



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

ANALOG TOTAL DOSE RADIATION REPORT

Customer: Rad Qual

Part Type: RM158AJLQMLV

Input Bias Circuit: 9294 IR

Dose Rate: 46.968 rad(Si)/sec

Test Program Used: RH0158AXXA

Tester: L.Collins

Wafer Run Number: JM055X02

Wafer Number: 7

Package Type: JCDIP008

Production Lot #: 9U1129F019

IPI #: N/A

Disposition: PASSES

Summary:

Passes Room Temp @: 50k

Part Out of Room Temp Spec @: N/A (no devices failed)

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

Parameters over Limit:

Review By: Mike Maher

Reviewed By QA: M. Maher 18/July/2005

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# RM158AJLQMLV

LOT# 9U1129F019

IPI# N/A

Test Program: RH0158AXXA

Machine: LTX 01-3

Operator: D0226

Bias Board: 9294 IR

Start Time: 1:28 P.M

Finish Time: 2:16 P.M

Start Date: 15/July/2005

Finish Date: 15/July/2005

QA: M. Maher

Control Units s/n: #1 #2

Duts : #3 #4 #5 #7 #8 #9

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# RM158AJLQMLV

LOT# 9U1129F019

IPI# N/A

Location Step	Operation Mtd/Cond	Qty In	Qty Out	Var	Mech	Rej	FF
	<i>Irradiation</i>	6	6	0	0		
	30k					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		
	50k					N/A	N/A
	<i>Level</i>						
PASS	Post Rad Read/Rec. Tp5	6	6	0	0	0	0

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

0k

9U1129F019

DEVICE	1	BIN	1	HEAD	3	01:28 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.83 MV		
2001.0	1.73 MV	1002.0	-0.22 MV	2002.0	-0.39 MV		
1003.0	1.76 MV	2003.0	1.68 MV	1004.0	-0.16 NA		
2004.0	-0.08 NA	1005.0	-16.48 NA	2005.0	-16.15 NA		
1006.0	-16.32 NA	2006.0	-16.06 NA	1007.0	113.43 DB		
2007.0	114.58 DB	1008.0	82.84 DB	2008.0	82.60 DB		
1009.0	-44.159 MA	2009.0	-43.612 MA	1010.0	64.21 UA		
2010.0	64.00 UA	1011.0	16.92 MA	2011.0	17.10 MA		
1012.0	-44.06 MA	2012.0	-43.27 MA	13.0	0.731 MA		
14.0	0.476 MA	1015.0	284.24 V/MV	2015.0	334.16 V/MV		
1016.0	3.54 MV	2016.0	3.55 MV	1017.0	0.037 UA		
2017.0	0.030 UA	1018.0	-0.216 UA	2018.0	-0.196 UA		
1019.0	1.026 MV	2019.0	1.114 MV	1020.0	1.458 MV		
2020.0	1.382 MV	1021.0	28.138 V	2021.0	28.203 V		
1022.0	28.543 V	2022.0	28.544 V				

DEVICE	2	BIN	1	HEAD	3	01:28 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.87 MV		
2001.0	1.65 MV	1002.0	-0.28 MV	2002.0	-0.51 MV		
1003.0	1.81 MV	2003.0	1.60 MV	1004.0	0.01 NA		
2004.0	-0.19 NA	1005.0	-16.39 NA	2005.0	-16.36 NA		
1006.0	-16.41 NA	2006.0	-16.18 NA	1007.0	115.11 DB		
2007.0	114.35 DB	1008.0	82.45 DB	2008.0	82.41 DB		
1009.0	-44.642 MA	2009.0	-44.117 MA	1010.0	63.83 UA		
2010.0	63.81 UA	1011.0	16.75 MA	2011.0	16.81 MA		
1012.0	-44.52 MA	2012.0	-43.75 MA	13.0	0.732 MA		
14.0	0.470 MA	1015.0	290.43 V/MV	2015.0	330.16 V/MV		
1016.0	3.56 MV	2016.0	3.65 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.210 UA	2018.0	-0.193 UA		
1019.0	1.026 MV	2019.0	1.143 MV	1020.0	1.355 MV		
2020.0	1.353 MV	1021.0	28.143 V	2021.0	28.202 V		
1022.0	28.540 V	2022.0	28.540 V				

DEVICE	3	BIN	1	HEAD	3	01:28 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.83 MV		
2001.0	1.64 MV	1002.0	-0.34 MV	2002.0	-0.49 MV		
1003.0	1.80 MV	2003.0	1.65 MV	1004.0	-0.31 NA		
2004.0	-0.36 NA	1005.0	-16.06 NA	2005.0	-15.83 NA		
1006.0	-15.75 NA	2006.0	-15.47 NA	1007.0	130.29 DB		
2007.0	132.09 DB	1008.0	82.33 DB	2008.0	82.51 DB		
1009.0	-45.030 MA	2009.0	-44.377 MA	1010.0	63.97 UA		
2010.0	64.14 UA	1011.0	16.55 MA	2011.0	16.72 MA		
1012.0	-44.90 MA	2012.0	-44.00 MA	13.0	0.743 MA		
14.0	0.470 MA	1015.0	308.00 V/MV	2015.0	308.82 V/MV		
1016.0	3.76 MV	2016.0	3.72 MV	1017.0	0.037 UA		
2017.0	0.029 UA	1018.0	-0.218 UA	2018.0	-0.185 UA		
1019.0	0.993 MV	2019.0	1.026 MV	1020.0	1.322 MV		
2020.0	1.391 MV	1021.0	28.119 V	2021.0	28.203 V		
1022.0	28.537 V	2022.0	28.539 V				

DEVICE	4	BIN	1	HEAD	3	01:28 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.84 MV		
2001.0	1.69 MV	1002.0	-0.29 MV	2002.0	-0.48 MV		
1003.0	1.78 MV	2003.0	1.64 MV	1004.0	-0.20 NA		
2004.0	-0.09 NA	1005.0	-16.71 NA	2005.0	-16.36 NA		
1006.0	-16.51 NA	2006.0	-16.28 NA	1007.0	119.17 DB		
2007.0	113.99 DB	1008.0	82.52 DB	2008.0	82.35 DB		
1009.0	-44.293 MA	2009.0	-44.197 MA	1010.0	63.80 UA		
2010.0	63.69 UA	1011.0	16.71 MA	2011.0	16.85 MA		
1012.0	-44.19 MA	2012.0	-43.85 MA	13.0	0.732 MA		
14.0	0.466 MA	1015.0	312.93 V/MV	2015.0	312.82 V/MV		
1016.0	3.61 MV	2016.0	3.64 MV	1017.0	0.037 UA		
2017.0	0.033 UA	1018.0	-0.215 UA	2018.0	-0.203 UA		
1019.0	0.969 MV	2019.0	1.007 MV	1020.0	1.317 MV		
2020.0	1.372 MV	1021.0	28.137 V	2021.0	28.203 V		
1022.0	28.540 V	2022.0	28.539 V				

DEVICE	5	BIN	1	HEAD	3	01:28 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.64 MV		
2001.0	1.67 MV	1002.0	-0.58 MV	2002.0	-0.54 MV		
1003.0	1.58 MV	2003.0	1.63 MV	1004.0	0.03 NA		
2004.0	-0.18 NA	1005.0	-15.89 NA	2005.0	-15.79 NA		
1006.0	-15.92 NA	2006.0	-15.61 NA	1007.0	117.01 DB		
2007.0	116.90 DB	1008.0	82.18 DB	2008.0	82.20 DB		
1009.0	-44.673 MA	2009.0	-44.388 MA	1010.0	64.11 UA		
2010.0	63.58 UA	1011.0	16.47 MA	2011.0	16.61 MA		
1012.0	-44.55 MA	2012.0	-44.01 MA	13.0	0.729 MA		
14.0	0.467 MA	1015.0	310.77 V/MV	2015.0	313.60 V/MV		
1016.0	3.86 MV	2016.0	3.72 MV	1017.0	0.037 UA		
2017.0	0.031 UA	1018.0	-0.209 UA	2018.0	-0.195 UA		
1019.0	1.067 MV	2019.0	1.093 MV	1020.0	1.436 MV		
2020.0	1.448 MV	1021.0	28.131 V	2021.0	28.200 V		
1022.0	28.538 V	2022.0	28.537 V				

DEVICE	7	BIN	1	HEAD	3	01:29 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.59 MV		
2001.0	1.81 MV	1002.0	-0.64 MV	2002.0	-0.39 MV		
1003.0	1.54 MV	2003.0	1.80 MV	1004.0	-0.37 NA		
2004.0	-0.14 NA	1005.0	-16.61 NA	2005.0	-16.10 NA		
1006.0	-16.24 NA	2006.0	-15.96 NA	1007.0	120.57 DB		
2007.0	133.98 DB	1008.0	82.14 DB	2008.0	82.27 DB		
1009.0	-44.751 MA	2009.0	-44.310 MA	1010.0	65.13 UA		
2010.0	64.91 UA	1011.0	16.49 MA	2011.0	16.68 MA		
1012.0	-44.65 MA	2012.0	-43.96 MA	13.0	0.732 MA		
14.0	0.466 MA	1015.0	299.26 V/MV	2015.0	304.34 V/MV		
1016.0	3.80 MV	2016.0	3.82 MV	1017.0	0.034 UA		
2017.0	0.028 UA	1018.0	-0.219 UA	2018.0	-0.194 UA		
1019.0	1.026 MV	2019.0	1.048 MV	1020.0	1.360 MV		
2020.0	1.427 MV	1021.0	28.125 V	2021.0	28.196 V		
1022.0	28.536 V	2022.0	28.534 V				

DEVICE	8	BIN	1	HEAD	3	01:29 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.78 MV		
2001.0	1.84 MV	1002.0	-0.43 MV	2002.0	-0.28 MV		
1003.0	1.73 MV	2003.0	1.82 MV	1004.0	-0.39 NA		
2004.0	0.00 NA	1005.0	-16.42 NA	2005.0	-16.10 NA		
1006.0	-16.03 NA	2006.0	-16.10 NA	1007.0	120.27 DB		
2007.0	120.46 DB	1008.0	82.20 DB	2008.0	82.55 DB		
1009.0	-44.667 MA	2009.0	-43.717 MA	1010.0	63.00 UA		
2010.0	62.60 UA	1011.0	16.46 MA	2011.0	16.64 MA		
1012.0	-44.56 MA	2012.0	-43.38 MA	13.0	0.685 MA		
14.0	0.470 MA	1015.0	301.47 V/MV	2015.0	327.21 V/MV		
1016.0	3.89 MV	2016.0	3.72 MV	1017.0	0.036 UA		
2017.0	0.030 UA	1018.0	-0.203 UA	2018.0	-0.191 UA		
1019.0	0.990 MV	2019.0	1.007 MV	1020.0	1.355 MV		
2020.0	1.391 MV	1021.0	28.161 V	2021.0	28.196 V		
1022.0	28.535 V	2022.0	28.535 V				

DEVICE	9	BIN	1	HEAD	3	01:29 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.65 MV		
2001.0	1.78 MV	1002.0	-0.47 MV	2002.0	-0.27 MV		
1003.0	1.57 MV	2003.0	1.76 MV	1004.0	-0.12 NA		
2004.0	-0.19 NA	1005.0	-15.98 NA	2005.0	-15.82 NA		
1006.0	-15.86 NA	2006.0	-15.63 NA	1007.0	113.86 DB		
2007.0	123.50 DB	1008.0	82.55 DB	2008.0	82.84 DB		
1009.0	-44.552 MA	2009.0	-43.929 MA	1010.0	64.21 UA		
2010.0	64.23 UA	1011.0	16.69 MA	2011.0	16.89 MA		
1012.0	-44.44 MA	2012.0	-43.57 MA	13.0	0.732 MA		
14.0	0.455 MA	1015.0	292.45 V/MV	2015.0	327.86 V/MV		
1016.0	3.63 MV	2016.0	3.57 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.211 UA	2018.0	-0.196 UA		
1019.0	0.962 MV	2019.0	1.122 MV	1020.0	1.360 MV		
2020.0	1.458 MV	1021.0	28.131 V	2021.0	28.204 V		
1022.0	28.542 V	2022.0	28.541 V				

3k

9U1129F019

DEVICE	1	BIN	1	HEAD	3	01:36 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.85 MV		
2001.0	1.75 MV	1002.0	-0.20 MV	2002.0	-0.38 MV		
1003.0	1.78 MV	2003.0	1.70 MV	1004.0	-0.23 NA		
2004.0	-0.10 NA	1005.0	-16.47 NA	2005.0	-16.20 NA		
1006.0	-16.24 NA	2006.0	-16.10 NA	1007.0	113.82 DB		
2007.0	114.75 DB	1008.0	82.84 DB	2008.0	82.53 DB		
1009.0	-43.942 MA	2009.0	-43.394 MA	1010.0	64.43 UA		
2010.0	64.20 UA	1011.0	16.87 MA	2011.0	17.04 MA		
1012.0	-43.84 MA	2012.0	-43.05 MA	13.0	0.735 MA		
14.0	0.455 MA	1015.0	293.90 V/MV	2015.0	340.48 V/MV		
1016.0	3.53 MV	2016.0	3.55 MV	1017.0	0.034 UA		
2017.0	0.029 UA	1018.0	-0.210 UA	2018.0	-0.197 UA		
1019.0	1.038 MV	2019.0	1.143 MV	1020.0	1.427 MV		
2020.0	1.468 MV	1021.0	28.171 V	2021.0	28.207 V		
1022.0	28.549 V	2022.0	28.548 V				

DEVICE	2	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.89 MV		
2001.0	1.66 MV	1002.0	-0.26 MV	2002.0	-0.51 MV		
1003.0	1.82 MV	2003.0	1.62 MV	1004.0	0.02 NA		
2004.0	-0.21 NA	1005.0	-16.34 NA	2005.0	-16.36 NA		
1006.0	-16.36 NA	2006.0	-16.16 NA	1007.0	114.26 DB		
2007.0	114.47 DB	1008.0	82.45 DB	2008.0	82.38 DB		
1009.0	-44.499 MA	2009.0	-43.976 MA	1010.0	63.97 UA		
2010.0	63.93 UA	1011.0	16.71 MA	2011.0	16.78 MA		
1012.0	-44.38 MA	2012.0	-43.62 MA	13.0	0.732 MA		
14.0	0.476 MA	1015.0	301.52 V/MV	2015.0	330.03 V/MV		
1016.0	3.73 MV	2016.0	3.69 MV	1017.0	0.035 UA		
2017.0	0.030 UA	1018.0	-0.217 UA	2018.0	-0.197 UA		
1019.0	0.990 MV	2019.0	1.086 MV	1020.0	1.420 MV		
2020.0	1.448 MV	1021.0	28.141 V	2021.0	28.205 V		
1022.0	28.544 V	2022.0	28.543 V				

DEVICE	3	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.81 MV		
2001.0	1.64 MV	1002.0	-0.37 MV	2002.0	-0.52 MV		
1003.0	1.76 MV	2003.0	1.62 MV	1004.0	-0.37 NA		
2004.0	-0.37 NA	1005.0	-19.04 NA	2005.0	-18.82 NA		
1006.0	-18.67 NA	2006.0	-18.45 NA	1007.0	121.93 DB		
2007.0	128.08 DB	1008.0	82.32 DB	2008.0	82.43 DB		
1009.0	-44.661 MA	2009.0	-44.015 MA	1010.0	63.55 UA		
2010.0	63.73 UA	1011.0	16.41 MA	2011.0	16.55 MA		
1012.0	-44.52 MA	2012.0	-43.63 MA	13.0	0.735 MA		
14.0	0.476 MA	1015.0	300.36 V/MV	2015.0	327.83 V/MV		
1016.0	3.80 MV	2016.0	3.84 MV	1017.0	0.034 UA		
2017.0	0.030 UA	1018.0	-0.212 UA	2018.0	-0.205 UA		
1019.0	1.114 MV	2019.0	1.143 MV	1020.0	1.427 MV		
2020.0	1.468 MV	1021.0	28.141 V	2021.0	28.209 V		
1022.0	28.548 V	2022.0	28.548 V				

DEVICE	4	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.81 MV		
2001.0	1.68 MV	1002.0	-0.31 MV	2002.0	-0.50 MV		
1003.0	1.75 MV	2003.0	1.62 MV	1004.0	-0.07 NA		
2004.0	-0.23 NA	1005.0	-19.32 NA	2005.0	-19.16 NA		
1006.0	-19.25 NA	2006.0	-18.93 NA	1007.0	116.85 DB		
2007.0	112.37 DB	1008.0	82.57 DB	2008.0	82.33 DB		
1009.0	-43.988 MA	2009.0	-43.888 MA	1010.0	63.38 UA		
2010.0	63.30 UA	1011.0	16.58 MA	2011.0	16.70 MA		
1012.0	-43.87 MA	2012.0	-43.54 MA	13.0	0.718 MA		
14.0	0.467 MA	1015.0	282.65 V/MV	2015.0	308.45 V/MV		
1016.0	3.69 MV	2016.0	3.68 MV	1017.0	0.036 UA		
2017.0	0.031 UA	1018.0	-0.215 UA	2018.0	-0.206 UA		
1019.0	1.026 MV	2019.0	1.064 MV	1020.0	1.391 MV		
2020.0	1.360 MV	1021.0	28.147 V	2021.0	28.209 V		
1022.0	28.548 V	2022.0	28.548 V				

DEVICE	5	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.61 MV		
2001.0	1.66 MV	1002.0	-0.60 MV	2002.0	-0.55 MV		
1003.0	1.55 MV	2003.0	1.61 MV	1004.0	0.10 NA		
2004.0	-0.22 NA	1005.0	-18.53 NA	2005.0	-18.61 NA		
1006.0	-18.63 NA	2006.0	-18.39 NA	1007.0	115.33 DB		
2007.0	114.31 DB	1008.0	82.22 DB	2008.0	82.21 DB		
1009.0	-44.372 MA	2009.0	-44.091 MA	1010.0	63.71 UA		
2010.0	63.19 UA	1011.0	16.35 MA	2011.0	16.47 MA		
1012.0	-44.26 MA	2012.0	-43.71 MA	13.0	0.723 MA		
14.0	0.465 MA	1015.0	315.17 V/MV	2015.0	306.85 V/MV		
1016.0	3.78 MV	2016.0	3.92 MV	1017.0	0.036 UA		
2017.0	0.032 UA	1018.0	-0.219 UA	2018.0	-0.210 UA		
1019.0	1.114 MV	2019.0	1.169 MV	1020.0	1.475 MV		
2020.0	1.484 MV	1021.0	28.152 V	2021.0	28.206 V		
1022.0	28.545 V	2022.0	28.546 V				

DEVICE	7	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.55 MV		
2001.0	1.78 MV	1002.0	-0.67 MV	2002.0	-0.42 MV		
1003.0	1.49 MV	2003.0	1.77 MV	1004.0	-0.31 NA		
2004.0	-0.16 NA	1005.0	-19.48 NA	2005.0	-18.95 NA		
1006.0	-19.17 NA	2006.0	-18.80 NA	1007.0	117.94 DB		
2007.0	123.69 DB	1008.0	82.14 DB	2008.0	82.25 DB		
1009.0	-44.420 MA	2009.0	-43.985 MA	1010.0	64.70 UA		
2010.0	64.50 UA	1011.0	16.35 MA	2011.0	16.53 MA		
1012.0	-44.33 MA	2012.0	-43.63 MA	13.0	0.732 MA		
14.0	0.455 MA	1015.0	298.79 V/MV	2015.0	307.77 V/MV		
1016.0	3.86 MV	2016.0	3.82 MV	1017.0	0.036 UA		
2017.0	0.031 UA	1018.0	-0.210 UA	2018.0	-0.197 UA		
1019.0	0.978 MV	2019.0	1.131 MV	1020.0	1.484 MV		
2020.0	1.572 MV	1021.0	28.139 V	2021.0	28.202 V		
1022.0	28.544 V	2022.0	28.541 V				

DEVICE	8	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.75 MV		
2001.0	1.82 MV	1002.0	-0.45 MV	2002.0	-0.30 MV		
1003.0	1.70 MV	2003.0	1.78 MV	1004.0	-0.33 NA		
2004.0	-0.25 NA	1005.0	-18.87 NA	2005.0	-18.73 NA		
1006.0	-18.54 NA	2006.0	-18.47 NA	1007.0	118.58 DB		
2007.0	117.41 DB	1008.0	82.22 DB	2008.0	82.54 DB		
1009.0	-44.349 MA	2009.0	-43.404 MA	1010.0	62.61 UA		
2010.0	62.21 UA	1011.0	16.33 MA	2011.0	16.50 MA		
1012.0	-44.23 MA	2012.0	-43.06 MA	13.0	0.715 MA		
14.0	0.448 MA	1015.0	310.08 V/MV	2015.0	294.12 V/MV		
1016.0	3.95 MV	2016.0	3.92 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.226 UA	2018.0	-0.200 UA		
1019.0	1.076 MV	2019.0	1.103 MV	1020.0	1.482 MV		
2020.0	1.546 MV	1021.0	28.133 V	2021.0	28.202 V		
1022.0	28.543 V	2022.0	28.544 V				

DEVICE	9	BIN	1	HEAD	3	01:37 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.62 MV		
2001.0	1.76 MV	1002.0	-0.48 MV	2002.0	-0.29 MV		
1003.0	1.54 MV	2003.0	1.74 MV	1004.0	-0.08 NA		
2004.0	-0.39 NA	1005.0	-19.16 NA	2005.0	-19.10 NA		
1006.0	-19.09 NA	2006.0	-18.71 NA	1007.0	113.44 DB		
2007.0	118.67 DB	1008.0	82.62 DB	2008.0	82.85 DB		
1009.0	-44.275 MA	2009.0	-43.651 MA	1010.0	63.75 UA		
2010.0	63.75 UA	1011.0	16.56 MA	2011.0	16.74 MA		
1012.0	-44.16 MA	2012.0	-43.29 MA	13.0	0.743 MA		
14.0	0.470 MA	1015.0	279.45 V/MV	2015.0	330.80 V/MV		
1016.0	3.79 MV	2016.0	3.72 MV	1017.0	0.036 UA		
2017.0	0.029 UA	1018.0	-0.213 UA	2018.0	-0.198 UA		
1019.0	0.969 MV	2019.0	1.131 MV	1020.0	1.448 MV		
2020.0	1.508 MV	1021.0	28.169 V	2021.0	28.208 V		
1022.0	28.549 V	2022.0	28.548 V				

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DEVICE	1	BIN	1	HEAD	3	01:46 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.86 MV		
2001.0	1.75 MV	1002.0	-0.20 MV	2002.0	-0.38 MV		
1003.0	1.78 MV	2003.0	1.70 MV	1004.0	-0.17 NA		
2004.0	-0.11 NA	1005.0	-16.44 NA	2005.0	-16.16 NA		
1006.0	-16.27 NA	2006.0	-16.04 NA	1007.0	113.77 DB		
2007.0	114.61 DB	1008.0	82.83 DB	2008.0	82.54 DB		
1009.0	-43.908 MA	2009.0	-43.362 MA	1010.0	64.45 UA		
2010.0	64.24 UA	1011.0	16.87 MA	2011.0	17.03 MA		
1012.0	-43.81 MA	2012.0	-43.02 MA	13.0	0.732 MA		
14.0	0.470 MA	1015.0	289.66 V/MV	2015.0	329.68 V/MV		
1016.0	3.42 MV	2016.0	3.50 MV	1017.0	0.038 UA		
2017.0	0.029 UA	1018.0	-0.210 UA	2018.0	-0.199 UA		
1019.0	1.055 MV	2019.0	1.103 MV	1020.0	1.408 MV		
2020.0	1.427 MV	1021.0	28.141 V	2021.0	28.208 V		
1022.0	28.550 V	2022.0	28.549 V				

DEVICE	2	BIN	1	HEAD	3	01:46 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.89 MV		
2001.0	1.67 MV	1002.0	-0.27 MV	2002.0	-0.51 MV		
1003.0	1.83 MV	2003.0	1.61 MV	1004.0	0.16 NA		
2004.0	-0.21 NA	1005.0	-16.32 NA	2005.0	-16.28 NA		
1006.0	-16.48 NA	2006.0	-16.07 NA	1007.0	114.68 DB		
2007.0	113.98 DB	1008.0	82.42 DB	2008.0	82.35 DB		
1009.0	-44.409 MA	2009.0	-43.886 MA	1010.0	64.05 UA		
2010.0	64.01 UA	1011.0	16.69 MA	2011.0	16.76 MA		
1012.0	-44.29 MA	2012.0	-43.53 MA	13.0	0.735 MA		
14.0	0.466 MA	1015.0	292.57 V/MV	2015.0	328.10 V/MV		
1016.0	3.61 MV	2016.0	3.63 MV	1017.0	0.036 UA		
2017.0	0.032 UA	1018.0	-0.210 UA	2018.0	-0.198 UA		
1019.0	0.897 MV	2019.0	1.050 MV	1020.0	1.382 MV		
2020.0	1.448 MV	1021.0	28.145 V	2021.0	28.208 V		
1022.0	28.546 V	2022.0	28.546 V				

DEVICE	3	BIN	1	HEAD	3	01:46 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.76 MV		
2001.0	1.58 MV	1002.0	-0.40 MV	2002.0	-0.55 MV		
1003.0	1.71 MV	2003.0	1.56 MV	1004.0	-0.33 NA		
2004.0	-0.34 NA	1005.0	-24.29 NA	2005.0	-24.18 NA		
1006.0	-23.96 NA	2006.0	-23.84 NA	1007.0	120.61 DB		
2007.0	125.70 DB	1008.0	82.42 DB	2008.0	82.55 DB		
1009.0	-44.563 MA	2009.0	-43.925 MA	1010.0	62.77 UA		
2010.0	62.97 UA	1011.0	16.25 MA	2011.0	16.40 MA		
1012.0	-44.44 MA	2012.0	-43.55 MA	13.0	0.732 MA		
14.0	0.470 MA	1015.0	283.50 V/MV	2015.0	320.63 V/MV		
1016.0	4.03 MV	2016.0	3.97 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.227 UA	2018.0	-0.205 UA		
1019.0	1.122 MV	2019.0	1.255 MV	1020.0	1.484 MV		
2020.0	1.560 MV	1021.0	28.145 V	2021.0	28.210 V		
1022.0	28.548 V	2022.0	28.548 V				

DEVICE	4	BIN	1	HEAD	3	01:46 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.75 MV		
2001.0	1.62 MV	1002.0	-0.36 MV	2002.0	-0.54 MV		
1003.0	1.68 MV	2003.0	1.55 MV	1004.0	-0.15 NA		
2004.0	-0.30 NA	1005.0	-24.31 NA	2005.0	-24.12 NA		
1006.0	-24.16 NA	2006.0	-23.81 NA	1007.0	115.77 DB		
2007.0	111.46 DB	1008.0	82.62 DB	2008.0	82.40 DB		
1009.0	-43.958 MA	2009.0	-43.858 MA	1010.0	62.61 UA		
2010.0	62.50 UA	1011.0	16.43 MA	2011.0	16.56 MA		
1012.0	-43.84 MA	2012.0	-43.51 MA	13.0	0.716 MA		
14.0	0.455 MA	1015.0	294.72 V/MV	2015.0	289.27 V/MV		
1016.0	3.77 MV	2016.0	3.84 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.218 UA	2018.0	-0.210 UA		
1019.0	1.114 MV	2019.0	1.179 MV	1020.0	1.506 MV		
2020.0	1.543 MV	1021.0	28.146 V	2021.0	28.207 V		
1022.0	28.548 V	2022.0	28.547 V				

DEVICE	5	BIN	1	HEAD	3	01:47 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.55 MV		
2001.0	1.61 MV	1002.0	-0.63 MV	2002.0	-0.59 MV		
1003.0	1.49 MV	2003.0	1.55 MV	1004.0	0.12 NA		
2004.0	-0.30 NA	1005.0	-23.22 NA	2005.0	-23.38 NA		
1006.0	-23.34 NA	2006.0	-23.09 NA	1007.0	114.43 DB		
2007.0	113.17 DB	1008.0	82.30 DB	2008.0	82.28 DB		
1009.0	-44.351 MA	2009.0	-44.066 MA	1010.0	62.91 UA		
2010.0	62.39 UA	1011.0	16.20 MA	2011.0	16.34 MA		
1012.0	-44.23 MA	2012.0	-43.69 MA	13.0	0.723 MA		
14.0	0.470 MA	1015.0	316.58 V/MV	2015.0	306.78 V/MV		
1016.0	3.97 MV	2016.0	3.99 MV	1017.0	0.035 UA		
2017.0	0.032 UA	1018.0	-0.218 UA	2018.0	-0.210 UA		
1019.0	1.048 MV	2019.0	1.143 MV	1020.0	1.484 MV		
2020.0	1.527 MV	1021.0	28.143 V	2021.0	28.205 V		
1022.0	28.545 V	2022.0	28.544 V				

DEVICE	7	BIN	1	HEAD	3	01:47 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.48 MV		
2001.0	1.72 MV	1002.0	-0.72 MV	2002.0	-0.47 MV		
1003.0	1.43 MV	2003.0	1.69 MV	1004.0	-0.45 NA		
2004.0	-0.32 NA	1005.0	-24.45 NA	2005.0	-24.02 NA		
1006.0	-24.00 NA	2006.0	-23.70 NA	1007.0	116.79 DB		
2007.0	121.78 DB	1008.0	82.26 DB	2008.0	82.30 DB		
1009.0	-44.408 MA	2009.0	-43.974 MA	1010.0	63.85 UA		
2010.0	63.68 UA	1011.0	16.21 MA	2011.0	16.40 MA		
1012.0	-44.31 MA	2012.0	-43.62 MA	13.0	0.716 MA		
14.0	0.464 MA	1015.0	295.07 V/MV	2015.0	304.20 V/MV		
1016.0	3.97 MV	2016.0	3.99 MV	1017.0	0.034 UA		
2017.0	0.032 UA	1018.0	-0.226 UA	2018.0	-0.205 UA		
1019.0	1.067 MV	2019.0	1.191 MV	1020.0	1.513 MV		
2020.0	1.603 MV	1021.0	28.139 V	2021.0	28.201 V		
1022.0	28.543 V	2022.0	28.540 V				

DEVICE	8	BIN	1	HEAD	3	01:47 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.69 MV		
2001.0	1.76 MV	1002.0	-0.49 MV	2002.0	-0.35 MV		
1003.0	1.63 MV	2003.0	1.72 MV	1004.0	-0.41 NA		
2004.0	-0.12 NA	1005.0	-23.59 NA	2005.0	-23.19 NA		
1006.0	-23.18 NA	2006.0	-23.07 NA	1007.0	116.51 DB		
2007.0	116.38 DB	1008.0	82.30 DB	2008.0	82.59 DB		
1009.0	-44.331 MA	2009.0	-43.390 MA	1010.0	61.84 UA		
2010.0	61.46 UA	1011.0	16.19 MA	2011.0	16.36 MA		
1012.0	-44.22 MA	2012.0	-43.05 MA	13.0	0.697 MA		
14.0	0.464 MA	1015.0	311.85 V/MV	2015.0	304.08 V/MV		
1016.0	3.99 MV	2016.0	3.99 MV	1017.0	0.037 UA		
2017.0	0.030 UA	1018.0	-0.229 UA	2018.0	-0.196 UA		
1019.0	1.026 MV	2019.0	1.122 MV	1020.0	1.503 MV		
2020.0	1.506 MV	1021.0	28.162 V	2021.0	28.202 V		
1022.0	28.543 V	2022.0	28.543 V				

DEVICE	9	BIN	1	HEAD	3	01:47 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.57 MV		
2001.0	1.71 MV	1002.0	-0.51 MV	2002.0	-0.33 MV		
1003.0	1.49 MV	2003.0	1.67 MV	1004.0	0.02 NA		
2004.0	-0.47 NA	1005.0	-24.74 NA	2005.0	-24.67 NA		
1006.0	-24.76 NA	2006.0	-24.20 NA	1007.0	112.83 DB		
2007.0	117.72 DB	1008.0	82.72 DB	2008.0	82.91 DB		
1009.0	-44.263 MA	2009.0	-43.638 MA	1010.0	62.84 UA		
2010.0	62.84 UA	1011.0	16.41 MA	2011.0	16.60 MA		
1012.0	-44.15 MA	2012.0	-43.28 MA	13.0	0.732 MA		
14.0	0.477 MA	1015.0	299.34 V/MV	2015.0	310.24 V/MV		
1016.0	3.72 MV	2016.0	3.78 MV	1017.0	0.037 UA		
2017.0	0.030 UA	1018.0	-0.229 UA	2018.0	-0.205 UA		
1019.0	1.122 MV	2019.0	1.220 MV	1020.0	1.551 MV		
2020.0	1.579 MV	1021.0	28.149 V	2021.0	28.208 V		
1022.0	28.549 V	2022.0	28.549 V				

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DEVICE	1	BIN	1	HEAD	3	02:00 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.86 MV		
2001.0	1.75 MV	1002.0	-0.21 MV	2002.0	-0.38 MV		
1003.0	1.79 MV	2003.0	1.70 MV	1004.0	-0.29 NA		
2004.0	-0.06 NA	1005.0	-16.48 NA	2005.0	-16.18 NA		
1006.0	-16.19 NA	2006.0	-16.12 NA	1007.0	113.53 DB		
2007.0	114.40 DB	1008.0	82.78 DB	2008.0	82.51 DB		
1009.0	-43.852 MA	2009.0	-43.305 MA	1010.0	64.48 UA		
2010.0	64.27 UA	1011.0	16.85 MA	2011.0	17.02 MA		
1012.0	-43.75 MA	2012.0	-42.97 MA	13.0	0.732 MA		
14.0	0.477 MA	1015.0	295.98 V/MV	2015.0	327.71 V/MV		
1016.0	3.51 MV	2016.0	3.49 MV	1017.0	0.036 UA		
2017.0	0.031 UA	1018.0	-0.215 UA	2018.0	-0.195 UA		
1019.0	1.007 MV	2019.0	1.088 MV	1020.0	1.350 MV		
2020.0	1.343 MV	1021.0	28.138 V	2021.0	28.211 V		
1022.0	28.551 V	2022.0	28.551 V				

DEVICE	2	BIN	1	HEAD	3	02:00 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.89 MV		
2001.0	1.66 MV	1002.0	-0.26 MV	2002.0	-0.51 MV		
1003.0	1.83 MV	2003.0	1.62 MV	1004.0	0.03 NA		
2004.0	-0.07 NA	1005.0	-16.48 NA	2005.0	-16.29 NA		
1006.0	-16.51 NA	2006.0	-16.21 NA	1007.0	114.66 DB		
2007.0	114.36 DB	1008.0	82.44 DB	2008.0	82.34 DB		
1009.0	-44.449 MA	2009.0	-43.932 MA	1010.0	64.01 UA		
2010.0	63.98 UA	1011.0	16.70 MA	2011.0	16.77 MA		
1012.0	-44.33 MA	2012.0	-43.57 MA	13.0	0.737 MA		
14.0	0.466 MA	1015.0	301.17 V/MV	2015.0	318.88 V/MV		
1016.0	3.59 MV	2016.0	3.69 MV	1017.0	0.038 UA		
2017.0	0.032 UA	1018.0	-0.206 UA	2018.0	-0.198 UA		
1019.0	0.969 MV	2019.0	1.122 MV	1020.0	1.448 MV		
2020.0	1.458 MV	1021.0	28.156 V	2021.0	28.205 V		
1022.0	28.544 V	2022.0	28.544 V				

DEVICE	3	BIN	1	HEAD	3	02:00 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.63 MV		
2001.0	1.46 MV	1002.0	-0.51 MV	2002.0	-0.66 MV		
1003.0	1.58 MV	2003.0	1.44 MV	1004.0	-0.44 NA		
2004.0	-0.28 NA	1005.0	-32.72 NA	2005.0	-32.35 NA		
1006.0	-32.28 NA	2006.0	-32.08 NA	1007.0	124.34 DB		
2007.0	126.01 DB	1008.0	82.47 DB	2008.0	82.59 DB		
1009.0	-44.493 MA	2009.0	-43.853 MA	1010.0	69.69 UA		
2010.0	70.53 UA	1011.0	16.00 MA	2011.0	16.16 MA		
1012.0	-44.37 MA	2012.0	-43.48 MA	13.0	0.743 MA		
14.0	0.476 MA	1015.0	276.04 V/MV	2015.0	314.28 V/MV		
1016.0	3.86 MV	2016.0	3.69 MV	1017.0	0.033 UA		
2017.0	0.030 UA	1018.0	-0.236 UA	2018.0	-0.226 UA		
1019.0	1.207 MV	2019.0	1.296 MV	1020.0	1.560 MV		
2020.0	1.544 MV	1021.0	28.149 V	2021.0	28.208 V		
1022.0	28.547 V	2022.0	28.546 V				

DEVICE	4	BIN	1	HEAD	3	02:00 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.62 MV		
2001.0	1.49 MV	1002.0	-0.47 MV	2002.0	-0.66 MV		
1003.0	1.56 MV	2003.0	1.42 MV	1004.0	-0.36 NA		
2004.0	-0.11 NA	1005.0	-32.34 NA	2005.0	-32.01 NA		
1006.0	-31.98 NA	2006.0	-31.90 NA	1007.0	116.02 DB		
2007.0	111.84 DB	1008.0	82.69 DB	2008.0	82.46 DB		
1009.0	-43.832 MA	2009.0	-43.729 MA	1010.0	70.95 UA		
2010.0	70.35 UA	1011.0	16.18 MA	2011.0	16.30 MA		
1012.0	-43.72 MA	2012.0	-43.38 MA	13.0	0.732 MA		
14.0	0.484 MA	1015.0	287.93 V/MV	2015.0	292.65 V/MV		
1016.0	3.66 MV	2016.0	3.66 MV	1017.0	0.036 UA		
2017.0	0.031 UA	1018.0	-0.243 UA	2018.0	-0.225 UA		
1019.0	1.238 MV	2019.0	1.255 MV	1020.0	1.544 MV		
2020.0	1.427 MV	1021.0	28.145 V	2021.0	28.207 V		
1022.0	28.545 V	2022.0	28.545 V				

DEVICE	5	BIN	1	HEAD	3	02:01 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.43 MV		
2001.0	1.47 MV	1002.0	-0.74 MV	2002.0	-0.72 MV		
1003.0	1.37 MV	2003.0	1.43 MV	1004.0	0.23 NA		
2004.0	-0.61 NA	1005.0	-30.80 NA	2005.0	-31.35 NA		
1006.0	-31.04 NA	2006.0	-30.74 NA	1007.0	116.02 DB		
2007.0	114.54 DB	1008.0	82.37 DB	2008.0	82.30 DB		
1009.0	-44.221 MA	2009.0	-43.939 MA	1010.0	68.72 UA		
2010.0	68.87 UA	1011.0	15.96 MA	2011.0	16.10 MA		
1012.0	-44.11 MA	2012.0	-43.56 MA	13.0	0.732 MA		
14.0	0.477 MA	1015.0	300.55 V/MV	2015.0	320.60 V/MV		
1016.0	3.80 MV	2016.0	3.91 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.237 UA	2018.0	-0.224 UA		
1019.0	1.220 MV	2019.0	1.427 MV	1020.0	1.637 MV		
2020.0	1.610 MV	1021.0	28.139 V	2021.0	28.205 V		
1022.0	28.544 V	2022.0	28.544 V				

DEVICE	7	BIN	1	HEAD	3	02:01 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.34 MV		
2001.0	1.59 MV	1002.0	-0.85 MV	2002.0	-0.58 MV		
1003.0	1.29 MV	2003.0	1.57 MV	1004.0	-0.43 NA		
2004.0	-0.43 NA	1005.0	-32.42 NA	2005.0	-32.02 NA		
1006.0	-31.98 NA	2006.0	-31.59 NA	1007.0	117.09 DB		
2007.0	123.43 DB	1008.0	82.29 DB	2008.0	82.36 DB		
1009.0	-44.262 MA	2009.0	-43.824 MA	1010.0	72.98 UA		
2010.0	73.48 UA	1011.0	15.96 MA	2011.0	16.15 MA		
1012.0	-44.15 MA	2012.0	-43.47 MA	13.0	0.751 MA		
14.0	0.500 MA	1015.0	293.87 V/MV	2015.0	309.46 V/MV		
1016.0	3.66 MV	2016.0	3.80 MV	1017.0	0.035 UA		
2017.0	0.030 UA	1018.0	-0.241 UA	2018.0	-0.227 UA		
1019.0	1.238 MV	2019.0	1.284 MV	1020.0	1.589 MV		
2020.0	1.579 MV	1021.0	28.140 V	2021.0	28.201 V		
1022.0	28.543 V	2022.0	28.539 V				

DEVICE	8	BIN	1	HEAD	3	02:01 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.55 MV		
2001.0	1.60 MV	1002.0	-0.63 MV	2002.0	-0.50 MV		
1003.0	1.49 MV	2003.0	1.57 MV	1004.0	-0.52 NA		
2004.0	-0.20 NA	1005.0	-30.89 NA	2005.0	-30.38 NA		
1006.0	-30.38 NA	2006.0	-30.18 NA	1007.0	117.34 DB		
2007.0	116.38 DB	1008.0	82.31 DB	2008.0	82.63 DB		
1009.0	-44.220 MA	2009.0	-43.282 MA	1010.0	72.67 UA		
2010.0	70.72 UA	1011.0	15.96 MA	2011.0	16.13 MA		
1012.0	-44.10 MA	2012.0	-42.93 MA	13.0	0.729 MA		
14.0	0.484 MA	1015.0	288.99 V/MV	2015.0	314.77 V/MV		
1016.0	3.68 MV	2016.0	3.74 MV	1017.0	0.034 UA		
2017.0	0.029 UA	1018.0	-0.229 UA	2018.0	-0.217 UA		
1019.0	1.245 MV	2019.0	1.220 MV	1020.0	1.560 MV		
2020.0	1.543 MV	1021.0	28.144 V	2021.0	28.201 V		
1022.0	28.541 V	2022.0	28.540 V				

DEVICE	9	BIN	1	HEAD	3	02:01 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.44 MV		
2001.0	1.59 MV	1002.0	-0.62 MV	2002.0	-0.45 MV		
1003.0	1.37 MV	2003.0	1.55 MV	1004.0	-0.11 NA		
2004.0	-0.37 NA	1005.0	-33.63 NA	2005.0	-33.70 NA		
1006.0	-33.52 NA	2006.0	-33.33 NA	1007.0	113.93 DB		
2007.0	118.45 DB	1008.0	82.81 DB	2008.0	82.94 DB		
1009.0	-44.131 MA	2009.0	-43.513 MA	1010.0	67.31 UA		
2010.0	67.14 UA	1011.0	16.12 MA	2011.0	16.33 MA		
1012.0	-44.01 MA	2012.0	-43.15 MA	13.0	0.723 MA		
14.0	0.466 MA	1015.0	286.13 V/MV	2015.0	317.14 V/MV		
1016.0	3.72 MV	2016.0	3.84 MV	1017.0	0.034 UA		
2017.0	0.030 UA	1018.0	-0.232 UA	2018.0	-0.230 UA		
1019.0	1.255 MV	2019.0	1.372 MV	1020.0	1.665 MV		
2020.0	1.637 MV	1021.0	28.146 V	2021.0	28.208 V		
1022.0	28.548 V	2022.0	28.548 V				

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DEVICE	1	BIN	1	HEAD	3	02:15 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.86 MV		
2001.0	1.75 MV	1002.0	-0.20 MV	2002.0	-0.39 MV		
1003.0	1.79 MV	2003.0	1.70 MV	1004.0	-0.24 NA		
2004.0	-0.01 NA	1005.0	-16.44 NA	2005.0	-16.17 NA		
1006.0	-16.19 NA	2006.0	-16.16 NA	1007.0	113.57 DB		
2007.0	114.36 DB	1008.0	82.84 DB	2008.0	82.53 DB		
1009.0	-43.890 MA	2009.0	-43.341 MA	1010.0	64.45 UA		
2010.0	64.23 UA	1011.0	16.86 MA	2011.0	17.03 MA		
1012.0	-43.79 MA	2012.0	-43.01 MA	13.0	0.729 MA		
14.0	0.466 MA	1015.0	279.62 V/MV	2015.0	340.99 V/MV		
1016.0	3.44 MV	2016.0	3.56 MV	1017.0	0.036 UA		
2017.0	0.028 UA	1018.0	-0.213 UA	2018.0	-0.192 UA		
1019.0	1.007 MV	2019.0	1.088 MV	1020.0	1.350 MV		
2020.0	1.348 MV	1021.0	28.146 V	2021.0	28.208 V		
1022.0	28.550 V	2022.0	28.550 V				

DEVICE	2	BIN	1	HEAD	3	02:15 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.90 MV		
2001.0	1.66 MV	1002.0	-0.26 MV	2002.0	-0.51 MV		
1003.0	1.83 MV	2003.0	1.61 MV	1004.0	-0.08 NA		
2004.0	-0.26 NA	1005.0	-16.42 NA	2005.0	-16.36 NA		
1006.0	-16.34 NA	2006.0	-16.11 NA	1007.0	114.51 DB		
2007.0	114.25 DB	1008.0	82.39 DB	2008.0	82.33 DB		
1009.0	-44.412 MA	2009.0	-43.892 MA	1010.0	64.03 UA		
2010.0	64.00 UA	1011.0	16.69 MA	2011.0	16.76 MA		
1012.0	-44.30 MA	2012.0	-43.53 MA	13.0	0.729 MA		
14.0	0.455 MA	1015.0	288.70 V/MV	2015.0	317.55 V/MV		
1016.0	3.66 MV	2016.0	3.63 MV	1017.0	0.035 UA		
2017.0	0.028 UA	1018.0	-0.215 UA	2018.0	-0.199 UA		
1019.0	0.990 MV	2019.0	1.062 MV	1020.0	1.312 MV		
2020.0	1.372 MV	1021.0	28.140 V	2021.0	28.207 V		
1022.0	28.546 V	2022.0	28.545 V				

DEVICE	3	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.53 MV		
2001.0	1.36 MV	1002.0	-0.61 MV	2002.0	-0.76 MV		
1003.0	1.49 MV	2003.0	1.34 MV	1004.0	-0.34 NA		
2004.0	-0.20 NA	1005.0	-37.69 NA	2005.0	-37.39 NA		
1006.0	-37.35 NA	2006.0	-37.19 NA	1007.0	127.38 DB		
2007.0	129.82 DB	1008.0	82.49 DB	2008.0	82.60 DB		
1009.0	-44.479 MA	2009.0	-43.836 MA	1010.0	103.18 UA		
2010.0	104.54 UA	1011.0	15.95 MA	2011.0	16.12 MA		
1012.0	-44.26 MA	2012.0	-43.36 MA	13.0	0.961 MA		
14.0	0.676 MA	1015.0	303.60 V/MV	2015.0	359.60 V/MV		
1016.0	3.17 MV	2016.0	3.26 MV	1017.0	0.033 UA		
2017.0	0.028 UA	1018.0	-0.245 UA	2018.0	-0.234 UA		
1019.0	1.322 MV	2019.0	1.425 MV	1020.0	1.544 MV		
2020.0	1.448 MV	1021.0	28.145 V	2021.0	28.202 V		
1022.0	28.536 V	2022.0	28.536 V				

DEVICE	4	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.52 MV		
2001.0	1.37 MV	1002.0	-0.58 MV	2002.0	-0.77 MV		
1003.0	1.45 MV	2003.0	1.31 MV	1004.0	-0.28 NA		
2004.0	-0.29 NA	1005.0	-36.94 NA	2005.0	-36.78 NA		
1006.0	-36.66 NA	2006.0	-36.49 NA	1007.0	116.39 DB		
2007.0	112.22 DB	1008.0	82.68 DB	2008.0	82.49 DB		
1009.0	-43.838 MA	2009.0	-43.734 MA	1010.0	105.45 UA		
2010.0	104.31 UA	1011.0	16.15 MA	2011.0	16.27 MA		
1012.0	-43.62 MA	2012.0	-43.29 MA	13.0	0.952 MA		
14.0	0.685 MA	1015.0	317.70 V/MV	2015.0	312.53 V/MV		
1016.0	3.11 MV	2016.0	3.15 MV	1017.0	0.034 UA		
2017.0	0.030 UA	1018.0	-0.243 UA	2018.0	-0.230 UA		
1019.0	1.267 MV	2019.0	1.355 MV	1020.0	1.408 MV		
2020.0	1.458 MV	1021.0	28.141 V	2021.0	28.200 V		
1022.0	28.535 V	2022.0	28.535 V				

DEVICE	5	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.33 MV		
2001.0	1.37 MV	1002.0	-0.85 MV	2002.0	-0.80 MV		
1003.0	1.27 MV	2003.0	1.33 MV	1004.0	0.16 NA		
2004.0	-0.80 NA	1005.0	-35.43 NA	2005.0	-35.90 NA		
1006.0	-35.59 NA	2006.0	-35.10 NA	1007.0	117.04 DB		
2007.0	114.60 DB	1008.0	82.36 DB	2008.0	82.36 DB		
1009.0	-44.211 MA	2009.0	-43.925 MA	1010.0	101.17 UA		
2010.0	102.14 UA	1011.0	15.92 MA	2011.0	16.05 MA		
1012.0	-44.01 MA	2012.0	-43.47 MA	13.0	0.924 MA		
14.0	0.653 MA	1015.0	321.75 V/MV	2015.0	332.08 V/MV		
1016.0	3.11 MV	2016.0	3.19 MV	1017.0	0.035 UA		
2017.0	0.029 UA	1018.0	-0.245 UA	2018.0	-0.170 UA		
1019.0	1.296 MV	2019.0	1.312 MV	1020.0	1.427 MV		
2020.0	1.475 MV	1021.0	28.157 V	2021.0	28.197 V		
1022.0	28.536 V	2022.0	28.535 V				

DEVICE	7	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.22 MV		
2001.0	1.47 MV	1002.0	-0.97 MV	2002.0	-0.70 MV		
1003.0	1.17 MV	2003.0	1.45 MV	1004.0	-0.67 NA		
2004.0	-0.61 NA	1005.0	-37.02 NA	2005.0	-36.78 NA		
1006.0	-36.36 NA	2006.0	-36.18 NA	1007.0	119.40 DB		
2007.0	124.35 DB	1008.0	82.28 DB	2008.0	82.40 DB		
1009.0	-44.279 MA	2009.0	-43.844 MA	1010.0	106.17 UA		
2010.0	106.76 UA	1011.0	15.94 MA	2011.0	16.15 MA		
1012.0	-44.08 MA	2012.0	-43.39 MA	13.0	0.977 MA		
14.0	0.715 MA	1015.0	315.76 V/MV	2015.0	348.93 V/MV		
1016.0	3.16 MV	2016.0	3.19 MV	1017.0	0.036 UA		
2017.0	0.025 UA	1018.0	-0.244 UA	2018.0	-0.226 UA		
1019.0	1.274 MV	2019.0	1.386 MV	1020.0	1.525 MV		
2020.0	1.558 MV	1021.0	28.138 V	2021.0	28.193 V		
1022.0	28.533 V	2022.0	28.529 V				

DEVICE	8	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.44 MV		
2001.0	1.50 MV	1002.0	-0.74 MV	2002.0	-0.60 MV		
1003.0	1.37 MV	2003.0	1.46 MV	1004.0	-0.35 NA		
2004.0	-0.38 NA	1005.0	-35.07 NA	2005.0	-34.61 NA		
1006.0	-34.72 NA	2006.0	-34.22 NA	1007.0	117.40 DB		
2007.0	116.59 DB	1008.0	82.32 DB	2008.0	82.65 DB		
1009.0	-44.225 MA	2009.0	-43.281 MA	1010.0	106.34 UA		
2010.0	104.51 UA	1011.0	15.96 MA	2011.0	16.12 MA		
1012.0	-44.00 MA	2012.0	-42.83 MA	13.0	0.972 MA		
14.0	0.715 MA	1015.0	318.81 V/MV	2015.0	328.60 V/MV		
1016.0	3.10 MV	2016.0	3.10 MV	1017.0	0.035 UA		
2017.0	0.028 UA	1018.0	-0.247 UA	2018.0	-0.230 UA		
1019.0	1.203 MV	2019.0	1.238 MV	1020.0	1.353 MV		
2020.0	1.408 MV	1021.0	28.139 V	2021.0	28.192 V		
1022.0	28.530 V	2022.0	28.530 V				

DEVICE	9	BIN	1	HEAD	3	02:16 PM	07/15/2005
700.0	300	800.0	0 DGR	1001.0	1.34 MV		
2001.0	1.48 MV	1002.0	-0.72 MV	2002.0	-0.54 MV		
1003.0	1.27 MV	2003.0	1.44 MV	1004.0	-0.25 NA		
2004.0	-0.41 NA	1005.0	-38.89 NA	2005.0	-38.82 NA		
1006.0	-38.64 NA	2006.0	-38.41 NA	1007.0	115.05 DB		
2007.0	117.52 DB	1008.0	82.81 DB	2008.0	82.99 DB		
1009.0	-44.141 MA	2009.0	-43.521 MA	1010.0	98.58 UA		
2010.0	98.56 UA	1011.0	16.04 MA	2011.0	16.25 MA		
1012.0	-43.97 MA	2012.0	-43.10 MA	13.0	0.885 MA		
14.0	0.629 MA	1015.0	310.93 V/MV	2015.0	337.97 V/MV		
1016.0	3.29 MV	2016.0	3.23 MV	1017.0	0.036 UA		
2017.0	0.028 UA	1018.0	-0.250 UA	2018.0	-0.236 UA		
1019.0	1.350 MV	2019.0	1.427 MV	1020.0	1.513 MV		
2020.0	1.582 MV	1021.0	28.139 V	2021.0	28.202 V		
1022.0	28.539 V	2022.0	28.539 V				