ABBOTT ADD	INDEX INSTRUMENT SERVICE ADVISORY

PRODUCT: **TDx® (09)**	DATE: **07-JUL-98**

ISA #	SUBJECT	EFFECTIVITY DATE
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09-004	ERRORS IN REV. E SOFTWARE	CLOSED
09-003	USE OF FLUOROMETRIC STANDARDS CAROUSEL	CLOSED
09-002	MEMORY BOARD REPLACEMENT	CLOSED
09-001	LIQUID HEATER REPLACEMENT	CLOSED

PENDING - ISA index number has been reserved for a future ISA.
CANCELLED - ISA index number is cancelled.
INCORPORATED - ISA was incorporated into another document or manual.
OBSOLETE - ISA no longer applies.
COMPLETE - ISA is complete.

END OF DOCUMENT

ABBOTT ADD	INSTRUMENT SERVICE ADVISORY

SUBJECT: **TDx® Service Manual**	ISA#: **09-114**
ORIGINATOR: **Eric Tormos**	PRODUCT: **TDx® (09)**
APPROVED: **Jack B. Hall 7/7/98**	EFFECTIVITY DATE: **07-JUL-98**

I. DISTRIBUTION:
Worldwide

II. PURPOSE:
This ISA is to notify the field of a revised TDx® Analyzers Total Service Call Procedure. This procedure has been developed from customer site visits made to correct various customer issues. The purpose of this new procedure is to reduce the number of preventive maintenance procedure requirements, while continuing to maintain optimum performance of the instrument.

The Total Service Call Procedure makes sure that the three major subsystems, i.e., temperature, photo and dispense, are checked. Solving an error on one of the subsystems should result in checking the other two as well.

III. PARTS:
None.

IV. PROCEDURE:

6.1 PM/TOTAL SERVICE CALL PROCEDURE

Suggested PM/Total Service Call Procedures

1. Verify proper TSB level.
2. Obtain printout of System Parameters 1, 2, 3, 6, 7 and 9.
3. Wipe analyzer base and cover with 95% ethanol or methanol.
4. Clean and inspect optics and lamp housing with compressed air.
5. Remove boom assembly.

6. Remove air duct cover, clean dust form heater coils and thermistor with compressed air or vacuum cleaner.
7. Reinstall boom assembly and perform necessary boom verification procedures as per TDx/TDxFLx Service Manual pages 4-9.
8. Prime buffer 5 times and inspect instrument and accessories for leaks in tubing or multivalve block.
9. Run boom calibration (only if it ws not yet requested as a verification procedure).
10. Run temperature check (only if it was not yet requested as a verification procedure).
11. Run photo check (only if it was not yet requested as a verification procedure).
12. Run pipe check (only if it was not yet requested as a verification procedure).
13. Run assay of customer's choice with controls.
14. Obtain printout of System Parameters 1, 2, 3, 6, 7, 9, 10 and 11.

6.2 PM/TOTAL SERVICE CALL CHECKLIST

Suggested PM/Total Call Procedures Performed

1.		Verify proper TSB level.
2.		Obtain printout of System Parameters 1, 2, 3, 6, 7 and 9.
3.		Wipe analyzer base and cover with 95% ethanol or methanol.
4.		Clean and inspect optics and lamp housing with compressed air.
5.		Remove boom assembly.
6.		Remove air duct cover, clean dust from heater coils and thermistor with compressed air or vacuum cleaner.
7.		Reinstall boom assembly and perform necessary boom verification procedures as per TDx/TDxFLx Service Manual pages 4-9.
8.		Prime buffer 5 times and inspect instrument and accessories for leaks in tubing or multivalve block.
9.		Run boom calibration (only if it ws not yet requested as a verification procedure).
10.		Run temperature check (only, if it was not yet requested as a verification procedure).
11.		Run photo check (only if it was not yet requested as a verification procedure).
12.		Run pipe check (only if it was not yet requested as a verification procedure).
13.		Run an assay of the customer's choice with controls.
14.		Obtain printout of System Parameters 1, 2, 3, 6, 7, 9, 10 and 11.

END OF DOCUMENT

ABBOTT ADD	INSTRUMENT SERVICE ADVISORY

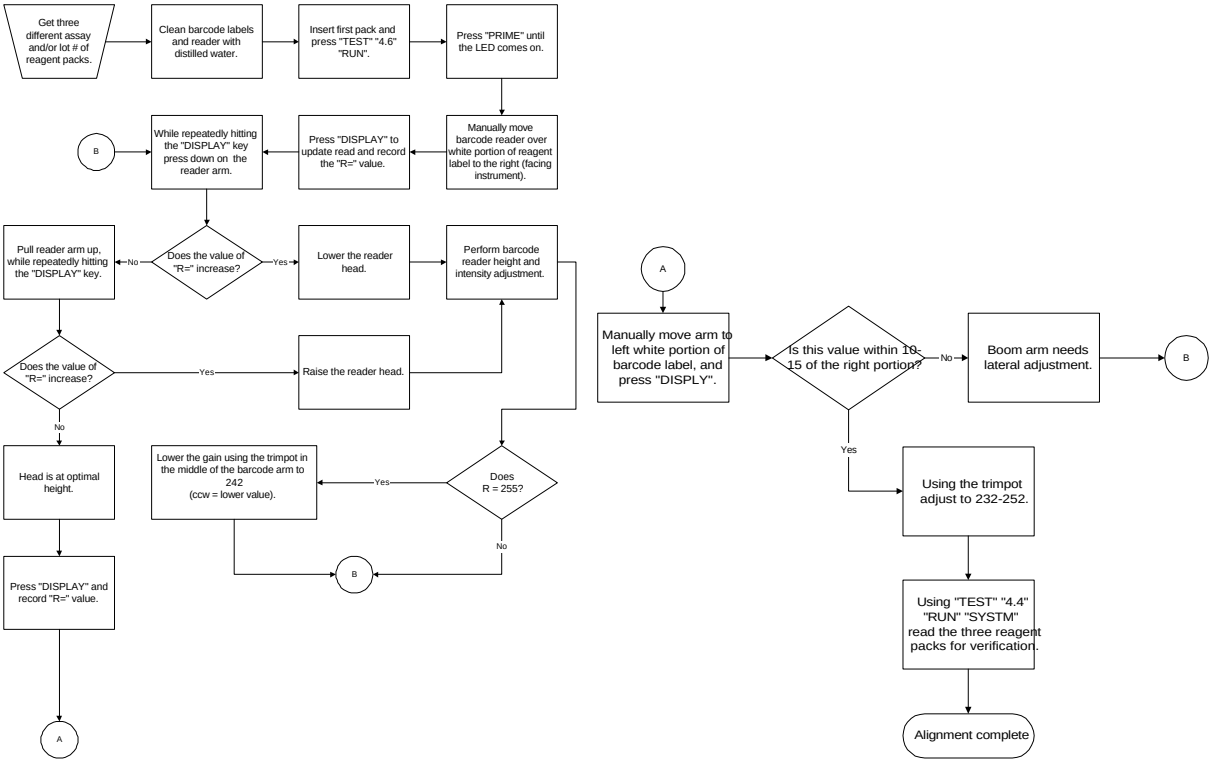
SUBJECT: **Barcode Alignment Flowchart**	ISA#: **09-112**
ORIGINATOR: **Michael A. Mowen**	PRODUCT: **TDx® (09)**
APPROVED: **Bob Schabel 28/June/95**	EFFECTIVITY DATE: **28-JUN-95**

I. DISTRIBUTION:

International and USA

II. PURPOSE:

To provide the field with a guide to adjust the barcode reader for proper operation, and to save time and repeat calls.



END OF DOCUMENT

ABBOTT ADD	INSTRUMENT SERVICE ADVISORY

SUBJECT: **TDx®/TDxFLx® DT MANUAL**	ISA#: **09-111**
ORIGINATOR: **Michael A. Mowen**	PRODUCT: **TDx® (09)**
APPROVED: **Bob Schabel 02/08/95**	EFFECTIVITY DATE: **07-FEB-95**

I. DISTRIBUTION:

United States: If a new manual is needed, it can be ordered via a FieldWatch message to Field Service Logistics. The cost of the manual will be charged to the district's department number.

International: International locations should forecast requirements for the manual to their responsible logistics organization.

II. PARTS :

To order the complete TDx®/TDxFLx® DT-size manual use the following number:

3-45331-02 Complete manual (binders both volume one and two, tabs, text)

This manual replaces the previously released manual for the TDx®/TDxFLx® System, 3-45331-01.

III. PURPOSE:

The New TDx®/TDxFLx® DT-size Service Manual is now available.

IMPROVEMENTS:

The manual is now in the small binder format and updates the previous manual to include TDxFLx Rev. 2.0/2.1, the digital centrifuge, thermal printer, VDE information, and other new information. Volume One corresponds to the IMx® DT service manual, but with text based troubleshooting only. Volume Two contains the reference material, such as the schematics, theory, RS232 specifications, etc. Feedback from FSE/FSRs, has prompted the binders to have locking rings and Mylar reinforced holes, on all pages.

The following TSBs and ISAs were incorporated into the text as follows:

TSBs

TDx

09-039	TDx REV. 15.1 Software
09-037B	Lamp Socket Assembly
09-035	TDx REV 15.0 Software

TDxFLx

67-011	TDxFLx REV. 2.1 Software
67-009	TDxFLx REV. 2.0 Software
67-008B	Lamp Socket Assembly
67-007	Thermal Printer
67-005	VDE Instrumentation
67-002A	Improved Waste Container Sensor

ISAs

TDx

09-110	NOVRAM Copier Tool
09-108	Motor Board Diagnostic Test (Test 5.7)
09-107	RS232 Port and REV. 15.0
09-106	ONEAC Line Conditioner
09-105A	FPIA Optics Diagnostics Procedure
09-104	Ribbon Post and Card Cage Fan
09-098	New Factory Set Password

TDxFLx

67-020	NOVRAM Copier Tool
67-018	PCB Retainer Brackets
67-016	Wash Station Alignment
67-015	ONEAC Line Conditioner
67-014A	FPIA Optics Diagnostics Procedure
67-013	Thermal Printer Upgrade
67-010	MTBF Counter

67-004 New Factory Set Password

END OF DOCUMENT

ABBOTT ADD	INSTRUMENT SERVICE ADVISORY

SUBJECT: **MOTOR BOARD DIAGNOSTIC TEST (TEST 5.7)**	ISA#: **09-108**
ORIGINATOR: **Harry Durstine**	PRODUCT: **TDx® (09)**
APPROVED: **Bob Schabel 7/2/93 *(signature on file)***	EFFECTIVITY DATE: **02-JUL-93**

I. PURPOSE:

To inform the field of a potentially false LLS Fail error during the Motor Diagnostic Test (Test 5.7) using ABBOTT TDx® Revision 15.0 software.

II. DESCRIPTION:

During the Motor Diagnostic Test 5.7, a LLS Fail error will occur if Test 5.7 is performed after power up and prior to running as assay. In order to ensure proper functioning of the level sensing portion of Test 5.7, an assay run should be initiated (at least to the point of cuvette count.)

Initially during power up, RGTBOT (System parameter 3.19) and ram location POT3MX are set to zero. When power up is complete, the value of RGTBOT is loaded from NOVRAM. However, ram location POT3MX is not loaded from NOVRAM and remains zero. Ram location POT3MX will be initialized with "RGTBOT" when an assay run is initiated.

END OF DOCUMENT

ABBOTT ADD	INSTRUMENT SERVICE ADVISORY

SUBJECT: **ONEAC® Line Conditioner available on RZZ for TDx® System**	ISA#: **09-106**
ORIGINATOR: **Ron Elston/Louis Valich**	PRODUCT: **TDx® (09)**
APPROVED: **Bob Schabel 8/13/93 *(signature on file)***	EFFECTIVITY DATE: **13-AUG-93**

This ISA is to inform the FSE in the USA that the ONEAC Line Conditioner can now be ordered by the FSE through Dallas Parts and invoiced to the customer. The following is the list number.

Product Code	List Number	Spec: Amps/Volts	ONEAC Model #
09	4A55-37	4.6A/120V	CP1105
67	4A55-39	6.25A/120V	CP1107

I will also give you information about Uninterruptible Power Supplies. These CAN NOT be ordered through the RZZ system or Dallas Parts. The customer will need to contact the ONEAC Corporation directly. For pricing information or to order call:

312-816-6000

Product Code	List Number	Spec: Amps/Volts	ONEAC Model #
09	N/A	5.0A/120V	ON900
67	N/A	7.5A/120V	ON1300

END OF DOCUMENT

ABBOTT ADD	**INSTRUMENT SERVICE ADVISORY**

SUBJECT: **Assays to Activate After Factory Set for TDx® and TDxFLx® Analyzers**	ISA#: **09-059K**
ORIGINATOR: **Kyle Hranitzky**	PRODUCT: **TDx® (09)**
APPROVED: **Mark Slater 2/9/96**	EFFECTIVITY DATE: **09-FEB-96**

I. DISTRIBUTION:

International and USA

II. PURPOSE:

This ISA supersedes ISA 09-059J dated 18 April 1994.
The purpose of this ISA is to inform the field of the assays needing activation after performing a Factory Set.
This ISA will be updated on an as needed basis dependent upon when new assay activation letters are released.
If the instrument you are working on has a checksum error, you MUST first bypass the checksum error by inputting the password 955251. Once the checksum error is bypassed a Factory Set Test 6.2 **must** be performed. The password for Test 6.2 Factory Set is 247. This ISA supports TDx® software version 15.0 and 15.1 and TDxFLx® software version 2.0 and 2.1. For activations for older software versions, please contact CSC.
After the Factory Set has passed, the following steps must be performed:

1. Re-enter System 2,3,6,7,8 and 10 parameters and perform Pipe Check Test 2.3 (VP-49).

If these parameters are not available you must perform the following procedures:
TDx and TDxFLx Analyzers

1. CRSL CAL (Test 3.3, VP-32)*
2. a. BOOM CAL (Test 3.2, VP-31)
   b. Automated Probe Positioning and Boom Cal (Test 3.10 ,VP-39) TDxFLx only
3. 4-POT BOOM CAL (Test 3.7, VP-35)
4. TEMP CAL (Test 3.1, VP-30) and Verification (VP-30)

5. PHOTO CAL (Test 3.4, VP-33)
6. PHOTO CHECK (Test 2.2, VP-48)
7. PIPE CHECK (Test 2.3, VP-49)

In addition for TDxFLx® Analyzers:

8. Reagent Carousel Calibration (Test 3.13, VP-36)
9. Reagent Wedge Z-Boom Calibration (VP-38)
10. Barcode Reader DAC Setting (VP-37)
11. Waste/Wash Station Alignment (VP-24)

NOTE: Tests and VP's can be found in the TDx®/TDxFLx® Service Manual, Catalog No 3-45331-02.

NOTE: If NOVRAMs were replaced, assays specific to that NOVRAM must be recalibrated (reference TDx/TDxFLx Service Manual pp 4-20 and 4-21, Catalog No 3-45331-02).

The following assays have new activation codes due to reagent pool changes or may have parameters that need to be edited following a factory set.

Acetaminophen	FLM II	Phenobarbital
Amikacin	Free Carbamazepine	Phenytoin
Barbiturates II U	Free Phenytoin	Primidone
Benzodiazepines U	Free Phenytoin II	Procainamide
Cannabinoids	Gentamicin	Propoxyphene
Carbamazepine	Lidocaine	Quinidine
Cyclo Meta (WHB)	MEGX	T4
Cyclo Mono (WHB)	Methadone	Theophylline or Theophylline Mono II (LN 8A53)
Cyclo Meta (P/S)	Methotrexate II (LN 7A12)	Tobramycin
Digitoxin	NAPA	Tricyclic Antidepressants
Digoxin II	Opiates	Valproic Acid
Ethosuximide	PCP II	Vancomycin

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
ACET (30)							
	2/94	85944Q100		SYSTEM 5.1 52602073326554	SYSTEM 5.1 52602073326554	225	110
	3/95	03322Q100		SYSTEM 5.1 62602063326952	SYSTEM 5.1 62602063326952	205	80
AMIK (3)							
	6/94	88562Q100	88563Q100	SYSTEM 5.1 50602160333533 SYSTEM 5.2 0 #1 1711150401405 #2 5956044303052 #3 7573511223527	SYSTEM 5.1 50602160333533	203	118
	2/95	02334Q100	02342Q100	SYSTEM 5.1 20602160333503 SYSTEM 5.2 0 #1 1911130203607 #2 9856064304085 #3 4533511264721	SYSTEM 5.1 20602160333503	200	122

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
BARBS II U (58)							
	9/94	92663Q100		Edit MN SPAN		150 BKG FAC 1.24	55
BENZ U (63)							
	9/94	93642Q100		SYSTEM 5.1 48401187217799	SYSTEM 5.1 48401187217799	189 BKG FAC 3.02	122
	2/95	05250Q100		SYSTEM 5.1 13402137267754	SYSTEM 5.1 13402137267754	185 BKG FAC 3.02	108
CANNABS (60)							
	11/93	85609Q100		SYSTEM 5.1 04401147244009	SYSTEM 5.1 04401147244009	150 BKG FAC 0.73	60
CARB (9)							
	12/93	84215Q100	84221Q100	SYSTEM 5.1 75403151241551 SYSTEM 5.2 0 #1 1312131207618 #2 0359405519089 #3 0552511852822	SYSTEM 5.1 75403151241551	275	140

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
CYCLO META (WHB) (18) - Refer to Assay Insert							
CYCLO MONO (WHB) (50) - Refer to Assay Insert							
CYCLO META (P/S)(23) - Refer to Assay Insert							

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
DIGITOXIN (27)							
	9/93	80274Q100		SYSTEM 5.1 74001083513255	SYSTEM 5.1 74001083513255	145	72
DIGOXIN II (10)							
	10/94	94031Q100		SYSTEM 5.1 31001041512756 SYSTEM 5.2 0 #1 1511132505510 #2 0557025516088 #3 6541511550025	SYSTEM 5.1 31001041512756	155	75
ETHOSUXIMIDE (24)							
	1/94	85534Q100		SYSTEM 5.1 42602053360809	SYSTEM 5.1 42602053360809	230	110

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
FLM II (LN 7A76) (88)							
	NEW ASSAY			SYSTEM 5.1 60403063290009	SYSTEM 5.1 60403063290009	300	125
SPL VOL =150	HI LIM=160	CAL VOL=150	CONC B=10	CONC C=20	CONC D=40	CONC E=80	
CONC F=160	MODE =23	GAIN=20	MX BKG=8000				
Pipette 250 uL into the sample well							
Low control 22-28 mg/g		Mid control 44-56 mg/g		High control 85-115 mg/g			
ERR=2	RMSE=1						
FREE CARB (32)							
	12/93	84215Q100		SYSTEM 5.1 83403144250552	SYSTEM 5.1 83403144250552	275	120
	5/95	03189Q100		32403124240551	32403124240551	275	120
FREE PHENY (LN 9530) (26)							
	5/94	89400Q100		SYSTEM 5.1 40402143262839	SYSTEM 5.1 40402143262839	233	130
	12/94	95130Q100		SYSTEM 5.1 40403143262801	SYSTEM 5.1 40403143262801	250	140
FREE PHENY II (LN1B62) (26) NEW ASSAY							
	5/95			SYSTEM 5.1 00403143262852	SYSTEM 5.1 00403143262852	265	125
SPL VOL=10	CONC B=0.5	CONC C=1	CONC D=2	CONC E=3	CONC F=4		

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
GENT (1)							
	6/94	89465Q100	89466Q100	SYSTEM 5.1 70401140211058 SYSTEM 5.2 0 #1 1611241205609 #2 0403014401087 #3 0542511141923	SYSTEM 5.1 70401140211058	175	90
LIDOCAINE (14)							
	4/94	88586Q100	88587Q100	SYSTEM 5.1 33402131276059 SYSTEM 5.2 0 #1 1611252404815 #2 5206175422028 #3 8562511951520	SYSTEM 5.1 33402131276059	225	120
MEGX (78)							
	9/92	69771M200		SYSTEM 5.1 77001161566059	SYSTEM 5.1 77001161566059	135	55
METHADONE (48)							
Edit BKG FAC to 2.23			Edit CAL REP to 2				

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
METHOTREXATE II (LN 7A12) (22) NEW ASSAY				15.1 Only	2.1 Only		
	10/93			SYSTEM 5.1 24002442566504	SYSTEM 5.1 24002442566504	180	120
SPL VOL=10 MODE 42	HI LIM=1000 GAIN 40	CONC B=0.05 MX BKG 2500	CONC C=0.15	CONC D=0.30	CONC E=0.60	CONC F=1.00	
NAPA (13)							
	6/94	91508Q100	91509Q100	SYSTEM 5.1 53602121365556 #1 1712010102511 #2 0859465516085 #3 6571511723121	SYSTEM 5.2 53602121365556	205	125
OPIATES (62)							
	11/92	71678Q100		SYSTEM 5.1 38401137206407	SYSTEM 5.1 38401137206407	170 BKG FAC 1.36	90
PCP II (61)							
	4/94	87066Q200		SYSTEM 5.1 94401127255558	SYSTEM 5.1 94401127255558	135 BKG FAC 0.88	80

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
PHENOBARB II (05)							
	5/92	67313Q100	67314Q100	SYSTEM 5.1 44402090295207 SYSTEM 5.2 0 #1 1411241204909 #2 0407144418049 #3 9562511641927	SYSTEM 5.1 44402090295207	180	115
	3/94	87088Q100	87087Q100	SYSTEM 5.1 03402080285206 SYSTEM 5.2 0 #1 1411241404901 #2 5803175413027 #3 1553511212123	SYSTEM 5.1 03402080285206	180	125
PHENYTOIN (LN9507)(4)							
	5/94	89400Q100	89405Q100	SYSTEM 5.1 10402140244857 SYSTEM 5.2 0 #1 1012322106019 #2 5052235514006 #3 9573511042920	SYSTEM 5.1 10402140244857	235	135

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
PHENYTOIN (LN 9507) (4) CONTINUED							
	12/94	95130Q100	95131Q100	SYSTEM 5.1 20402140244858 SYSTEM 5.2 0 #1 1712272605902 #2 5053255311039 #3 7522511852222	SYSTEM 5.1 20402140244858	245	145
PHENYTOIN II (LN 1B61) (4)							
	5/95	NEW ASSAY		SYSTEM 5.1 80403140244880 SYSTEM 5.2 0 #1 0000000008211 #2 0000000008062 #3 9500500000120	SYSTEM 5.1	268	168
	SPL VOL=2	CONC B=2.5	CONC C=5	CONC D=10	CONC E=20	CONC F=40	
PRIMIDONE (6)							
	7/93	79423Q100	79415Q100	SYSTEM 5.1 94602150306552 #1 1711211003906 #2 0901245519048 #3 5552511821629	SYSTEM 5.1 94602150306552	225	120

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
PRIMIDONE (6) CONTINUED							
	8/94	91482Q100	91490Q100	SYSTEM 5.1 30602110366558 SYSTEM 5.2 0 #1 1511230208418 #2 0809255519004 #3 7552511641829	SYSTEM 5.1 30602110366558	225	120
PROCAINAMIDE (12)							
	1/94	85475Q100	85476Q100	SYSTEM 5.1 40002071524003 SYSTEM 5.2 0 #1 1711131307915 #2 5854274416042 #3 8551511852522	SYSTEM 5.1 40002071524003	210	115
	6/94	90636Q100	90682Q100	SYSTEM 5.1 41002081534073 #1 9199090902413 #2 6131095418053 #3 3590599190321	SYSTEM 5.1 41002081534073	207	115

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
PROPOXYPHENE (81)							
	10/91	NEW ASSAY		SYSTEM 5.1 66402112281108	SYSTEM 5.1 66402112281108	200	115
SPL VOL=3.2	HI LIM=300	CONC B=150		CONC C=300	CONC D=500	CONC E=1000	CONC F=1500
MODE=26	GAIN=20	MX BKG=2500		BKG FAC=1.44			
QUINIDINE (11)							
	1/93	74213Q100	73403Q101	SYSTEM 5.1 36402221273004 SYSTEM 5.2 0 #1 1511272403411 #2 0503025516032 #3 6531511650126	SYSTEM 5.1 36402221273004	170	85
T4 (79)				Edit MN SPAN			100
THEOPHYLLINE II (15)							
	6/93	78596Q100	78598Q100	SYSTEM 5.1 46002151517006 SYSTEM 5.2 0 #1 2711303803817 #2 0103265529005 #3 6563511081729	SYSTEM 5.1 46002151517006	250	160

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
THEOPHYLLINE MONOCLONAL II (LN 8A53) (15) NEW ASSAY							
				SYSTEM 5.1 88002191537507 SYSTEM 5.2 0 #1 0000000007221 #2 0000000018061 #3 9500500000120	SYSTEM 5.1 88002191537507	240	170
SPL VOL=2	HI LIM=40	CONC B=2.5	CONC C=5	CONC D=10	CONC E=20	CONC F=40	
MODE=17	GAIN=40	MX BKG=1600					
TOBRAMYCIN (02)							
	10/92	71007Q100	71008Q100	SYSTEM 5.1 77602210392456 SYSTEM 5.2 0 #1 1111220205702 #2 0758064408031 #3 1562511542228	SYSTEM 5.1 77602210392456	175	105
TRICYCLICS ANTIDEPRESSANTS (56)							
	8/92	67529Q100		SYSTEM 5.1 47002187530001		180	100

Assay #	Date	Batch Lot #	RA Lot #	TDx Codes	TDxFLx Codes	MN POL A	MN SPAN
VALPROIC ACID (8)							
	2/94	87356Q100	86535Q100	SYSTEM 5.1 44002091520704 SYSTEM 5.2 0 #1 1812180606418 #2 0008315515002 #3 8552511041824	SYSTEM 5.1 44002091520704	220	110
VANCOMYCIN (16)							
	1/94	85096Q100	85097Q100	SYSTEM 5.1 00402092260357 SYSTEM 5.2 0 #1 1411241505127 #2 5503045428037 #3 4543511831720	SYSTEM 5.1	215	105

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