12/17/2003
700.0	300	800.0	0 DGR	1019.0	46.4 NA	
2019.0	46.1 NA	3019.0	45.4 NA	4019.0	45.1 NA	
1019.0	44.6 NA	2019.0	42.0 NA	3019.0	44.2 NA	
4019.0	45.3 NA	1.0	0.737 MA	2.0	0.890 MA	
1003.0	0.444 MV	1004.0	0.490 MV	1005.0	0.532 MV	
1006.0	115.82 DB	1007.0	109.12 DB	1008.0	-35.2 NA	
1009.0	-33.1 NA	1010.0	-2.1 NA	1011.0	0.00 UA	
1012.0	15.62 MA	1013.0	0.19 V	1014.0	328.3 V/MV	
1015.0	1.820 US	1016.0	0.580 US	1017.0	0.93 US	
1018.0	0.320 US	2003.0	0.285 MV	2004.0	0.285 MV	
2005.0	0.275 MV	2006.0	120.00 DB	2007.0	120.00 DB	
2008.0	-36.7 NA	2009.0	-32.8 NA	2010.0	-3.9 NA	
2011.0	0.01 UA	2012.0	15.63 MA	2013.0	0.18 V	
2014.0	375.7 V/MV	2015.0	1.890 US	2016.0	0.590 US	
2017.0	0.93 US	2018.0	0.330 US	3003.0	0.276 MV	
3004.0	0.328 MV	3005.0	0.401 MV	3006.0	114.88 DB	
3007.0	106.02 DB	3008.0	-35.0 NA	3009.0	-33.7 NA	
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	15.45 MA	
3013.0	0.18 V	3014.0	463.3 V/MV	3015.0	1.900 US	
3016.0	0.590 US	3017.0	0.93 US	3018.0	0.320 US	
4003.0	0.621 MV	4004.0	0.720 MV	4005.0	0.634 MV	
4006.0	109.19 DB	4007.0	120.00 DB	4008.0	-34.0 NA	
4009.0	-34.3 NA	4010.0	0.3 NA	4011.0	0.01 UA	
4012.0	15.50 MA	4013.0	0.18 V	4014.0	180.8 V/MV	
4015.0	1.870 US	4016.0	0.580 US	4017.0	0.92 US	
4018.0	0.320 US					

DEVICE	16	BIN	1	HEAD	4	04:33 PM	12/17/2003
700.0	300	800.0	0	DGR	1019.0	53.1	NA
2019.0	52.3 NA	3019.0	51.6	NA	4019.0	50.6	NA
1019.0	50.3 NA	2019.0	48.7	NA	3019.0	50.5	NA
4019.0	51.6 NA	1.0	0.736	MA	2.0	0.886	MA
1003.0	0.245 MV	1004.0	0.325	MV	1005.0	0.339	MV
1006.0	110.97 DB	1007.0	108.47	DB	1008.0	-39.5	NA
1009.0	-36.5 NA	1010.0	-3.0	NA	1011.0	0.00	UA
1012.0	16.60 MA	1013.0	0.17	V	1014.0	399.4	V/MV
1015.0	1.850 US	1016.0	0.580	US	1017.0	0.94	US
1018.0	0.330 US	2003.0	0.295	MV	2004.0	0.347	MV
2005.0	0.267 MV	2006.0	114.74	DB	2007.0	119.15	DB
2008.0	-40.4 NA	2009.0	-37.1	NA	2010.0	-3.3	NA
2011.0	0.01 UA	2012.0	16.55	MA	2013.0	0.17	V
2014.0	409.7 V/MV	2015.0	1.920	US	2016.0	0.600	US
2017.0	0.96 US	2018.0	0.330	US	3003.0	0.164	MV
3004.0	0.258 MV	3005.0	0.303	MV	3006.0	109.63	DB
3007.0	105.05 DB	3008.0	-39.6	NA	3009.0	-37.7	NA
3010.0	-1.9 NA	3011.0	0.00	UA	3012.0	16.42	MA
3013.0	0.17 V	3014.0	735.1	V/MV	3015.0	1.920	US
3016.0	0.590 US	3017.0	0.93	US	3018.0	0.320	US
4003.0	0.104 MV	4004.0	0.134	MV	4005.0	0.137	MV
4006.0	119.55 DB	4007.0	117.62	DB	4008.0	-38.0	NA
4009.0	-38.3 NA	4010.0	0.3	NA	4011.0	0.01	UA
4012.0	16.43 MA	4013.0	0.17	V	4014.0	201.6	V/MV
4015.0	1.910 US	4016.0	0.590	US	4017.0	0.93	US
4018.0	0.320 US						

DEVICE	17	BIN	1	HEAD	4	04:33 PM	12/17/2003
700.0	300	800.0	0	DGR	1019.0	50.2	NA
2019.0	49.7 NA	3019.0	48.8	NA	4019.0	48.6	NA
1019.0	48.0 NA	2019.0	45.8	NA	3019.0	47.8	NA
4019.0	48.9 NA	1.0	0.736	MA	2.0	0.901	MA
1003.0	0.446 MV	1004.0	0.513	MV	1005.0	0.503	MV
1006.0	112.54 DB	1007.0	112.76	DB	1008.0	-37.7	NA
1009.0	-35.9 NA	1010.0	-1.8	NA	1011.0	0.00	UA
1012.0	15.72 MA	1013.0	0.19	V	1014.0	327.4	V/MV
1015.0	1.920 US	1016.0	0.590	US	1017.0	0.94	US
1018.0	0.320 US	2003.0	0.304	MV	2004.0	0.332	MV
2005.0	0.262 MV	2006.0	120.00	DB	2007.0	115.63	DB
2008.0	-38.9 NA	2009.0	-35.9	NA	2010.0	-3.0	NA
2011.0	0.01 UA	2012.0	15.71	MA	2013.0	0.18	V
2014.0	343.8 V/MV	2015.0	2.000	US	2016.0	0.610	US
2017.0	0.95 US	2018.0	0.320	US	3003.0	0.506	MV
3004.0	0.517 MV	3005.0	0.609	MV	3006.0	120.00	DB
3007.0	107.71 DB	3008.0	-38.0	NA	3009.0	-35.9	NA
3010.0	-2.2 NA	3011.0	0.00	UA	3012.0	15.52	MA
3013.0	0.18 V	3014.0	464.1	V/MV	3015.0	2.010	US
3016.0	0.600 US	3017.0	0.93	US	3018.0	0.320	US
4003.0	0.187 MV	4004.0	0.259	MV	4005.0	0.262	MV
4006.0	111.96 DB	4007.0	110.45	DB	4008.0	-36.8	NA
4009.0	-36.8 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	15.45 MA	4013.0	0.18	V	4014.0	179.2	V/MV
4015.0	1.990 US	4016.0	0.600	US	4017.0	0.92	US
4018.0	0.320 US						

DEVICE	18	BIN	1	HEAD	4	04:33 PM	12/17/2003
700.0	300	800.0	0	DGR	1019.0	50.3	NA
2019.0	49.6 NA	3019.0	48.7	NA	4019.0	48.5	NA
1019.0	47.7 NA	2019.0	45.6	NA	3019.0	47.5	NA
4019.0	48.6 NA	1.0	0.744	MA	2.0	0.898	MA
1003.0	0.319 MV	1004.0	0.415	MV	1005.0	0.416	MV
1006.0	109.48 DB	1007.0	108.21	DB	1008.0	-38.0	NA
1009.0	-35.6 NA	1010.0	-2.4	NA	1011.0	0.00	UA
1012.0	15.62 MA	1013.0	0.18	V	1014.0	327.0	V/MV
1015.0	1.890 US	1016.0	0.590	US	1017.0	0.94	US
1018.0	0.320 US	2003.0	0.540	MV	2004.0	0.527	MV
2005.0	0.471 MV	2006.0	120.00	DB	2007.0	111.17	DB
2008.0	-39.2 NA	2009.0	-35.2	NA	2010.0	-3.9	NA
2011.0	0.01 UA	2012.0	15.61	MA	2013.0	0.18	V
2014.0	333.2 V/MV	2015.0	2.020	US	2016.0	0.610	US
2017.0	0.95 US	2018.0	0.330	US	3003.0	0.352	MV
3004.0	0.416 MV	3005.0	0.479	MV	3006.0	112.94	DB
3007.0	105.84 DB	3008.0	-38.0	NA	3009.0	-35.9	NA
3010.0	-2.2 NA	3011.0	0.00	UA	3012.0	15.37	MA
3013.0	0.18 V	3014.0	469.8	V/MV	3015.0	1.990	US
3016.0	0.600 US	3017.0	0.93	US	3018.0	0.320	US
4003.0	0.408 MV	4004.0	0.512	MV	4005.0	0.435	MV
4006.0	108.78 DB	4007.0	119.40	DB	4008.0	-36.8	NA
4009.0	-36.8 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	15.40 MA	4013.0	0.18	V	4014.0	180.8	V/MV
4015.0	1.970 US	4016.0	0.590	US	4017.0	0.93	US
4018.0	0.310 US						

DEVICE	19	BIN	1	HEAD	4	04:33 PM	12/17/2003
700.0	300	800.0	0	DGR	1019.0	49.8	NA
2019.0	49.7 NA	3019.0	48.8	NA	4019.0	48.4	NA
1019.0	47.6 NA	2019.0	45.5	NA	3019.0	47.9	NA
4019.0	49.1 NA	1.0	0.743	MA	2.0	0.890	MA
1003.0	-0.046 MV	1004.0	-0.000	MV	1005.0	0.040	MV
1006.0	115.90 DB	1007.0	109.25	DB	1008.0	-37.7	NA
1009.0	-35.2 NA	1010.0	-2.4	NA	1011.0	0.00	UA
1012.0	15.83 MA	1013.0	0.18	V	1014.0	334.0	V/MV
1015.0	1.920 US	1016.0	0.590	US	1017.0	0.95	US
1018.0	0.320 US	2003.0	0.191	MV	2004.0	0.221	MV
2005.0	0.158 MV	2006.0	119.60	DB	2007.0	117.49	DB
2008.0	-38.9 NA	2009.0	-35.2	NA	2010.0	-3.6	NA
2011.0	0.00 UA	2012.0	15.86	MA	2013.0	0.18	V
2014.0	336.1 V/MV	2015.0	2.010	US	2016.0	0.610	US
2017.0	0.96 US	2018.0	0.330	US	3003.0	0.524	MV
3004.0	0.608 MV	3005.0	0.649	MV	3006.0	110.56	DB
3007.0	105.97 DB	3008.0	-38.0	NA	3009.0	-35.9	NA
3010.0	-2.2 NA	3011.0	0.00	UA	3012.0	15.67	MA
3013.0	0.18 V	3014.0	515.7	V/MV	3015.0	1.980	US
3016.0	0.600 US	3017.0	0.94	US	3018.0	0.320	US
4003.0	0.306 MV	4004.0	0.411	MV	4005.0	0.378	MV
4006.0	108.66 DB	4007.0	110.74	DB	4008.0	-36.8	NA
4009.0	-36.8 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	15.69 MA	4013.0	0.18	V	4014.0	186.7	V/MV
4015.0	1.970 US	4016.0	0.600	US	4017.0	0.93	US
4018.0	0.310 US						

30k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	1	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0 DGR	1019.0	37.3 NA		
2019.0	37.2 NA	3019.0	36.5 NA	4019.0	36.5 NA		
1019.0	36.4 NA	2019.0	35.1 NA	3019.0	36.3 NA		
4019.0	36.3 NA	1.0	0.756 MA	2.0	0.915 MA		
1003.0	0.251 MV	1004.0	0.350 MV	1005.0	0.319 MV		
1006.0	109.17 DB	1007.0	111.21 DB	1008.0	-27.5 NA		
1009.0	-27.9 NA	1010.0	0.4 NA	1011.0	0.00 UA		
1012.0	16.45 MA	1013.0	0.18 V	1014.0	287.8 V/MV		
1015.0	1.610 US	1016.0	0.540 US	1017.0	0.88 US		
1018.0	0.320 US	2003.0	0.138 MV	2004.0	0.188 MV		
2005.0	0.104 MV	2006.0	115.11 DB	2007.0	117.43 DB		
2008.0	-28.4 NA	2009.0	-28.0 NA	2010.0	-0.4 NA		
2011.0	0.01 UA	2012.0	16.35 MA	2013.0	0.18 V		
2014.0	317.9 V/MV	2015.0	1.580 US	2016.0	0.540 US		
2017.0	0.90 US	2018.0	0.310 US	3003.0	0.020 MV		
3004.0	0.159 MV	3005.0	0.174 MV	3006.0	106.24 DB		
3007.0	104.19 DB	3008.0	-28.2 NA	3009.0	-28.1 NA		
3010.0	-0.0 NA	3011.0	0.00 UA	3012.0	16.18 MA		
3013.0	0.18 V	3014.0	482.1 V/MV	3015.0	1.620 US		
3016.0	0.540 US	3017.0	0.88 US	3018.0	0.310 US		
4003.0	0.252 MV	4004.0	0.384 MV	4005.0	0.320 MV		
4006.0	106.68 DB	4007.0	111.36 DB	4008.0	-29.4 NA		
4009.0	-29.1 NA	4010.0	-0.3 NA	4011.0	0.01 UA		
4012.0	16.19 MA	4013.0	0.18 V	4014.0	201.5 V/MV		
4015.0	1.600 US	4016.0	0.550 US	4017.0	0.87 US		
4018.0	0.310 US						

DEVICE	2	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0 DGR	1019.0	37.5 NA		
2019.0	37.6 NA	3019.0	36.6 NA	4019.0	36.6 NA		
1019.0	36.5 NA	2019.0	35.3 NA	3019.0	36.3 NA		
4019.0	37.0 NA	1.0	0.753 MA	2.0	0.911 MA		
1003.0	0.302 MV	1004.0	0.423 MV	1005.0	0.401 MV		
1006.0	107.41 DB	1007.0	108.02 DB	1008.0	-27.2 NA		
1009.0	-27.9 NA	1010.0	0.7 NA	1011.0	0.00 UA		
1012.0	16.37 MA	1013.0	0.18 V	1014.0	287.1 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.89 US		
1018.0	0.320 US	2003.0	0.296 MV	2004.0	0.335 MV		
2005.0	0.233 MV	2006.0	117.18 DB	2007.0	112.05 DB		
2008.0	-28.7 NA	2009.0	-28.0 NA	2010.0	-0.7 NA		
2011.0	0.01 UA	2012.0	16.33 MA	2013.0	0.18 V		
2014.0	316.0 V/MV	2015.0	1.590 US	2016.0	0.550 US		
2017.0	0.89 US	2018.0	0.320 US	3003.0	0.280 MV		
3004.0	0.439 MV	3005.0	0.423 MV	3006.0	105.07 DB		
3007.0	104.85 DB	3008.0	-28.2 NA	3009.0	-28.1 NA		
3010.0	-0.0 NA	3011.0	0.00 UA	3012.0	16.14 MA		
3013.0	0.18 V	3014.0	484.6 V/MV	3015.0	1.630 US		
3016.0	0.540 US	3017.0	0.88 US	3018.0	0.310 US		
4003.0	0.433 MV	4004.0	0.532 MV	4005.0	0.451 MV		
4006.0	109.18 DB	4007.0	120.00 DB	4008.0	-29.4 NA		
4009.0	-29.7 NA	4010.0	0.3 NA	4011.0	0.01 UA		
4012.0	16.18 MA	4013.0	0.18 V	4014.0	192.7 V/MV		
4015.0	1.610 US	4016.0	0.540 US	4017.0	0.88 US		
4018.0	0.310 US						

DEVICE	14	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	55.5	NA
2019.0	55.3 NA	3019.0	54.4	NA	4019.0	54.3	NA
1019.0	54.3 NA	2019.0	53.0	NA	3019.0	54.1	NA
4019.0	54.2 NA	1.0	0.741	MA	2.0	0.894	MA
1003.0	0.325 MV	1004.0	0.379	MV	1005.0	0.414	MV
1006.0	114.45 DB	1007.0	108.98	DB	1008.0	-41.0	NA
1009.0	-41.1 NA	1010.0	0.1	NA	1011.0	0.00	UA
1012.0	15.44 MA	1013.0	0.19	V	1014.0	245.8	V/MV
1015.0	2.100 US	1016.0	0.620	US	1017.0	0.96	US
1018.0	0.320 US	2003.0	0.341	MV	2004.0	0.416	MV
2005.0	0.326 MV	2006.0	111.62	DB	2007.0	120.00	DB
2008.0	-42.2 NA	2009.0	-40.5	NA	2010.0	-1.6	NA
2011.0	0.01 UA	2012.0	15.44	MA	2013.0	0.18	V
2014.0	260.6 V/MV	2015.0	2.250	US	2016.0	0.640	US
2017.0	0.97 US	2018.0	0.320	US	3003.0	0.372	MV
3004.0	0.457 MV	3005.0	0.488	MV	3006.0	110.52	DB
3007.0	106.69 DB	3008.0	-41.3	NA	3009.0	-41.3	NA
3010.0	-0.0 NA	3011.0	0.00	UA	3012.0	15.28	MA
3013.0	0.18 V	3014.0	319.2	V/MV	3015.0	2.180	US
3016.0	0.630 US	3017.0	0.96	US	3018.0	0.320	US
4003.0	0.379 MV	4004.0	0.536	MV	4005.0	0.434	MV
4006.0	105.20 DB	4007.0	113.15	DB	4008.0	-42.6	NA
4009.0	-42.6 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	15.28 MA	4013.0	0.18	V	4014.0	170.7	V/MV
4015.0	2.190 US	4016.0	0.620	US	4017.0	0.94	US
4018.0	0.320 US						

DEVICE	15	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	55.1	NA
2019.0	54.9 NA	3019.0	53.6	NA	4019.0	53.5	NA
1019.0	53.9 NA	2019.0	52.9	NA	3019.0	53.6	NA
4019.0	54.2 NA	1.0	0.727	MA	2.0	0.872	MA
1003.0	0.527 MV	1004.0	0.638	MV	1005.0	0.630	MV
1006.0	108.12 DB	1007.0	107.68	DB	1008.0	-41.0	NA
1009.0	-41.4 NA	1010.0	0.4	NA	1011.0	0.00	UA
1012.0	15.23 MA	1013.0	0.19	V	1014.0	245.4	V/MV
1015.0	2.120 US	1016.0	0.620	US	1017.0	0.97	US
1018.0	0.320 US	2003.0	0.311	MV	2004.0	0.357	MV
2005.0	0.310 MV	2006.0	115.90	DB	2007.0	120.00	DB
2008.0	-41.6 NA	2009.0	-40.5	NA	2010.0	-1.0	NA
2011.0	0.01 UA	2012.0	15.23	MA	2013.0	0.18	V
2014.0	264.6 V/MV	2015.0	2.270	US	2016.0	0.640	US
2017.0	0.98 US	2018.0	0.320	US	3003.0	0.352	MV
3004.0	0.439 MV	3005.0	0.475	MV	3006.0	110.27	DB
3007.0	106.18 DB	3008.0	-41.0	NA	3009.0	-41.0	NA
3010.0	-0.0 NA	3011.0	0.00	UA	3012.0	15.06	MA
3013.0	0.19 V	3014.0	331.7	V/MV	3015.0	2.210	US
3016.0	0.630 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.653 MV	4004.0	0.784	MV	4005.0	0.669	MV
4006.0	106.79 DB	4007.0	120.00	DB	4008.0	-42.0	NA
4009.0	-42.6 NA	4010.0	0.6	NA	4011.0	0.01	UA
4012.0	15.10 MA	4013.0	0.19	V	4014.0	168.2	V/MV
4015.0	2.220 US	4016.0	0.630	US	4017.0	0.95	US
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	64.7	NA
2019.0	64.0 NA	3019.0	63.1	NA	4019.0	62.5	NA
1019.0	62.6 NA	2019.0	62.0	NA	3019.0	62.2	NA
4019.0	62.7 NA	1.0	0.722	MA	2.0	0.875	MA
1003.0	0.258 MV	1004.0	0.428	MV	1005.0	0.372	MV
1006.0	104.49 DB	1007.0	106.80	DB	1008.0	-46.8	NA
1009.0	-46.6 NA	1010.0	-0.2	NA	1011.0	0.00	UA
1012.0	16.13 MA	1013.0	0.18	V	1014.0	292.4	V/MV
1015.0	2.140 US	1016.0	0.620	US	1017.0	0.97	US
1018.0	0.330 US	2003.0	0.314	MV	2004.0	0.437	MV
2005.0	0.303 MV	2006.0	107.26	DB	2007.0	120.00	DB
2008.0	-47.4 NA	2009.0	-47.0	NA	2010.0	-0.4	NA
2011.0	0.01 UA	2012.0	16.09	MA	2013.0	0.17	V
2014.0	308.2 V/MV	2015.0	2.290	US	2016.0	0.650	US
2017.0	0.99 US	2018.0	0.340	US	3003.0	0.167	MV
3004.0	0.323 MV	3005.0	0.310	MV	3006.0	105.19	DB
3007.0	104.84 DB	3008.0	-47.8	NA	3009.0	-47.1	NA
3010.0	-0.7 NA	3011.0	0.00	UA	3012.0	15.96	MA
3013.0	0.17 V	3014.0	440.5	V/MV	3015.0	2.240	US
3016.0	0.630 US	3017.0	0.96	US	3018.0	0.320	US
4003.0	0.048 MV	4004.0	0.140	MV	4005.0	0.086	MV
4006.0	109.82 DB	4007.0	116.34	DB	4008.0	-49.0	NA
4009.0	-49.0 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	15.98 MA	4013.0	0.17	V	4014.0	191.9	V/MV
4015.0	2.260 US	4016.0	0.640	US	4017.0	0.95	US
4018.0	0.320 US						

DEVICE	17	BIN	1	HEAD	4	04:01 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	61.0	NA
2019.0	60.8 NA	3019.0	59.3	NA	4019.0	59.6	NA
1019.0	59.9 NA	2019.0	58.2	NA	3019.0	59.3	NA
4019.0	59.5 NA	1.0	0.731	MA	2.0	0.879	MA
1003.0	0.407 MV	1004.0	0.611	MV	1005.0	0.496	MV
1006.0	102.90 DB	1007.0	108.96	DB	1008.0	-45.0	NA
1009.0	-45.4 NA	1010.0	0.4	NA	1011.0	0.00	UA
1012.0	15.27 MA	1013.0	0.19	V	1014.0	250.2	V/MV
1015.0	2.360 US	1016.0	0.660	US	1017.0	1.02	US
1018.0	0.330 US	2003.0	0.296	MV	2004.0	0.435	MV
2005.0	0.283 MV	2006.0	106.18	DB	2007.0	120.00	DB
2008.0	-45.9 NA	2009.0	-44.2	NA	2010.0	-1.6	NA
2011.0	0.01 UA	2012.0	15.25	MA	2013.0	0.18	V
2014.0	245.8 V/MV	2015.0	2.590	US	2016.0	0.690	US
2017.0	1.03 US	2018.0	0.330	US	3003.0	0.502	MV
3004.0	0.603 MV	3005.0	0.611	MV	3006.0	109.03	DB
3007.0	107.25 DB	3008.0	-45.0	NA	3009.0	-45.3	NA
3010.0	0.3 NA	3011.0	0.00	UA	3012.0	15.06	MA
3013.0	0.19 V	3014.0	325.2	V/MV	3015.0	2.480	US
3016.0	0.680 US	3017.0	1.02	US	3018.0	0.330	US
4003.0	0.128 MV	4004.0	0.294	MV	4005.0	0.216	MV
4006.0	104.71 DB	4007.0	109.03	DB	4008.0	-46.6	NA
4009.0	-46.6 NA	4010.0	0.0	NA	4011.0	0.01	UA
4012.0	14.99 MA	4013.0	0.19	V	4014.0	162.3	V/MV
4015.0	2.600 US	4016.0	0.670	US	4017.0	1.01	US
4018.0	0.320 US						

DEVICE	18	BIN	1	HEAD	4	04:02 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	61.2	NA
2019.0	60.9 NA	3019.0	59.4	NA	4019.0	59.5	NA
1019.0	59.4 NA	2019.0	58.0	NA	3019.0	58.8	NA
4019.0	59.5 NA	1.0	0.727	MA	2.0	0.876	MA
1003.0	0.295 MV	1004.0	0.530	MV	1005.0	0.425	MV
1006.0	101.67 DB	1007.0	105.73	DB	1008.0	-45.0	NA
1009.0	-45.1 NA	1010.0	0.1	NA	1011.0	0.00	UA
1012.0	15.14 MA	1013.0	0.19	V	1014.0	232.8	V/MV
1015.0	2.350 US	1016.0	0.660	US	1017.0	1.03	US
1018.0	0.330 US	2003.0	0.533	MV	2004.0	0.628	MV
2005.0	0.493 MV	2006.0	109.54	DB	2007.0	115.87	DB
2008.0	-46.5 NA	2009.0	-45.1	NA	2010.0	-1.3	NA
2011.0	0.01 UA	2012.0	15.11	MA	2013.0	0.18	V
2014.0	248.3 V/MV	2015.0	2.610	US	2016.0	0.690	US
2017.0	1.04 US	2018.0	0.340	US	3003.0	0.379	MV
3004.0	0.544 MV	3005.0	0.519	MV	3006.0	104.74	DB
3007.0	105.02 DB	3008.0	-45.9	NA	3009.0	-45.3	NA
3010.0	-0.7 NA	3011.0	0.00	UA	3012.0	14.88	MA
3013.0	0.19 V	3014.0	322.5	V/MV	3015.0	2.480	US
3016.0	0.680 US	3017.0	1.01	US	3018.0	0.330	US
4003.0	0.366 MV	4004.0	0.563	MV	4005.0	0.406	MV
4006.0	103.25 DB	4007.0	116.02	DB	4008.0	-46.6	NA
4009.0	-46.3 NA	4010.0	-0.3	NA	4011.0	0.01	UA
4012.0	14.92 MA	4013.0	0.19	V	4014.0	164.7	V/MV
4015.0	2.600 US	4016.0	0.670	US	4017.0	1.01	US
4018.0	0.320 US						

DEVICE	19	BIN	1	HEAD	4	04:02 PM	01/08/2004
700.0	300	800.0	0	DGR	1019.0	60.7	NA
2019.0	60.7 NA	3019.0	59.9	NA	4019.0	59.5	NA
1019.0	59.4 NA	2019.0	58.3	NA	3019.0	59.2	NA
4019.0	59.8 NA	1.0	0.728	MA	2.0	0.879	MA
1003.0	-0.089 MV	1004.0	0.099	MV	1005.0	0.028	MV
1006.0	103.61 DB	1007.0	106.59	DB	1008.0	-44.7	NA
1009.0	-44.7 NA	1010.0	0.1	NA	1011.0	0.00	UA
1012.0	15.34 MA	1013.0	0.19	V	1014.0	267.8	V/MV
1015.0	2.360 US	1016.0	0.660	US	1017.0	1.01	US
1018.0	0.330 US	2003.0	0.151	MV	2004.0	0.297	MV
2005.0	0.145 MV	2006.0	105.78	DB	2007.0	120.00	DB
2008.0	-45.5 NA	2009.0	-44.8	NA	2010.0	-0.7	NA
2011.0	0.01 UA	2012.0	15.37	MA	2013.0	0.18	V
2014.0	253.3 V/MV	2015.0	2.610	US	2016.0	0.690	US
2017.0	1.03 US	2018.0	0.330	US	3003.0	0.532	MV
3004.0	0.713 MV	3005.0	0.667	MV	3006.0	103.94	DB
3007.0	105.32 DB	3008.0	-45.6	NA	3009.0	-45.0	NA
3010.0	-0.7 NA	3011.0	0.00	UA	3012.0	15.17	MA
3013.0	0.18 V	3014.0	351.8	V/MV	3015.0	2.460	US
3016.0	0.670 US	3017.0	1.01	US	3018.0	0.330	US
4003.0	0.245 MV	4004.0	0.447	MV	4005.0	0.331	MV
4006.0	102.97 DB	4007.0	109.25	DB	4008.0	-46.3	NA
4009.0	-46.9 NA	4010.0	0.6	NA	4011.0	0.01	UA
4012.0	15.19 MA	4013.0	0.18	V	4014.0	164.9	V/MV
4015.0	2.600 US	4016.0	0.670	US	4017.0	1.01	US
4018.0	0.320 US						

52k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	10	BIN	1	HEAD	4	08:13 AM	02/04/2004
700.0	300	800.0	0 DGR	1019.0	37.2 NA		
2019.0	37.1 NA	3019.0	36.3 NA	4019.0	36.2 NA		
1019.0	36.2 NA	2019.0	34.6 NA	3019.0	36.2 NA		
4019.0	36.1 NA	1.0	0.752 MA	2.0	0.906 MA		
1003.0	0.251 MV	1004.0	0.363 MV	1005.0	0.330 MV		
1006.0	108.15 DB	1007.0	110.08 DB	1008.0	-27.9 NA		
1009.0	-26.7 NA	1010.0	-1.2 NA	1011.0	0.00 UA		
1012.0	16.45 MA	1013.0	0.18 V	1014.0	261.1 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.89 US		
1018.0	0.320 US	2003.0	0.150 MV	2004.0	0.205 MV		
2005.0	0.120 MV	2006.0	114.23 DB	2007.0	118.62 DB		
2008.0	-30.3 NA	2009.0	-27.5 NA	2010.0	-2.8 NA		
2011.0	0.01 UA	2012.0	16.35 MA	2013.0	0.18 V		
2014.0	320.7 V/MV	2015.0	1.600 US	2016.0	0.550 US		
2017.0	0.89 US	2018.0	0.310 US	3003.0	-0.008 MV		
3004.0	0.132 MV	3005.0	0.152 MV	3006.0	106.17 DB		
3007.0	103.85 DB	3008.0	-28.8 NA	3009.0	-27.5 NA		
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	16.19 MA		
3013.0	0.18 V	3014.0	485.2 V/MV	3015.0	1.630 US		
3016.0	0.540 US	3017.0	0.89 US	3018.0	0.310 US		
4003.0	0.228 MV	4004.0	0.370 MV	4005.0	0.299 MV		
4006.0	106.09 DB	4007.0	110.95 DB	4008.0	-28.5 NA		
4009.0	-28.6 NA	4010.0	0.1 NA	4011.0	0.01 UA		
4012.0	16.20 MA	4013.0	0.18 V	4014.0	204.5 V/MV		
4015.0	1.590 US	4016.0	0.540 US	4017.0	0.88 US		
4018.0	0.320 US						

DEVICE	11	BIN	1	HEAD	4	08:13 AM	02/04/2004
700.0	300	800.0	0 DGR	1019.0	37.6 NA		
2019.0	37.6 NA	3019.0	36.6 NA	4019.0	36.5 NA		
1019.0	36.5 NA	2019.0	35.1 NA	3019.0	36.5 NA		
4019.0	37.0 NA	1.0	0.751 MA	2.0	0.904 MA		
1003.0	0.304 MV	1004.0	0.434 MV	1005.0	0.411 MV		
1006.0	106.80 DB	1007.0	107.34 DB	1008.0	-27.9 NA		
1009.0	-27.0 NA	1010.0	-0.9 NA	1011.0	0.01 UA		
1012.0	16.37 MA	1013.0	0.18 V	1014.0	254.7 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.89 US		
1018.0	0.310 US	2003.0	0.307 MV	2004.0	0.350 MV		
2005.0	0.253 MV	2006.0	116.45 DB	2007.0	113.30 DB		
2008.0	-30.0 NA	2009.0	-26.9 NA	2010.0	-3.1 NA		
2011.0	0.01 UA	2012.0	16.33 MA	2013.0	0.18 V		
2014.0	330.4 V/MV	2015.0	1.600 US	2016.0	0.550 US		
2017.0	0.89 US	2018.0	0.320 US	3003.0	0.252 MV		
3004.0	0.410 MV	3005.0	0.396 MV	3006.0	105.14 DB		
3007.0	104.78 DB	3008.0	-28.8 NA	3009.0	-27.8 NA		
3010.0	-1.0 NA	3011.0	0.00 UA	3012.0	16.15 MA		
3013.0	0.18 V	3014.0	448.2 V/MV	3015.0	1.630 US		
3016.0	0.540 US	3017.0	0.88 US	3018.0	0.310 US		
4003.0	0.412 MV	4004.0	0.520 MV	4005.0	0.432 MV		
4006.0	108.48 DB	4007.0	120.00 DB	4008.0	-28.2 NA		
4009.0	-28.3 NA	4010.0	0.1 NA	4011.0	0.01 UA		
4012.0	16.19 MA	4013.0	0.18 V	4014.0	207.6 V/MV		
4015.0	1.600 US	4016.0	0.540 US	4017.0	0.88 US		
4018.0	0.310 US						

DEVICE	14	BIN	1	HEAD	4	08:13 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	59.7	NA
2019.0	58.8 NA	3019.0	57.6	NA	4019.0	57.4	NA
1019.0	58.9 NA	2019.0	57.4	NA	3019.0	59.0	NA
4019.0	58.3 NA	1.0	0.730	MA	2.0	0.885	MA
1003.0	0.609 MV	1004.0	0.565	MV	1005.0	0.684	MV
1006.0	116.27 DB	1007.0	110.49	DB	1008.0	-45.0	NA
1009.0	-43.2 NA	1010.0	-1.8	NA	1011.0	0.00	UA
1012.0	15.14 MA	1013.0	0.19	V	1014.0	211.0	V/MV
1015.0	1.900 US	1016.0	0.590	US	1017.0	0.96	US
1018.0	0.330 US	2003.0	0.471	MV	2004.0	0.441	MV
2005.0	0.446 MV	2006.0	119.69	DB	2007.0	119.92	DB
2008.0	-45.6 NA	2009.0	-43.4	NA	2010.0	-2.2	NA
2011.0	0.01 UA	2012.0	15.14	MA	2013.0	0.18	V
2014.0	242.4 V/MV	2015.0	2.030	US	2016.0	0.620	US
2017.0	0.96 US	2018.0	0.330	US	3003.0	0.458	MV
3004.0	0.442 MV	3005.0	0.559	MV	3006.0	120.00	DB
3007.0	107.89 DB	3008.0	-44.7	NA	3009.0	-44.1	NA
3010.0	-0.7 NA	3011.0	0.00	UA	3012.0	15.00	MA
3013.0	0.19 V	3014.0	323.2	V/MV	3015.0	2.000	US
3016.0	0.600 US	3017.0	0.96	US	3018.0	0.320	US
4003.0	0.442 MV	4004.0	0.450	MV	4005.0	0.472	MV
4006.0	120.00 DB	4007.0	118.40	DB	4008.0	-44.8	NA
4009.0	-44.5 NA	4010.0	-0.2	NA	4011.0	0.01	UA
4012.0	15.03 MA	4013.0	0.19	V	4014.0	174.2	V/MV
4015.0	1.970 US	4016.0	0.600	US	4017.0	0.95	US
4018.0	0.320 US						

DEVICE	15	BIN	1	HEAD	4	08:14 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	59.1	NA
2019.0	58.0 NA	3019.0	56.8	NA	4019.0	56.5	NA
1019.0	58.3 NA	2019.0	57.1	NA	3019.0	58.3	NA
4019.0	58.4 NA	1.0	0.714	MA	2.0	0.862	MA
1003.0	0.784 MV	1004.0	0.789	MV	1005.0	0.866	MV
1006.0	120.00 DB	1007.0	109.73	DB	1008.0	-44.4	NA
1009.0	-43.2 NA	1010.0	-1.2	NA	1011.0	0.00	UA
1012.0	14.94 MA	1013.0	0.19	V	1014.0	216.2	V/MV
1015.0	1.950 US	1016.0	0.600	US	1017.0	0.96	US
1018.0	0.340 US	2003.0	0.479	MV	2004.0	0.413	MV
2005.0	0.462 MV	2006.0	112.74	DB	2007.0	120.00	DB
2008.0	-45.3 NA	2009.0	-43.1	NA	2010.0	-2.2	NA
2011.0	0.01 UA	2012.0	14.96	MA	2013.0	0.19	V
2014.0	259.5 V/MV	2015.0	2.070	US	2016.0	0.620	US
2017.0	0.97 US	2018.0	0.330	US	3003.0	0.478	MV
3004.0	0.451 MV	3005.0	0.574	MV	3006.0	120.00	DB
3007.0	108.30 DB	3008.0	-44.7	NA	3009.0	-44.7	NA
3010.0	-0.0 NA	3011.0	0.00	UA	3012.0	14.78	MA
3013.0	0.19 V	3014.0	329.3	V/MV	3015.0	2.030	US
3016.0	0.610 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.721 MV	4004.0	0.730	MV	4005.0	0.713	MV
4006.0	120.00 DB	4007.0	120.00	DB	4008.0	-43.2	NA
4009.0	-44.5 NA	4010.0	1.3	NA	4011.0	0.01	UA
4012.0	14.81 MA	4013.0	0.19	V	4014.0	167.6	V/MV
4015.0	1.990 US	4016.0	0.600	US	4017.0	0.94	US
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	08:14 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	68.1	NA
2019.0	67.9 NA	3019.0	66.8	NA	4019.0	66.1	NA
1019.0	68.7 NA	2019.0	67.5	NA	3019.0	68.3	NA
4019.0	68.1 NA	1.0	0.710	MA	2.0	0.864	MA
1003.0	0.606 MV	1004.0	0.643	MV	1005.0	0.694	MV
1006.0	117.69 DB	1007.0	109.00	DB	1008.0	-50.6	NA
1009.0	-49.9 NA	1010.0	-0.6	NA	1011.0	0.01	UA
1012.0	15.88 MA	1013.0	0.18	V	1014.0	236.6	V/MV
1015.0	1.960 US	1016.0	0.600	US	1017.0	0.98	US
1018.0	0.330 US	2003.0	0.549	MV	2004.0	0.510	MV
2005.0	0.508 MV	2006.0	117.25	DB	2007.0	115.86	DB
2008.0	-52.1 NA	2009.0	-50.1	NA	2010.0	-1.9	NA
2011.0	0.01 UA	2012.0	15.85	MA	2013.0	0.18	V
2014.0	302.8 V/MV	2015.0	2.100	US	2016.0	0.630	US
2017.0	0.97 US	2018.0	0.340	US	3003.0	0.420	MV
3004.0	0.414 MV	3005.0	0.526	MV	3006.0	120.00	DB
3007.0	107.49 DB	3008.0	-51.1	NA	3009.0	-50.5	NA
3010.0	-0.7 NA	3011.0	0.00	UA	3012.0	15.70	MA
3013.0	0.18 V	3014.0	429.4	V/MV	3015.0	2.030	US
3016.0	0.620 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.223 MV	4004.0	0.155	MV	4005.0	0.229	MV
4006.0	112.47 DB	4007.0	120.00	DB	4008.0	-50.6	NA
4009.0	-51.3 NA	4010.0	0.7	NA	4011.0	0.01	UA
4012.0	15.72 MA	4013.0	0.18	V	4014.0	190.1	V/MV
4015.0	2.020 US	4016.0	0.610	US	4017.0	0.95	US
4018.0	0.330 US						

DEVICE	17	BIN	1	HEAD	4	08:14 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	65.9	NA
2019.0	65.4 NA	3019.0	63.8	NA	4019.0	64.0	NA
1019.0	66.2 NA	2019.0	64.5	NA	3019.0	65.8	NA
4019.0	65.5 NA	1.0	0.716	MA	2.0	0.861	MA
1003.0	0.862 MV	1004.0	0.892	MV	1005.0	0.921	MV
1006.0	119.42 DB	1007.0	112.48	DB	1008.0	-49.9	NA
1009.0	-48.7 NA	1010.0	-1.2	NA	1011.0	0.00	UA
1012.0	14.87 MA	1013.0	0.19	V	1014.0	219.9	V/MV
1015.0	2.010 US	1016.0	0.600	US	1017.0	0.98	US
1018.0	0.330 US	2003.0	0.585	MV	2004.0	0.517	MV
2005.0	0.534 MV	2006.0	112.45	DB	2007.0	113.76	DB
2008.0	-51.4 NA	2009.0	-49.2	NA	2010.0	-2.2	NA
2011.0	0.01 UA	2012.0	14.86	MA	2013.0	0.19	V
2014.0	245.5 V/MV	2015.0	2.150	US	2016.0	0.630	US
2017.0	0.98 US	2018.0	0.340	US	3003.0	0.739	MV
3004.0	0.652 MV	3005.0	0.811	MV	3006.0	110.39	DB
3007.0	110.77 DB	3008.0	-49.0	NA	3009.0	-49.9	NA
3010.0	0.9 NA	3011.0	0.00	UA	3012.0	14.68	MA
3013.0	0.19 V	3014.0	324.5	V/MV	3015.0	2.120	US
3016.0	0.620 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.326 MV	4004.0	0.276	MV	4005.0	0.373	MV
4006.0	115.24 DB	4007.0	114.46	DB	4008.0	-48.8	NA
4009.0	-49.5 NA	4010.0	0.7	NA	4011.0	0.01	UA
4012.0	14.60 MA	4013.0	0.19	V	4014.0	158.9	V/MV
4015.0	2.070 US	4016.0	0.610	US	4017.0	0.97	US
4018.0	0.330 US						

DEVICE	18	BIN	1	HEAD	4	08:14 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	66.7	NA
2019.0	65.3 NA	3019.0	63.5	NA	4019.0	63.6	NA
1019.0	66.2 NA	2019.0	64.6	NA	3019.0	65.6	NA
4019.0	65.4 NA	1.0	0.714	MA	2.0	0.861	MA
1003.0	0.738 MV	1004.0	0.810	MV	1005.0	0.843	MV
1006.0	111.95 DB	1007.0	107.55	DB	1008.0	-50.3	NA
1009.0	-49.0 NA	1010.0	-1.2	NA	1011.0	0.01	UA
1012.0	14.71 MA	1013.0	0.19	V	1014.0	205.1	V/MV
1015.0	2.020 US	1016.0	0.600	US	1017.0	0.97	US
1018.0	0.340 US	2003.0	0.828	MV	2004.0	0.724	MV
2005.0	0.756 MV	2006.0	108.75	DB	2007.0	110.84	DB
2008.0	-50.5 NA	2009.0	-48.9	NA	2010.0	-1.6	NA
2011.0	0.01 UA	2012.0	14.71	MA	2013.0	0.19	V
2014.0	234.6 V/MV	2015.0	2.160	US	2016.0	0.630	US
2017.0	0.99 US	2018.0	0.330	US	3003.0	0.723	MV
3004.0	0.691 MV	3005.0	0.822	MV	3006.0	119.03	DB
3007.0	108.08 DB	3008.0	-49.0	NA	3009.0	-49.3	NA
3010.0	0.3 NA	3011.0	0.00	UA	3012.0	14.48	MA
3013.0	0.19 V	3014.0	301.5	V/MV	3015.0	2.100	US
3016.0	0.620 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.571 MV	4004.0	0.538	MV	4005.0	0.566	MV
4006.0	118.82 DB	4007.0	120.00	DB	4008.0	-48.8	NA
4009.0	-49.5 NA	4010.0	0.7	NA	4011.0	0.01	UA
4012.0	14.50 MA	4013.0	0.19	V	4014.0	159.9	V/MV
4015.0	2.050 US	4016.0	0.600	US	4017.0	0.96	US
4018.0	0.330 US						

DEVICE	19	BIN	1	HEAD	4	08:14 AM	02/04/2004
700.0	300	800.0	0	DGR	1019.0	65.8	NA
2019.0	65.5 NA	3019.0	64.3	NA	4019.0	63.8	NA
1019.0	66.1 NA	2019.0	64.4	NA	3019.0	65.7	NA
4019.0	65.5 NA	1.0	0.711	MA	2.0	0.863	MA
1003.0	0.356 MV	1004.0	0.376	MV	1005.0	0.449	MV
1006.0	120.00 DB	1007.0	108.60	DB	1008.0	-49.3	NA
1009.0	-49.0 NA	1010.0	-0.3	NA	1011.0	0.00	UA
1012.0	14.93 MA	1013.0	0.19	V	1014.0	212.2	V/MV
1015.0	2.020 US	1016.0	0.610	US	1017.0	0.98	US
1018.0	0.340 US	2003.0	0.455	MV	2004.0	0.397	MV
2005.0	0.415 MV	2006.0	113.86	DB	2007.0	115.89	DB
2008.0	-51.4 NA	2009.0	-49.5	NA	2010.0	-1.9	NA
2011.0	0.01 UA	2012.0	14.98	MA	2013.0	0.19	V
2014.0	263.3 V/MV	2015.0	2.160	US	2016.0	0.640	US
2017.0	0.99 US	2018.0	0.330	US	3003.0	0.656	MV
3004.0	0.640 MV	3005.0	0.767	MV	3006.0	120.00	DB
3007.0	107.05 DB	3008.0	-49.6	NA	3009.0	-49.6	NA
3010.0	-0.0 NA	3011.0	0.00	UA	3012.0	14.78	MA
3013.0	0.19 V	3014.0	380.2	V/MV	3015.0	2.100	US
3016.0	0.620 US	3017.0	0.97	US	3018.0	0.330	US
4003.0	0.471 MV	4004.0	0.446	MV	4005.0	0.516	MV
4006.0	120.00 DB	4007.0	114.87	DB	4008.0	-48.8	NA
4009.0	-49.5 NA	4010.0	0.7	NA	4011.0	0.01	UA
4012.0	14.79 MA	4013.0	0.19	V	4014.0	162.1	V/MV
4015.0	2.060 US	4016.0	0.610	US	4017.0	0.96	US
4018.0	0.320 US						

78k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	1	BIN	1	HEAD	4	03:01 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	37.2 NA		
2019.0	37.0 NA	3019.0	36.6 NA	4019.0	36.7 NA		
1019.0	36.2 NA	2019.0	34.4 NA	3019.0	36.3 NA		
4019.0	36.6 NA	1.0	0.747 MA	2.0	0.906 MA		
1003.0	0.147 MV	1004.0	0.297 MV	1005.0	0.241 MV		
1006.0	105.57 DB	1007.0	108.44 DB	1008.0	-28.2 NA		
1009.0	-26.7 NA	1010.0	-1.5 NA	1011.0	0.01 UA		
1012.0	16.50 MA	1013.0	0.18 V	1014.0	315.3 V/MV		
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.90 US		
1018.0	0.320 US	2003.0	0.042 MV	2004.0	0.154 MV		
2005.0	0.045 MV	2006.0	108.11 DB	2007.0	120.00 DB		
2008.0	-29.4 NA	2009.0	-26.9 NA	2010.0	-2.5 NA		
2011.0	0.01 UA	2012.0	16.53 MA	2013.0	0.18 V		
2014.0	347.0 V/MV	2015.0	1.600 US	2016.0	0.550 US		
2017.0	0.90 US	2018.0	0.320 US	3003.0	0.264 MV		
3004.0	0.320 MV	3005.0	0.377 MV	3006.0	114.13 DB		
3007.0	106.92 DB	3008.0	-29.7 NA	3009.0	-28.4 NA		
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	16.28 MA		
3013.0	0.18 V	3014.0	569.2 V/MV	3015.0	1.640 US		
3016.0	0.540 US	3017.0	0.89 US	3018.0	0.310 US		
4003.0	0.111 MV	4004.0	0.198 MV	4005.0	0.149 MV		
4006.0	110.31 DB	4007.0	116.38 DB	4008.0	-28.2 NA		
4009.0	-28.0 NA	4010.0	-0.2 NA	4011.0	0.01 UA		
4012.0	16.32 MA	4013.0	0.18 V	4014.0	204.7 V/MV		
4015.0	1.610 US	4016.0	0.540 US	4017.0	0.89 US		
4018.0	0.320 US						

DEVICE	2	BIN	1	HEAD	4	03:01 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	37.1	NA	
2019.0	36.6 NA	3019.0	36.2 NA	4019.0	36.4	NA	
1019.0	36.3 NA	2019.0	34.6 NA	3019.0	36.2	NA	
4019.0	36.7 NA	1.0	0.750 MA	2.0	0.907	MA	
1003.0	0.122 MV	1004.0	0.219 MV	1005.0	0.230	MV	
1006.0	109.38 DB	1007.0	107.32 DB	1008.0	-27.9	NA	
1009.0	-27.0 NA	1010.0	-0.9 NA	1011.0	0.01	UA	
1012.0	16.50 MA	1013.0	0.18 V	1014.0	317.6	V/MV	
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.91	US	
1018.0	0.320 US	2003.0	0.376 MV	2004.0	0.479	MV	
2005.0	0.352 MV	2006.0	108.86 DB	2007.0	120.00	DB	
2008.0	-29.1 NA	2009.0	-27.2 NA	2010.0	-1.9	NA	
2011.0	0.01 UA	2012.0	16.44 MA	2013.0	0.18	V	
2014.0	340.2 V/MV	2015.0	1.610 US	2016.0	0.550	US	
2017.0	0.90 US	2018.0	0.320 US	3003.0	0.304	MV	
3004.0	0.392 MV	3005.0	0.434 MV	3006.0	110.19	DB	
3007.0	105.66 DB	3008.0	-28.5 NA	3009.0	-27.5	NA	
3010.0	-1.0 NA	3011.0	0.00 UA	3012.0	16.29	MA	
3013.0	0.18 V	3014.0	633.6 V/MV	3015.0	1.630	US	
3016.0	0.540 US	3017.0	0.89 US	3018.0	0.310	US	
4003.0	0.337 MV	4004.0	0.449 MV	4005.0	0.367	MV	
4006.0	108.12 DB	4007.0	118.37 DB	4008.0	-28.2	NA	
4009.0	-28.0 NA	4010.0	-0.2 NA	4011.0	0.01	UA	
4012.0	16.30 MA	4013.0	0.18 V	4014.0	211.6	V/MV	
4015.0	1.610 US	4016.0	0.540 US	4017.0	0.88	US	
4018.0	0.320 US						

DEVICE	14	BIN	1	HEAD	4	03:02 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	68.7	NA	
2019.0	69.0 NA	3019.0	67.7 NA	4019.0	67.3	NA	
1019.0	66.2 NA	2019.0	65.0 NA	3019.0	66.6	NA	
4019.0	66.0 NA	1.0	0.722 MA	2.0	0.868	MA	
1003.0	0.024 MV	1004.0	0.370 MV	1005.0	0.184	MV	
1006.0	98.32 DB	1007.0	103.86 DB	1008.0	-50.9	NA	
1009.0	-49.6 NA	1010.0	-1.2 NA	1011.0	0.01	UA	
1012.0	14.83 MA	1013.0	0.19 V	1014.0	235.0	V/MV	
1015.0	2.450 US	1016.0	0.680 US	1017.0	1.06	US	
1018.0	0.340 US	2003.0	-0.052 MV	2004.0	0.359	MV	
2005.0	0.022 MV	2006.0	96.83 DB	2007.0	110.59	DB	
2008.0	-52.7 NA	2009.0	-49.5 NA	2010.0	-3.1	NA	
2011.0	0.01 UA	2012.0	14.83 MA	2013.0	0.19	V	
2014.0	233.8 V/MV	2015.0	2.760 US	2016.0	0.710	US	
2017.0	1.06 US	2018.0	0.330 US	3003.0	-0.052	MV	
3004.0	0.353 MV	3005.0	0.139 MV	3006.0	96.96	DB	
3007.0	102.35 DB	3008.0	-52.1 NA	3009.0	-50.2	NA	
3010.0	-1.9 NA	3011.0	0.00 UA	3012.0	14.69	MA	
3013.0	0.19 V	3014.0	301.4 V/MV	3015.0	2.600	US	
3016.0	0.690 US	3017.0	1.04 US	3018.0	0.330	US	
4003.0	-0.076 MV	4004.0	0.365 MV	4005.0	0.054	MV	
4006.0	96.19 DB	4007.0	105.64 DB	4008.0	-50.9	NA	
4009.0	-49.8 NA	4010.0	-1.1 NA	4011.0	0.01	UA	
4012.0	14.69 MA	4013.0	0.19 V	4014.0	154.3	V/MV	
4015.0	2.820 US	4016.0	0.700 US	4017.0	1.05	US	
4018.0	0.330 US						

DEVICE	15	BIN	1	HEAD	4	03:02 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	68.1 NA		
2019.0	68.1 NA	3019.0	66.8 NA	4019.0	66.2 NA		
1019.0	65.8 NA	2019.0	64.5 NA	3019.0	65.4 NA		
4019.0	65.8 NA	1.0	0.704 MA	2.0	0.852 MA		
1003.0	0.163 MV	1004.0	0.571 MV	1005.0	0.338 MV		
1006.0	96.88 DB	1007.0	103.12 DB	1008.0	-50.3 NA		
1009.0	-49.0 NA	1010.0	-1.2 NA	1011.0	0.01 UA		
1012.0	14.62 MA	1013.0	0.19 V	1014.0	231.4 V/MV		
1015.0	2.500 US	1016.0	0.690 US	1017.0	1.08 US		
1018.0	0.340 US	2003.0	-0.052 MV	2004.0	0.328 MV		
2005.0	0.032 MV	2006.0	97.50 DB	2007.0	109.44 DB		
2008.0	-52.4 NA	2009.0	-48.9 NA	2010.0	-3.4 NA		
2011.0	0.01 UA	2012.0	14.62 MA	2013.0	0.19 V		
2014.0	246.2 V/MV	2015.0	2.790 US	2016.0	0.720 US		
2017.0	1.07 US	2018.0	0.340 US	3003.0	0.150 MV		
3004.0	0.552 MV	3005.0	0.324 MV	3006.0	97.01 DB		
3007.0	103.12 DB	3008.0	-50.8 NA	3009.0	-49.6 NA		
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	14.47 MA		
3013.0	0.19 V	3014.0	295.1 V/MV	3015.0	2.630 US		
3016.0	0.700 US	3017.0	1.05 US	3018.0	0.330 US		
4003.0	0.202 MV	4004.0	0.632 MV	4005.0	0.296 MV		
4006.0	96.44 DB	4007.0	108.54 DB	4008.0	-50.9 NA		
4009.0	-49.8 NA	4010.0	-1.1 NA	4011.0	0.01 UA		
4012.0	14.50 MA	4013.0	0.19 V	4014.0	158.1 V/MV		
4015.0	2.780 US	4016.0	0.690 US	4017.0	1.05 US		
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	03:02 PM	03/02/2004
700.0	700	800.0	0	DGR	1019.0	79.8	NA
2019.0	80.3 NA	3019.0	78.9	NA	4019.0	77.5	NA
1019.0	76.0 NA	2019.0	75.4	NA	3019.0	76.3	NA
4019.0	76.5 NA	1.0	0.702	MA	2.0	0.857	MA
1003.0	-0.303 MV	1004.0	0.273	MV	1005.0	-0.090	MV
1006.0	93.89 DB	1007.0	101.38	DB	1008.0	-57.9	NA
1009.0	-56.1 NA	1010.0	-1.8	NA	1011.0	0.01	UA
1012.0	15.50 MA	1013.0	0.18	V	1014.0	268.9	V/MV
1015.0	2.470 US	1016.0	0.680	US	1017.0	1.07	US
1018.0	0.340 US	2003.0	-0.251	MV	2004.0	0.310	MV
2005.0	-0.155 MV	2006.0	94.12	DB	2007.0	108.34	DB
2008.0	-60.0 NA	2009.0	-56.6	NA	2010.0	-3.4	NA
2011.0	0.01 UA	2012.0	15.45	MA	2013.0	0.18	V
2014.0	287.4 V/MV	2015.0	2.780	US	2016.0	0.710	US
2017.0	1.06 US	2018.0	0.340	US	3003.0	-0.471	MV
3004.0	0.089 MV	3005.0	-0.231	MV	3006.0	94.12	DB
3007.0	100.35 DB	3008.0	-59.4	NA	3009.0	-56.9	NA
3010.0	-2.5 NA	3011.0	0.00	UA	3012.0	15.33	MA
3013.0	0.18 V	3014.0	371.2	V/MV	3015.0	2.590	US
3016.0	0.690 US	3017.0	1.04	US	3018.0	0.330	US
4003.0	-0.631 MV	4004.0	-0.137	MV	4005.0	-0.488	MV
4006.0	95.22 DB	4007.0	104.83	DB	4008.0	-57.3	NA
4009.0	-56.8 NA	4010.0	-0.5	NA	4011.0	0.01	UA
4012.0	15.34 MA	4013.0	0.18	V	4014.0	174.6	V/MV
4015.0	2.770 US	4016.0	0.690	US	4017.0	1.04	US
4018.0	0.320 US						

DEVICE	17	BIN	1	HEAD	4	03:03 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	79.8 NA		
2019.0	80.2 NA	3019.0	78.7 NA	4019.0	78.2 NA		
1019.0	76.0 NA	2019.0	75.1 NA	3019.0	76.0 NA		
4019.0	76.1 NA	1.0	0.706 MA	2.0	0.852 MA		
1003.0	-0.308 MV	1004.0	0.407 MV	1005.0	-0.081 MV		
1006.0	92.01 DB	1007.0	100.86 DB	1008.0	-58.8 NA		
1009.0	-56.7 NA	1010.0	-2.1 NA	1011.0	0.01 UA		
1012.0	14.53 MA	1013.0	0.19 V	1014.0	224.0 V/MV		
1015.0	3.040 US	1016.0	0.760 US	1017.0	1.11 US		
1018.0	0.350 US	2003.0	-0.255 MV	2004.0	0.448 MV		
2005.0	-0.119 MV	2006.0	92.16 DB	2007.0	105.29 DB		
2008.0	-60.3 NA	2009.0	-56.9 NA	2010.0	-3.4 NA		
2011.0	0.01 UA	2012.0	14.51 MA	2013.0	0.19 V		
2014.0	228.8 V/MV	2015.0	3.570 US	2016.0	0.790 US		
2017.0	1.10 US	2018.0	0.340 US	3003.0	0.210 MV		
3004.0	0.896 MV	3005.0	0.470 MV	3006.0	92.38 DB		
3007.0	99.65 DB	3008.0	-59.7 NA	3009.0	-58.1 NA		
3010.0	-1.6 NA	3011.0	0.00 UA	3012.0	14.38 MA		
3013.0	0.19 V	3014.0	300.0 V/MV	3015.0	3.180 US		
3016.0	0.770 US	3017.0	1.09 US	3018.0	0.350 US		
4003.0	-0.701 MV	4004.0	-0.030 MV	4005.0	-0.470 MV		
4006.0	92.56 DB	4007.0	100.68 DB	4008.0	-58.6 NA		
4009.0	-57.4 NA	4010.0	-1.1 NA	4011.0	0.01 UA		
4012.0	14.26 MA	4013.0	0.19 V	4014.0	146.2 V/MV		
4015.0	3.630 US	4016.0	0.780 US	4017.0	1.09 US		
4018.0	0.330 US						

DEVICE	18	BIN	1	HEAD	4	03:03 PM	03/02/2004
700.0	700	800.0	0 DGR	1019.0	80.8	NA	
2019.0	80.5 NA	3019.0	78.5 NA	4019.0	78.3	NA	
1019.0	76.7 NA	2019.0	75.0 NA	3019.0	76.1	NA	
4019.0	76.3 NA	1.0	0.705 MA	2.0	0.848	MA	
1003.0	-0.458 MV	1004.0	0.298 MV	1005.0	-0.186	MV	
1006.0	91.52 DB	1007.0	99.26 DB	1008.0	-59.1	NA	
1009.0	-57.0 NA	1010.0	-2.1 NA	1011.0	0.01	UA	
1012.0	14.35 MA	1013.0	0.19 V	1014.0	218.2	V/MV	
1015.0	3.040 US	1016.0	0.750 US	1017.0	1.11	US	
1018.0	0.350 US	2003.0	0.000 MV	2004.0	0.644	MV	
2005.0	0.109 MV	2006.0	92.92 DB	2007.0	107.22	DB	
2008.0	-60.6 NA	2009.0	-56.9 NA	2010.0	-3.8	NA	
2011.0	0.01 UA	2012.0	14.34 MA	2013.0	0.19	V	
2014.0	214.6 V/MV	2015.0	3.580 US	2016.0	0.790	US	
2017.0	1.10 US	2018.0	0.340 US	3003.0	0.852	MV	
3004.0	1.612 MV	3005.0	1.117 MV	3006.0	91.48	DB	
3007.0	99.49 DB	3008.0	-58.8 NA	3009.0	-57.5	NA	
3010.0	-1.3 NA	3011.0	0.00 UA	3012.0	14.13	MA	
3013.0	0.19 V	3014.0	309.6 V/MV	3015.0	3.170	US	
3016.0	0.770 US	3017.0	1.08 US	3018.0	0.350	US	
4003.0	-0.434 MV	4004.0	0.259 MV	4005.0	-0.257	MV	
4006.0	92.28 DB	4007.0	102.98 DB	4008.0	-58.9	NA	
4009.0	-57.7 NA	4010.0	-1.1 NA	4011.0	0.01	UA	
4012.0	14.13 MA	4013.0	0.19 V	4014.0	144.4	V/MV	
4015.0	3.620 US	4016.0	0.780 US	4017.0	1.08	US	
4018.0	0.330 US						

DEVICE	19	BIN	1	HEAD	4	03:03 PM	03/02/2004
700.0	700	800.0	0	DGR	1019.0	79.4	NA
2019.0	80.0 NA	3019.0	78.9	NA	4019.0	78.3	NA
1019.0	76.1 NA	2019.0	74.6	NA	3019.0	75.8	NA
4019.0	75.9 NA	1.0	0.704	MA	2.0	0.850	MA
1003.0	-0.870 MV	1004.0	-0.140	MV	1005.0	-0.600	MV
1006.0	91.83 DB	1007.0	99.34	DB	1008.0	-58.5	NA
1009.0	-56.4 NA	1010.0	-2.1	NA	1011.0	0.01	UA
1012.0	14.56 MA	1013.0	0.19	V	1014.0	233.5	V/MV
1015.0	3.060 US	1016.0	0.760	US	1017.0	1.11	US
1018.0	0.350 US	2003.0	-0.382	MV	2004.0	0.336	MV
2005.0	-0.236 MV	2006.0	91.98	DB	2007.0	104.69	DB
2008.0	-60.9 NA	2009.0	-56.9	NA	2010.0	-4.1	NA
2011.0	0.01 UA	2012.0	14.59	MA	2013.0	0.19	V
2014.0	232.8 V/MV	2015.0	3.580	US	2016.0	0.790	US
2017.0	1.11 US	2018.0	0.350	US	3003.0	-0.322	MV
3004.0	0.415 MV	3005.0	-0.014	MV	3006.0	91.75	DB
3007.0	98.19 DB	3008.0	-59.4	NA	3009.0	-56.9	NA
3010.0	-2.5 NA	3011.0	0.00	UA	3012.0	14.42	MA
3013.0	0.19 V	3014.0	336.8	V/MV	3015.0	3.140	US
3016.0	0.760 US	3017.0	1.10	US	3018.0	0.340	US
4003.0	-0.594 MV	4004.0	0.129	MV	4005.0	-0.357	MV
4006.0	91.91 DB	4007.0	100.50	DB	4008.0	-58.3	NA
4009.0	-57.7 NA	4010.0	-0.5	NA	4011.0	0.01	UA
4012.0	14.43 MA	4013.0	0.19	V	4014.0	147.4	V/MV
4015.0	3.610 US	4016.0	0.790	US	4017.0	1.09	US
4018.0	0.330 US						

100k LM139 8J9481C019 Wafer#1 White Sands

DEVICE	10	BIN	1	HEAD	4	04:12 PM	03/26/2004
700.0	700		800.0	0	DGR	1019.0	37.0 NA
2019.0	36.7 NA		3019.0	36.1 NA		4019.0	35.9 NA
1019.0	36.0 NA		2019.0	34.8 NA		3019.0	36.0 NA
4019.0	35.9 NA		1.0	0.749 MA		2.0	0.901 MA
1003.0	0.281 MV		1004.0	0.384 MV		1005.0	0.340 MV
1006.0	108.81 DB		1007.0	112.59 DB		1008.0	-27.3 NA
1009.0	-27.9 NA		1010.0	0.6 NA		1011.0	0.01 UA
1012.0	16.45 MA		1013.0	0.18 V		1014.0	276.6 V/MV
1015.0	1.620 US		1016.0	0.540 US		1017.0	0.89 US
1018.0	0.320 US		2003.0	0.150 MV		2004.0	0.200 MV
2005.0	0.110 MV		2006.0	115.18 DB		2007.0	115.79 DB
2008.0	-27.9 NA		2009.0	-27.3 NA		2010.0	-0.6 NA
2011.0	0.01 UA		2012.0	16.35 MA		2013.0	0.18 V
2014.0	348.4 V/MV		2015.0	1.590 US		2016.0	0.550 US
2017.0	0.90 US		2018.0	0.310 US		3003.0	0.024 MV
3004.0	0.161 MV		3005.0	0.181 MV		3006.0	106.40 DB
3007.0	104.06 DB		3008.0	-28.7 NA		3009.0	-27.9 NA
3010.0	-0.8 NA		3011.0	0.00 UA		3012.0	16.18 MA
3013.0	0.18 V		3014.0	497.2 V/MV		3015.0	1.640 US
3016.0	0.540 US		3017.0	1.15 US		3018.0	0.310 US
4003.0	0.245 MV		4004.0	0.378 MV		4005.0	0.315 MV
4006.0	106.62 DB		4007.0	111.09 DB		4008.0	-27.9 NA
4009.0	-27.9 NA		4010.0	0.0 NA		4011.0	0.01 UA
4012.0	16.20 MA		4013.0	0.18 V		4014.0	197.2 V/MV
4015.0	1.610 US		4016.0	0.550 US		4017.0	0.88 US
4018.0	0.320 US						

DEVICE	11	BIN	1	HEAD	4	04:12 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	37.2	NA	
2019.0	37.1 NA	3019.0	36.3 NA	4019.0	36.3	NA	
1019.0	36.4 NA	2019.0	35.3 NA	3019.0	36.2	NA	
4019.0	36.6 NA	1.0	0.749 MA	2.0	0.903	MA	
1003.0	0.327 MV	1004.0	0.451 MV	1005.0	0.418	MV	
1006.0	107.23 DB	1007.0	108.74 DB	1008.0	-27.3	NA	
1009.0	-27.3 NA	1010.0	0.0 NA	1011.0	0.01	UA	
1012.0	16.37 MA	1013.0	0.18 V	1014.0	276.1	V/MV	
1015.0	1.620 US	1016.0	0.540 US	1017.0	0.90	US	
1018.0	0.320 US	2003.0	0.306 MV	2004.0	0.343	MV	
2005.0	0.238 MV	2006.0	117.60 DB	2007.0	111.31	DB	
2008.0	-28.2 NA	2009.0	-27.6 NA	2010.0	-0.6	NA	
2011.0	0.01 UA	2012.0	16.34 MA	2013.0	0.18	V	
2014.0	354.1 V/MV	2015.0	1.590 US	2016.0	0.550	US	
2017.0	0.90 US	2018.0	0.320 US	3003.0	0.283	MV	
3004.0	0.446 MV	3005.0	0.426 MV	3006.0	104.87	DB	
3007.0	104.82 DB	3008.0	-28.4 NA	3009.0	-28.2	NA	
3010.0	-0.2 NA	3011.0	0.00 UA	3012.0	16.15	MA	
3013.0	0.18 V	3014.0	455.7 V/MV	3015.0	1.630	US	
3016.0	0.540 US	3017.0	0.90 US	3018.0	0.320	US	
4003.0	0.424 MV	4004.0	0.525 MV	4005.0	0.442	MV	
4006.0	109.05 DB	4007.0	120.00 DB	4008.0	-28.2	NA	
4009.0	-28.2 NA	4010.0	0.0 NA	4011.0	0.01	UA	
4012.0	16.20 MA	4013.0	0.18 V	4014.0	197.8	V/MV	
4015.0	1.610 US	4016.0	0.550 US	4017.0	0.88	US	
4018.0	0.320 US						

DEVICE	14	BIN	1	HEAD	4	04:13 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	74.3 NA		
2019.0	74.6 NA	3019.0	73.0 NA	4019.0	73.2 NA		
1019.0	73.1 NA	2019.0	72.0 NA	3019.0	72.8 NA		
4019.0	72.2 NA	1.0	0.715 MA	2.0	0.862 MA		
1003.0	0.304 MV	1004.0	0.460 MV	1005.0	0.413 MV		
1006.0	105.21 DB	1007.0	107.22 DB	1008.0	-54.8 NA		
1009.0	-54.8 NA	1010.0	0.0 NA	1011.0	0.01 UA		
1012.0	14.65 MA	1013.0	0.19 V	1014.0	211.3 V/MV		
1015.0	2.570 US	1016.0	0.690 US	1017.0	1.08 US		
1018.0	0.340 US	2003.0	0.311 MV	2004.0	0.521 MV		
2005.0	0.328 MV	2006.0	102.66 DB	2007.0	120.00 DB		
2008.0	-55.5 NA	2009.0	-54.5 NA	2010.0	-1.0 NA		
2011.0	0.01 UA	2012.0	14.63 MA	2013.0	0.19 V		
2014.0	228.9 V/MV	2015.0	2.890 US	2016.0	0.720 US		
2017.0	1.08 US	2018.0	0.330 US	3003.0	0.268 MV		
3004.0	0.495 MV	3005.0	0.421 MV	3006.0	101.98 DB		
3007.0	104.24 DB	3008.0	-55.3 NA	3009.0	-54.9 NA		
3010.0	-0.5 NA	3011.0	0.00 UA	3012.0	14.49 MA		
3013.0	0.19 V	3014.0	267.5 V/MV	3015.0	2.740 US		
3016.0	0.700 US	3017.0	1.31 US	3018.0	0.330 US		
4003.0	0.205 MV	4004.0	0.466 MV	4005.0	0.297 MV		
4006.0	100.77 DB	4007.0	108.66 DB	4008.0	-54.5 NA		
4009.0	-53.9 NA	4010.0	-0.6 NA	4011.0	0.01 UA		
4012.0	14.49 MA	4013.0	0.19 V	4014.0	150.8 V/MV		
4015.0	2.960 US	4016.0	0.710 US	4017.0	1.06 US		
4018.0	0.330 US						

DEVICE	15	BIN	1	HEAD	4	04:13 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	74.3	NA	
2019.0	73.8 NA	3019.0	72.5 NA	4019.0	71.8	NA	
1019.0	72.7 NA	2019.0	71.3 NA	3019.0	71.6	NA	
4019.0	72.1 NA	1.0	0.700 MA	2.0	0.847	MA	
1003.0	0.434 MV	1004.0	0.655 MV	1005.0	0.553	MV	
1006.0	102.20 DB	1007.0	106.38 DB	1008.0	-54.2	NA	
1009.0	-54.2 NA	1010.0	0.0 NA	1011.0	0.01	UA	
1012.0	14.43 MA	1013.0	0.19 V	1014.0	202.8	V/MV	
1015.0	2.620 US	1016.0	0.700 US	1017.0	1.08	US	
1018.0	0.340 US	2003.0	0.302 MV	2004.0	0.481	MV	
2005.0	0.325 MV	2006.0	104.05 DB	2007.0	120.00	DB	
2008.0	-55.5 NA	2009.0	-55.1 NA	2010.0	-0.3	NA	
2011.0	0.01 UA	2012.0	14.43 MA	2013.0	0.19	V	
2014.0	241.4 V/MV	2015.0	2.940 US	2016.0	0.730	US	
2017.0	1.08 US	2018.0	0.340 US	3003.0	0.669	MV	
3004.0	0.906 MV	3005.0	0.799 MV	3006.0	101.58	DB	
3007.0	105.66 DB	3008.0	-54.1 NA	3009.0	-53.6	NA	
3010.0	-0.5 NA	3011.0	0.00 UA	3012.0	14.28	MA	
3013.0	0.19 V	3014.0	244.8 V/MV	3015.0	2.730	US	
3016.0	0.710 US	3017.0	1.34 US	3018.0	0.340	US	
4003.0	0.478 MV	4004.0	0.728 MV	4005.0	0.533	MV	
4006.0	101.12 DB	4007.0	113.15 DB	4008.0	-54.2	NA	
4009.0	-54.5 NA	4010.0	0.3 NA	4011.0	0.01	UA	
4012.0	14.30 MA	4013.0	0.19 V	4014.0	149.5	V/MV	
4015.0	2.950 US	4016.0	0.710 US	4017.0	1.06	US	
4018.0	0.320 US						

DEVICE	16	BIN	1	HEAD	4	04:13 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	86.9 NA		
2019.0	87.2 NA	3019.0	85.8 NA	4019.0	84.2 NA		
1019.0	84.0 NA	2019.0	83.8 NA	3019.0	84.1 NA		
4019.0	84.0 NA	1.0	0.699 MA	2.0	0.845 MA		
1003.0	0.074 MV	1004.0	0.427 MV	1005.0	0.217 MV		
1006.0	98.14 DB	1007.0	104.85 DB	1008.0	-61.9 NA		
1009.0	-61.6 NA	1010.0	-0.3 NA	1011.0	0.01 UA		
1012.0	15.28 MA	1013.0	0.18 V	1014.0	245.7 V/MV		
1015.0	2.580 US	1016.0	0.700 US	1017.0	1.09 US		
1018.0	0.340 US	2003.0	0.285 MV	2004.0	0.608 MV		
2005.0	0.303 MV	2006.0	98.91 DB	2007.0	120.00 DB		
2008.0	-63.8 NA	2009.0	-62.8 NA	2010.0	-1.0 NA		
2011.0	0.01 UA	2012.0	15.23 MA	2013.0	0.18 V		
2014.0	276.6 V/MV	2015.0	2.900 US	2016.0	0.730 US		
2017.0	1.09 US	2018.0	0.340 US	3003.0	-0.093 MV		
3004.0	0.261 MV	3005.0	0.089 MV	3006.0	98.13 DB		
3007.0	102.75 DB	3008.0	-63.6 NA	3009.0	-62.5 NA		
3010.0	-1.1 NA	3011.0	0.00 UA	3012.0	15.10 MA		
3013.0	0.18 V	3014.0	341.7 V/MV	3015.0	2.710 US		
3016.0	0.700 US	3017.0	1.30 US	3018.0	0.330 US		
4003.0	-0.274 MV	4004.0	0.008 MV	4005.0	-0.180 MV		
4006.0	100.10 DB	4007.0	108.53 DB	4008.0	-61.6 NA		
4009.0	-61.6 NA	4010.0	0.0 NA	4011.0	0.01 UA		
4012.0	15.12 MA	4013.0	0.18 V	4014.0	166.0 V/MV		
4015.0	2.940 US	4016.0	0.720 US	4017.0	1.06 US		
4018.0	0.330 US						

DEVICE	17	BIN	1	HEAD	4	04:13 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	89.2 NA		
2019.0	88.7 NA	3019.0	87.6 NA	4019.0	87.2 NA		
1019.0	85.6 NA	2019.0	85.6 NA	3019.0	85.0 NA		
4019.0	85.1 NA	1.0	0.696 MA	2.0	0.851 MA		
1003.0	-0.008 MV	1004.0	0.485 MV	1005.0	0.163 MV		
1006.0	95.23 DB	1007.0	103.30 DB	1008.0	-64.3 NA		
1009.0	-63.1 NA	1010.0	-1.2 NA	1011.0	0.01 UA		
1012.0	14.32 MA	1013.0	0.19 V	1014.0	203.1 V/MV		
1015.0	3.080 US	1016.0	0.760 US	1017.0	1.14 US		
1018.0	0.350 US	2003.0	0.429 MV	2004.0	0.886 MV		
2005.0	0.493 MV	2006.0	95.90 DB	2007.0	111.96 DB		
2008.0	-65.6 NA	2009.0	-64.9 NA	2010.0	-0.6 NA		
2011.0	0.01 UA	2012.0	14.31 MA	2013.0	0.19 V		
2014.0	206.5 V/MV	2015.0	3.620 US	2016.0	0.800 US		
2017.0	1.12 US	2018.0	0.350 US	3003.0	0.887 MV		
3004.0	1.405 MV	3005.0	1.131 MV	3006.0	94.81 DB		
3007.0	100.21 DB	3008.0	-65.4 NA	3009.0	-64.1 NA		
3010.0	-1.4 NA	3011.0	0.00 UA	3012.0	14.12 MA		
3013.0	0.19 V	3014.0	197.2 V/MV	3015.0	3.230 US		
3016.0	0.780 US	3017.0	1.10 US	3018.0	0.350 US		
4003.0	-0.386 MV	4004.0	0.079 MV	4005.0	-0.202 MV		
4006.0	95.74 DB	4007.0	102.65 DB	4008.0	-64.9 NA		
4009.0	-63.4 NA	4010.0	-1.5 NA	4011.0	0.01 UA		
4012.0	14.05 MA	4013.0	0.19 V	4014.0	139.8 V/MV		
4015.0	3.710 US	4016.0	0.790 US	4017.0	1.10 US		
4018.0	0.340 US						

DEVICE	18	BIN	1	HEAD	4	04:13 PM	03/26/2004
700.0	700	800.0	0	DGR	1019.0	89.7	NA
2019.0	88.8 NA	3019.0	87.3	NA	4019.0	86.9	NA
1019.0	86.3 NA	2019.0	84.6	NA	3019.0	85.3	NA
4019.0	85.4 NA	1.0	0.693	MA	2.0	0.839	MA
1003.0	-0.168 MV	1004.0	0.367	MV	1005.0	0.047	MV
1006.0	94.54 DB	1007.0	101.33	DB	1008.0	-64.3	NA
1009.0	-64.0 NA	1010.0	-0.3	NA	1011.0	0.01	UA
1012.0	14.13 MA	1013.0	0.19	V	1014.0	195.3	V/MV
1015.0	3.090 US	1016.0	0.760	US	1017.0	1.13	US
1018.0	0.350 US	2003.0	0.696	MV	2004.0	1.118	MV
2005.0	0.740 MV	2006.0	96.59	DB	2007.0	115.22	DB
2008.0	-65.6 NA	2009.0	-64.0	NA	2010.0	-1.6	NA
2011.0	0.01 UA	2012.0	14.13	MA	2013.0	0.19	V
2014.0	186.9 V/MV	2015.0	3.590	US	2016.0	0.810	US
2017.0	1.12 US	2018.0	0.350	US	3003.0	1.749	MV
3004.0	2.364 MV	3005.0	2.034	MV	3006.0	93.33	DB
3007.0	98.88 DB	3008.0	-63.9	NA	3009.0	-63.7	NA
3010.0	-0.2 NA	3011.0	0.00	UA	3012.0	13.92	MA
3013.0	0.19 V	3014.0	212.6	V/MV	3015.0	2.340	US
3016.0	0.750 US	3017.0	2.17	US	3018.0	0.370	US
4003.0	-0.103 MV	4004.0	0.371	MV	4005.0	0.024	MV
4006.0	95.57 DB	4007.0	105.84	DB	4008.0	-64.3	NA
4009.0	-63.1 NA	4010.0	-1.2	NA	4011.0	0.01	UA
4012.0	13.93 MA	4013.0	0.19	V	4014.0	144.2	V/MV
4015.0	3.660 US	4016.0	0.800	US	4017.0	1.10	US
4018.0	0.330 US						

DEVICE	19	BIN	1	HEAD	4	04:14 PM	03/26/2004
700.0	700	800.0	0 DGR	1019.0	88.6	NA	
2019.0	89.0 NA	3019.0	87.5 NA	4019.0	86.8	NA	
1019.0	85.7 NA	2019.0	84.6 NA	3019.0	85.4	NA	
4019.0	85.3 NA	1.0	0.691 MA	2.0	0.835	MA	
1003.0	-0.597 MV	1004.0	-0.081 MV	1005.0	-0.380	MV	
1006.0	94.84 DB	1007.0	101.23 DB	1008.0	-63.4	NA	
1009.0	-63.4 NA	1010.0	0.0 NA	1011.0	0.01	UA	
1012.0	14.33 MA	1013.0	0.19 V	1014.0	199.0	V/MV	
1015.0	3.130 US	1016.0	0.770 US	1017.0	1.14	US	
1018.0	0.350 US	2003.0	0.321 MV	2004.0	0.794	MV	
2005.0	0.395 MV	2006.0	95.60 DB	2007.0	110.51	DB	
2008.0	-65.6 NA	2009.0	-64.0 NA	2010.0	-1.6	NA	
2011.0	0.01 UA	2012.0	14.37 MA	2013.0	0.19	V	
2014.0	219.6 V/MV	2015.0	3.620 US	2016.0	0.800	US	
2017.0	1.13 US	2018.0	0.350 US	3003.0	0.045	MV	
3004.0	0.578 MV	3005.0	0.319 MV	3006.0	94.57	DB	
3007.0	99.20 DB	3008.0	-65.4 NA	3009.0	-63.7	NA	
3010.0	-1.7 NA	3011.0	0.00 UA	3012.0	14.19	MA	
3013.0	0.19 V	3014.0	269.6 V/MV	3015.0	3.150	US	
3016.0	0.780 US	3017.0	1.11 US	3018.0	0.350	US	
4003.0	-0.301 MV	4004.0	0.223 MV	4005.0	-0.109	MV	
4006.0	94.72 DB	4007.0	102.29 DB	4008.0	-64.3	NA	
4009.0	-64.0 NA	4010.0	-0.3 NA	4011.0	0.01	UA	
4012.0	14.20 MA	4013.0	0.19 V	4014.0	143.9	V/MV	
4015.0	3.720 US	4016.0	0.800 US	4017.0	1.10	US	
4018.0	0.330 US						