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Title: Shipping Test - Zip Pen 2525-15

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2525-15 Product Documentation

Change Request

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		01 Sep 2016, 02:46:00 PM	Approved

Collaboration

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Katie Chamberlain (KCHAMBERLAIN)	Regulatory Manager	07 Dec 2016, 10:29:35 AM	Approved

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Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		21 Dec 2016, 11:39:37 AM	Approved

Final Release

Name/Signature	Title	Date	Meaning/Reason
Lucy Richards (LRICHARDS)		21 Dec 2016, 11:40:23 AM	Approved

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Authored By: Mark Glassett

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1. ABSTRACT

Zip Pen samples REF 2525-15 were artificially aged for equivalent of 3 years and ship tested per protocol ENG-PRT-327 to show compliance to ISO 11607-1:2009. The samples passed shipping tests after aging. Catalog number 2525-15 was tested. This testing is also representative of catalog 2525-15EC. The only difference between the two products is the connector, 2525-15 has the larger connector. Therefore, the testing is considered acceptable for both catalog numbers.

2. OBJECTIVE

The objective of this test report is to document ship testing that was done on the Zip Pen catalog item 2525-15 after accelerated aging to simulate three years expiration life, exposure to transport and storage conditions and package performance testing per protocol ENG-PRT-327 and ASTM D4169-5.

3. RESULTS

The Zip Pen samples for this shipping test were built at New Deantronics. The samples were REF 2525-15 Lot# S160050 which are also representative of 2525-15EC. The package configuration is documented on drawings X2525-15 Rev E. Product 2525-15EC uses the same package configuration.

Two cartons of 2525-15 each with 20 units inside were tested per protocol ENG-PRT-327. The test consisted of the following elements.

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Treatment/Test	Description
Artificial aging to simulate 3 years	Aging temperature of 55°C for 111 days
Megadyne IEC shipping and storage cycle	Temperatures from -40°C to 55°C
	Humidity from 15% to 95%
Preconditioning	ASTM D4169 preconditioning at 23°C and
	50% humidity for 72 hours
Handling Test #1	Drop the product 6 times on faces, corners
	and edges per the protocol
Compression test	Application of compressive force of 217.5
	lbs. per the protocol
Vehicle vibration	High frequency vibration for 10 minutes
Loose load vibration	Low frequency vibration for 40 minutes
Concentrated impact	Impact per ASTM D6344
Handling Test #2	Drop the product 6 times on faces, corners
	and edges per the protocol
Product inspection	Visual inspection for lot number and label
	clear and legible
Package evaluation	Dye test, bubble test, burst test, seal width
	inspection and product damage inspection

3.1. Accelerated Aging

The Zip Pen samples were subjected to accelerated aging at 55°C to simulate 3 years of shelf life. Documentation of the aging is shown in appendix I.

3.2. Transport and Storage Cycle and Pre-Conditioning.

The Zip Pen samples were subjected to the transport and storage cycle required by the protocol. This cycle includes temperatures from -40°C to 55°C and humidity's from 15% to 95%. This treatment is shown in Appendix I. Following the transport and storage cycle, the samples were pre-conditioned per protocol ENG-PRT-327 Rev A and ASTM D4169-05. The pre-conditioning parameters were to 23°C and 50% RH for a minimum of 72 hours. The cycling and preconditioning were performed by the Lab Technician. The technician sign off for this treatment is shown in Appendix I.

3.3. Shipping Test

The shipping test was performed by the Lab Technician. The shipping test followed protocol XENG-PRT-327 Rev A. None of the boxes broke open during the test. There were minor indentations on the corners and edges of the boxes which is typical and acceptable per the protocol. This testing is documented on the log sheet in Appendix I.

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3.4. Print and Lot Number Clear and Legible

Forty samples (two boxes) of 2525-15 were inspected per protocol XENG-PRT-327 Rev A. The package print was clear and legible and passed the protocol acceptance criteria. The Lot numbers were also clear and legible and passed the protocol acceptance criteria. This testing is documented on the log sheet in Appendix II.

3.5. Dye Penetration Test

The dye penetration test was performed per protocol XENG-PRT-327 rev A. The procedure follows ASTM F1929. Forty Zip Pen packages were dye tested and all 40 passed the protocol. See data in appendix III.

3.6. Bubble Leak Test

The Bubble Leak Test was performed on 40 samples of 2525-15. The Bubble Leak test followed protocol XENG-PRT-327 Rev A. The 2525-15 samples passed the bubble leak test criteria of the protocol. The data is shown in appendix IV.

3.7. Burst Test

The package Burst Test was performed on 40 samples of 2525-15. The package burst test followed protocol XENG-PRT-327 Rev A. The minimum burst for the protocol is 19 in. H_2O . The 40 samples passed the burst test with an average burst value of 27.51 in. H_2O and a minimum value of 23.7 in. H_2O . See data and analysis in appendix V.

3.8. Minimum Seal Width

The seal width of all 40 packages was measured by the lab technician. The technician was instructed to visually locate the area with the narrowest seal. The technician measured this area and noted on the data form which side it is located on. The minimum seal width measured for this testing was 0.20". The average minimum seal width is 0.32". The Zip Pen packages for this protocol meet the drawing requirements. Seal width data is shown in Appendix VI.

3.9. Product Damage Inspection

The product damage inspection was performed on 40 samples of 2525-15. The damage inspection looked for damage to the inner bag, holster, electrode and Zip Pen. No damage was found in the inspection. The damage inspection result is documented in Appendix VII.

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4. **DISCUSSION**

4.1. Shipping Test

The shipping test followed protocol XENG-PRT-327 Rev A. The compression test was calculated to require 217.5 lbs. The technician used 220 pounds for the test since that was what weights were available. Since a greater weight was used than required it was determined to be acceptable by the engineer.

4.2. Dye Penetration Test

The dye penetration test was performed per protocol XENG-PRT-327 rev A. The procedure follows ASTM F1929. The main purpose of the dye test is to highlight the seal area for seal width measurement and make it easier to identify open seals. There were no open seals and the seal width results are documented in the seal width section.

4.3. Burst Test

The package Burst Test was performed on 40 samples of 2525-15. The package burst test followed protocol XENG-PRT-327 Rev A. The minimum burst for the protocol is 19 in. H₂O. The minimum is the same one used on the Zip Pen 2525-10 pouch which is a smaller pouch. It is typical that the larger pouch will have a lower burst value. In this case we were able to use the same minimum value as the 2525-10 and still pass the test with a good margin of safety.

4.4. Minimum Seal Width

The seal width of all 40 packages was measured by the lab technician. The technician was instructed to visually locate the area with the narrowest seal. The technician measured this area and noted on the data form which side it is located on. The specification minimum is 0.20" There were two packages with seals at the minimum value. The minimum specification provides a safety factor of greater than 50% of the designed seal width. Therefore having values at the lower limit still provides high confidence that the seal will be complete and maintain a sterile barrier.

5. CONCLUSIONS

The testing demonstrates that the Zip Pen 2525-15 (15 foot) complies with the requirements of the protocol XENG-PRT-327 Rev 001 and ISO 11607-1:2006. This testing included three year accelerated aging, Temperature Storage extremes, and package performance testing.

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6. **RECOMMENDATIONS**

This testing was performed to demonstrate compliance of the Zip Pen packaging to ISO 11607-1:2009 after three year accelerated aging to support the three year expiration life. The package met requirements for Package Performance. It is recommended that real time age samples be put aside for testing per Megadyne Protocol ENG-PRT-057. The product can be released to market upon completion of regulatory approvals and completion of design control.

The testing also establishes shipping and storage conditions for labeling per IEC 60601-1:2012 clause 7.2.17. The shipping box labels of the products will show the international symbols for shipping and storage with temperatures of 5°C to 50°C and relative humidity of 15% to 95%. The IFU will include the note "Normal storage conditions are assumed. Brief excursions to limits allowed".

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Appendix I Aging, Preconditioning and Shipping Test Log sheet

Accelerated Aging In Process

Product: 2525-15 Zip Pen Lot Number S160050 15 Foot Zip Pen Temperature 55° Relative Humidity Ambient

Required Time 15 weeks 6 days (111 days)

Thermotron ID Number 1095 Recal

Last Calibration Date $\frac{5/19/15}{5/31/16}$ $\frac{5/23/16}{5/31/17}$ Calibration Due Date $\frac{5/31/16}{5/31/17}$

Start	Time	Initials	Stop	Time	Total	Initials
22 April 2016	11:00	My	8-11-16	15:00		NY

If this aging needs to be interrupted for any reason, Contact Mark Glassett at ext. 845

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Megadyne Medical Products, Inc							
			APPENDIX I	ı			
		Ship	oping Test Log	Sheet			
Preconditioning	;						
Start Da	te:	8-11-	2016	Ch	amber l	Number: 01095	
Comple	tion Date:	8-15	2016	La	st Calib	ration: 5-23-20	
Signature/Date: Paul Valpreda 8-15-2016 Calibration due: 5-31-20							
Drop Test:	Drop Sequence	Drop Height	Orientation	Specific face or corner		Initials/Date	
	1	15 in.	Тор	Face 1		PV 8-15-2016	
	2	15 in.	Edge	Edge 5-3		PV 8-15-2016	
	3	15 in.	Edge	Edge 6-3		PV 8-15-2016	
	4	15 in.	Corner	Corner 2-3-5		PV 8-15-2016	
	5	15 in.	Corner	Corner 4-3-6		PV 8-15-2016	
	6	15 in.	Bottom	Face 3		PV 8-15-2016	
	Comments:						
	ire:	Paul	Valpreda	D	ate: _8	-15-2016	
Signatu			,				
Signatu Compression	est:						
Compression 7		525-15	Pounds F	orce 220	lbs.		

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			ppendix I Conti		
Vibration:			pping rest nog		
	v. 10 minute	s. Initials	V Low frequ	ency 40 minutes, Init	ials PV
Completion Da					300000
Signatu			Valpreda	Date: _8	-15-2016
Concentrated In	mpact Test		1.5 lb mas	s dropped from 32 inc	hes
Face 1 Initials_	PV	_ Face 2 In	nitials PV	Face 3 Initials	PV
Completion Da	te: <u>8-15</u>	2016			
Second Drop T	est: Catalog 25 2	5-15_\	Veight 14 1bs	. Drop Hei	ght: <u>15″+30″</u>
Second Drop T	est: Catalog <u>252</u> Drop Sequence	Drop Height	Veight 14 1bs Orientation	Drop Hei	ght: 15"+30" Initials/Date
Second Drop T	Catalog 252 Drop	Drop		Specific face, edge	
Second Drop T	Drop Sequence	Drop Height	Orientation	Specific face, edge or corner	Initials/Date
Second Drop T	Drop Sequence	Drop Height	Orientation Edge	Specific face, edge or corner Edge 4-6	Initials/Date (2) 8-15-2016
Second Drop T	Drop Sequence	Drop Height 15 in. 15 in.	Orientation Edge Face	Specific face, edge or corner Edge 4-6 Face 4	PV 8-15-2016
Second Drop T	Drop Sequence	Drop Height 15 in. 15 in. 15 in.	Orientation Edge Face Face	Specific face, edge or corner Edge 4-6 Face 4 Face 6	PV 8-15-2016 PV 8-15-2016 PV 8-15-2016
Second Drop T	Drop Sequence 1 2 3 4	Drop Height 15 in. 15 in. 15 in. 15 in.	Orientation Edge Face Face Corner	Specific face, edge or corner Edge 4-6 Face 4 Face 6 Corner 2-1-5	PV 8-15-2016 PV 8-15-2016 PV 8-15-2016 PV 8-15-2016 PV 8-15-2016

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Now Desarronics Ltd. 1990 North Cultifornic Blvd. Softs 1940 Websut Creek, CA 94596 Tel: 925, 180, 1888 Ten: 625, 189, 1989 New Departments Tolvers, Ltd. 11F., No.31, Sec. 4, Cheng Yang Rd., Tr. Cheng Dist. Now Teipel City 21673, Telvan R.O.C. Tel: 886, 2, 2168, 1736

PACKING LIST

MD-624/16

Invoice Date	April 13, 2016	Marka & Nos.;
Invoice No.	MD-624/16	Mogadyne
For Account &	Megadyne Medical Products, Inc.	PO.:26124
Risk of Messes.	11506 South State Street	Salt Lake City
and the second	Draper, Utah 84020 U.S.A.	Carton No.:
Shipped By	New Deantronies Talwan, Ltd.	001-003
	12F., No.51, Sec 4, Chong Yang Rd., Tu Chong Dist.,	Made In Taiwan
	New Taipei City 23675, Taiwan R.O.C	R, O. C.
Ship Vla	UPS# A10975MVNJC	
Sailing On	April 13, 2016	
From / To	Taipei / Salt Lake City, U.S.A.	

	Carton No.	Description.	Quan (Cartons)	(Pieces)	(kgs)	(kgs)	(ceff)
	001-003 3	ZIP PEN, 15 POOT PIO No.: 26124 PIN: 2525-15 ND PIN: PBT52SMI Lo No.: \$160050	3	40 120	10.04 30.12	13.74 41.22	4.31 12.93
1	Total : 3 Cins	East Proc. Schools	2	120	30.12	41.22	12,93

Remark:

- Mugadyne Medical Products Establishment Registration: 1721194
- 2. DEV (Device Foreign Manufacturer Registration Number): 9681191
- 3. Country of Origin: Talwan, R. O. C.
- 4. Harmonized Tariff Code & FDA Information

Net 45 days / Ex-Works

	P/N	510 (80)#	ND	Megadyue.	Product code
HTS Code			Listing #	Listing #	ing #
9015,90,6000	00200XX Series, 0020, 0020H, 0025, 0025, 00240, 00208N, 00208N		D063906	39009824	GEI
9018,90,6900	6030045 & 6020046 Sedies	90050102	N/A	D000836	GEI
8544.42.9000	4890, 4085	K982748	D028893	N/A	GEI
8544.42,9000	3750025-04, 3750036-01	K072559	NA	D037574	CELL
7611.21.1000	4000032-XX Series	N/A	N/A	NA	GEL
3917.21,0000	4000093-XX Series	N/A	N/A	N/A	GEI
7698,20,0090	4100000-XX Series	N/A	N/A	N/A	GEL
8544.60.2000	0870, 0875, 0880	K982130	D028893	N/A	GEI.
9018,59,0000	TC100	Exempt	D170518	XVA	MDM
9018.50.6000	PCINH	K982349	D169908	AK	GII
9018,90,6000	0855C	80060255	D163491	NA	GEI
9018,90,9000	7925-10.7549.2569.2525-10BC.2525-15	X141587	J1237510	D236969	GEI

New Deartronics Tolwan, LTD

Lydia Cheng

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Appendix II Print and Lot Number Inspection Log Sheet

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Appendix II Print Legibility Log Sheet

Inspect the product per the protocol and enter the number of units that pass or fail in the box below.

Catalog # 2525 - 15	Pass	Fail
Pouch Print	40	
Lot Number Print	40	

Comments:

Paul Valprede
Inspected by:

Date completed

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Appendix III Dye Test Documentation

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Appendix IV Dye Penetration Test Log Sheet

Catalog # 2525-15

Lot#_5160050

Sample	Pass	Fail	Comment
1	×		
2	X		
3	Χ		
4	X		
5	χ		
6	X		
7	У		
8	X		
9	×		
10	X		
11	X		
12	×		
13	X		
14	X		
15	X		
16	Χ		
17	X		
18	χ		
19	X		
20	X		

Sample	Pass	Fail	Comment
		1 dii	Comment
21	X		
22	X		
23	X		
24	×		
25	X		
26	X		
27	X		
28	×		
29	X		
30	X		
31	×		
32	Х		
33	X		
34	X		
35	X		
36	X		
37	Χ		
38	X		
39	X		
40	X		

Signature:

Paul Valprede

Date: 8-17-2016

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Appendix IV Bubble Leak Test Data

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Appendix III Bubble Leak Test Log Sheet

Catalog # 2525-15

Lot#__\$160050

Sample	Pass	Fail	Comment
1	X		
2	×		
3	X		
4	Χ		
5	X		
6	X		
7	Х		
8	X		
9	X		
10	Ϋ́		
11	X		
12	X		
13	×		
14	X		
15	X		
16	X		
17	K		
18	X		
19	X		
20	X		

Sample	Pass	Fail	Comment
21	Χ		
22	X		
23	×		
24	X		
25	X		
26	X		
27	X		
28	X		
29	X		
30	X		
31	X		
32	×		
33	X		
34	X		
35	X		
36	X		
37	X		
38	X		
39	X		
40	X		

Signature

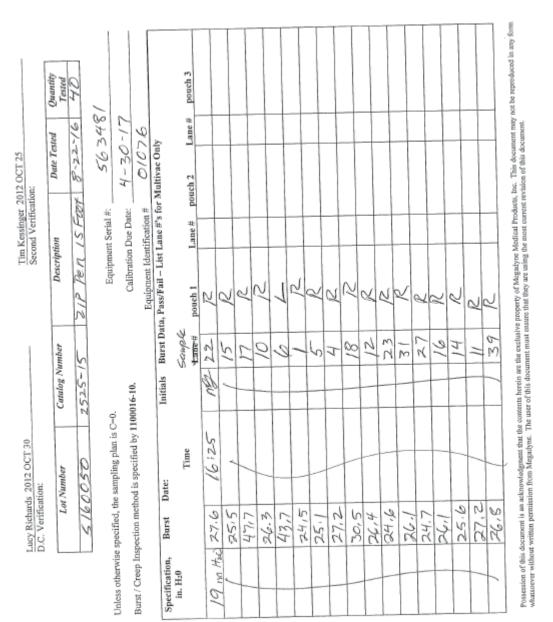
Paul Valprede

Date: 8-17-2016

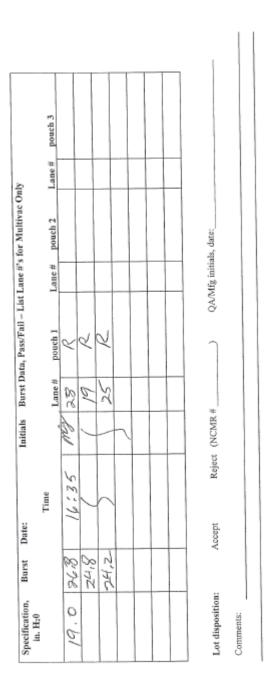
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Burst Test Data Zip Pen 2525-10 Lot S140074						
Sample	Burst	Burst		Sample	Burst	
Number	Value	Loc		Number	Value	Burst Loc
22	27.6	R		20	27.2	R
15	25.5	R		24	26.5	R
17	47.7	R		9	25.1	R
10	26.3	R		21	24.6	R
6	43.7	L		38	25.4	R
1	24.5	R		29	27.0	R
5	25.1	R		26	25.1	R
4	27.2	R		7	26.9	R
18	30.5	R		2	27.3	R
12	26.4	R		8	27.0	R
23	24.6	R		34	41.6	R
31	26.1	R		36	23.7	R
27	24.7	R		35	29.0	R
16	26.1	R		13	27.7	R
14	25.5	R		40	27.3	R
11	27.2	R		32	25.2	R
39	26.8	R		33	26.4	R
28	26.8	R		3	26.2	R
19	24.8	R		37	25.0	R
25	24.2	R		30	24.8	R
					27.51	Average
						Minimum

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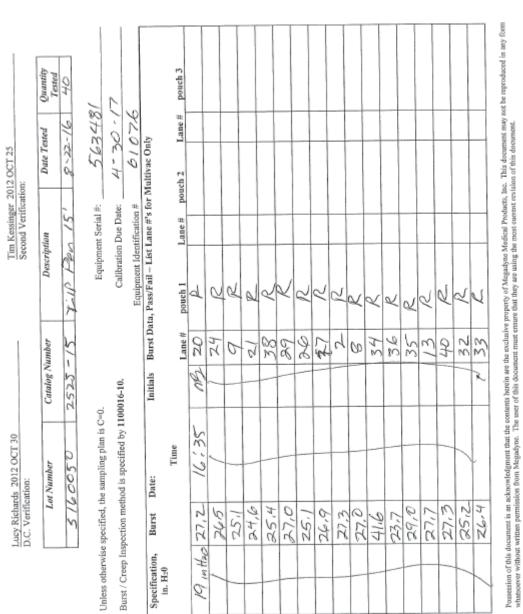


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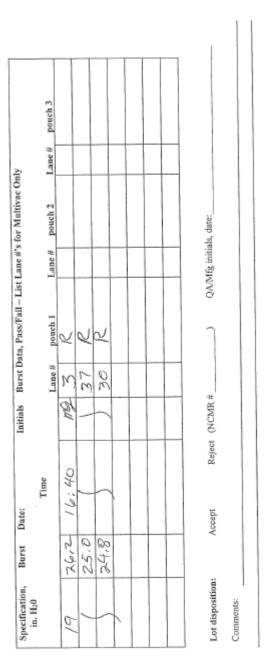


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Appendix VI Seal Width Data

Package Seal Width Evaluation Data Collection Form

	z	ip-Pen 2525	-15 LOT S16	1050		
Sample	Part/Lot	Cavity	Front	Back	Right	Left
1	2525-15 LOT S160050	1				0.38
2	2525-15 LOT \$180050	1		0.36		
3	2525-15 LOT S160050	2			0,31	
4	2525-15 LOT \$160050	1				0.36
- 5	2525-15 LOT \$160050	1				0.36
6	2525-15 LOT 8160050	1				0.21
7	2525-15 LOT \$160060	1		0.36		
8	2525-15 LOT 8160050	1				0.28
9	2525-15 LOT \$160050	2				0.32
10	2525-15 LOT 8160060	1				0.33
11	2525-15 LOT \$160050	1			0.32	
12	2525-15 LOT \$160050	2				0.34
13	2525-15 LOT \$160050	1				0.33
14	2525-15 LOT \$160060	1			0.20	
15	2525-15 LOT \$160060	2			0.30	
16	2525-15 LOT \$160050	1			0.34	
17	2525-15 LOT \$160050	2				0.30
18	2525-15 LOT \$160050	2				0.31
19	2625-15 LOT 8160060	2				0.31
20	2525-15 LOT \$160050	1				0.32
21	2625-15 LOT 8160050	2				0.31
22	2525-15 LOT \$160050	2			0.36	
23	2525-15 LOT S160050	2				0.36
24	2525-15 LOT S160050	2	0.25			
25	2525-15 LOT \$160050	2			0.31	
26	2525-15 LOT \$160050	2				0.34
27 28	2525-15 LOT \$160050	2			0.31	
	2525-15 LOT 8160050	1			0.38	
29	2525-15 LOT \$160050	1			0.31	
30	2525-16 LOT \$160050	2			0,24	
31	2525-15 LOT \$160050	2			0.32	
32	2525-15 LOT \$160050	2				0.20
33	2525-15 LOT 8160050	2			0.27	
34	2525-15 LOT \$160050	1			0.38	
35	2525-15 LOT \$160060	1			0.30	
36	2525-15 LOT \$160050	2 2				0.22
37	2525-15 LOT 8160060				0.30	
38	2525-15 LOT \$160050	2			0.34	
39	2525-15 LOT 8160060	2				0.34
40	2525-15 LOT \$160050	1			0.32	

CALIBRATION	INFORMATION
Cali	pers
Starrell li	MAP-1003
Serial Number:	723
Megadyne Number:	01039
Calibration Date:	5/28/2014
Calibration Due:	5/31/2016

Paul Valproda	8/24/2016
Operator Name	Date

Paul Valorede 8-24-2016
Operator Statutore Date

Megadyne Medical	TEST REPORT	Document Number ENG-RPT-503
Products,	SHIPPING TEST – ZIP PEN 2525-15	Revision: 001
Inc.		Page 19 of 19

Appendix VII Damage Inspection

	Appendix VI Product Damage Inspection Log Sheet		
Products, Inc.	Shipping Test – Zip Pen 2525-15	Page 24 of 24	
Megadyne Medical		Revision: A	
	TEST PROTOCOL	Document Number XENG-PRT-327	

2525-15	Pass	ran
Damage	40	

Comments: No damage was observed.

Paul Valprede 9-15-2016
Inspected by: Date completed