



Test Monitoring Center

203 Armstrong Drive, Freeport, PA 16229, USA

www.astmtmc.org
412-365-1000

MEMORANDUM: 24-008
DATE: May 21, 2024
TO: Matthew Sangpeal, Chairman, L-42 Surveillance Panel
FROM: Dylan Beck *Dylan Beck*
SUBJECT: L-42 Rater Calibration from October 1, 2023 through March 31, 2024

Attached is a summary of L-42 rater calibration activity this period.

DJB/djb/mem24-008.djb.doc

cc: Jeff Clark

Sean Moyer

L-42 Surveillance Panel

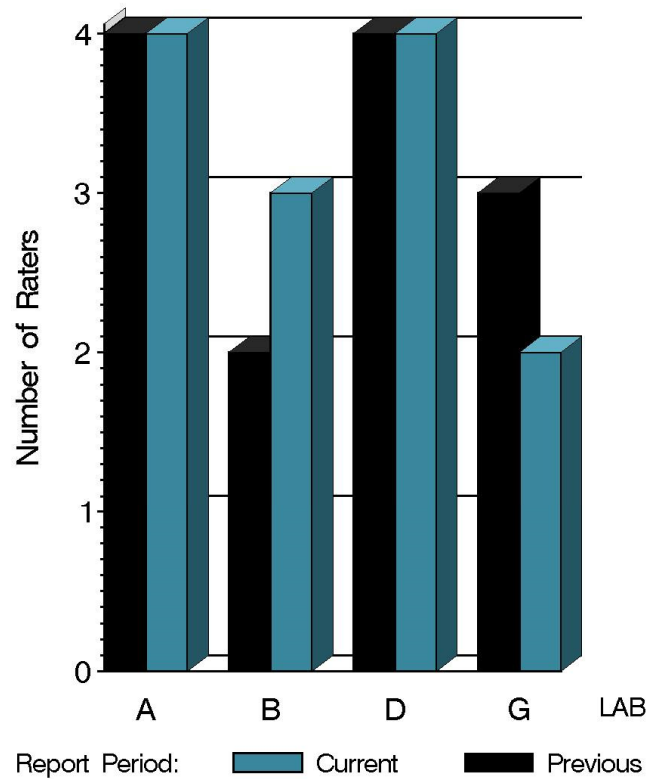
<https://www.astmtmc.org/ftp/docs/gear/l42rc/semiannualreports/l42rc-04-2024.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-24
Number of Labs	4	4
Number of Raters	13	13

BY-LAB RATER DISTRIBUTION



11:47:16 24APR2024



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L-42 Rater Calibration

Test Distribution by Validity

		Totals	
		Last Period	This Period
Accepted for calibration	AC	17	14
Rejected (Mild)	OC	0	0
Rejected (Severe)	OC	0	4
Rejected (Multiple)	OC	1	1
Rejected (Precision)	OC	0	2
Workshop data	AG	4	0
Total		22	21

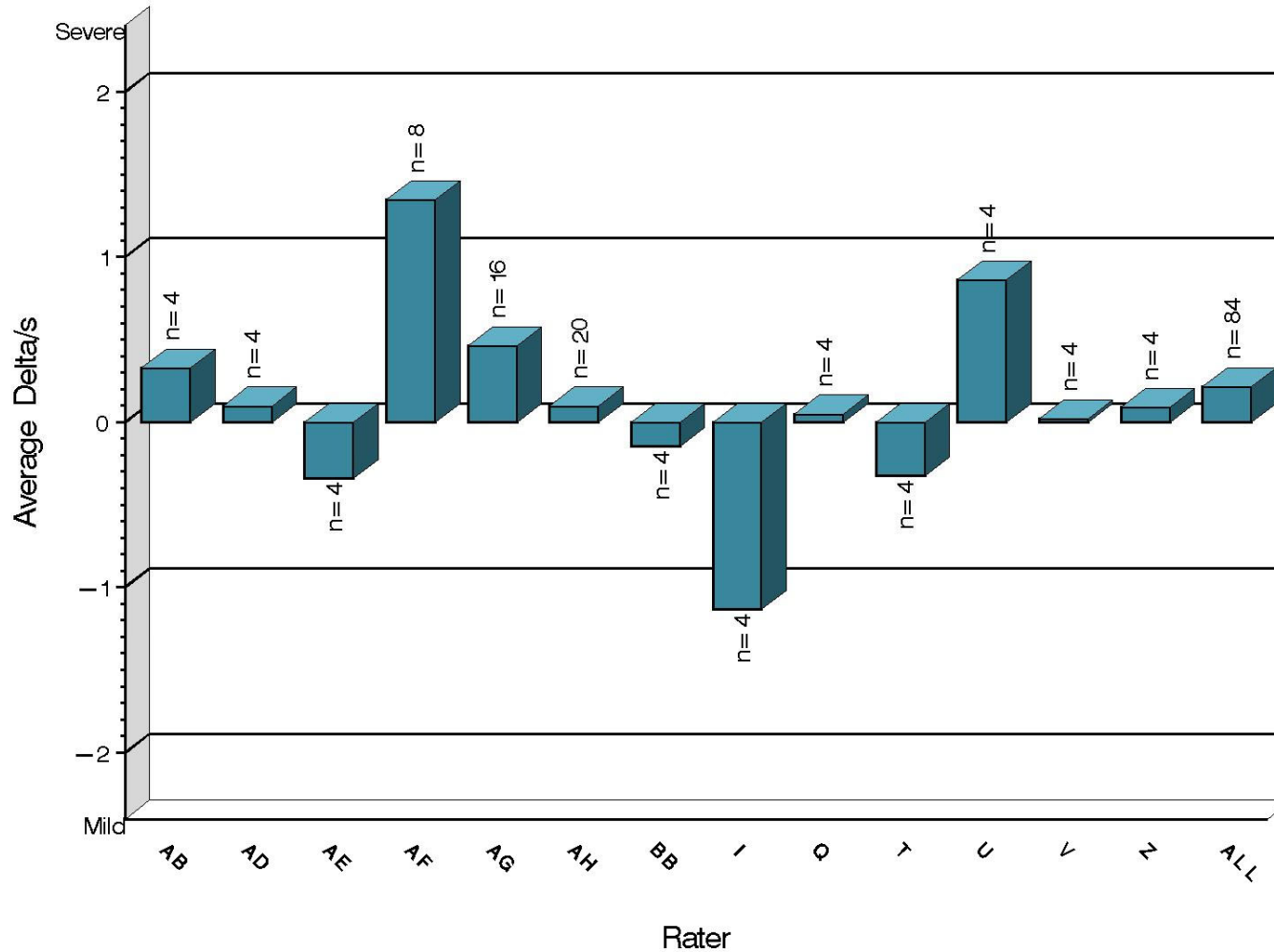
L-42 Rater Calibration

Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
AB	4	0.329	1.075	0.463	1.352
AD	4	0.098	0.320	0.596	1.789
AE	4	-0.341	0.864	0.251	0.226
AF	8	1.345	1.72	0.395	1.509
AG	16	0.464	1.635	0.714	2.032
AH	20	0.097	1.152	0.284	1.851
BB	4	-0.148	0.186	-0.213	0.160
I	4	-1.136	0.987	-0.155	0.888
T	4	-0.327	0.611	0.111	0.303
U	4	0.859	0.729	-0.371	0.751
V	4	0.021	0.597	-0.274	0.564
Z	4	0.088	0.587	0.385	1.207
ALL	84	0.216	1.222	0.273	1.461

* Due to the small number of ratings per part, the standard deviation of the Yi values is given in place of a pooled standard deviation.

L-42 Rater Calibration

PINION SCORING
Severity as Measured by Delta/s



11:47:16 24APR2024

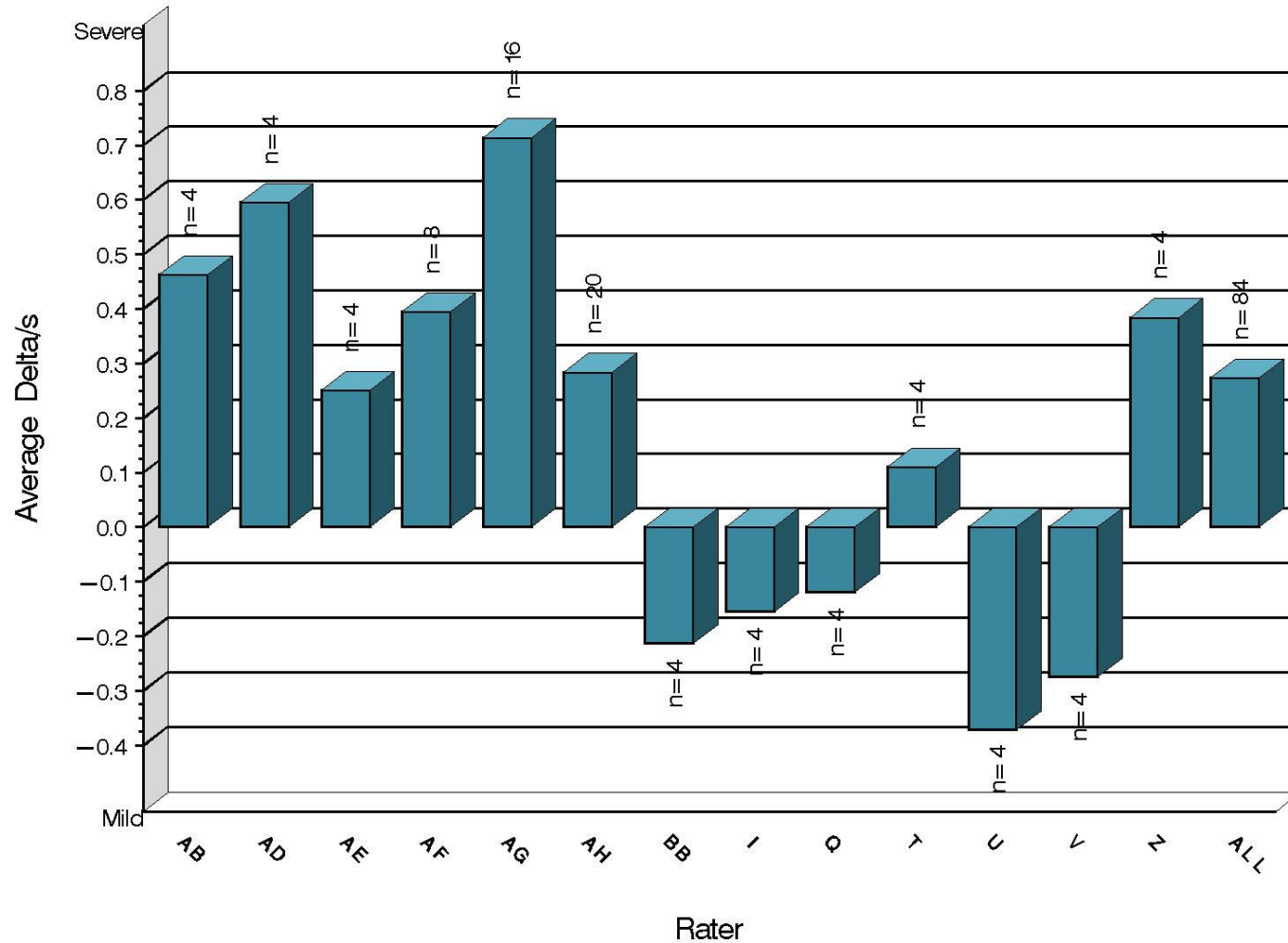


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L-42 Rater Calibration

RING SCORING
Severity as Measured by Delta/s



11:47:16 24APR2024

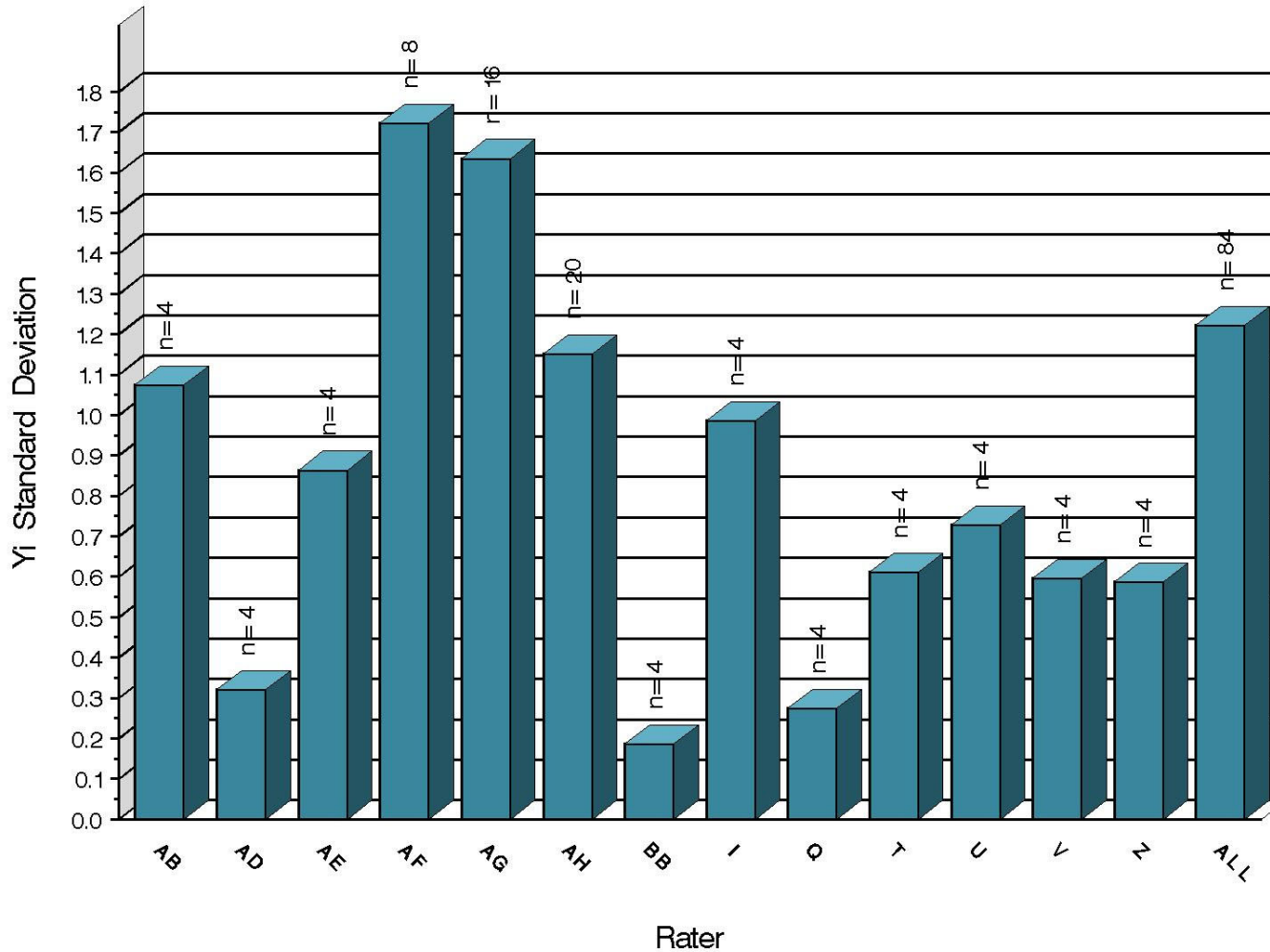


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L-42 Rater Calibration

PINION SCORING
Precision as Measured by Yi STD



11:47:16 24APR2024



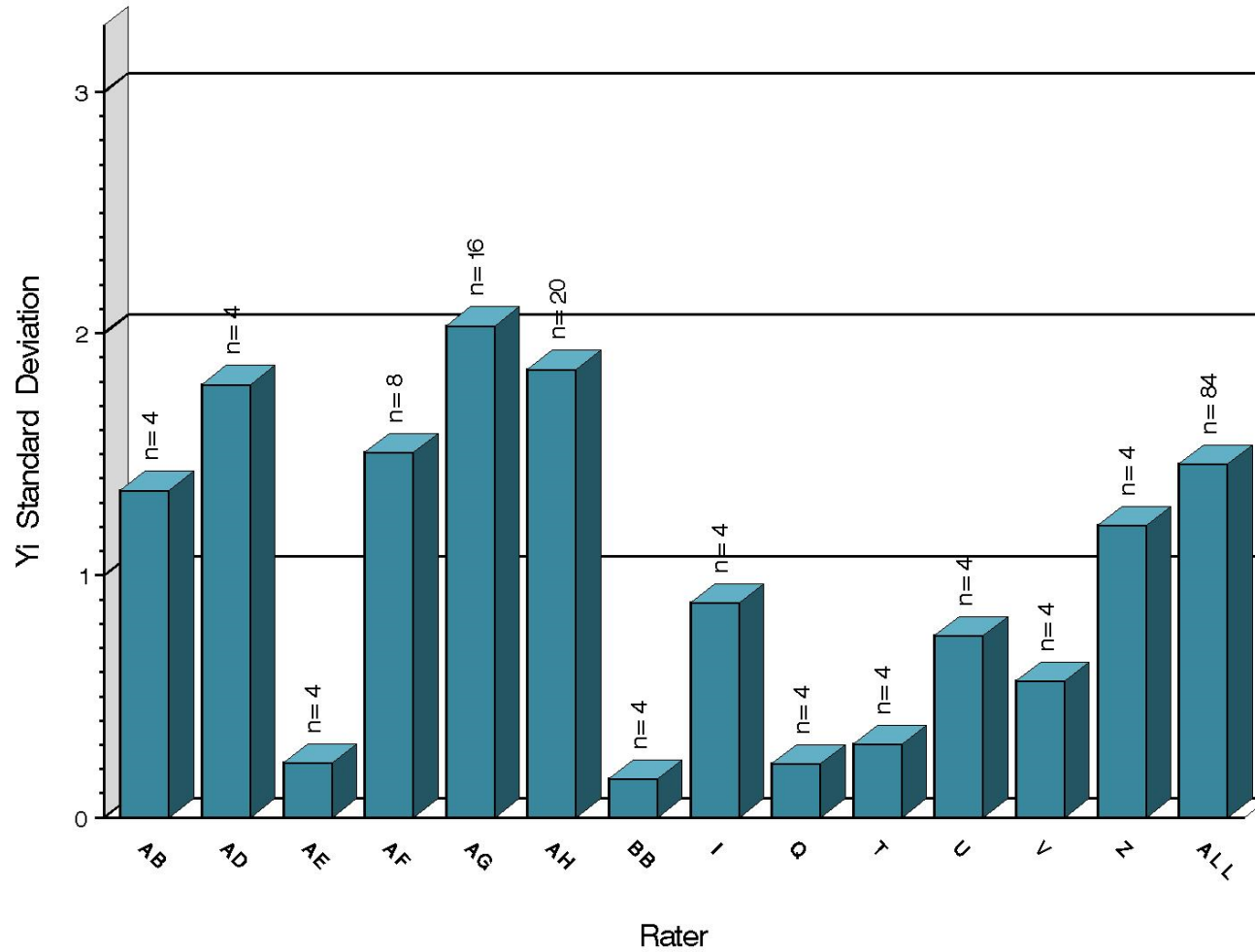
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L-42 Rater Calibration

RING SCORING
Precision as Measured by Yi STD



11:47:16 24APR2024



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L-42 Rater Calibration

SUMMARY OF SEVERITY & PRECISION

Severity

PSCR remained within the limits test this period. RSCR exceeded the action limit in the mild direction this period but has since returned within limits.

Precision

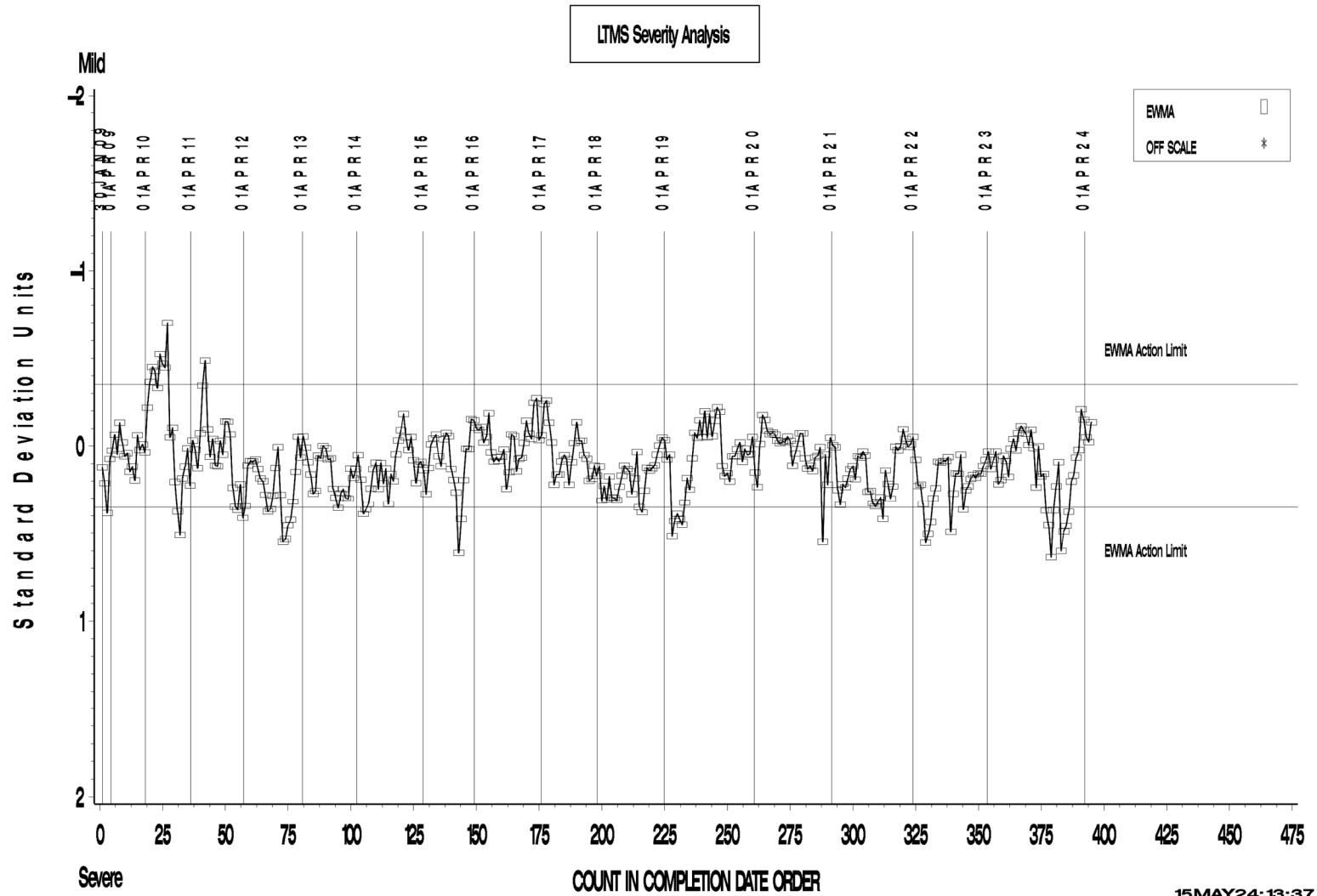
RSCR exceeded the action limit this period, but has since returned within the limits. PSCR remained within the limits this reporting period.

Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

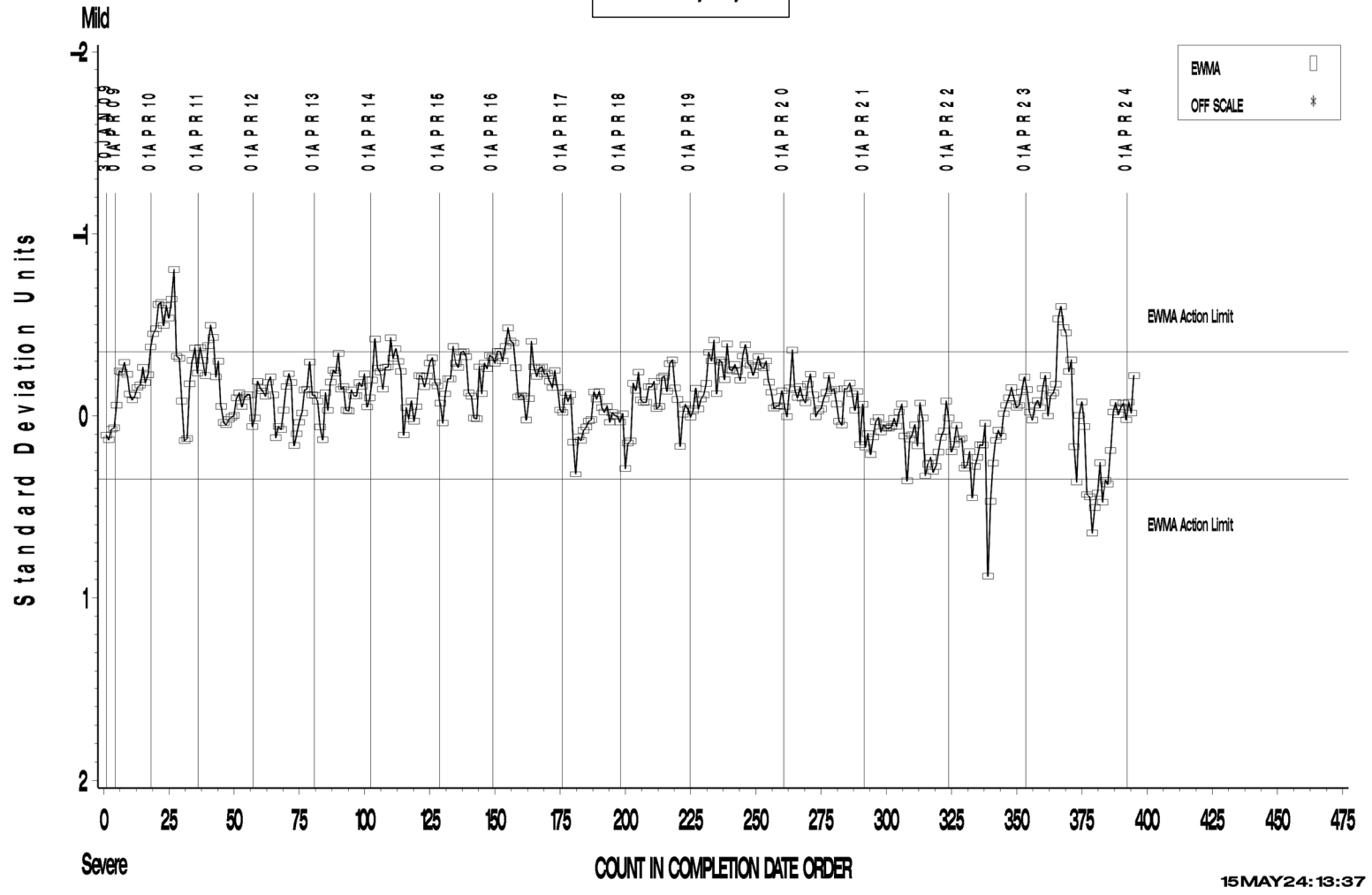


L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Severity Analysis



15 MAY 24: 13:37



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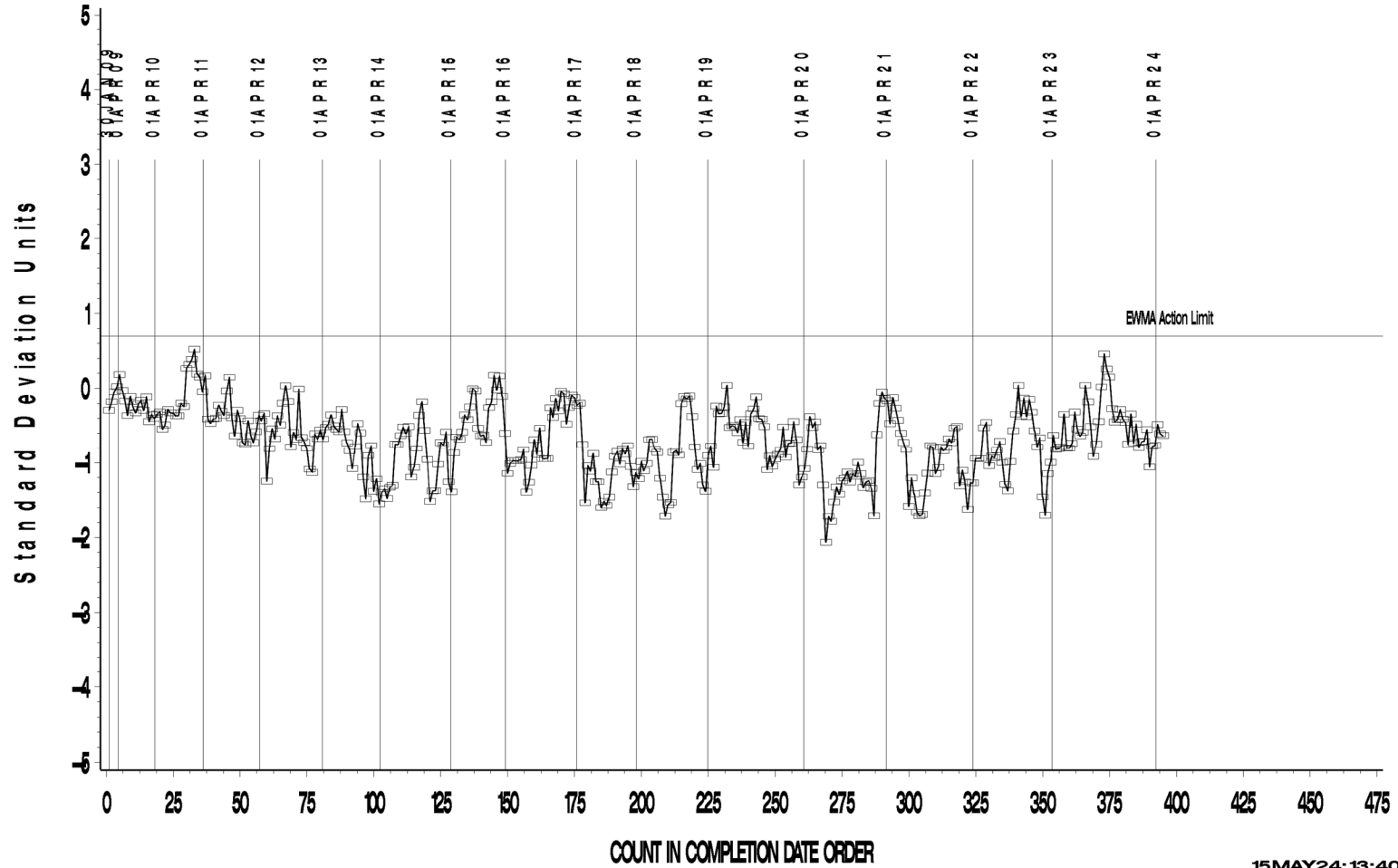
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



15MAY24:13:40



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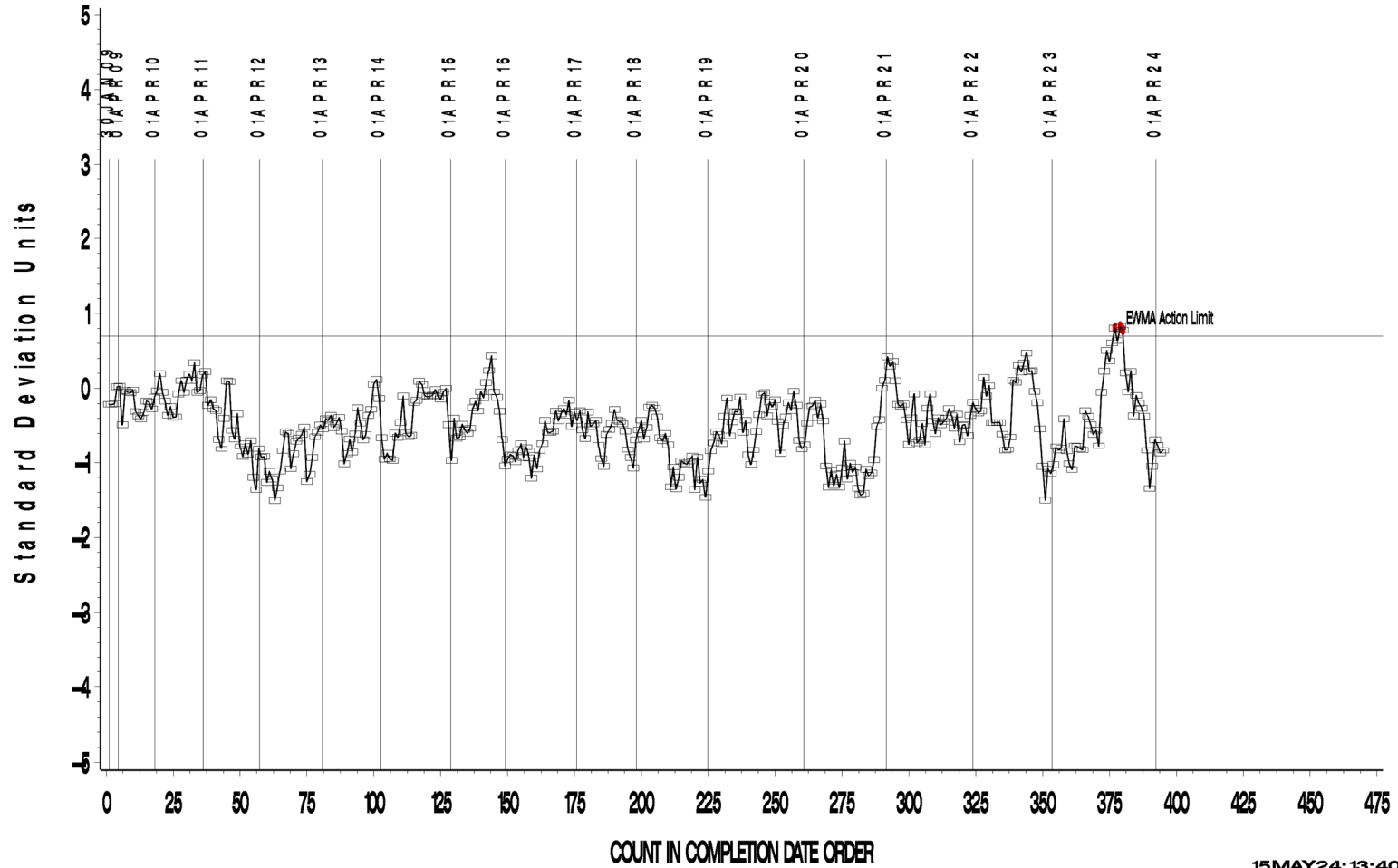
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



15MAY24: 13:41



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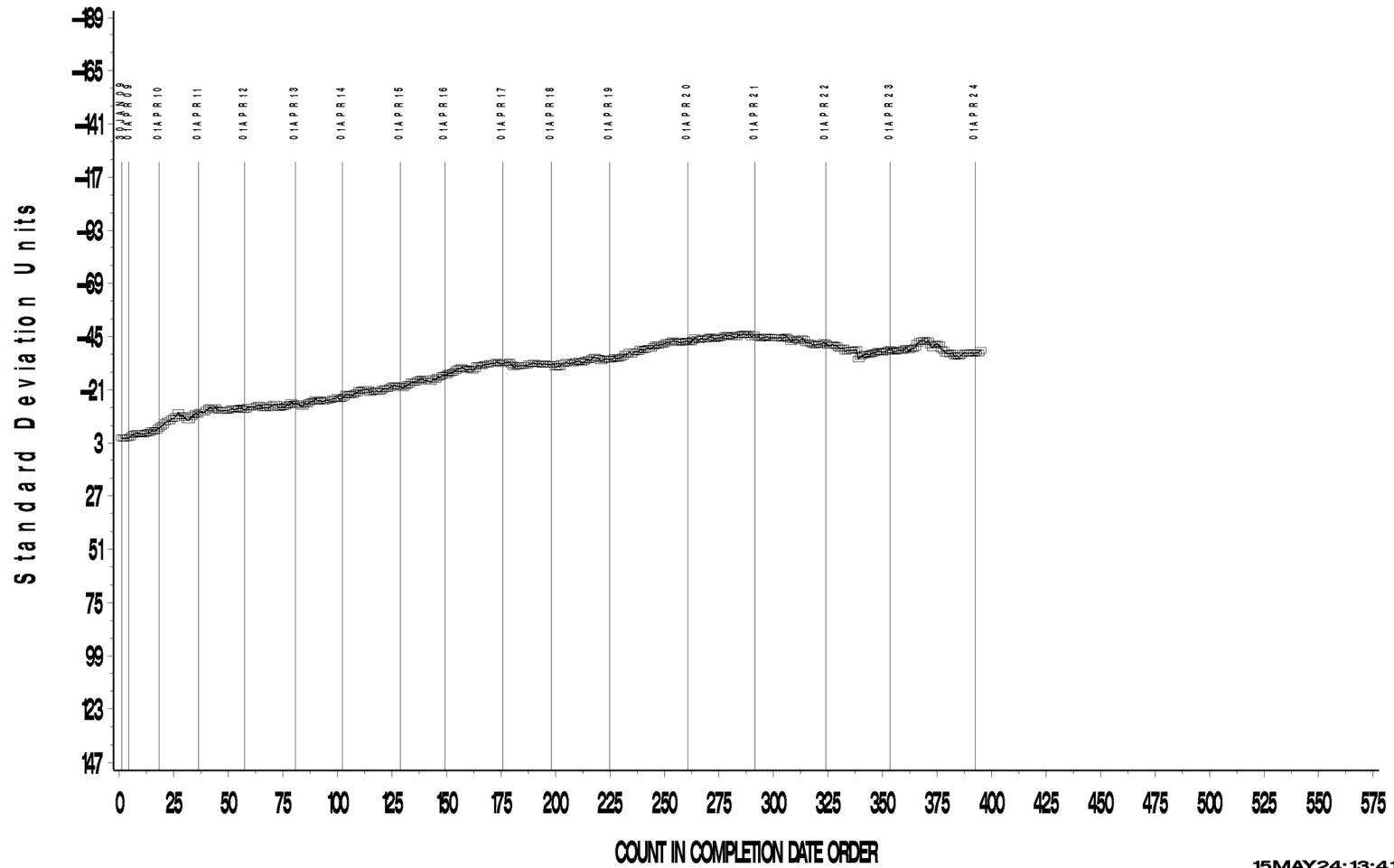
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RING SCORING

CUSUM Severity Analysis



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