Collaborative Testing Services, Inc.

Rubber Interlaboratory Testing Program

Summary Report #204- 2nd Qtr 2020

About the Rubber Program, About CTS

Key for Web Summary Report

Analysis	Analysis Name
605	Tensile Strength: Precured Rubber Samples
606	Ultimate Elongation: Precured Rubber Samples
607	Stress at 300% Elongation: Precured Samples
608	Stress at 100% Elongation: Precured Samples
620	Hardness (Type A): Precured Rubber Samples
621	Density: Precured Rubber Samples @ 25C
625	Hardness (Shore D/Type D)
630	Tensile Strength: Participant-Cured Rubber
631	Ultimate Elongation: Participant-Cured Samples
632	Tensile Stress at 300% Elongation: Lab-Cured
633	Tensile Stress at 100% Elongation: Lab-Cured
635	Compression Set
660	Mooney Viscosity (4-minute readings)
661	Mooney Viscosity (8-minute butyl readings)
662	Mooney Stress Relaxation: t80
663	Mooney Stress Relaxation: X30
664	Mooney Stress Relaxation: Area under curve
669	ODR Vulcanization Charac.: Cure Time 10%
670	ODR Vulcanization Charac.: Scorch Time, Ts1
671	ODR Vulcanization Charac.: Cure Time 50%
672	ODR Vulcanization Charac.: Cure Time 90%
673	ODR Vulcanization Charac.: Minimum Torque
674	ODR Vulcanization Charac.: Maximum Torque
684	MDR Vulcanization Charac.: Cure Time 10%
685	MDR Vulcanization Charac.: Scorch Time, Ts1
686	MDR Vulcanization Charac.: Cure Time 50%
687	MDR Vulcanization Charac.: Cure Time 90%
688	MDR Vulcanization Charac.: Minimum Torque
689	MDR Vulcanization Charac.: Maximum Torque

Analysis	Analysis Name
690	RPA Rheological Properties: Part A - G′ at 20Hz
691	RPA Rheological Properties: Part A - G″ at 20Hz
695	RPA Rheological Properties: Part B - G′ at 1.0Hz
696	RPA Rheological Properties: Part B - G″ at 1.0Hz

ABOUT THE PROGRAM

The Collaborative Reference Program for RUBBER, which was initiated in 1969, is operated and maintained by Collaborative Testing Services, Inc. (CTS), with technical guidance provided by the Rubber Division of the American Chemical Society. The program allows laboratories to compare periodically the level and uniformity of their testing with that of other participating laboratories. It also provides a realistic assessment of the state of rubber testing proficiency.

For each test there are summary statistics and a graphical representation of the data. Also shown are notes concerning specific laboratory results, as well as significant findings related to instrument types or other testing variations. Please refer to the section KEY TO TABLES AND GRAPHS for an explanation of terms and guidelines to interpreting the results.

ABOUT CTS

Founded in 1971, CTS is a privately-owned company that specializes in interlaboratory tests for a wide variety of industrial sectors, including rubber, plastics, fasteners and metals, containerboard, paper and color, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality control objectives. Labs from the U.S., as well as more than 80 countries, currently participate in CTS programs.

If there are any questions on the report or testing program, please contact:

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Key for Web Summary Report (Page 1 of 2)

WebCode — Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Rubber Report published on the CTS Web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.

Lab Mean — Tensile & Hardness: the average of the median values obtained for each sample. All other tests: the average of the test results obtained by the participant.

Grand Mean — The average of the LAB MEANS for all included participants. Laboratories flagged with an X or an M (see DATA FLAG column) are excluded from the GRAND MEAN.

Difference from Grand Mean — The difference of the LAB MEAN from the GRAND MEAN.

Between-Lab Standard Deviation — An indication of the precision of measurement between the laboratories. The greater the spread of the LAB MEANS about the GRAND MEAN, the larger the BETWEEN-LAB STANDARD DEVIATION (and vice versa).

Comparative Performance Value — An indication of how well a laboratory's results agree with the other participants. The CPV is a ratio indicating the number of standard deviations from the GRAND MEAN. The closer a laboratory's COMPARATIVE PERFORMANCE VALUE is to zero, the more consistent its results are with the other participants' data (and vice versa). The critical value for each CPV will vary depending on the number of labs participating in a test.

Inst Code — If instruments are tracked in a test, a code indicating the manufacturer of the instrument used to perform the test (see separate INSTRUMENT CODE LIST for each test section).

Data Flag — DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

DATA FLAG	STATISTICALLY INCLUDED/EXCLUDED	ACTION REQUIRED
*	INCLUDED	**CAUTION** - review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	**STOP** - immediate review of data and/or testing procedure is required. Results fall outside the 99% ellipse. See specific notes following each table for more information on why the data is excluded.
M	EXCLUDED	**PROCEED** - lab was unable to report data for at least one sample. However, a lab receiving two of more M flags for a test may need to stop and review its testing procedures.

Graph - For each laboratory, the LAB MEAN for the first sample (x-axis) is plotted against the LAB MEAN for the second sample (y-axis) with each point representing a laboratory. The horizontal and vertical cross-hairs are the GRAND MEANS for each sample. When 20 or more laboratories are in the statistics, an ellipse is also drawn so that 95% of the time a randomly selected laboratory will be included inside the ellipse. Plotted data flags are explained above.

Common Problems Highlighted in Footnotes

1. ***Extreme data*** - The laboratory's results for one or both samples are so inconsistent with those of the other participants that the lab mean(s) fall outside the plot. (The data usually vary by more than three standard deviations from the grand mean.) The participant is advised to immediately review his data and/or testing procedure.

2. ***Systematic bias*** - The laboratory's results are either consistently high or low for both samples when compared to the other participants (the plotted point falls near the top or bottom of the ellipse). This indicates that the participant is performing the test with a constant bias. Causes of systematic errors include improper calibration, the particular make/model of equipment or a modification to the testing procedure.

3. ***Inconsistency in testing between samples/sample sets*** - The laboratory's results indicate that there are differences in the way the two samples tested (the plotted point falls to the side of the ellipse). This type of error may be attributed to the analyst deviating from the procedure when testing one of the samples or a material interaction occurrence with the instrument or room conditions. The inconsistency is reflected in the CPVs for the two samples, such as a +1.5 CPV for sample A and a -2.2 CPV for sample B. CTS also will specify if the laboratory's data for one sample are high/low compared to the other participants. If this inconsistency is slight, the lab's plotted point will be an * that falls on the edge of the ellipse.

4. ***Inconsistency in testing within a sample*** - The laboratory's within-lab standard deviation for a specified sample is high when compared to the other participants, often causing the lab's plotted point to fall outside of the ellipse.

5. ***Data appeared to be off by a factor of # and was corrected by CTS*** - In tests that involve computations, the results reported to CTS may be off by a factor. If this factor can easily be determined, CTS may correct the data and flag the participant. Occasionally CTS will correct a laboratory's results even though the data are still high or low when compared to the other participants. This is done so that the laboratory may be alerted to other possible errors in its testing procedure.

6. ***Data for two samples (or two tests) appeared to be switched by the lab, and the error was corrected by CTS.***

Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated in future rounds, a lab may need to stop and review its testing procedures. The initial data flag is not cause for alarm. Interlaboratory tests conducted at regular intervals permit a lab to recognize trends in testing.

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
2CHQYT		3,099.5	-140.3	-0.89	3,045.5	-196.9	-1.24
2HML22		3,074.5	-165.3	-1.04	3,000.0	-242.4	-1.53
2P8QQV		2,980.5	-259.3	-1.64	3,012.4	-230.0	-1.45
34HQZQ		3,360.0	120.2	0.76	3,345.0	102.6	0.65
3B4JDC		3,518.0	278.2	1.76	3,562.5	320.1	2.01
3UTZDY		3,439.1	199.3	1.26	3,371.1	128.7	0.81
4MWHK9		3,093.5	-146.3	-0.92	3,103.5	-138.9	-0.87
4WK97Z		3,288.0	48.2	0.30	3,392.5	150.1	0.94
6D4LXX		3,365.0	125.2	0.79	3,225.0	-17.4	-0.11
6HEPZT		3,340.5	100.7	0.64	3,229.5	-12.9	-0.08
7YW6GU		3,193.5	-46.3	-0.29	3,200.5	-41.9	-0.26
86K3Q4		3,258.5	18.7	0.12	3,189.0	-53.4	-0.34
8GX3MW		3,293.0	53.2	0.34	3,276.0	33.6	0.21
8QZMN4		3,507.0	267.2	1.69	3,453.0	210.6	1.32
8VE3CA		3,278.6	38.8	0.25	3,247.4	5.0	0.03
8XLDAY		3,009.6	-230.2	-1.46	3,140.1	-102.3	-0.64
92APEU		3,411.0	171.2	1.08	3,401.5	159.1	1.00
99X3NU		3,404.5	164.7	1.04	3,415.5	173.1	1.09
9EXQWL		3,172.6	-67.2	-0.42	3,265.5	23.1	0.15
9G8R2T	X	2,813.5	-426.3	-2.69	3,039.5	-202.9	-1.28
9JDYKL		3,326.6	86.8	0.55	3,382.2	139.8	0.88
9LGU4N		3,214.5	-25.3	-0.16	3,114.0	-128.4	-0.81
9MUGL3		3,106.5	-133.3	-0.84	3,105.5	-136.9	-0.86
9PLDBW		3,357.5	117.7	0.74	3,336.0	93.6	0.59
AZWE2M		3,146.0	-93.8	-0.59	3,105.5	-136.9	-0.86
BGYBXR		3,459.4	219.7	1.39	3,412.3	169.9	1.07
BNHGWJ		3,268.6	28.9	0.18	3,272.1	29.7	0.19
BZCXLK		3,250.5	10.7	0.07	3,220.5	-21.9	-0.14
CBUPTU		3,137.0	-102.8	-0.65	3,150.0	-92.4	-0.58
CHTJK2		3,437.4	197.7	1.25	3,480.9	238.5	1.50
D3UPUT		3,426.5	186.7	1.18	3,448.5	206.1	1.30
D636ZY		3,166.0	-73.8	-0.47	3,124.5	-117.9	-0.74
DLLVZX	*	2,781.1	-458.6	-2.90	2,781.1	-461.3	-2.90
DQ2BM4		2,993.5	-246.3	-1.56	3,105.0	-137.4	-0.86
DXWDPF		3,303.5	63.7	0.40	3,319.0	76.6	0.48
EELVZV		3,159.0	-80.8	-0.51	3,238.6	-3.8	-0.02
EGPUBN		2,889.5	-350.3	-2.21	2,881.0	-361.4	-2.27
EK64HZ		3,155.0	-84.8	-0.54	3,118.7	-123.7	-0.78

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
EPLB4E		3,326.2	86.4	0.55	3,460.4	218.0	1.37
EV7LYV		3,211.0	-28.8	-0.18	3,161.0	-81.4	-0.51
F84P4P		3,343.0	103.2	0.65	3,346.0	103.6	0.65
FCXJ2Q		3,150.5	-89.2	-0.56	3,287.0	44.6	0.28
FF9WHP		3,294.3	54.5	0.34	3,306.2	63.8	0.40
G7JB6D		3,589.7	349.9	2.21	3,597.0	354.6	2.23
G8XUXN		3,267.0	27.2	0.17	3,270.0	27.6	0.17
GWCQPN		3,010.0	-229.8	-1.45	3,070.0	-172.4	-1.08
HC4PBW		3,329.0	89.2	0.56	3,354.0	111.6	0.70
HFM3VJ		3,077.5	-162.3	-1.03	3,109.5	-132.9	-0.84
JABEUM		3,146.2	-93.6	-0.59	3,158.2	-84.2	-0.53
JF3QNY		3,194.5	-45.3	-0.29	3,106.7	-135.7	-0.85
K448TP		3,525.0	285.2	1.80	3,540.0	297.6	1.87
KMDAHH	X	4,966.1	1,726.4	10.91	3,473.0	230.5	1.45
KNNB6G		3,252.5	12.7	0.08	3,326.5	84.1	0.53
MC9ZRB	X	3,126.3	-113.5	-0.72	2,863.1	-379.4	-2.39
MD3PCR		3,409.9	170.1	1.08	3,378.0	135.5	0.85
MECVBD	*	3,262.7	23.0	0.15	3,436.8	194.4	1.22
MN2MX7		3,380.8	141.0	0.89	3,383.7	141.3	0.89
MPCKBM		3,145.5	-94.3	-0.60	3,149.0	-93.4	-0.59
MWUTYJ		3,125.6	-114.2	-0.72	3,045.8	-196.6	-1.24
N7YXPF		3,239.0	-0.8	0.00	3,164.5	-77.9	-0.49
NDVYHD		3,180.4	-59.4	-0.38	3,143.1	-99.3	-0.62
NLP846		3,310.0	70.2	0.44	3,212.5	-29.9	-0.19
NMM9CH		3,097.5	-142.3	-0.90	3,054.5	-187.9	-1.18
NQMLWL		3,468.0	228.2	1.44	3,380.0	137.6	0.87
NXNV4E		3,175.0	-64.8	-0.41	3,202.5	-39.9	-0.25
P6VYJC		3,099.4	-140.4	-0.89	3,113.5	-128.9	-0.81
PMFPHB		3,063.3	-176.4	-1.12	3,159.9	-82.5	-0.52
PQE7V6		3,356.0	116.2	0.73	3,429.0	186.6	1.17
Q2FQVC		3,393.9	154.1	0.97	3,401.2	158.8	1.00
RCU4QL		3,165.5	-74.3	-0.47	3,064.7	-177.7	-1.12
RK4MTH		3,408.5	168.7	1.07	3,435.5	193.1	1.21
RN7L4B		3,376.0	136.2	0.86	3,315.0	72.6	0.46
RXANMM		3,495.4	255.7	1.62	3,393.2	150.8	0.95
RYKH9E		3,242.0	2.2	0.01	3,236.0	-6.4	-0.04
T9PPNE		3,136.5	-103.3	-0.65	3,227.0	-15.4	-0.10

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample B03-B04 Lab Mean	Sample B03-B04 Diff from Grand Mean	Sample B03-B04 CPV
U7GZYB		3,169.8	-69.9	-0.44	3,261.9	19.5	0.12
UM6BLD		3,043.2	-196.6	-1.24	3,105.5	-136.9	-0.86
V623XX		3,333.0	93.2	0.59	3,462.0	219.6	1.38
VEARKA		3,231.5	-8.3	-0.05	3,197.4	-45.0	-0.28
W2DAYZ		2,920.0	-319.8	-2.02	2,965.0	-277.4	-1.75
WMEYYA		3,255.3	15.6	0.10	3,198.5	-43.9	-0.28
WW6K68		3,394.7	154.9	0.98	3,440.8	198.3	1.25
X69EC6		3,404.7	164.9	1.04	3,317.7	75.3	0.47
XNNMD7		3,130.7	-109.1	-0.69	3,182.2	-60.3	-0.38
XV48W6	X	2,781.0	-458.8	-2.90	2,982.5	-259.9	-1.64
ZBTTF3		3,202.0	-37.8	-0.24	3,145.0	-97.4	-0.61
ZKKCUB		3,038.1	-201.7	-1.28	3,139.8	-102.7	-0.65
ZQML24		3,314.5	74.7	0.47	3,346.0	103.6	0.65
ZWNYFD		3,030.5	-209.3	-1.32	2,954.5	-287.9	-1.81

Summary Statistics

	Sample B01-B02	Sample B03-B04
Grand Means	3,239.77 psi	3,242.41 psi
Stnd Dev Btwn Labs	158.17 psi	158.94 psi

Statistics based on 85 of 89 reporting participants

Summary Statistics in SI Units

	Sample B01-B02	Sample B03-B04
Grand Means	22.337 MPa	22.36 MPa
Stnd Dev Btwn Labs	1.091 MPa	1.10 MPa

Statistics based on 85 of 89 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #605

9G8R2T (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B01-B02.

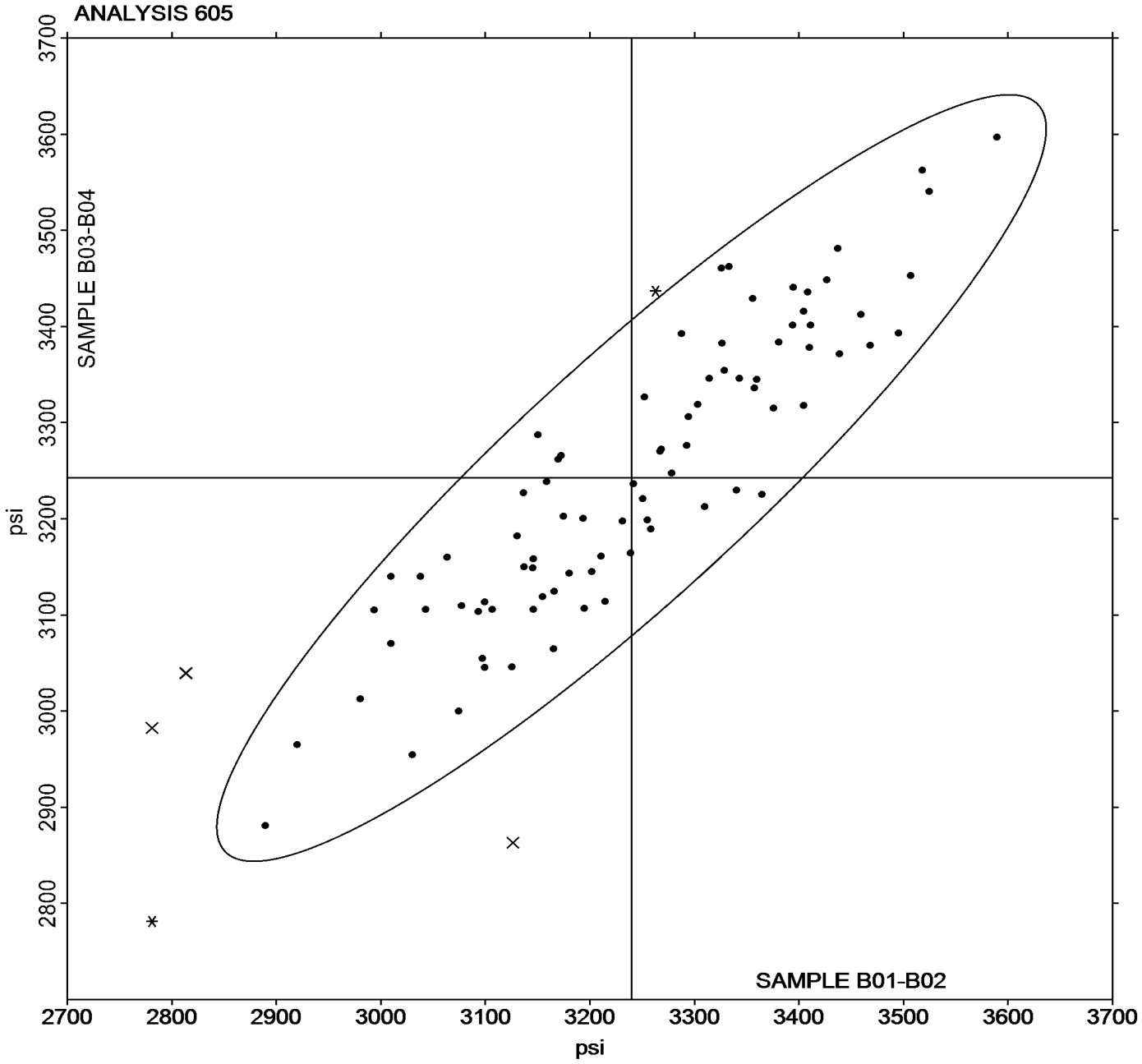
KMDAHH (X) - Extreme Data for sample group B01-B02.

MC9ZRB (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B03-B04.

XV48W6 (X) - Data for sample group B01-B02 are low. Inconsistent within the determinations of sample group B01-B02.

Grand Mean Sample **B01-B02** = 3,239.77 psi

Grand Mean Sample **B03-B04** = 3,242.41 psi



WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
2CHQYT		571.7	-45.9	-1.53	570.3	-47.3	-1.66
2HML22		624.0	6.4	0.21	612.5	-5.0	-0.18
2P8QQV		600.0	-17.6	-0.58	613.0	-4.5	-0.16
34HQZQ		577.5	-40.1	-1.33	588.5	-29.0	-1.02
3B4JDC		617.5	-0.1	0.00	614.0	-3.5	-0.12
3UTZDY		572.5	-45.1	-1.50	577.0	-40.5	-1.42
4MWHK9		580.0	-37.6	-1.25	590.0	-27.5	-0.96
4WK97Z		607.0	-10.6	-0.35	585.0	-32.5	-1.14
6D4LXX	*	646.0	28.4	0.95	615.5	-2.0	-0.07
6HEPZT		646.5	28.9	0.96	633.0	15.5	0.54
7YW6GU		560.5	-57.1	-1.90	574.0	-43.5	-1.53
86K3Q4		619.5	1.9	0.06	622.5	5.0	0.17
8GX3MW		610.5	-7.1	-0.24	609.0	-8.5	-0.30
8QZMN4		647.6	30.1	1.00	639.6	22.1	0.77
8VE3CA		601.5	-16.1	-0.53	592.0	-25.5	-0.89
8XLDAY		590.7	-26.9	-0.89	606.4	-11.1	-0.39
92APEU		655.0	37.4	1.24	645.0	27.5	0.96
99X3NU		548.5	-69.1	-2.30	562.0	-55.5	-1.95
9EXQWL		628.0	10.4	0.35	618.3	0.8	0.03
9G8R2T	X	559.5	-58.1	-1.93	597.5	-20.0	-0.70
9JDYKL		631.8	14.2	0.47	620.3	2.8	0.10
9LGU4N		614.5	-3.1	-0.10	617.0	-0.5	-0.02
9MUGL3	*	565.5	-52.1	-1.73	550.0	-67.5	-2.37
9PLDBW		631.5	13.9	0.46	638.0	20.5	0.72
AZWE2M		670.0	52.4	1.74	666.5	49.0	1.72
BGYBXR		582.2	-35.3	-1.18	583.6	-34.0	-1.19
BNHGWJ		571.5	-46.1	-1.53	574.9	-42.6	-1.49
BZCXLK		623.0	5.4	0.18	624.0	6.5	0.23
CBUPTU		635.5	17.9	0.60	646.5	29.0	1.02
CHTJK2		588.5	-29.1	-0.97	584.5	-33.0	-1.16
D3UPUT		643.5	25.9	0.86	648.0	30.5	1.07
D636ZY		603.0	-14.6	-0.48	603.0	-14.5	-0.51
DLLVZX		675.5	57.9	1.93	678.5	61.0	2.14
DQ2BM4		581.0	-36.6	-1.22	579.5	-38.0	-1.33
DXWDPF		668.5	50.9	1.69	661.5	44.0	1.54
EELVZV		618.4	0.8	0.03	632.7	15.2	0.53
EGPUBN		635.5	17.9	0.60	636.5	19.0	0.66

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample B03-B04 Lab Mean	Sample B03-B04 Diff from Grand Mean	Sample B03-B04 CPV
EK64HZ		647.0	29.4	0.98	643.5	26.0	0.91
EPLB4E		658.4	40.8	1.36	645.9	28.4	0.99
EV7LYV		646.5	28.9	0.96	637.0	19.5	0.68
F84P4P		628.5	10.9	0.36	638.0	20.5	0.72
FCXJ2Q		631.6	14.0	0.47	645.9	28.4	0.99
FF9WHP		626.0	8.4	0.28	633.1	15.5	0.54
G7JB6D		625.0	7.4	0.25	629.0	11.5	0.40
G8XUXN		632.5	14.9	0.50	632.5	15.0	0.52
HC4PBW		621.0	3.4	0.11	632.5	15.0	0.52
HFM3VJ		550.5	-67.1	-2.23	559.0	-58.5	-2.05
JABEUM		613.5	-4.1	-0.14	609.5	-8.0	-0.28
JF3QNY		636.2	18.6	0.62	620.0	2.4	0.08
K448TP		624.5	6.9	0.23	643.0	25.5	0.89
KMDAHH		605.0	-12.6	-0.42	604.0	-13.5	-0.47
KNNB6G		629.5	11.9	0.40	627.0	9.5	0.33
MC9ZRB	X	575.0	-42.5	-1.41	538.6	-78.9	-2.77
MD3PCR	*	675.2	57.6	1.92	689.2	71.6	2.51
MECVBD		566.5	-51.0	-1.70	575.7	-41.8	-1.47
MN2MX7	X	715.6	98.1	3.26	718.5	101.0	3.54
MPCKBM		612.5	-5.1	-0.17	619.0	1.5	0.05
MWUTYJ		608.0	-9.6	-0.32	605.0	-12.5	-0.44
N7YXPF		605.0	-12.6	-0.42	596.0	-21.5	-0.75
NDVYHD		630.0	12.4	0.41	632.3	14.8	0.52
NLP846		621.5	3.9	0.13	610.5	-7.0	-0.25
NMM9CH		595.5	-22.1	-0.73	605.0	-12.5	-0.44
NQMLWL	*	669.0	51.4	1.71	639.5	22.0	0.77
NXNV4E		614.5	-3.1	-0.10	616.5	-1.0	-0.04
P6VYJC		626.1	8.5	0.28	637.4	19.8	0.70
PMFPHB		575.1	-42.5	-1.41	595.1	-22.5	-0.79
PQE7V6		629.5	11.9	0.40	636.0	18.5	0.65
Q2FQVC		643.0	25.4	0.85	640.5	23.0	0.81
RCU4QL		626.5	8.9	0.30	623.0	5.5	0.19
RK4MTH		641.5	23.9	0.80	641.5	24.0	0.84
RN7L4B		626.0	8.4	0.28	622.0	4.5	0.16
RXANMM	X	737.0	119.4	3.97	724.0	106.5	3.73
RYKH9E		656.5	38.9	1.29	641.5	24.0	0.84
T9PPNE		620.0	2.4	0.08	619.0	1.5	0.05
U7GZYB		606.0	-11.6	-0.38	609.5	-8.0	-0.28

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
UM6BLD		596.5	-21.1	-0.70	608.0	-9.5	-0.33
V623XX		576.0	-41.6	-1.38	592.5	-25.0	-0.88
VEARKA		639.5	21.9	0.73	638.3	20.7	0.73
W2DAYZ		662.0	44.4	1.48	673.0	55.5	1.94
WMEYYA		629.5	11.9	0.40	629.5	12.0	0.42
WW6K68		646.5	29.0	0.96	648.7	31.1	1.09
X69EC6		620.2	2.6	0.09	617.2	-0.4	-0.01
XNNMD7		596.0	-21.6	-0.72	598.0	-19.5	-0.68
XV48W6	X	509.5	-108.1	-3.59	510.0	-107.5	-3.77
ZBTTF3	*	554.0	-63.6	-2.11	547.5	-70.0	-2.45
ZKKCUB		640.0	22.4	0.75	640.0	22.5	0.79
ZQML24		618.0	0.4	0.01	601.0	-16.5	-0.58
ZWNYFD		612.5	-5.1	-0.17	594.5	-23.0	-0.81

Summary Statistics

	Sample B01-B02	Sample B03-B04
Grand Means	617.57 percent	617.52 percent
Stnd Dev Btwn Labs	30.07 percent	28.54 percent

Statistics based on 83 of 88 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #606

9G8R2T (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B01-B02.

MC9ZRB (X) - Data for sample group B03-B04 are low. Inconsistent within the determinations of sample group B03-B04.

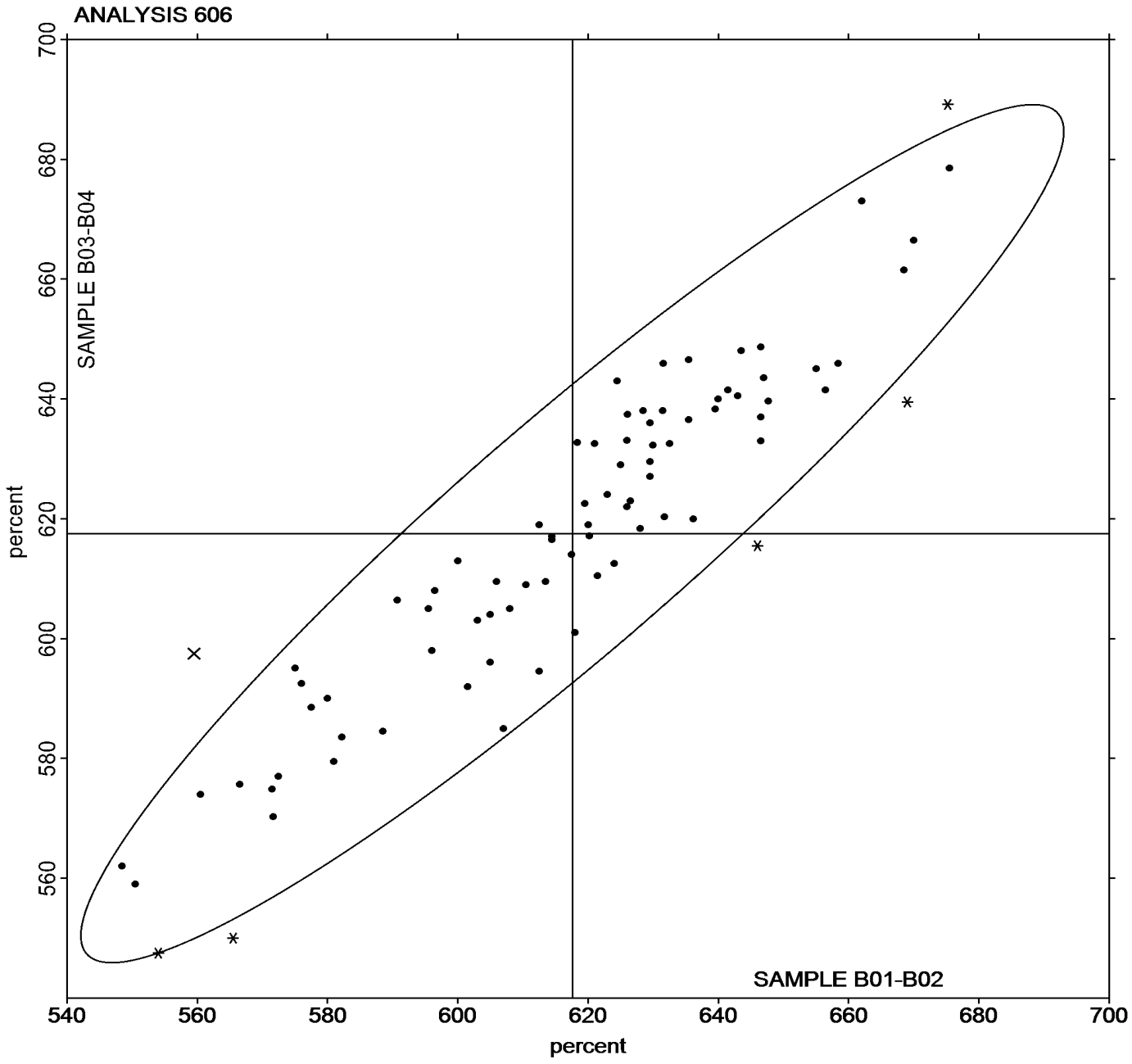
MN2MX7 (X) - Data for all samples are high. Possible Systematic Error.

RXANMM (X) - Data for all samples are high. Possible Systematic Error.

XV48W6 (X) - Data for all samples are low. Possible Systematic Error. Inconsistent within the determinations of sample group B01-B02.

Grand Mean Sample **B01-B02** = 617.57 percent

Grand Mean Sample **B03-B04** = 617.52 percent



WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample B03-B04 Lab Mean	Sample B03-B04 Diff from Grand Mean	Sample B03-B04 CPV
2CHQYT		1,071.0	106.6	1.14	1,065.1	101.0	1.07
2HML22		915.5	-48.8	-0.52	883.0	-81.1	-0.86
34HQZQ		1,160.0	195.7	2.10	1,110.0	145.9	1.55
3B4JDC		998.0	33.7	0.36	1,069.5	105.4	1.12
3UTZDY		1,106.1	141.8	1.52	1,048.0	83.9	0.89
4MWHK9		1,009.0	44.7	0.48	1,010.0	45.9	0.49
4WK97Z		1,029.0	64.7	0.69	1,089.0	124.9	1.33
6D4LXX		1,006.0	41.7	0.45	974.0	9.9	0.11
6HEPZT		928.5	-35.8	-0.38	929.0	-35.1	-0.37
7YW6GU		1,136.0	171.7	1.84	1,079.0	114.9	1.22
86K3Q4		962.5	-1.8	-0.02	935.5	-28.6	-0.30
8GX3MW		1,017.5	53.2	0.57	1,008.0	43.9	0.47
8QZMN4		974.6	10.2	0.11	1,034.9	70.8	0.75
8VE3CA		855.7	-108.6	-1.16	909.4	-54.7	-0.58
8XLDAY		929.0	-35.3	-0.38	952.9	-11.2	-0.12
92APEU		886.0	-78.3	-0.84	928.5	-35.6	-0.38
99X3NU	*	1,219.0	254.7	2.73	1,188.5	224.4	2.39
9EXQWL		911.0	-53.3	-0.57	904.5	-59.6	-0.63
9JDYKL		999.3	35.0	0.38	1,071.7	107.6	1.14
9LGU4N		945.5	-18.8	-0.20	964.0	-0.1	0.00
9MUGL3	*	1,062.5	98.2	1.05	1,159.5	195.4	2.08
9PLDBW		970.0	5.7	0.06	909.0	-55.1	-0.59
AZWE2M		813.5	-150.8	-1.62	832.0	-132.1	-1.40
BGYBXR		1,134.5	170.2	1.82	1,110.6	146.6	1.56
BNHGWJ		1,077.8	113.5	1.22	1,042.6	78.6	0.84
BZCXLK		969.5	5.2	0.06	935.5	-28.6	-0.30
CBUPTU		889.5	-74.8	-0.80	891.5	-72.6	-0.77
CHTJK2		1,074.7	110.4	1.18	1,135.7	171.6	1.82
D3UPUT		958.0	-6.3	-0.07	963.5	-0.6	-0.01
D636ZY		978.5	14.2	0.15	963.5	-0.6	-0.01
DLLVZX	*	686.0	-278.3	-2.98	696.2	-267.9	-2.85
DQ2BM4		913.5	-50.8	-0.54	950.0	-14.1	-0.15
DXWDPF		893.5	-70.8	-0.76	887.0	-77.1	-0.82
EELVZV		941.1	-23.2	-0.25	932.0	-32.1	-0.34
EGPUBN		816.5	-147.8	-1.58	801.0	-163.1	-1.73
EK64HZ		887.0	-77.3	-0.83	881.3	-82.7	-0.88
EPLB4E	*	940.3	-24.0	-0.26	1,051.0	87.0	0.92
EV7LYV		901.5	-62.8	-0.67	938.0	-26.1	-0.28

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
F84P4P		932.0	-32.3	-0.35	950.5	-13.6	-0.14
FCXJ2Q		882.5	-81.8	-0.88	905.5	-58.5	-0.62
FF9WHP		958.1	-6.2	-0.07	957.7	-6.3	-0.07
G7JB6D		1,042.8	78.5	0.84	1,019.6	55.5	0.59
G8XUXN		960.5	-3.8	-0.04	949.5	-14.6	-0.16
HC4PBW		1,008.5	44.2	0.47	971.5	7.4	0.08
HFM3VJ		1,074.5	110.2	1.18	1,084.5	120.4	1.28
JABEUM		958.7	-5.6	-0.06	961.4	-2.7	-0.03
JF3QNY		938.4	-25.9	-0.28	924.6	-39.5	-0.42
K448TP		1,028.5	64.2	0.69	978.5	14.4	0.15
KMDAHH	X	1,578.0	613.7	6.58	1,079.8	115.7	1.23
KNNB6G		954.0	-10.3	-0.11	947.5	-16.6	-0.18
MC9ZRB		1,034.9	70.6	0.76	1,085.8	121.7	1.29
MD3PCR		885.5	-78.8	-0.84	811.5	-152.6	-1.62
MECVBD		1,138.0	173.7	1.86	1,134.5	170.4	1.81
MN2MX7	*	808.2	-156.1	-1.67	732.6	-231.5	-2.46
MPCKBM		925.5	-38.8	-0.42	942.5	-21.6	-0.23
MWUTYJ		872.5	-91.8	-0.98	858.5	-105.6	-1.12
N7YXPF		1,008.0	43.7	0.47	1,000.0	35.9	0.38
NDVYHD		920.9	-43.4	-0.47	933.6	-30.4	-0.32
NLP846		987.5	23.2	0.25	974.5	10.4	0.11
NMM9CH		1,001.5	37.2	0.40	950.5	-13.6	-0.14
NQMLWL		946.5	-17.8	-0.19	918.5	-45.6	-0.48
NXNV4E		952.5	-11.8	-0.13	920.0	-44.1	-0.47
P6VYJC		809.2	-155.2	-1.66	813.1	-151.0	-1.61
PMFPHB		1,061.0	96.6	1.04	990.5	26.4	0.28
PQE7V6		988.5	24.2	0.26	959.0	-5.1	-0.05
Q2FQVC		1,125.5	161.2	1.73	1,127.7	163.6	1.74
RCU4QL		976.1	11.8	0.13	907.9	-56.1	-0.60
RK4MTH		926.0	-38.3	-0.41	979.5	15.4	0.16
RN7L4B		984.5	20.2	0.22	961.5	-2.6	-0.03
RXANMM		813.7	-150.6	-1.61	823.1	-141.0	-1.50
RYKH9E		879.0	-85.3	-0.91	914.0	-50.1	-0.53
U7GZYB		951.5	-12.9	-0.14	960.9	-3.2	-0.03
UM6BLD		925.2	-39.1	-0.42	926.9	-37.2	-0.40
V623XX		1,009.5	45.2	0.48	999.0	34.9	0.37
VEARKA		936.4	-27.9	-0.30	902.2	-61.9	-0.66

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample B03-B04 Lab Mean	Sample B03-B04 Diff from Grand Mean	Sample B03-B04 CPV
W2DAYZ		884.6	-79.7	-0.85	891.8	-72.3	-0.77
WMEYYA		881.5	-82.8	-0.89	881.0	-83.1	-0.88
WW6K68		927.2	-37.1	-0.40	948.6	-15.5	-0.16
X69EC6		1,030.3	66.0	0.71	999.5	35.4	0.38
XNNMD7		966.0	1.7	0.02	1,004.4	40.3	0.43
ZBTTF3		1,159.5	195.2	2.09	1,148.0	183.9	1.96
ZKKCUB		810.5	-153.8	-1.65	816.0	-148.1	-1.57
ZQML24		924.5	-39.8	-0.43	973.0	8.9	0.09
ZWNYFD		880.5	-83.8	-0.90	944.0	-20.1	-0.21

Summary Statistics

	Sample B01-B02	Sample B03-B04
Grand Means	964.31 psi	964.09 psi
Stnd Dev Btwn Labs	93.33 psi	94.03 psi

Statistics based on 83 of 84 reporting participants

Summary Statistics in SI Units

	Sample B01-B02	Sample B03-B04
Grand Means	6.6486 MPa	6.65 MPa
Stnd Dev Btwn Labs	0.6435 MPa	0.65 MPa

Statistics based on 83 of 84 reporting participants

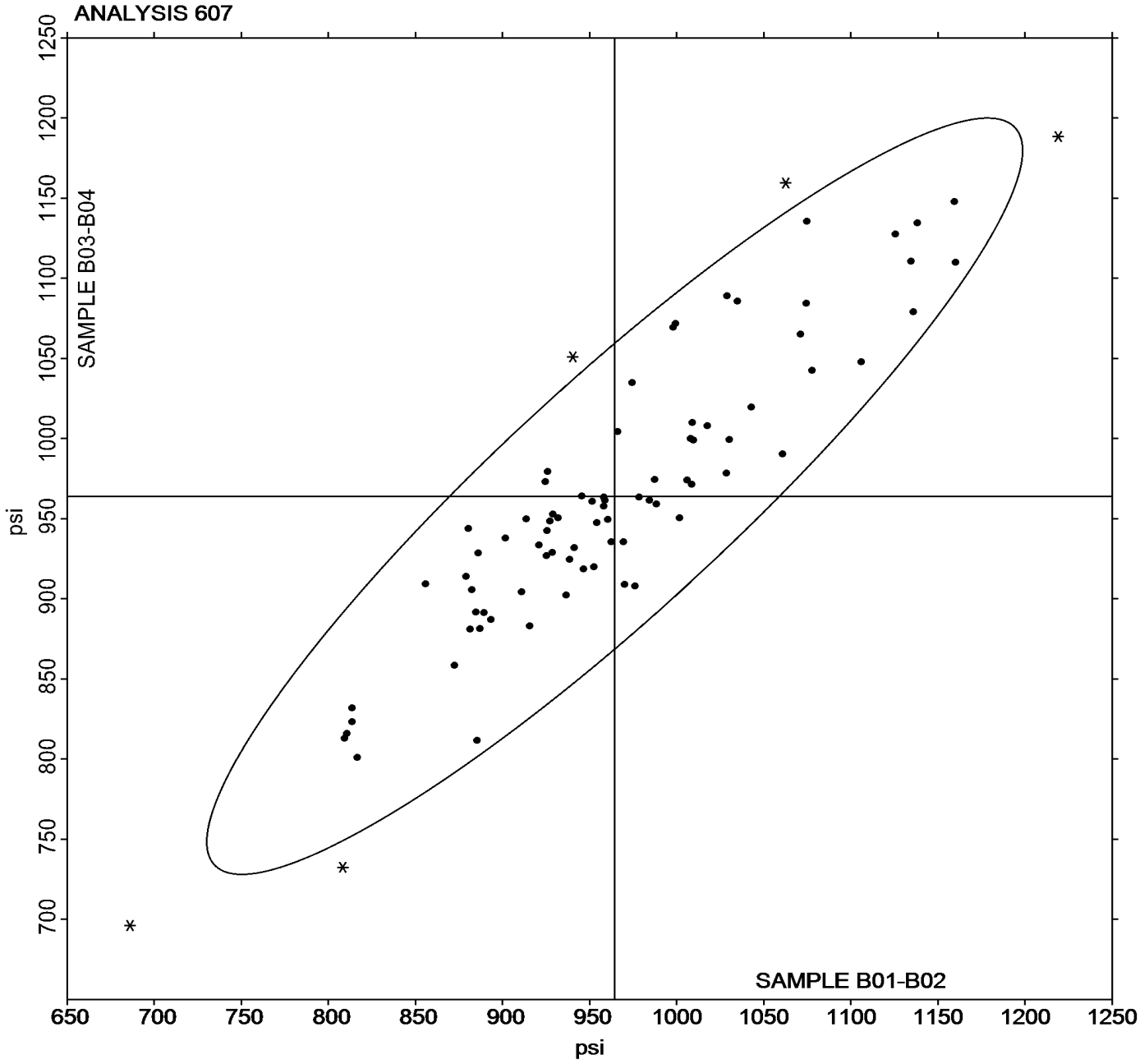
Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #607

KMDAHH (X) - Data for sample group B01-B02 are high. Inconsistent within the determinations of sample group B01-B02.

Grand Mean Sample **B01-B02** = 964.31 psi

Grand Mean Sample **B03-B04** = 964.09 psi



WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
2CHQYT		235.2	18.3	1.16	238.5	21.7	1.39
2HML22		213.0	-3.9	-0.25	204.5	-12.3	-0.79
34HQZQ	X	270.5	53.6	3.39	265.5	48.7	3.12
3B4JDC		223.5	6.6	0.42	237.5	20.7	1.33
3UTZDY		232.5	15.6	0.99	222.2	5.3	0.34
4MWHK9		220.0	3.1	0.19	220.5	3.7	0.24
4WK97Z		222.5	5.6	0.35	229.5	12.7	0.81
6D4LXX		227.5	10.6	0.67	218.0	1.2	0.08
6HEPZT		223.5	6.6	0.42	226.0	9.2	0.59
7YW6GU		191.5	-25.4	-1.61	194.5	-22.3	-1.43
86K3Q4		210.0	-6.9	-0.44	209.0	-7.8	-0.50
8GX3MW		232.5	15.6	0.99	233.0	16.2	1.04
8QZMN4		203.0	-14.0	-0.88	215.2	-1.6	-0.10
8VE3CA	X	192.2	-24.7	-1.56	223.4	6.6	0.42
8XLDAY		203.1	-13.9	-0.88	211.8	-5.1	-0.32
92APEU		202.0	-14.9	-0.94	212.5	-4.3	-0.28
99X3NU	*	259.0	42.1	2.66	248.5	31.7	2.03
9EXQWL		206.9	-10.0	-0.63	208.4	-8.4	-0.54
9JDYKL	X	231.4	14.5	0.91	253.0	36.2	2.32
9LGU4N		215.0	-1.9	-0.12	221.0	4.2	0.27
9MUGL3		232.5	15.6	0.99	240.0	23.2	1.49
9PLDBW		220.0	3.1	0.19	205.0	-11.8	-0.76
AZWE2M		196.0	-20.9	-1.32	198.0	-18.8	-1.21
BGYBXR		244.7	27.8	1.76	246.3	29.5	1.90
BNHGWJ		229.9	13.0	0.82	223.7	6.9	0.44
BZCXLK		214.5	-2.4	-0.15	204.5	-12.3	-0.79
CBUPTU		209.5	-7.4	-0.47	205.0	-11.8	-0.76
CHTJK2	*	257.4	40.5	2.56	244.4	27.6	1.77
D3UPUT		213.0	-3.9	-0.25	214.5	-2.3	-0.15
D636ZY		215.5	-1.4	-0.09	208.0	-8.8	-0.57
DLLVZX	X	153.7	-63.2	-3.99	163.2	-53.6	-3.44
DQ2BM4		208.0	-8.9	-0.56	213.0	-3.8	-0.24
DXWDPF		203.0	-13.9	-0.88	202.0	-14.8	-0.95
EELVZV		212.9	-4.0	-0.25	209.6	-7.2	-0.46
EGPUBN		195.5	-21.4	-1.35	196.5	-20.3	-1.30
EK64HZ		225.8	8.9	0.56	218.8	2.0	0.13
EPLB4E	X	246.0	29.1	1.84	280.7	63.9	4.10
EV7LYV		211.0	-5.9	-0.37	215.0	-1.8	-0.12

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
F84P4P		208.0	-8.9	-0.56	209.5	-7.3	-0.47
FCXJ2Q		215.0	-1.9	-0.12	222.7	5.8	0.38
FF9WHP		217.2	0.2	0.01	219.1	2.3	0.15
G7JB6D	*	265.4	48.5	3.07	260.3	43.5	2.79
G8XUXN		211.0	-5.9	-0.37	206.5	-10.3	-0.66
HC4PBW		225.0	8.1	0.51	212.5	-4.3	-0.28
HFM3VJ		228.5	11.6	0.73	232.0	15.2	0.97
JABEUM		212.5	-4.4	-0.28	215.9	-1.0	-0.06
JF3QNY		206.0	-11.0	-0.69	204.5	-12.3	-0.79
K448TP		223.5	6.6	0.42	215.0	-1.8	-0.12
KMDAHH	X	354.6	137.7	8.70	255.3	38.5	2.47
KNNB6G		217.5	0.6	0.04	217.0	0.2	0.01
MC9ZRB		233.2	16.3	1.03	245.2	28.4	1.82
MD3PCR		190.7	-26.2	-1.66	181.3	-35.5	-2.28
MECVBD		236.3	19.4	1.22	242.4	25.6	1.64
MN2MX7		194.7	-22.2	-1.40	185.1	-31.7	-2.03
MPCKBM		215.5	-1.4	-0.09	215.5	-1.3	-0.08
MWUTYJ		197.5	-19.4	-1.23	195.0	-21.8	-1.40
N7YXPF		239.5	22.6	1.43	239.5	22.7	1.46
NDVYHD		224.8	7.8	0.50	231.1	14.3	0.92
NLP846		213.5	-3.4	-0.22	216.0	-0.8	-0.05
NMM9CH		227.0	10.1	0.64	218.5	1.7	0.11
NQMLWL		220.5	3.6	0.23	222.5	5.7	0.37
NXNV4E		221.0	4.1	0.26	210.0	-6.8	-0.44
P6VYJC		182.2	-34.8	-2.20	181.5	-35.3	-2.26
PMFPHB		221.0	4.1	0.26	217.9	1.1	0.07
PQE7V6		221.0	4.1	0.26	213.5	-3.3	-0.21
Q2FQVC	X	258.2	41.3	2.61	272.7	55.9	3.58
RCU4QL		230.6	13.7	0.87	214.7	-2.2	-0.14
RK4MTH		210.0	-6.9	-0.44	218.5	1.7	0.11
RN7L4B		231.0	14.1	0.89	226.5	9.7	0.62
RXANMM		203.1	-13.9	-0.88	211.8	-5.1	-0.32
RYKH9E		207.5	-9.4	-0.60	212.0	-4.8	-0.31
T9PPNE		211.5	-5.4	-0.34	221.5	4.7	0.30
U7GZYB		210.3	-6.6	-0.42	213.2	-3.6	-0.23
UM6BLD		203.2	-13.8	-0.87	206.0	-10.8	-0.69
V623XX		209.0	-7.9	-0.50	199.5	-17.3	-1.11

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
VEARKA		225.3	8.4	0.53	220.0	3.2	0.21
W2DAYZ		237.5	20.6	1.30	246.6	29.8	1.91
WMEYYA		193.5	-23.4	-1.48	196.5	-20.3	-1.30
WW6K68		207.8	-9.1	-0.58	213.4	-3.4	-0.22
X69EC6		219.5	2.5	0.16	220.1	3.2	0.21
XNNMD7		213.9	-3.0	-0.19	225.5	8.7	0.56
ZBTTF3		234.0	17.1	1.08	227.5	10.7	0.69
ZKKCUB		192.0	-24.9	-1.57	192.0	-24.8	-1.59
ZQML24		211.0	-5.9	-0.37	215.0	-1.8	-0.12
ZWNYFD		191.0	-25.9	-1.64	206.0	-10.8	-0.69

Summary Statistics

	Sample B01-B02	Sample B03-B04
Grand Means	216.92 psi	216.81 psi
Stnd Dev Btwn Labs	15.82 psi	15.59 psi

Statistics based on 78 of 85 reporting participants

Summary Statistics in SI Units

	Sample B01-B02	Sample B03-B04
Grand Means	1.4956 MPa	1.49 MPa
Stnd Dev Btwn Labs	0.1091 MPa	0.11 MPa

Statistics based on 78 of 85 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #608

34HQZQ (X) - Data for all samples are high. Possible Systematic Error.

8VE3CA (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample group B01-B02.

9JDYKL (X) - Inconsistent in testing between samples.

DLLVZX (X) - Data for all samples are low. Possible Systematic Error.

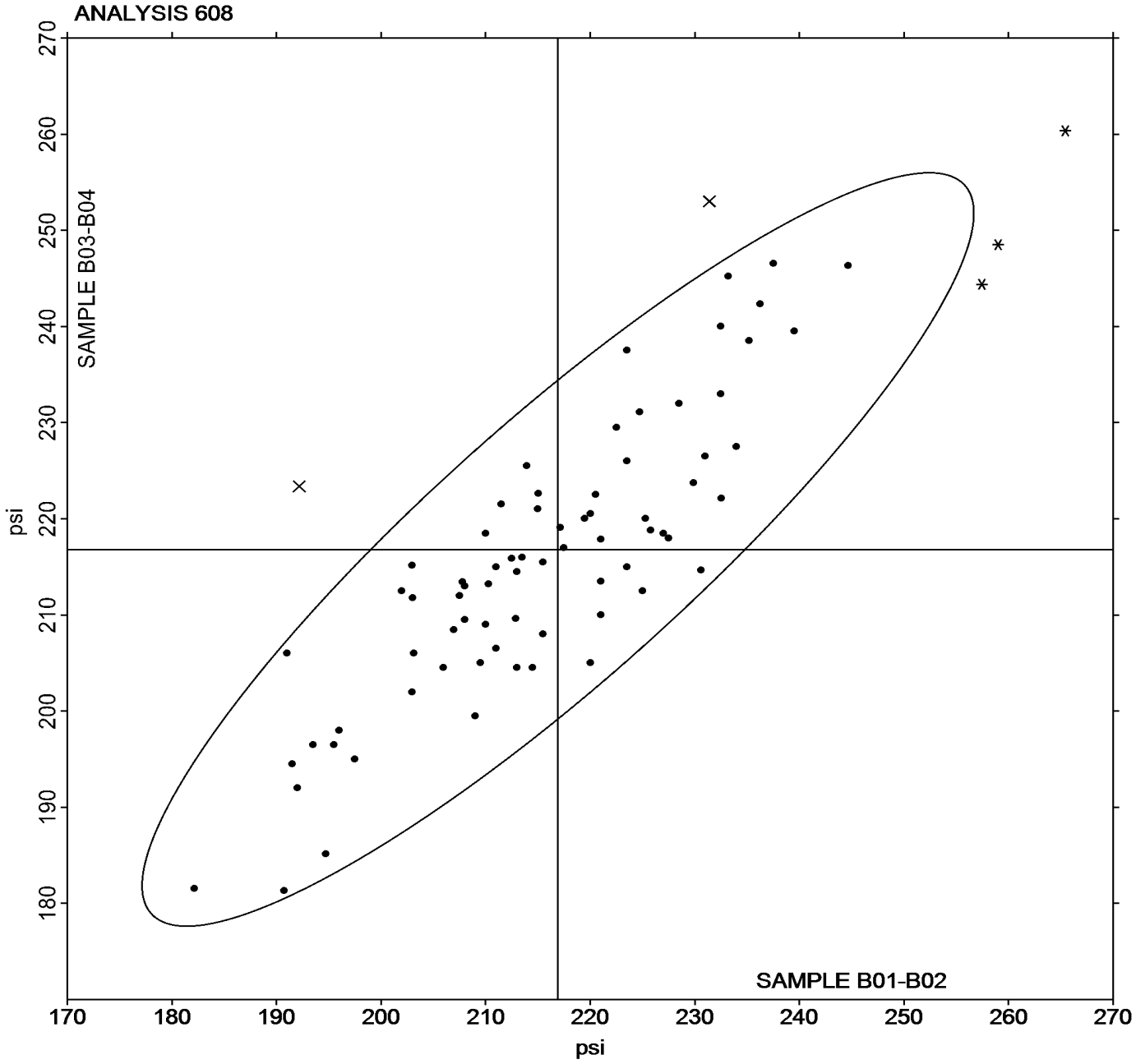
EPLB4E (X) - Data for sample group B03-B04 are high.

KMDAHH (X) - Data for sample group B01-B02 are high. Inconsistent within the determinations of sample group B01-B02.

Q2FQVC (X) - Data for sample group B03-B04 are high.

Grand Mean Sample **B01-B02** = 216.92 psi

Grand Mean Sample **B03-B04** = 216.81 psi



WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2HML22		47.00	-2.59	-1.79	46.50	-3.06	-2.03	BT
34HQZQ		49.50	-0.09	-0.06	50.00	0.44	0.29	BT
3B4JDC		49.00	-0.59	-0.41	49.00	-0.56	-0.37	BT
3BKXEU		49.50	-0.09	-0.06	49.50	-0.06	-0.04	HH
3UTZDY		51.40	1.81	1.25	50.55	0.99	0.66	BT
4MWHK9		51.85	2.26	1.56	52.60	3.04	2.02	BT
4WK97Z		47.30	-2.29	-1.58	46.70	-2.86	-1.90	BT
6D4LXX		51.00	1.41	0.97	51.00	1.44	0.96	BT
6HEPZT		51.45	1.86	1.29	51.60	2.04	1.35	XX
7L89EW		47.50	-2.09	-1.45	47.00	-2.56	-1.70	BT
7YW6GU		53.00	3.41	2.36	53.00	3.44	2.28	HH
86K3Q4		49.00	-0.59	-0.41	48.00	-1.56	-1.03	HH
8GX3MW		50.50	0.91	0.63	50.00	0.44	0.29	HH
8QZMN4	*	51.50	1.91	1.32	53.00	3.44	2.28	HH
8VE3CA		50.00	0.41	0.28	49.50	-0.06	-0.04	BT
8XLDAY		50.50	0.91	0.63	50.15	0.59	0.39	BT
92APEU		51.00	1.41	0.97	51.00	1.44	0.96	HH
99X3NU		48.65	-0.94	-0.65	48.80	-0.76	-0.50	BT
9EXQWL		50.00	0.41	0.28	50.50	0.94	0.62	BT
9G8R2T		50.00	0.41	0.28	49.50	-0.06	-0.04	HH
9JDYKL		50.00	0.41	0.28	50.00	0.44	0.29	HH
9LGU4N		50.35	0.76	0.52	50.15	0.59	0.39	BT
9MUGL3	*	48.50	-1.09	-0.75	50.00	0.44	0.29	HH
9PLDBW		49.00	-0.59	-0.41	48.50	-1.06	-0.70	BT
AZWE2M		50.35	0.76	0.52	49.80	0.24	0.16	BT
BGYBXR		51.00	1.41	0.97	50.50	0.94	0.62	BT
BNHGWJ		49.45	-0.14	-0.10	48.05	-1.51	-1.00	BT
BZCXLK		50.10	0.51	0.35	50.10	0.54	0.36	BT
CBUPTU		48.50	-1.09	-0.75	48.50	-1.06	-0.70	BT
CHTJK2		48.05	-1.54	-1.07	47.80	-1.76	-1.17	BT
CNT4HQ		51.00	1.41	0.97	51.00	1.44	0.96	XX
D3UPUT		49.45	-0.14	-0.10	49.50	-0.06	-0.04	BT
D636ZY		50.00	0.41	0.28	49.50	-0.06	-0.04	BT
DLLVZX		50.00	0.41	0.28	50.00	0.44	0.29	BT
DQ2BM4	X	55.00	5.41	3.74	55.50	5.94	3.94	BT
DXWDPF		49.50	-0.09	-0.06	49.50	-0.06	-0.04	BT
EELVZV		50.80	1.21	0.84	51.10	1.54	1.02	BT
EGPUBN		48.50	-1.09	-0.75	47.50	-2.06	-1.37	BT

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
EK64HZ		47.00	-2.59	-1.79	48.00	-1.56	-1.03	BT
EPLB4E		50.00	0.41	0.28	50.00	0.44	0.29	HH
EV7LYV		48.90	-0.69	-0.48	49.65	0.09	0.06	BT
F84P4P		48.50	-1.09	-0.75	47.50	-2.06	-1.37	BT
FCXJ2Q		49.50	-0.09	-0.06	49.50	-0.06	-0.04	HH
FF9WHP		46.95	-2.64	-1.83	47.60	-1.96	-1.30	BT
G7JB6D		48.50	-1.09	-0.75	48.50	-1.06	-0.70	BT
G8XUXN		49.50	-0.09	-0.06	49.20	-0.36	-0.24	BT
GWCQPN	*	46.50	-3.09	-2.14	45.50	-4.06	-2.69	BT
HC4PBW		52.55	2.96	2.05	52.50	2.94	1.95	BT
HFM3VJ		50.60	1.01	0.70	51.00	1.44	0.96	BT
JF3QNY		48.00	-1.59	-1.10	47.90	-1.66	-1.10	XX
JNVUXM		50.00	0.41	0.28	50.00	0.44	0.29	BT
K448TP		48.00	-1.59	-1.10	48.50	-1.06	-0.70	HH
KMDAHH		50.25	0.66	0.46	49.90	0.34	0.23	BT
KNNB6G		49.50	-0.09	-0.06	50.50	0.94	0.62	BT
MC9ZRB	*	53.25	3.66	2.53	54.00	4.44	2.95	HH
MD3PCR		49.50	-0.09	-0.06	50.00	0.44	0.29	HH
MECVBD		48.00	-1.59	-1.10	48.25	-1.31	-0.87	BT
MN2MX7	X	46.50	-3.09	-2.14	44.50	-5.06	-3.36	BT
MPCKBM		47.50	-2.09	-1.45	48.50	-1.06	-0.70	BT
MWUTYJ		48.25	-1.34	-0.93	48.65	-0.91	-0.60	BT
N7YXPF		50.00	0.41	0.28	50.00	0.44	0.29	BT
NDVYHD		50.65	1.06	0.73	50.85	1.29	0.86	HH
NLP846		50.85	1.26	0.87	50.90	1.34	0.89	BT
NMM9CH		50.00	0.41	0.28	50.00	0.44	0.29	HH
NQMLWL		50.00	0.41	0.28	50.30	0.74	0.49	BT
NVB9JE		49.00	-0.59	-0.41	49.00	-0.56	-0.37	BT
P6VYJC		47.95	-1.64	-1.14	47.85	-1.71	-1.13	BT
PMFPHB		49.75	0.16	0.11	49.50	-0.06	-0.04	HH
PQE7V6		50.00	0.41	0.28	50.00	0.44	0.29	HH
Q2FQVC		47.75	-1.84	-1.27	47.70	-1.86	-1.23	BT
RCU4QL		51.00	1.41	0.97	50.00	0.44	0.29	HH
RK4MTH		49.55	-0.04	-0.03	49.70	0.14	0.09	BT
RN7L4B		46.10	-3.49	-2.41	46.45	-3.11	-2.06	BT
RXANMM		52.25	2.66	1.84	51.95	2.39	1.59	BT
RYKH9E		50.00	0.41	0.28	50.00	0.44	0.29	HH

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample B03-B04 Lab Mean	Sample B03-B04 Diff from Grand Mean	Sample B03-B04 CPV	Instr Code
T9PPNE		49.95	0.36	0.25	49.05	-0.51	-0.34	BT
U7GZYB		48.50	-1.09	-0.75	48.00	-1.56	-1.03	BT
UM6BLD		50.45	0.86	0.59	50.45	0.89	0.59	BT
V623XX		49.50	-0.09	-0.06	49.50	-0.06	-0.04	BT
VEARKA	*	51.75	2.16	1.49	50.40	0.84	0.56	BT
W2DAYZ		49.67	0.07	0.05	49.50	-0.06	-0.04	HH
WMEYYA		51.00	1.41	0.97	50.50	0.94	0.62	HH
WW6K68	*	46.65	-2.94	-2.03	48.00	-1.56	-1.03	BT
X69EC6	X	49.00	-0.59	-0.41	51.00	1.44	0.96	HH
XNNMD7		50.10	0.51	0.35	50.05	0.49	0.33	BT
XV48W6		49.50	-0.09	-0.06	49.50	-0.06	-0.04	BT
ZBTTF3		49.00	-0.59	-0.41	49.00	-0.56	-0.37	BT
ZKKCUB		50.65	1.06	0.73	50.85	1.29	0.86	BT
ZQML24		49.00	-0.59	-0.41	48.50	-1.06	-0.70	HH
ZWNYFD		48.95	-0.64	-0.44	49.55	-0.01	-0.01	BT

Summary Statistics

	Sample B01-B02	Sample B03-B04
Grand Means	49.592 Type A	49.559 Type A
Stnd Dev Btwn Labs	1.446 Type A	1.508 Type A

Statistics based on 87 of 90 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #620

DQ2BM4 (X) - Data for all samples are high. Possible Systematic Error.

MN2MX7 (X) - Data for sample group B03-B04 are low. Inconsistent within the determinations of sample group B03-B04.

X69EC6 (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

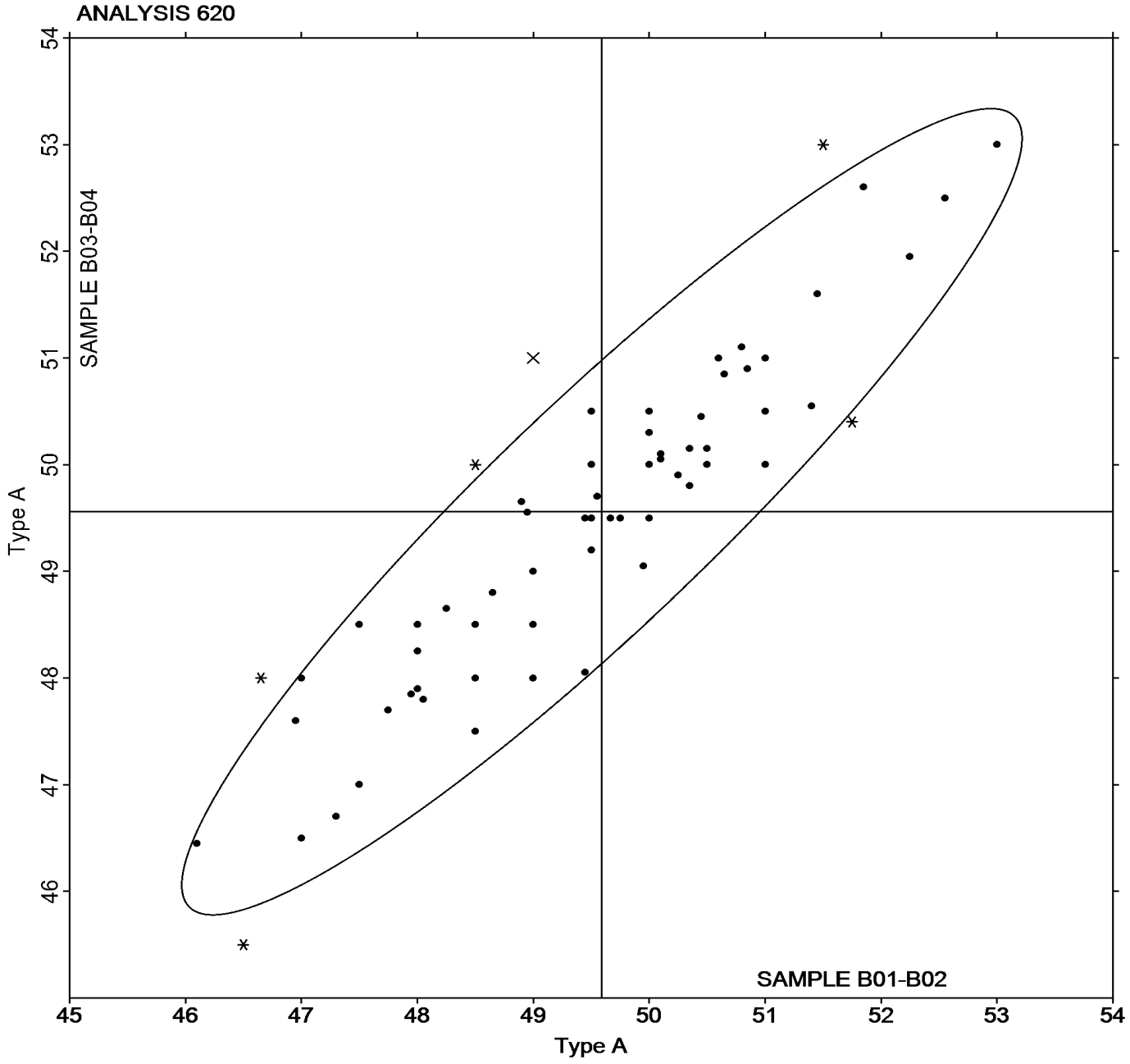
BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Results by Reading Time (as reported by laboratory)

	Sample B01-B02 *Polyisoprene compound, batch #1*			Sample B03-B04 *Polyisoprene compound, batch #2*				
Reading Time	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	Labs Incl	/ Rpt
Select from list below	51.45	0.00	1.86	51.60	0.00	2.04	1	1
Readings taken within 0 - 5 seconds	49.77	1.20	0.17	49.67	1.24	0.12	56	63
Readings taken at 5 seconds	48.46	1.53	-1.13	48.40	1.37	-1.16	10	11
Readings taken after 5+ seconds	48.38	0.85	-1.22	48.44	1.23	-1.12	4	5
Maximum hardness indicator used	49.99	1.11	0.39	49.97	1.22	0.41	10	10

Grand Mean Sample **B01-B02** = 49.592 Type A

Grand Mean Sample **B03-B04** = 49.559 Type A



WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
34HQZQ	X	1.132	-0.005	-1.65	1.127	-0.010	-2.88
3B4JDC		1.134	-0.003	-0.94	1.131	-0.006	-1.73
3BKXEU		1.131	-0.007	-2.00	1.133	-0.005	-1.37
3UTZDY		1.138	0.001	0.34	1.139	0.001	0.44
4MWHK9		1.137	0.000	-0.05	1.137	0.000	0.06
6D4LXX		1.137	0.000	0.12	1.137	0.000	0.05
6HEPZT		1.135	-0.003	-0.78	1.136	-0.002	-0.46
7YW6GU		1.132	-0.005	-1.68	1.132	-0.005	-1.46
86K3Q4		1.136	-0.002	-0.47	1.138	0.001	0.29
8GX3MW	X	1.125	-0.013	-3.83	1.126	-0.012	-3.47
8VE3CA		1.136	-0.001	-0.32	1.133	-0.005	-1.37
92APEU		1.136	-0.002	-0.47	1.136	-0.002	-0.46
99X3NU		1.138	0.001	0.29	1.137	0.000	-0.01
9JDYKL		1.135	-0.002	-0.56	1.134	-0.003	-0.82
9LGU4N		1.141	0.004	1.33	1.142	0.005	1.46
9MUGL3		1.135	-0.002	-0.50	1.134	-0.003	-0.96
9PLDBW		1.137	-0.001	-0.17	1.136	-0.002	-0.46
AZWE2M		1.143	0.006	1.82	1.143	0.005	1.64
BGYBXR		1.131	-0.006	-1.72	1.131	-0.006	-1.82
BNHGWJ		1.135	-0.002	-0.62	1.138	0.000	0.14
BZCXLK		1.137	0.000	-0.01	1.138	0.001	0.30
CBUPTU		1.136	-0.002	-0.47	1.137	-0.001	-0.16
D3UPUT		1.137	0.000	-0.09	1.137	0.000	-0.07
D636ZY		1.138	0.001	0.29	1.137	-0.001	-0.16
DLLVZX		1.135	-0.002	-0.62	1.135	-0.002	-0.61
DXWDPF		1.143	0.005	1.67	1.142	0.005	1.49
EELVZV		1.138	0.001	0.29	1.138	0.000	0.14
EGPUBN		1.137	0.000	-0.01	1.136	-0.002	-0.46
EK64HZ		1.135	-0.002	-0.59	1.136	-0.001	-0.28
EPLB4E		1.137	0.000	-0.12	1.136	-0.001	-0.34
EV7LYV		1.142	0.005	1.41	1.142	0.005	1.49
FCXJ2Q		1.131	-0.007	-2.00	1.130	-0.007	-2.12
FF9WHP	*	1.137	0.000	-0.06	1.132	-0.005	-1.41
G7JB6D		1.136	-0.001	-0.32	1.136	-0.001	-0.31
G8XUXN		1.139	0.002	0.55	1.139	0.002	0.48
HC4PBW		1.135	-0.002	-0.61	1.136	-0.001	-0.31
HFM3VJ		1.137	0.000	-0.01	1.137	0.000	0.02
JABEUM		1.142	0.005	1.56	1.142	0.005	1.49

WebCode	Data Flag	Sample B01-B02 Lab Mean	Diff from Grand Mean	CPV	Sample B03-B04 Lab Mean	Diff from Grand Mean	CPV
JF3QNY		1.134	-0.004	-1.08	1.133	-0.005	-1.37
JNVUXM		1.137	-0.001	-0.17	1.140	0.002	0.74
K448TP		1.140	0.002	0.75	1.138	0.000	0.14
KMDAHH		1.137	0.000	0.03	1.136	-0.001	-0.18
MC9ZRB		1.135	-0.003	-0.78	1.136	-0.001	-0.31
MD3PCR		1.140	0.002	0.75	1.138	0.000	0.14
MECVBD		1.137	0.000	0.11	1.137	0.000	0.12
MN2MX7		1.136	-0.001	-0.32	1.136	-0.001	-0.31
MPCKBM		1.139	0.002	0.60	1.141	0.003	1.04
MWUTYJ		1.141	0.004	1.28	1.141	0.004	1.30
N7YXPF		1.139	0.002	0.60	1.140	0.003	0.89
NDVYHD		1.136	-0.001	-0.20	1.137	0.000	-0.13
NLP846		1.137	0.000	-0.12	1.137	0.000	-0.03
NMM9CH		1.134	-0.004	-1.08	1.132	-0.005	-1.52
NXNV4E		1.137	-0.001	-0.17	1.137	-0.001	-0.16
P6VYJC		1.142	0.005	1.51	1.141	0.004	1.19
PQE7V6		1.132	-0.005	-1.46	1.131	-0.006	-1.94
Q2FQVC	X	1.137	-0.001	-0.17	1.128	-0.010	-2.87
RK4MTH	*	1.141	0.004	1.10	1.137	0.000	-0.07
RN7L4B		1.140	0.002	0.75	1.140	0.002	0.74
RTGN77	X	1.118	-0.019	-5.81	1.125	-0.013	-3.77
RXANMM		1.141	0.004	1.21	1.141	0.004	1.19
RYKH9E		1.140	0.003	0.90	1.140	0.003	0.89
T9PPNE		1.141	0.004	1.21	1.140	0.003	0.89
U7GZYB		1.137	-0.001	-0.17	1.137	0.000	-0.01
UM6BLD		1.142	0.005	1.59	1.142	0.005	1.57
V623XX		1.142	0.005	1.51	1.142	0.005	1.49
VEARKA		1.133	-0.004	-1.17	1.135	-0.002	-0.51
W2DAYZ		1.140	0.003	0.89	1.141	0.004	1.28
WMEYYA		1.133	-0.004	-1.29	1.135	-0.002	-0.54
WW6K68		1.131	-0.007	-2.00	1.131	-0.006	-1.82
XNNMD7	*	1.133	-0.004	-1.23	1.137	0.000	-0.01
XV48W6		1.136	-0.001	-0.32	1.137	0.000	-0.01
ZBTTF3		1.138	0.000	0.14	1.139	0.001	0.44
ZKKCUB		1.136	-0.002	-0.47	1.137	0.000	-0.12
ZQML24	*	1.146	0.008	2.58	1.146	0.009	2.69

Summary Statistics		
Grand Means		
	1.1370 g/cm^3 (Mg/m^3)	1.1370 g/cm^3 (Mg/m^3)
Stnd Dev Btwn Labs		
	0.0033 g/cm^3 (Mg/m^3)	0.0033 g/cm^3 (Mg/m^3)
		Statistics based on 70 of 74 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & B03-B04: Polyisoprene compound, batch #2

Comments on Assigned Data Flags for Test #621

34HQZQ (X) - Data for sample group B03-B04 are low. Inconsistent within the determinations of sample group B01-B02.

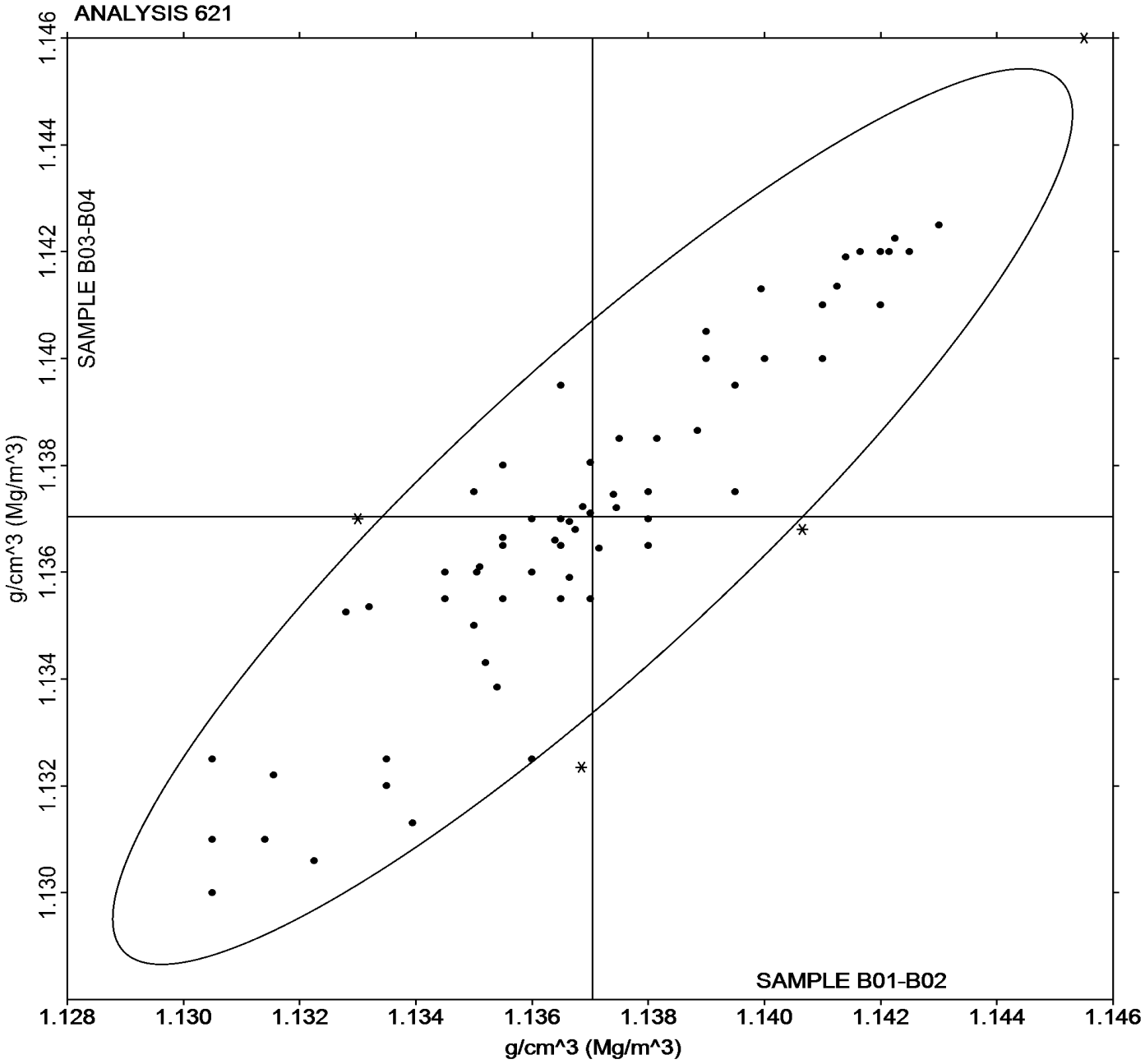
8GX3MW (X) - Data for all samples are low. Possible Systematic Error.

Q2FQVC (X) - Data for sample group B03-B04 are low. Inconsistent within the determinations of sample group B03-B04.

RTGN77 (X) - Data for all samples are low. Possible Systematic Error.

Grand Mean Sample **B01-B02** = 1.1370 g/cm^3 (Mg/m^3)

Grand Mean Sample **B03-B04** = 1.1370 g/cm^3 (Mg/m^3)



WebCode	Data Flag	Sample HB01-HB02 Lab Mean	Diff from Grand Mean	CPV	Sample HB03-HB04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3TLK7T		78.50	3.25	1.43	87.50	3.07	1.65	XX
8GCNWY		77.90	2.65	1.17	84.90	0.47	0.25	HH
8XLDAY		73.95	-1.30	-0.57	83.80	-0.63	-0.34	BT
9EXQWL		75.00	-0.25	-0.11	85.00	0.57	0.31	XX
9MUGL3		78.00	2.75	1.21	87.25	2.82	1.51	HH
BDLN8T		70.95	-4.30	-1.89	81.15	-3.28	-1.76	XX
CHTJK2		71.75	-3.50	-1.54	81.40	-3.03	-1.63	BT
CWABPV		76.70	1.45	0.64	85.10	0.67	0.36	HH
HF424B		75.00	-0.25	-0.11	84.00	-0.43	-0.23	HH
JBMBZR		71.50	-3.75	-1.65	80.50	-3.93	-2.11	BT
JF3QNY		73.35	-1.90	-0.84	83.50	-0.93	-0.50	XX
JWNB4H		77.00	1.75	0.77	85.50	1.07	0.57	HH
PHNLRR		74.50	-0.75	-0.33	85.00	0.57	0.31	HH
RTGN77	X	57.50	-17.75	-7.82	60.00	-24.43	-13.12	XX
RYKH9E		76.50	1.25	0.55	85.00	0.57	0.31	HH
UM6BLD		75.80	0.55	0.24	84.35	-0.08	-0.04	BT
URXEEG		77.80	2.55	1.13	85.00	0.57	0.31	BT
VKR3RH		76.50	1.25	0.55	86.00	1.57	0.84	BT
VXLGX8		74.00	-1.25	-0.55	85.75	1.32	0.71	BT
ZTEGNC		75.00	-0.25	-0.11	83.50	-0.93	-0.50	BT

Summary Statistics

	Sample HB01-HB02	Sample HB03-HB04
Grand Means	75.247 Type D	84.432 Type D
Stnd Dev Btwn Labs	2.269 Type D	1.862 Type D

Statistics based on 19 of 20 reporting participants

Samples HB01-HB02: Hardness Disc, batch #1 & HB03-HB04: Hardness Disc, batch #2

Comments on Assigned Data Flags for Test #625

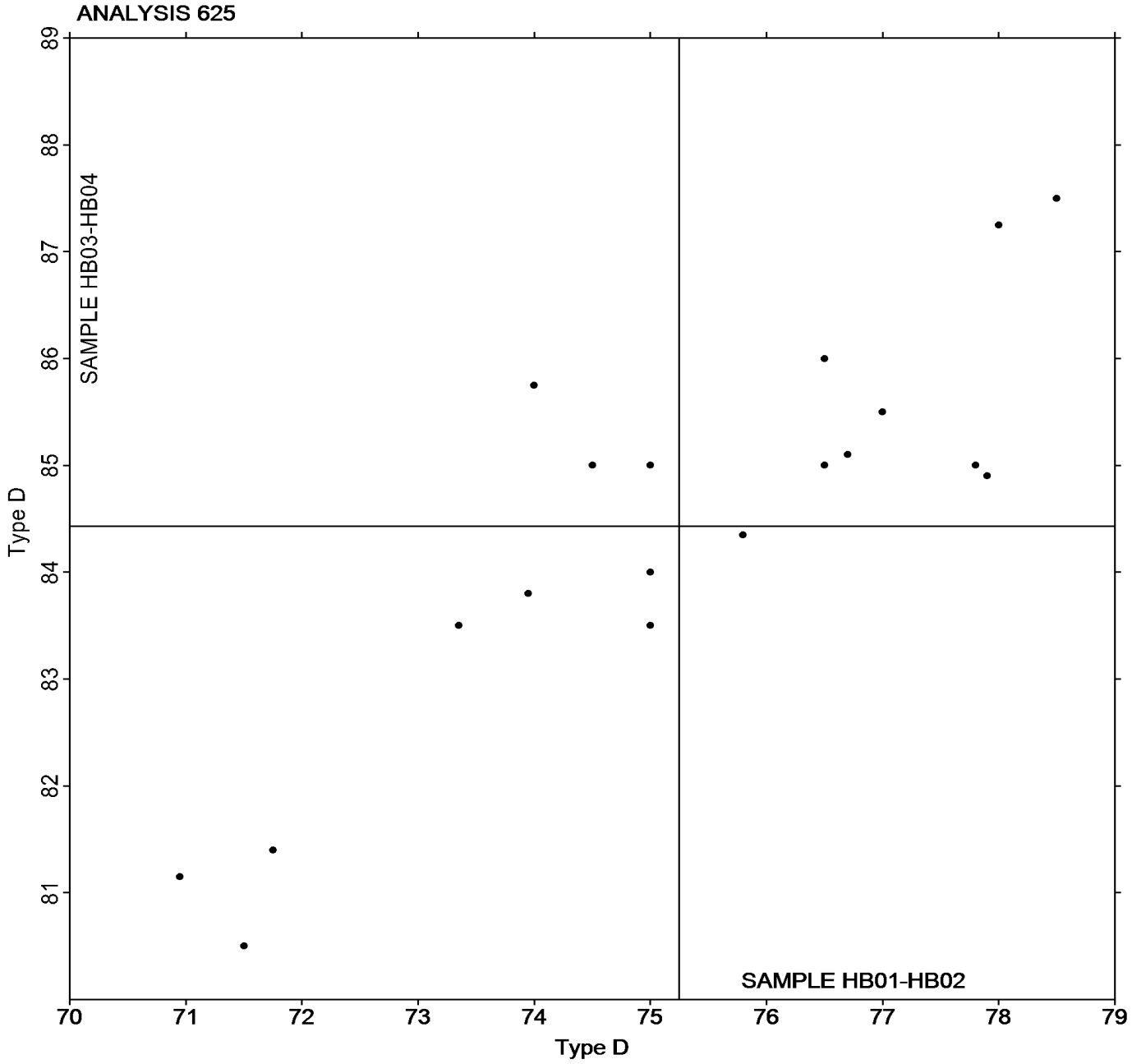
RTGN77 (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

BT	Benchtop	HH	Handheld
XX	Specify Benchtop or Handheld Instrument		

Grand Mean Sample **HB01-HB02** = 75.247 Type D

Grand Mean Sample **HB03-HB04** = 84.432 Type D



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample K01-K02 Lab Mean	Sample K01-K02 Diff from Grand Mean	Sample K01-K02 CPV
2CHQYT		3,099.5	-134.3	-0.92	2,986.0	39.7	0.22
3UTZDY		3,439.1	205.3	1.41	3,225.1	278.8	1.57
6HEPZT		3,340.5	106.7	0.73	3,053.0	106.7	0.60
8XLDAY		3,009.6	-224.3	-1.54	2,922.5	-23.8	-0.13
9PLDBW		3,357.5	123.7	0.85	2,970.5	24.2	0.14
AZWE2M		3,146.0	-87.8	-0.60	2,755.0	-191.3	-1.08
EK64HZ		3,155.0	-78.8	-0.54	2,953.6	7.3	0.04
EV7LYV		3,211.0	-22.8	-0.16	3,047.0	100.7	0.57
FCXJ2Q		3,150.5	-83.3	-0.57	2,906.0	-40.4	-0.23
G8XUXN	*	3,267.0	33.2	0.23	2,398.0	-548.3	-3.09
HC4PBW		3,329.0	95.2	0.65	2,974.5	28.2	0.16
JABEUM		3,146.2	-87.7	-0.60	3,019.7	73.3	0.41
K448TP		3,525.0	291.2	2.00	3,085.0	138.7	0.78
KNNB6G		3,252.5	18.7	0.13	3,113.5	167.2	0.94
MC9ZRB		3,126.3	-107.5	-0.74	2,813.0	-133.3	-0.75
MD3PCR		3,409.9	176.0	1.21	2,704.3	-242.0	-1.36
MN2MX7		3,380.8	146.9	1.01	2,955.7	9.4	0.05
MPCKBM		3,145.5	-88.3	-0.61	3,076.0	129.7	0.73
NDVYHD		3,180.4	-53.5	-0.37	2,769.7	-176.6	-0.99
RCU4QL		3,165.5	-68.4	-0.47	2,783.3	-163.0	-0.92
RK4MTH		3,408.5	174.7	1.20	3,235.0	288.7	1.63
UM6BLD		3,043.2	-190.6	-1.31	2,921.0	-25.4	-0.14
W2DAYZ		2,920.0	-313.8	-2.15	2,860.0	-86.3	-0.49
WMEYYA		3,255.3	21.5	0.15	3,202.7	256.4	1.44
X69EC6		3,404.7	170.8	1.17	2,884.6	-61.7	-0.35
XNNMD7		3,130.7	-103.2	-0.71	3,046.5	100.2	0.56
ZQML24		3,314.5	80.7	0.55	2,889.0	-57.3	-0.32

Summary Statistics

	Sample B01-B02	Sample K01-K02
Grand Means	3,233.83 psi	2,946.30 psi
Stnd Dev Btwn Labs	145.86 psi	177.55 psi

Statistics based on 27 of 27 reporting participants

Summary Statistics in SI Units		
Grand Means	22.296 MPa	20.31 MPa
Stnd Dev Btwn Labs	1.006 MPa	1.22 MPa

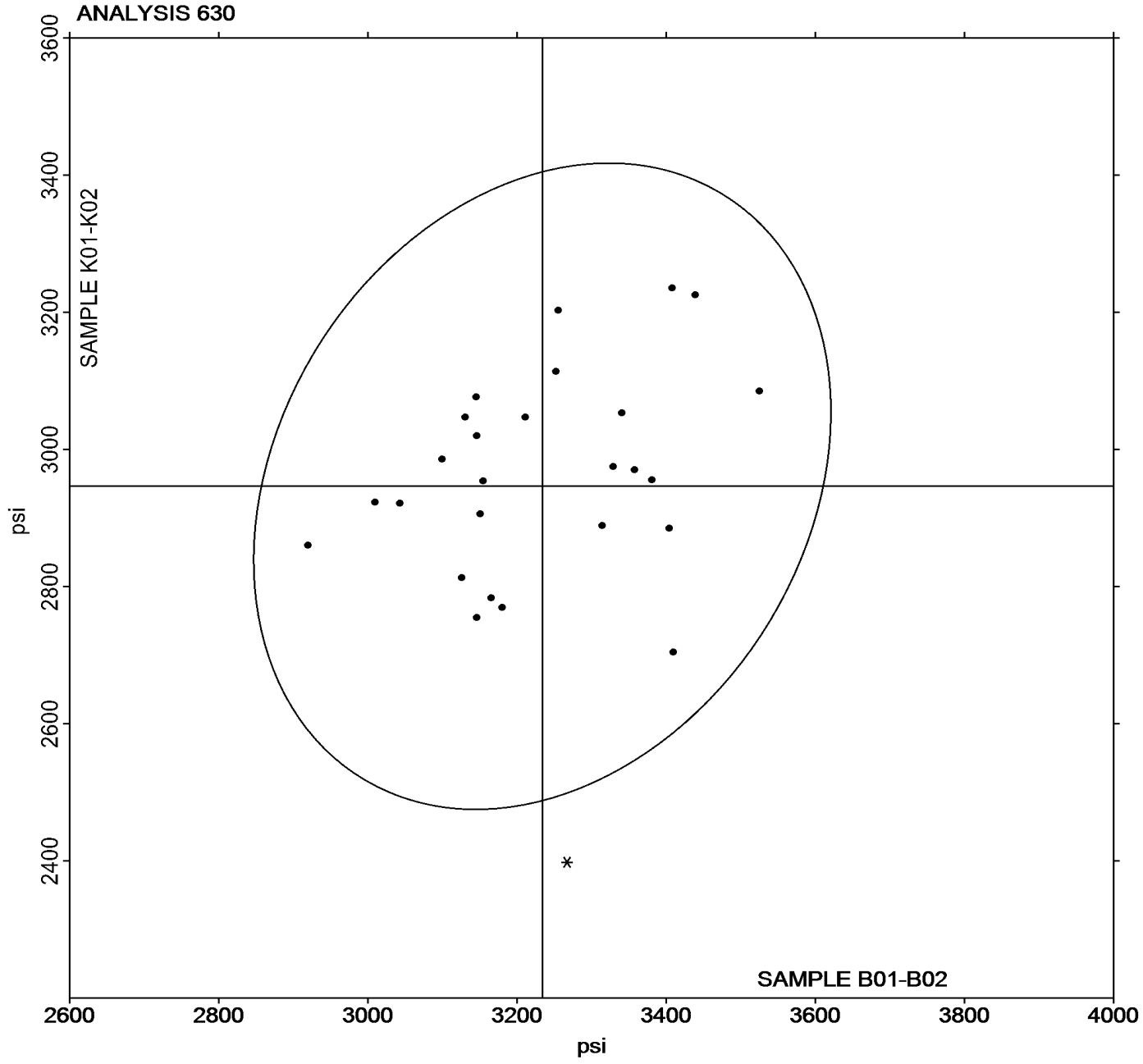
Statistics based on 27 of 27 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & K01-K02: Polyisoprene compound, batch #1

Tensile Strength: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **B01-B02** = 3,233.83 psi

Grand Mean Sample **K01-K02** = 2,946.30 psi



Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample K01-K02 Lab Mean	Sample K01-K02 Diff from Grand Mean	Sample K01-K02 CPV
2CHQYT		571.7	-55.3	-1.71	529.3	-64.8	-1.83
3UTZDY		572.5	-54.4	-1.68	537.5	-56.6	-1.59
6HEPZT		646.5	19.6	0.60	606.0	11.9	0.34
8XLDAY		590.7	-36.2	-1.12	576.6	-17.5	-0.49
9PLDBW		631.5	4.6	0.14	586.0	-8.1	-0.23
AZWE2M		670.0	43.1	1.33	638.5	44.4	1.25
EK64HZ		647.0	20.1	0.62	617.5	23.4	0.66
EV7LYV		646.5	19.6	0.60	596.5	2.4	0.07
FCXJ2Q		631.6	4.6	0.14	616.5	22.4	0.63
G8XUXN		632.5	5.6	0.17	609.0	14.9	0.42
HC4PBW		621.0	-5.9	-0.18	575.0	-19.1	-0.54
JABEUM		613.5	-13.4	-0.42	576.0	-18.1	-0.51
K448TP		624.5	-2.4	-0.08	576.5	-17.6	-0.49
KNNB6G		629.5	2.6	0.08	588.5	-5.6	-0.16
MC9ZRB		575.0	-51.9	-1.60	553.9	-40.2	-1.13
MD3PCR		675.2	48.3	1.49	650.6	56.5	1.59
MN2MX7	*	715.6	88.7	2.74	686.5	92.4	2.60
MPCKBM		612.5	-14.4	-0.45	582.0	-12.1	-0.34
NDVYHD		630.0	3.0	0.09	601.2	7.1	0.20
RCU4QL		626.5	-0.4	-0.01	585.5	-8.6	-0.24
RK4MTH		641.5	14.6	0.45	611.5	17.4	0.49
UM6BLD		596.5	-30.4	-0.94	574.5	-19.6	-0.55
W2DAYZ		662.0	35.1	1.08	657.0	62.9	1.77
WMEYYA		629.5	2.6	0.08	600.5	6.4	0.18
X69EC6		620.2	-6.8	-0.21	579.6	-14.5	-0.41
XNNMD7		596.0	-30.9	-0.96	575.5	-18.6	-0.52
ZQML24		618.0	-8.9	-0.28	552.5	-41.6	-1.17

Summary Statistics

	Sample B01-B02	Sample K01-K02
Grand Means	626.94 percent	594.08 percent
Stnd Dev Btwn Labs	32.36 percent	35.51 percent

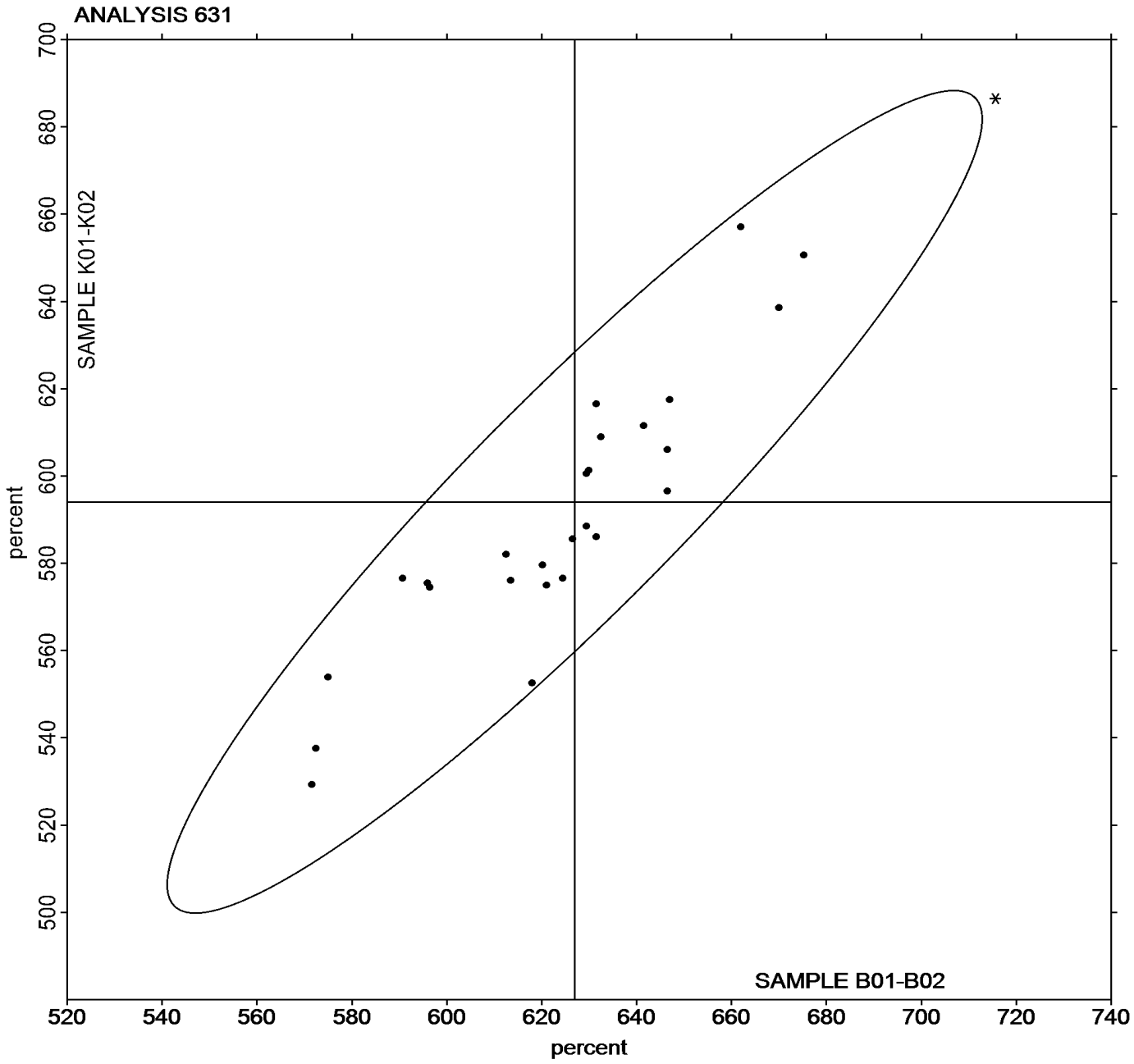
Statistics based on 27 of 27 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & K01-K02: Polyisoprene compound, batch #1

Ultimate Elongation: Precured vs. Lab-Cured Samples (percent)

Grand Mean Sample **B01-B02** = 626.94 percent

Grand Mean Sample **K01-K02** = 594.08 percent



Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample K01-K02 Lab Mean	Sample K01-K02 Diff from Grand Mean	Sample K01-K02 CPV
2CHQYT		1,071.0	126.9	1.80	1,236.2	290.9	2.31
3UTZDY		1,106.1	162.1	2.29	1,191.2	245.9	1.95
6HEPZT		928.5	-15.5	-0.22	923.5	-21.8	-0.17
8XLDAY		929.0	-15.0	-0.21	964.5	19.2	0.15
9PLDBW		970.0	26.0	0.37	945.0	-0.3	0.00
AZWE2M		813.5	-130.5	-1.85	792.0	-153.3	-1.22
EK64HZ		887.0	-57.0	-0.81	971.1	25.8	0.20
EV7LYV		901.5	-42.5	-0.60	1,017.5	72.2	0.57
FCXJ2Q		882.5	-61.5	-0.87	835.1	-110.2	-0.87
G8XUXN	*	960.5	16.5	0.23	672.0	-273.3	-2.17
HC4PBW		1,008.5	64.5	0.91	1,036.5	91.2	0.72
JABEUM		958.7	14.7	0.21	981.1	35.7	0.28
K448TP		1,028.5	84.5	1.20	1,030.5	85.2	0.68
KNNB6G		954.0	10.0	0.14	987.5	42.2	0.33
MC9ZRB		1,034.9	90.9	1.29	994.2	48.9	0.39
MD3PCR		885.5	-58.5	-0.83	735.3	-210.0	-1.67
MN2MX7		808.2	-135.9	-1.92	692.4	-252.9	-2.01
MPCKBM		925.5	-18.5	-0.26	1,009.0	63.7	0.50
NDVYHD		920.9	-23.1	-0.33	968.0	22.6	0.18
RCU4QL		976.1	32.1	0.45	860.8	-84.5	-0.67
RK4MTH		926.0	-18.0	-0.25	941.0	-4.3	-0.03
UM6BLD		925.2	-18.8	-0.27	930.4	-15.0	-0.12
W2DAYZ		884.6	-59.4	-0.84	912.5	-32.8	-0.26
WMEYYA		881.5	-62.5	-0.88	991.5	46.2	0.37
X69EC6		1,030.3	86.3	1.22	925.3	-20.0	-0.16
XNNMD7		966.0	21.9	0.31	1,026.9	81.5	0.65
ZQML24		924.5	-19.5	-0.28	953.0	7.7	0.06

Summary Statistics

	Sample B01-B02	Sample K01-K02
Grand Means	944.01 psi	945.33 psi
Stnd Dev Btwn Labs	70.65 psi	126.11 psi

Statistics based on 27 of 27 reporting participants

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Summary Statistics in SI Units

Grand Means	6.5087 MPa	6.52 MPa
Stnd Dev Btwn Labs	0.4871 MPa	0.87 MPa

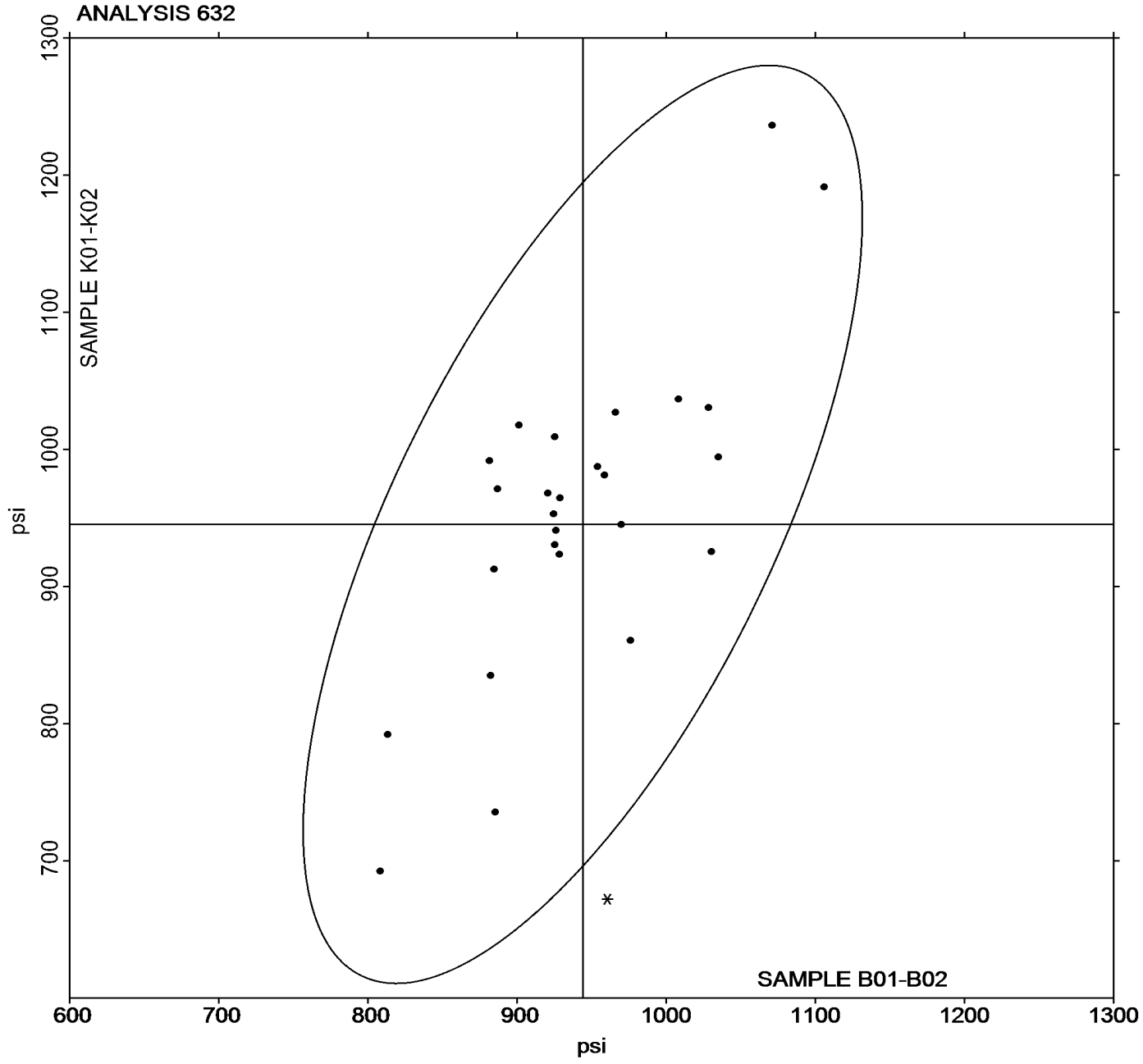
Statistics based on 27 of 27 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & K01-K02: Polyisoprene compound, batch #1

Stress at 300% Elongation: Precured vs. Lab-Cured Samples (psi)

Grand Mean Sample **B01-B02** = 944.01 psi

Grand Mean Sample **K01-K02** = 945.33 psi



Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

WebCode	Data Flag	Sample B01-B02 Lab Mean	Sample B01-B02 Diff from Grand Mean	Sample B01-B02 CPV	Sample K01-K02 Lab Mean	Sample K01-K02 Diff from Grand Mean	Sample K01-K02 CPV
2CHQYT		235.2	19.3	1.47	295.5	71.7	2.50
3UTZDY		232.5	16.6	1.27	257.2	33.4	1.17
6HEPZT		223.5	7.6	0.58	233.0	9.2	0.32
8XLDAY		203.1	-12.9	-0.98	225.5	1.7	0.06
9PLDBW		220.0	4.1	0.31	217.5	-6.3	-0.22
AZWE2M		196.0	-19.9	-1.52	193.5	-30.3	-1.06
EK64HZ		225.8	9.9	0.75	257.6	33.8	1.18
EV7LYV		211.0	-4.9	-0.37	239.0	15.2	0.53
FCXJ2Q		215.0	-0.9	-0.07	210.4	-13.4	-0.47
G8XUXN	*	211.0	-4.9	-0.37	153.5	-70.3	-2.46
HC4PBW		225.0	9.1	0.69	229.5	5.7	0.20
JABEUM		212.5	-3.4	-0.26	223.0	-0.8	-0.03
K448TP		223.5	7.6	0.58	233.0	9.2	0.32
KNNB6G		217.5	1.6	0.12	231.0	7.2	0.25
MC9ZRB		233.2	17.3	1.32	234.0	10.2	0.36
MD3PCR		190.7	-25.2	-1.92	162.4	-61.4	-2.14
MN2MX7		194.7	-21.2	-1.61	184.6	-39.2	-1.37
MPCKBM		215.5	-0.4	-0.03	234.5	10.7	0.37
NDVYHD		224.8	8.8	0.67	225.9	2.1	0.07
RCU4QL		230.6	14.7	1.12	209.6	-14.2	-0.50
RK4MTH		210.0	-5.9	-0.45	217.5	-6.3	-0.22
UM6BLD		203.2	-12.8	-0.97	214.5	-9.3	-0.33
W2DAYZ		237.5	21.6	1.65	259.6	35.8	1.25
WMEYYA		193.5	-22.4	-1.71	228.0	4.2	0.15
X69EC6		219.5	3.5	0.27	215.8	-8.0	-0.28
XNNMD7		213.9	-2.0	-0.15	235.0	11.2	0.39
ZQML24		211.0	-4.9	-0.37	222.0	-1.8	-0.06

Summary Statistics

	Sample B01-B02	Sample K01-K02
Grand Means	215.92 psi	223.80 psi
Stnd Dev Btwn Labs	13.11 psi	28.63 psi

Statistics based on 27 of 27 reporting participants

Stress at 100% Elongation: Precured vs. Lab-Cured Samples (psi)

Summary Statistics in SI Units

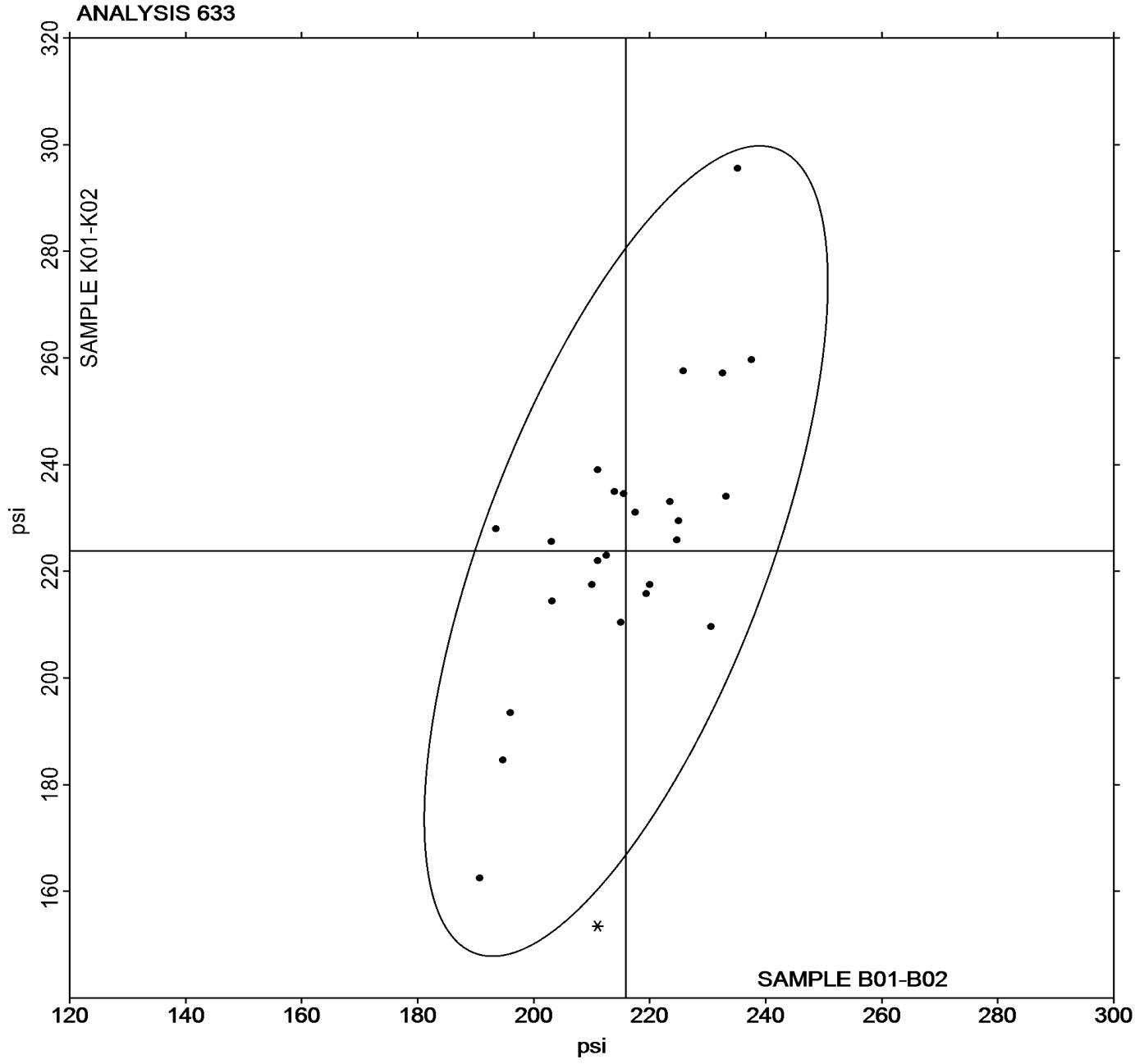
Grand Means	1.4887 MPa	1.54 MPa
Stnd Dev Btwn Labs	0.0904 MPa	0.20 MPa

Statistics based on 27 of 27 reporting participants

Samples B01-B02: Polyisoprene compound, batch #1 & K01-K02: Polyisoprene compound, batch #1

Grand Mean Sample **B01-B02** = 215.92 psi

Grand Mean Sample **K01-K02** = 223.80 psi



WebCode	Data Flag	Sample O01 Lab Mean	Sample O01 Diff from Grand Mean	Sample O01 CPV	Sample O02 Lab Mean	Sample O02 Diff from Grand Mean	Sample O02 CPV
2CHQYT		40.43	4.38	1.03	39.83	3.30	0.82
7YW6GU		33.67	-2.39	-0.56	34.67	-1.87	-0.46
92APEU		37.33	1.28	0.30	36.67	0.13	0.03
99X3NU		42.26	6.21	1.46	43.02	6.48	1.60
9PLDBW		35.33	-0.72	-0.17	35.33	-1.20	-0.30
BBW3TJ		34.56	-1.50	-0.35	35.31	-1.23	-0.30
BNHGWJ		45.33	9.28	2.19	44.67	8.13	2.01
BZCXLK		33.33	-2.72	-0.64	34.33	-2.20	-0.55
CBUPTU	*	47.80	11.75	2.77	47.97	11.43	2.83
CEU2PU		31.67	-4.39	-1.03	32.13	-4.40	-1.09
CHTJK2		39.13	3.08	0.73	39.03	2.50	0.62
D3UPUT		32.07	-3.98	-0.94	31.05	-5.49	-1.36
EELVZV		29.33	-6.72	-1.58	30.00	-6.54	-1.62
G8XUXN		39.67	3.61	0.85	39.67	3.13	0.77
HC4PBW		36.14	0.09	0.02	38.19	1.66	0.41
HFM3VJ		35.00	-1.05	-0.25	35.33	-1.20	-0.30
JK9JHU		33.87	-2.18	-0.51	33.43	-3.11	-0.77
N7YXPF		33.67	-2.39	-0.56	35.00	-1.54	-0.38
NDVYHD	*	32.43	-3.62	-0.85	30.23	-6.30	-1.56
NLP846		33.00	-3.05	-0.72	35.00	-1.54	-0.38
T9PPNE		34.97	-1.09	-0.26	35.03	-1.50	-0.37
UM6BLD		36.93	0.87	0.21	36.67	0.13	0.03
VEARKA		33.93	-2.12	-0.50	35.93	-0.60	-0.15
W7V3JF		32.00	-4.05	-0.95	35.00	-1.54	-0.38
WMEYYA		37.05	0.99	0.23	38.32	1.78	0.44
XV48W6		32.00	-4.05	-0.95	35.33	-1.20	-0.30
ZBTTF3		37.92	1.87	0.44	37.87	1.33	0.33
ZET6C3		38.67	2.61	0.62	38.00	1.46	0.36

Summary Statistics

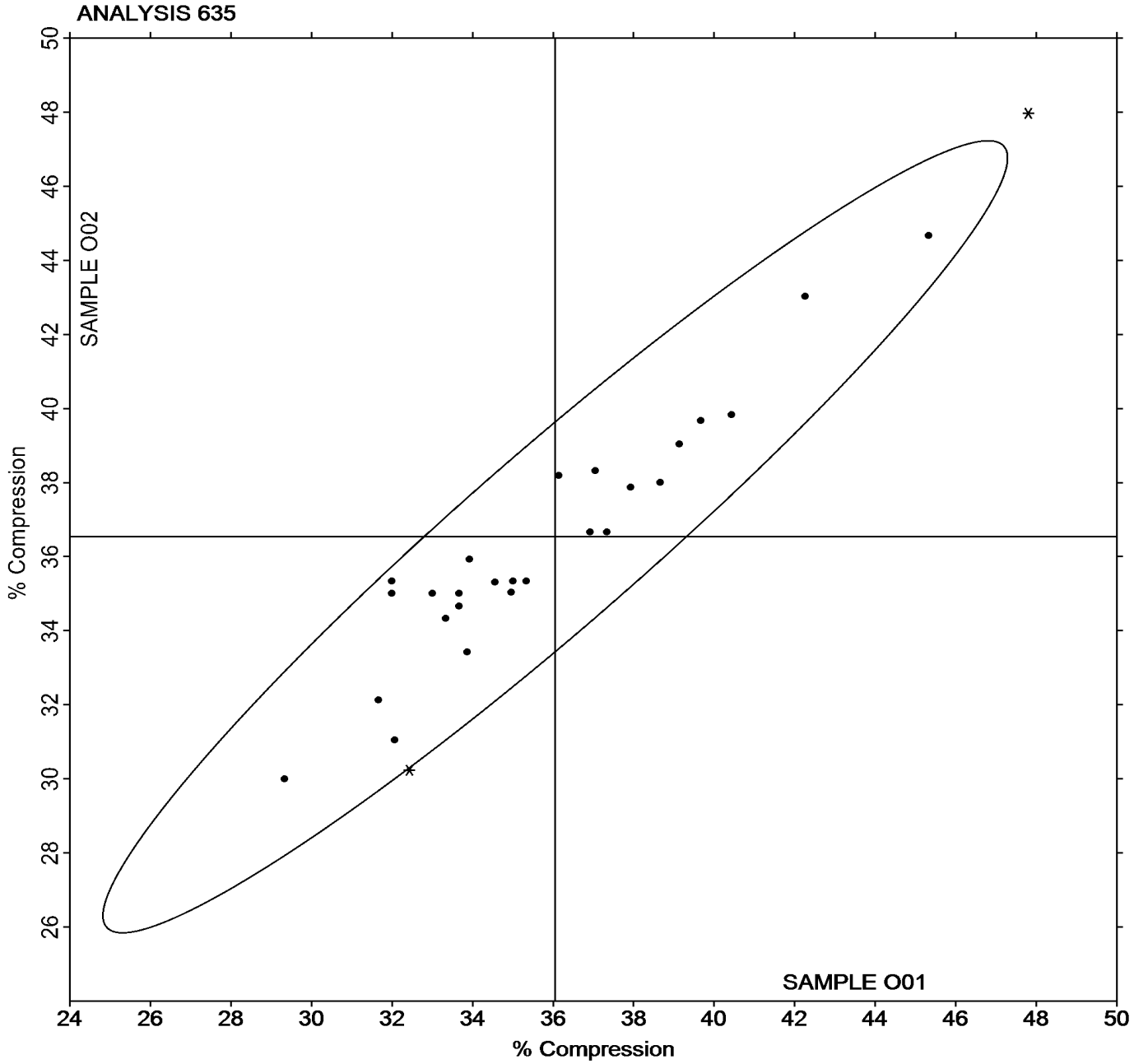
	Sample O01	Sample O02
Grand Means	36.053 % Compression	36.536 % Compression
Stnd Dev Btwn Labs	4.246 % Compression	4.042 % Compression

Statistics based on 28 of 28 reporting participants

Samples O01: EPDM compound, batch #1 & O02: EPDM compound, batch #2

Grand Mean Sample **O01** = 36.053 % Compression

Grand Mean Sample **O02** = 36.536 % Compression



WebCode	Data Flag	Sample T01-T02 Lab Mean	Sample T01-T02 Diff from Grand Mean	Sample T01-T02 CPV	Sample T03-T04 Lab Mean	Sample T03-T04 Diff from Grand Mean	Sample T03-T04 CPV	Instr Code
3BKXEU		46.22	1.71	1.65	55.40	1.27	1.12	MR
3UTZDY		43.90	-0.61	-0.58	53.63	-0.49	-0.44	MR
6HEPZT		44.57	0.06	0.06	53.83	-0.29	-0.26	XX
6Q9UTU		44.57	0.06	0.06	54.47	0.34	0.30	MR
86K3Q4		44.92	0.41	0.40	54.80	0.67	0.59	MR
89HJ4X		44.15	-0.36	-0.34	53.30	-0.82	-0.73	MV
8XLDAY		44.10	-0.41	-0.39	53.20	-0.93	-0.82	MR
92APEU		43.43	-1.08	-1.04	53.22	-0.91	-0.80	MP
AZWE2M		44.83	0.33	0.32	53.83	-0.29	-0.26	MV
BGYBXR		44.68	0.17	0.17	54.19	0.06	0.06	MR
CBUPTU		44.24	-0.27	-0.26	54.34	0.21	0.18	MR
D7U2PR		44.38	-0.12	-0.12	54.80	0.67	0.59	MR
DQ34NX		43.82	-0.69	-0.66	54.10	-0.03	-0.02	MR
EELVZV	*	41.87	-2.64	-2.54	51.08	-3.04	-2.69	MR
EK64HZ		45.28	0.77	0.74	56.27	2.15	1.90	XX
HC4PBW		44.77	0.26	0.25	53.58	-0.55	-0.49	MV
JABEUM		45.23	0.73	0.70	54.88	0.76	0.67	MR
K448TP		44.30	-0.21	-0.20	53.40	-0.73	-0.64	MR
KNNB6G		43.92	-0.59	-0.57	54.10	-0.03	-0.02	MR
M8GRPP		43.97	-0.54	-0.52	54.22	0.09	0.08	MR
MC9ZRB	M	44.22	-0.29	-0.28	No data reported for this sample			MR
MN2MX7		44.72	0.21	0.20	54.23	0.11	0.09	MR
MPCKBM		44.64	0.13	0.13	55.02	0.89	0.78	MV
N7YXPF		44.95	0.44	0.43	53.85	-0.28	-0.25	MR
NMM9CH	X	44.27	-0.24	-0.23	56.34	2.22	1.96	MR
NQMLWL		42.60	-1.91	-1.84	51.40	-2.73	-2.41	MR
PMFPHB		44.11	-0.40	-0.38	54.84	0.71	0.63	MR
QAAYF4		47.02	2.52	2.43	56.29	2.17	1.91	TA
RCU4QL		45.38	0.88	0.84	55.06	0.93	0.82	MV
RK4MTH		43.51	-0.99	-0.96	52.85	-1.28	-1.13	MR
RTGN77		42.57	-1.94	-1.86	52.73	-1.39	-1.23	MV
TFBUC9		44.72	0.21	0.20	54.48	0.36	0.31	MR
UGYL2J		44.73	0.23	0.22	53.37	-0.76	-0.67	MR
W2DAYZ		45.69	1.18	1.14	56.01	1.88	1.66	MZ
WCUUJW		45.85	1.34	1.30	55.10	0.97	0.86	MR
WMEYYA		45.62	1.12	1.08	54.39	0.26	0.23	ML
WW6K68		43.29	-1.21	-1.17	53.51	-0.62	-0.55	MV
XNNMD7		45.67	1.16	1.12	54.82	0.69	0.61	MR

Summary Statistics		
Grand Means	44.505 ML 1 + 4	54.128 ML 1 + 4
Stnd Dev Btwn Labs	1.038 ML 1 + 4	1.131 ML 1 + 4
		Statistics based on 36 of 38 reporting participants

Samples T01-T02: NBR & T03-T04: Butyl

Comments on Assigned Data Flags for Test #660

MC9ZRB (M) - Participant did not submit data for sample group .

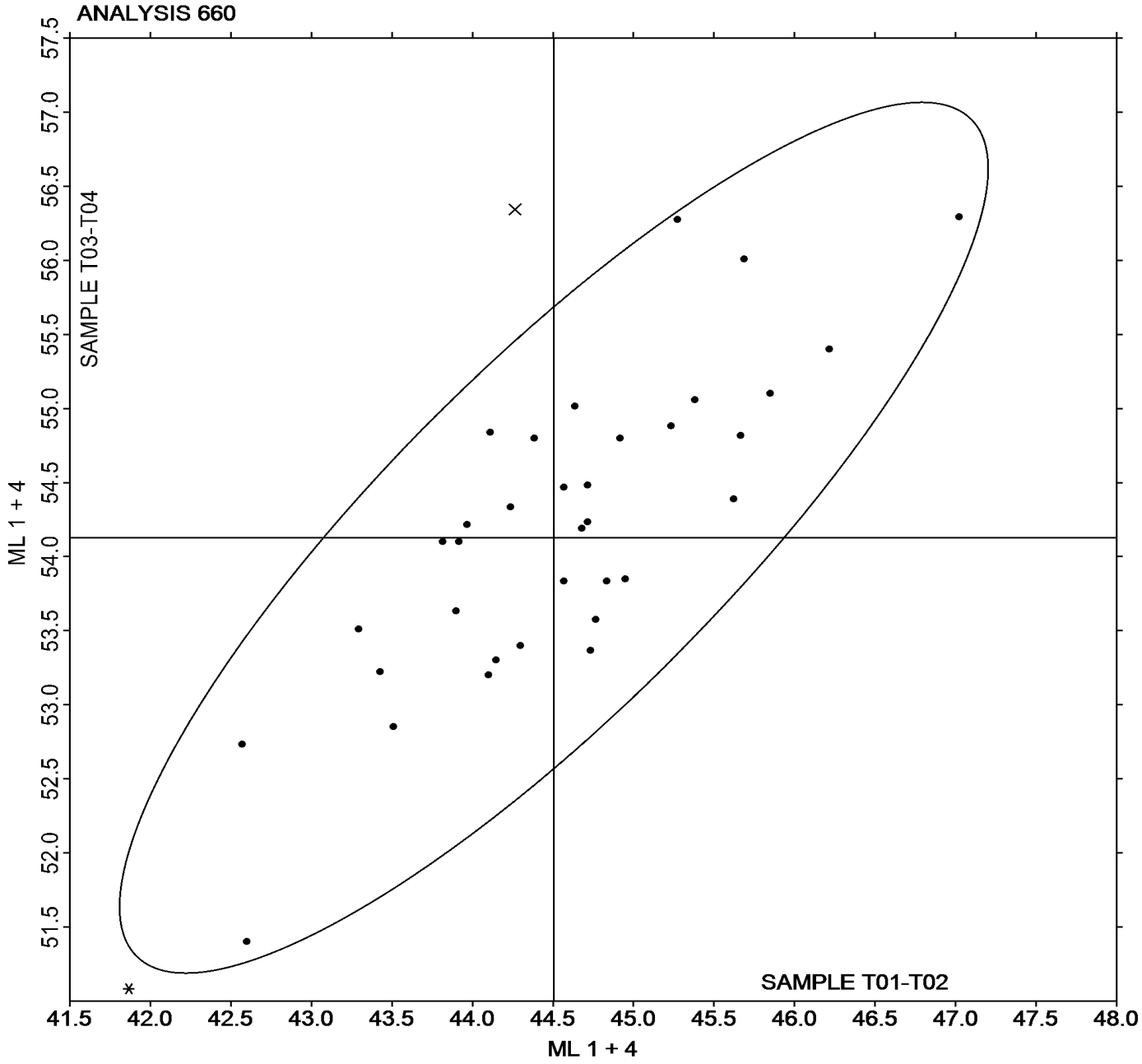
NMM9CH (X) - Inconsistent in testing between samples.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MP	Monsanto Compact Mooney Viscometer
MR	Alpha Technologies Model MV2000/MV2000E	MV	MonTech
MZ	Rebuilt Monsanto Mooney Viscometer	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T01-T02** = 44.505 ML 1 + 4

Grand Mean Sample **T03-T04** = 54.128 ML 1 + 4



Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

WebCode	Data Flag	Sample T01-T02 Lab Mean	Sample T01-T02 Diff from Grand Mean	Sample T01-T02 CPV	Sample T03-T04 Lab Mean	Sample T03-T04 Diff from Grand Mean	Sample T03-T04 CPV	Instr Code
3BKXEU		46.22	1.78	2.09	53.00	1.31	1.44	MR
3UTZDY		43.90	-0.53	-0.63	50.70	-0.99	-1.10	MR
6HEPZT		44.57	0.13	0.15	51.25	-0.44	-0.49	XX
86K3Q4		44.92	0.48	0.57	52.20	0.51	0.56	MR
89HJ4X		44.15	-0.29	-0.34	52.00	0.31	0.34	MV
8XLDAY		44.10	-0.33	-0.39	50.83	-0.86	-0.95	MR
92APEU		43.43	-1.01	-1.18	50.24	-1.46	-1.61	MP
AZWE2M		44.83	0.40	0.47	51.60	-0.09	-0.10	MV
BGYBXR		44.68	0.25	0.29	51.98	0.28	0.31	MR
CBUPTU		44.24	-0.20	-0.23	51.97	0.27	0.30	MR
D7U2PR		44.38	-0.05	-0.06	52.35	0.66	0.73	MR
DQ34NX		43.82	-0.62	-0.73	51.28	-0.41	-0.45	MR
EELVZV	X	41.87	-2.57	-3.02	51.58	-0.11	-0.12	MR
EK64HZ		45.28	0.84	0.99	52.32	0.62	0.69	XX
HC4PBW		44.77	0.33	0.39	51.37	-0.32	-0.36	MV
JABEUM		45.23	0.80	0.94	52.45	0.76	0.84	MR
K448TP		44.30	-0.13	-0.16	50.69	-1.00	-1.11	MP
KNNB6G		43.92	-0.52	-0.61	51.75	0.06	0.06	MR
M8GRPP		43.97	-0.47	-0.55	51.47	-0.23	-0.25	MR
MC9ZRB		44.22	-0.22	-0.25	51.78	0.08	0.09	MR
MN2MX7		44.72	0.28	0.33	51.90	0.21	0.23	MR
MPCKBM		44.64	0.20	0.24	52.11	0.42	0.46	MV
N7YXPF		44.95	0.52	0.60	51.47	-0.23	-0.25	MR
NMM9CH		44.27	-0.17	-0.20	53.03	1.33	1.48	MR
NQMLWL	*	42.60	-1.83	-2.15	49.08	-2.61	-2.89	MR
PMFPHB		44.11	-0.32	-0.38	52.47	0.77	0.86	MR
QAAYF4	X	47.02	2.59	3.04	58.15	6.45	7.13	TA
RCU4QL		45.38	0.95	1.11	52.86	1.17	1.29	MV
RK4MTH		43.51	-0.92	-1.08	50.64	-1.06	-1.17	MR
RTGN77		42.57	-1.86	-2.19	50.69	-1.00	-1.11	MV
W2DAYZ		45.69	1.25	1.47	53.49	1.79	1.98	MZ
WCUUJW	X	45.85	1.42	1.66	56.35	4.66	5.15	MR
WMEYYA		45.62	1.19	1.40	51.94	0.24	0.27	ML
WW6K68		43.29	-1.14	-1.34	51.41	-0.29	-0.32	MV
XNNMD7		45.67	1.23	1.45	51.92	0.22	0.25	MR

Summary Statistics		
Grand Means	44.435 ML 1 + 8	51.694 ML 1 + 8
Stnd Dev Btwn Labs	0.852 ML 1 + 8	0.904 ML 1 + 8
		Statistics based on 32 of 35 reporting participants

Samples T01-T02: NBR & T03-T04: Butyl

Comments on Assigned Data Flags for Test #661

EELVZV (X) - Data for sample group T01-T02 are low. Inconsistent within the determinations of sample group T03-T04.

QAAYF4 (X) - Data for all samples are high. Possible Systematic Error.

WCUUJW (X) - Data for sample group T03-T04 are high.

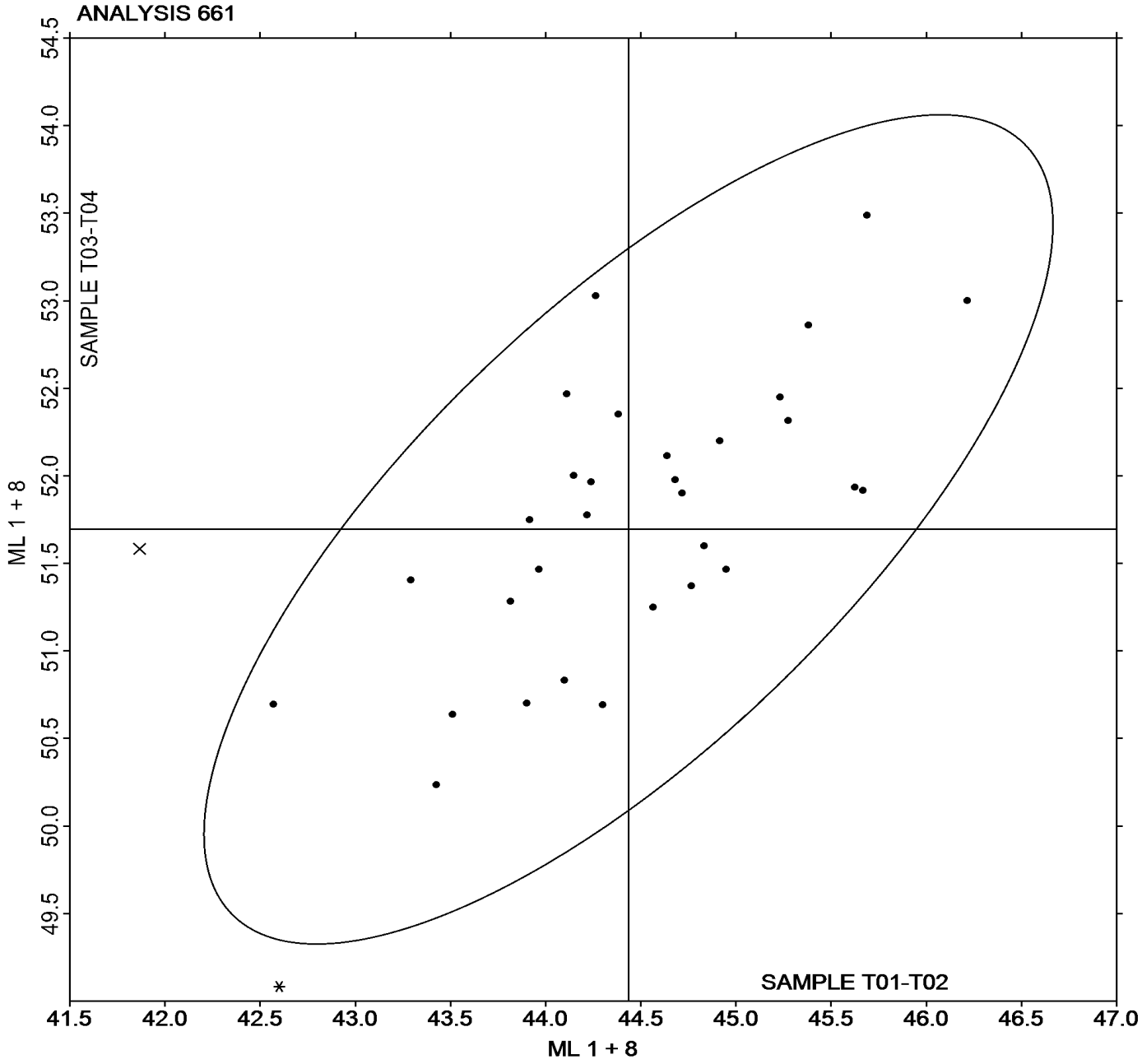
Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MP	Monsanto Compact Mooney Viscometer
MR	Alpha Technologies Model MV2000/MV2000E	MV	Montech
MZ	Rebuilt Monsanto Mooney Viscometer	TA	TA Instruments (any model)
XX	Instrument make/model not specified by lab		

Mooney Viscosity: 4-min NBR/SBR & 8-min butyl readings (ML)

Grand Mean Sample **T01-T02** = 44.435 ML 1 + 8

Grand Mean Sample **T03-T04** = 51.694 ML 1 + 8



Mooney Stress Relaxation: t80 (seconds)

WebCode	Data Flag	Sample T01-T02 Lab Mean	Sample T01-T02 Diff from Grand Mean	Sample T01-T02 CPV	Sample T03-T04 Lab Mean	Sample T03-T04 Diff from Grand Mean	Sample T03-T04 CPV	Instr Code
3BKXEU		5.060	0.406	0.50	8.133	0.179	0.20	MR
3UTZDY		4.893	0.239	0.29	7.787	-0.167	-0.18	MR
6HEPZT		5.200	0.546	0.67	8.317	0.363	0.40	XX
6Q9UTU		4.800	0.146	0.18	9.000	1.046	1.15	MR
8XLDAY		4.680	0.026	0.03	7.710	-0.244	-0.27	MR
AZWE2M		5.200	0.546	0.67	8.467	0.513	0.56	MV
EK64HZ		4.333	-0.321	-0.39	9.500	1.546	1.70	XX
HC4PBW		5.633	0.979	1.20	8.033	0.079	0.09	MV
KNNB6G		4.637	-0.018	-0.02	7.750	-0.204	-0.22	MR
M8GRPP		5.033	0.379	0.47	8.067	0.113	0.12	MR
MC9ZRB	X	347.300	342.646	420.78	424.100	416.146	458.65	MR
MPCKBM		3.633	-1.021	-1.25	6.533	-1.421	-1.57	MV
RCU4QL		4.200	-0.454	-0.56	7.400	-0.554	-0.61	MV
RTGN77	X	543.000	538.346	661.10	547.000	539.046	594.10	MV
W2DAYZ		2.467	-2.188	-2.69	6.000	-1.954	-2.15	MZ
WMEYYA		5.390	0.736	0.90	8.661	0.707	0.78	ML
WW6K68	X	303.000	298.346	366.38	306.700	298.746	329.26	MV
XNNMD7	X	21.128	16.474	20.23	22.692	14.738	16.24	MR

Summary Statistics

	Sample T01-T02	Sample T03-T04
Grand Means	4.6543 seconds	7.9541 seconds
Stnd Dev Btwn Labs	0.8143 seconds	0.9073 seconds

Statistics based on 14 of 18 reporting participants

Samples T01-T02: NBR & T03-T04: Butyl

Comments on Assigned Data Flags for Test #662

MC9ZRB (X) - Extreme data.

RTGN77 (X) - Extreme data.

WW6K68 (X) - Extreme data.

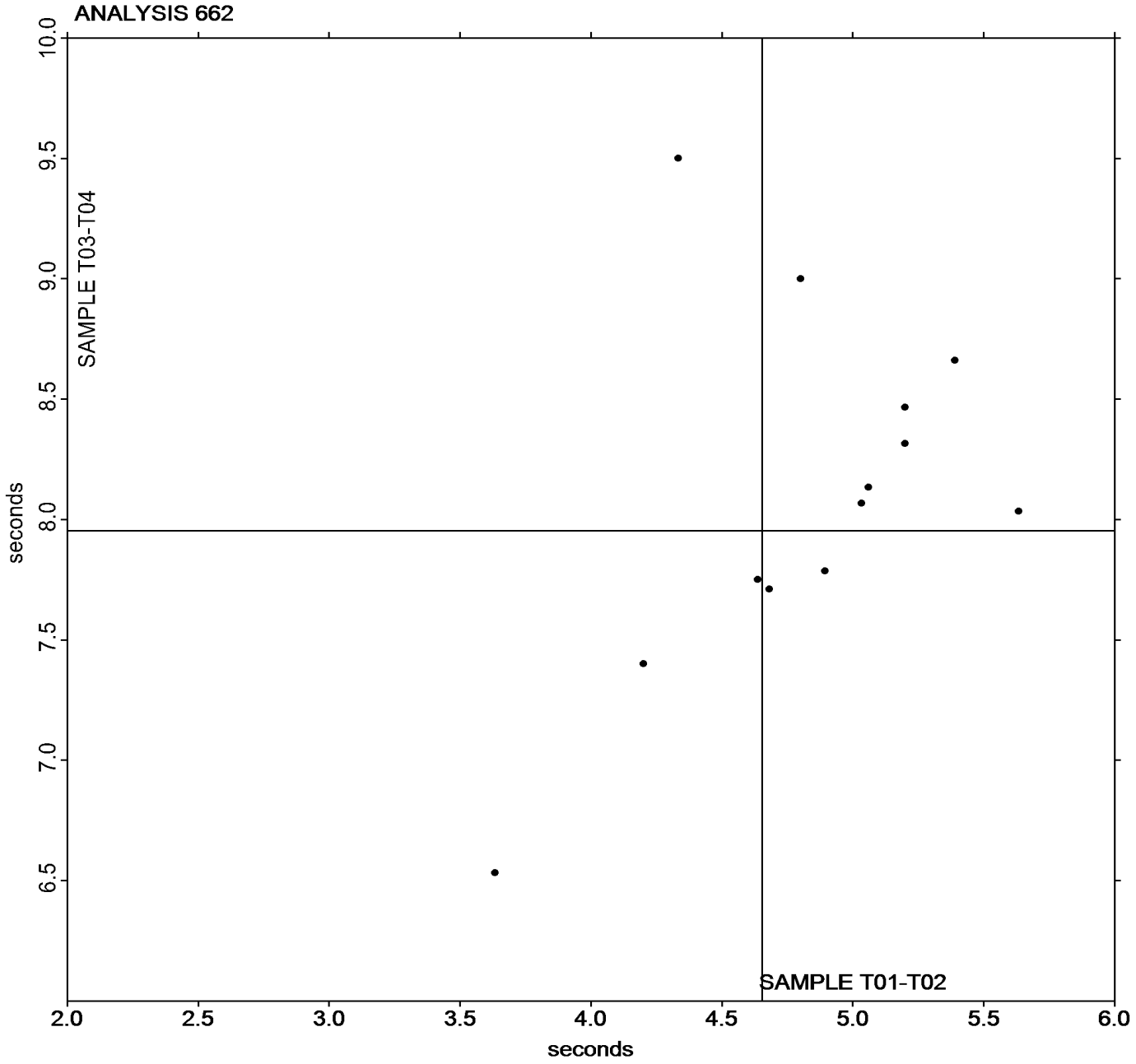
XNNMD7 (X) - Extreme data.

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified
MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech
MZ	Rebuilt Monsanto Mooney Viscometer
XX	Instrument make/model not specified by lab

Grand Mean Sample **T01-T02** = 4.6543 seconds

Grand Mean Sample **T03-T04** = 7.9541 seconds



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample T01-T02 Lab Mean	Diff from Grand Mean	CPV	Sample T03-T04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3BKXEU		90.18	-1.28	-0.43	90.53	-1.23	-0.96	MR
3UTZDY		91.76	0.29	0.10	92.00	0.24	0.19	MR
6HEPZT		90.72	-0.75	-0.25	91.03	-0.73	-0.57	XX
8XLDAY		91.95	0.49	0.16	92.23	0.47	0.37	MR
AZWE2M		90.50	-0.96	-0.32	90.49	-1.28	-1.00	MV
EK64HZ		92.43	0.97	0.33	90.48	-1.28	-1.00	XX
HC4PBW		89.41	-2.05	-0.69	91.48	-0.28	-0.22	MV
KNNB6G		91.35	-0.12	-0.04	91.60	-0.16	-0.13	MR
M8GRPP		91.65	0.19	0.06	91.58	-0.18	-0.14	MR
MC9ZRB	*	82.80	-8.67	-2.91	90.22	-1.54	-1.20	MR
MPCKBM		93.53	2.06	0.69	93.36	1.59	1.24	MV
RCU4QL		93.15	1.69	0.57	92.53	0.77	0.60	MV
W2DAYZ		96.54	5.07	1.71	94.44	2.67	2.08	MZ
WMEYYA		90.61	-0.85	-0.28	90.61	-1.16	-0.90	ML
WW6K68		95.39	3.92	1.32	93.98	2.22	1.73	MV
XNNMD7		91.44	-0.02	-0.01	91.65	-0.11	-0.09	MR

Summary Statistics

	Sample T01-T02	Sample T03-T04
Grand Means	91.462 percent	91.763 percent
Stnd Dev Btwn Labs	2.974 percent	1.283 percent

Statistics based on 16 of 16 reporting participants

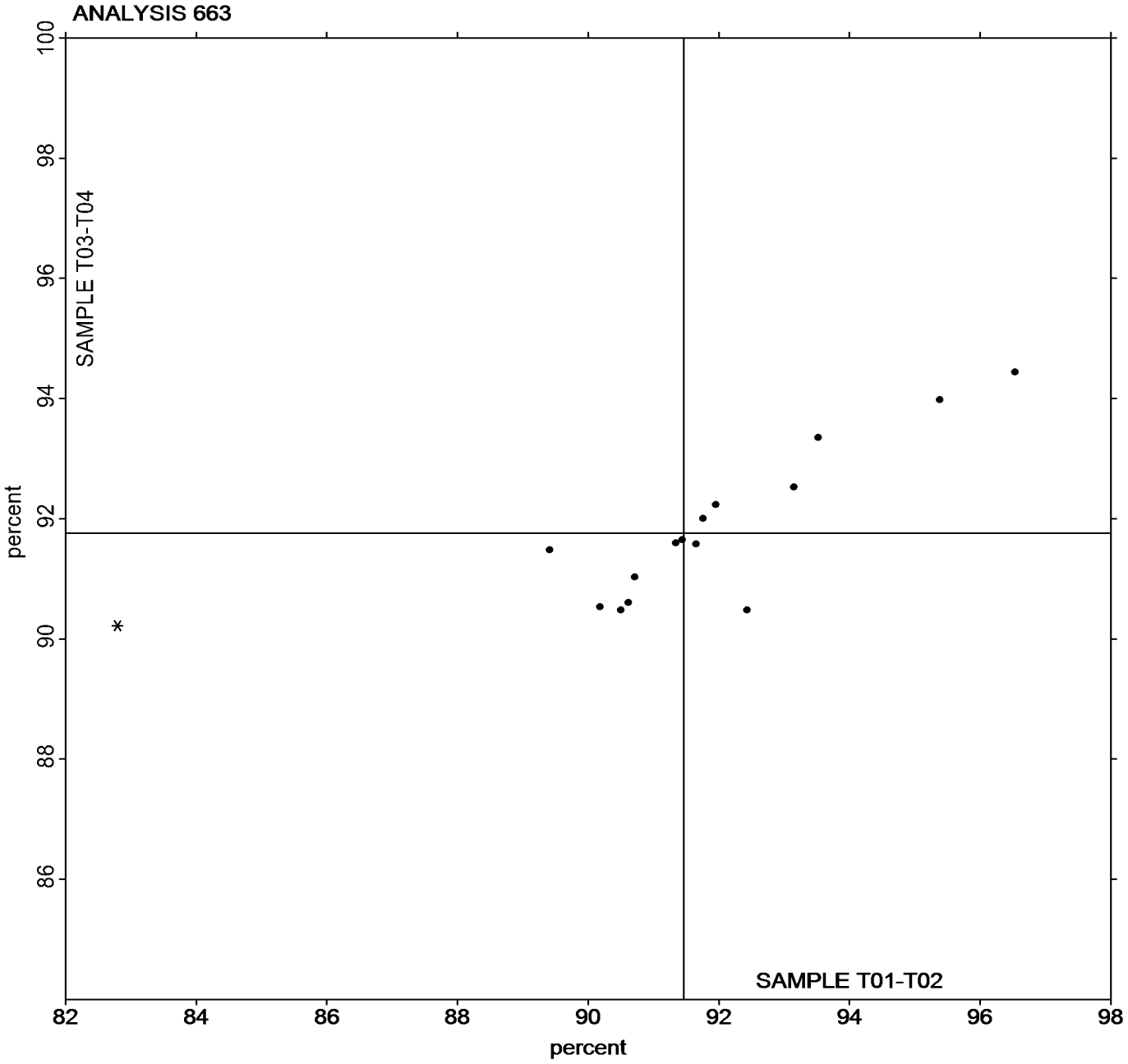
Samples T01-T02: NBR & T03-T04: Butyl

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	Montech	MZ	Rebuilt Monsanto Mooney Viscometer
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T01-T02** = 91.462 percent

Grand Mean Sample **T03-T04** = 91.763 percent



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

Mooney Stress Relaxation: Area under curve (M-s)

WebCode	Data Flag	Sample T01-T02 Lab Mean	Diff from Grand Mean	CPV	Sample T03-T04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
3UTZDY		390.3	10.6	0.10	457.2	-11.0	-0.14	MR
6HEPZT		447.3	67.5	0.65	516.7	48.5	0.60	XX
8XLDAY		380.2	0.4	0.00	450.3	-17.9	-0.22	XX
AZWE2M		459.8	80.1	0.78	539.1	70.9	0.87	MV
EK64HZ	*	366.9	-12.8	-0.12	597.6	129.4	1.59	XX
HC4PBW		523.5	143.7	1.39	496.9	28.7	0.35	MV
KNNB6G		407.3	27.6	0.27	487.5	19.3	0.24	MR
M8GRPP		403.8	24.1	0.23	491.3	23.1	0.28	MR
MC9ZRB		417.1	37.3	0.36	440.7	-27.5	-0.34	MR
MPCKBM		300.9	-78.8	-0.76	373.7	-94.5	-1.16	MV
RCU4QL		326.0	-53.8	-0.52	432.4	-35.7	-0.44	MV
W2DAYZ		147.2	-232.5	-2.25	319.8	-148.4	-1.83	MZ
WMEYYA		506.4	126.7	1.23	593.4	125.3	1.54	ML
WW6K68		197.1	-182.7	-1.77	337.3	-130.8	-1.61	MV
XNNMD7		422.2	42.5	0.41	488.7	20.5	0.25	MR

Summary Statistics

	Sample T01-T02	Sample T03-T04
Grand Means	379.74 M-s	468.18 M-s
Stnd Dev Btwn Labs	103.18 M-s	81.29 M-s

Statistics based on 15 of 15 reporting participants

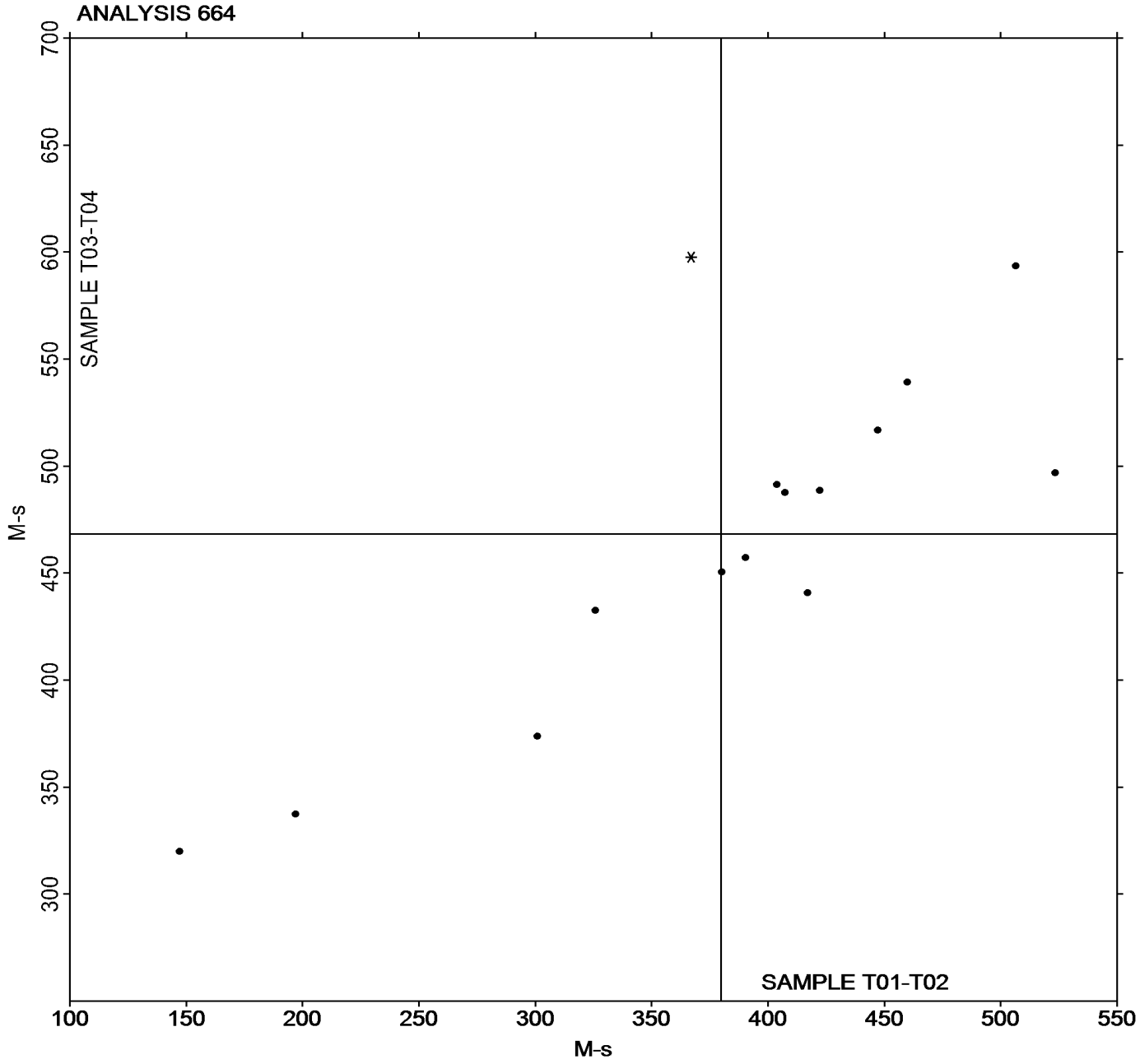
Samples T01-T02: NBR & T03-T04: Butyl

Key to Instrument Codes Reported by Participants

ML	Alpha Technologies/Monsanto model not specified	MR	Alpha Technologies Model MV2000/MV2000E
MV	MonTech	MZ	Rebuilt Mooney Viscometer
XX	Instrument make/model not specified by lab		

Grand Mean Sample **T01-T02** = 379.74 M-s

Grand Mean Sample **T03-T04** = 468.18 M-s



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Sample X01-X02 Diff from Grand Mean	Sample X01-X02 CPV	Sample X03-X04 Lab Mean	Sample X03-X04 Diff from Grand Mean	Sample X03-X04 CPV
BGYBXR		1.800	-0.142	-0.85	3.072	-0.483	-0.72
HC4PBW		2.148	0.207	1.23	4.557	1.002	1.50
MPCKBM		1.755	-0.187	-1.11	2.952	-0.603	-0.90
NQMLWL		2.117	0.175	1.04	3.513	-0.041	-0.06
RTGN77		1.842	-0.100	-0.60	3.063	-0.491	-0.74
X69EC6		1.988	0.047	0.28	4.170	0.616	0.92

Summary Statistics

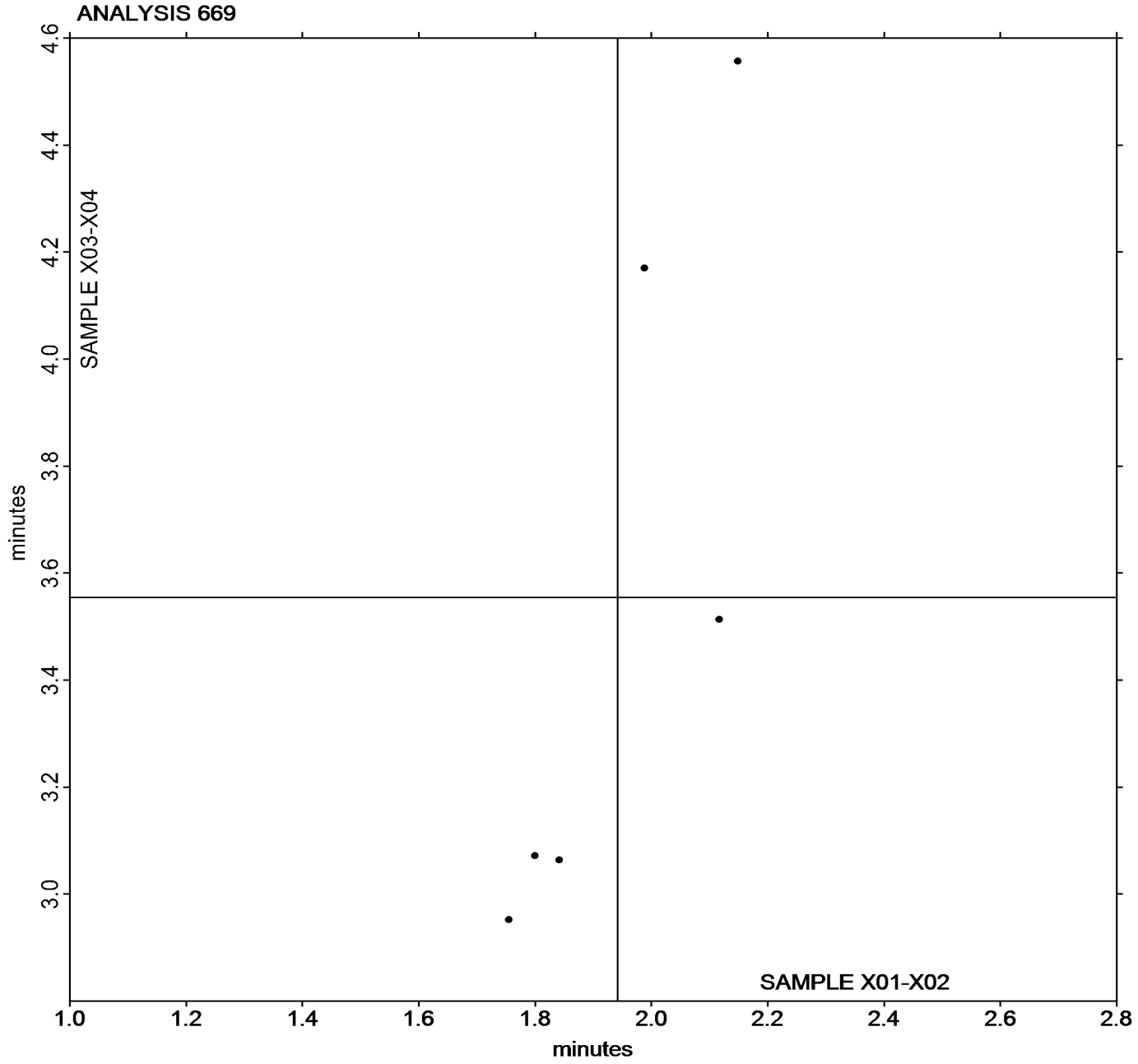
	Sample X01-X02	Sample X03-X04
Grand Means	1.9417 minutes	3.5544 minutes
Stnd Dev Btwn Labs	0.1676 minutes	0.6667 minutes

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 1.9417 minutes

Grand Mean Sample **X03-X04** = 3.5544 minutes



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Diff from Grand Mean	CPV	Sample X03-X04 Lab Mean	Diff from Grand Mean	CPV
BGYBXR		1.242	-0.176	-1.06	2.298	-0.352	-0.68
HC4PBW		1.557	0.139	0.84	3.498	0.848	1.63
MPCKBM		1.197	-0.221	-1.34	2.100	-0.551	-1.06
NQMLWL		1.590	0.173	1.04	2.685	0.034	0.07
RTGN77		1.413	-0.004	-0.03	2.342	-0.309	-0.59
X69EC6		1.507	0.089	0.54	2.980	0.329	0.63

Summary Statistics

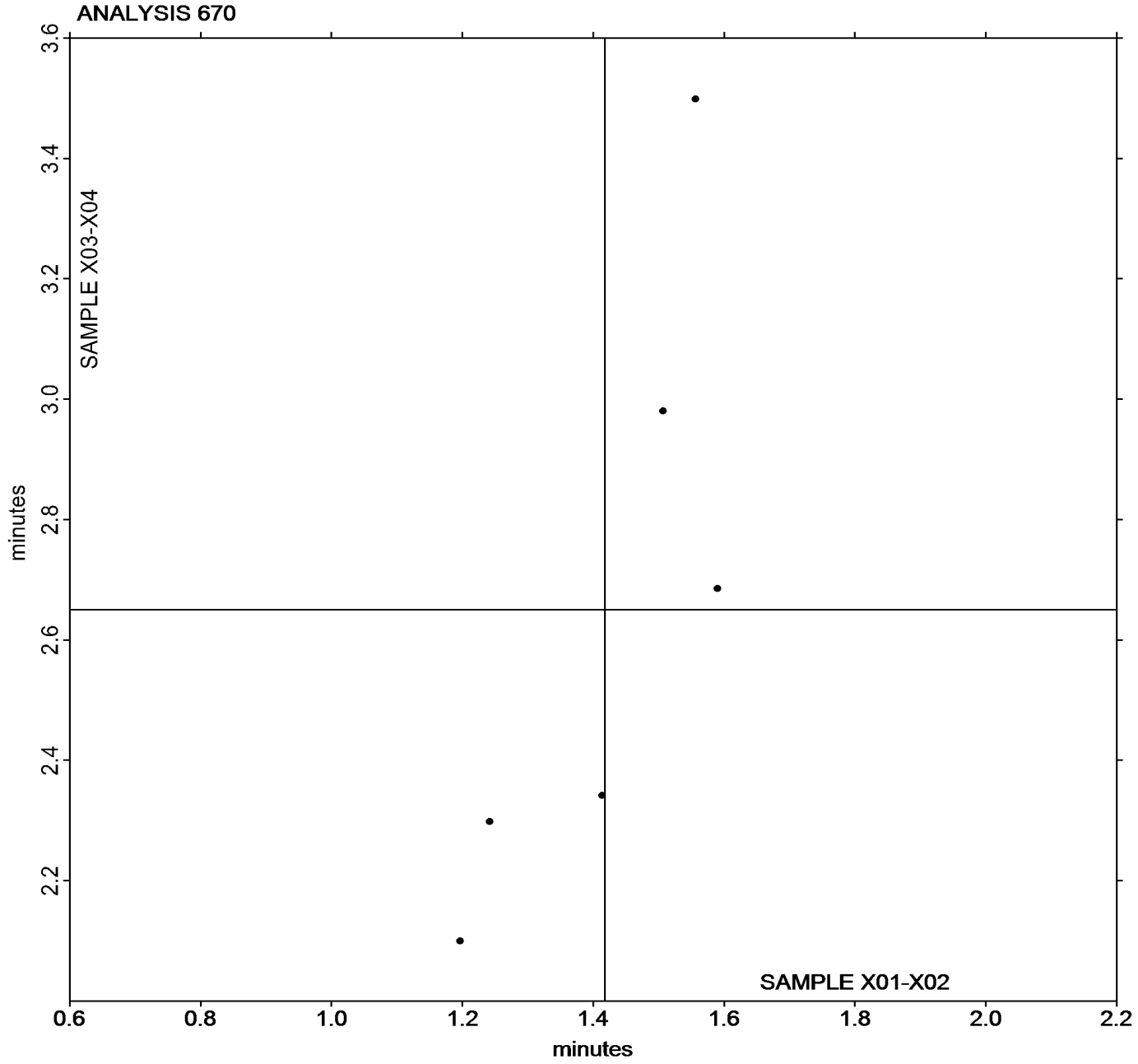
	X01-X02	X03-X04
Grand Means	1.4175 minutes	2.6506 minutes
Stnd Dev Btwn Labs	0.1654 minutes	0.5198 minutes

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 1.4175 minutes

Grand Mean Sample **X03-X04** = 2.6506 minutes



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Diff from Grand Mean	CPV	Sample X03-X04 Lab Mean	Diff from Grand Mean	CPV
BGYBXR		3.683	-0.078	-0.28	5.662	-0.910	-0.72
HC4PBW		4.078	0.317	1.13	8.277	1.705	1.35
MPCKBM		3.477	-0.285	-1.02	5.563	-1.008	-0.80
NQMLWL		3.998	0.237	0.85	6.230	-0.341	-0.27
RTGN77		3.412	-0.350	-1.25	5.633	-0.938	-0.74
X69EC6		3.922	0.160	0.57	8.062	1.491	1.18

Summary Statistics

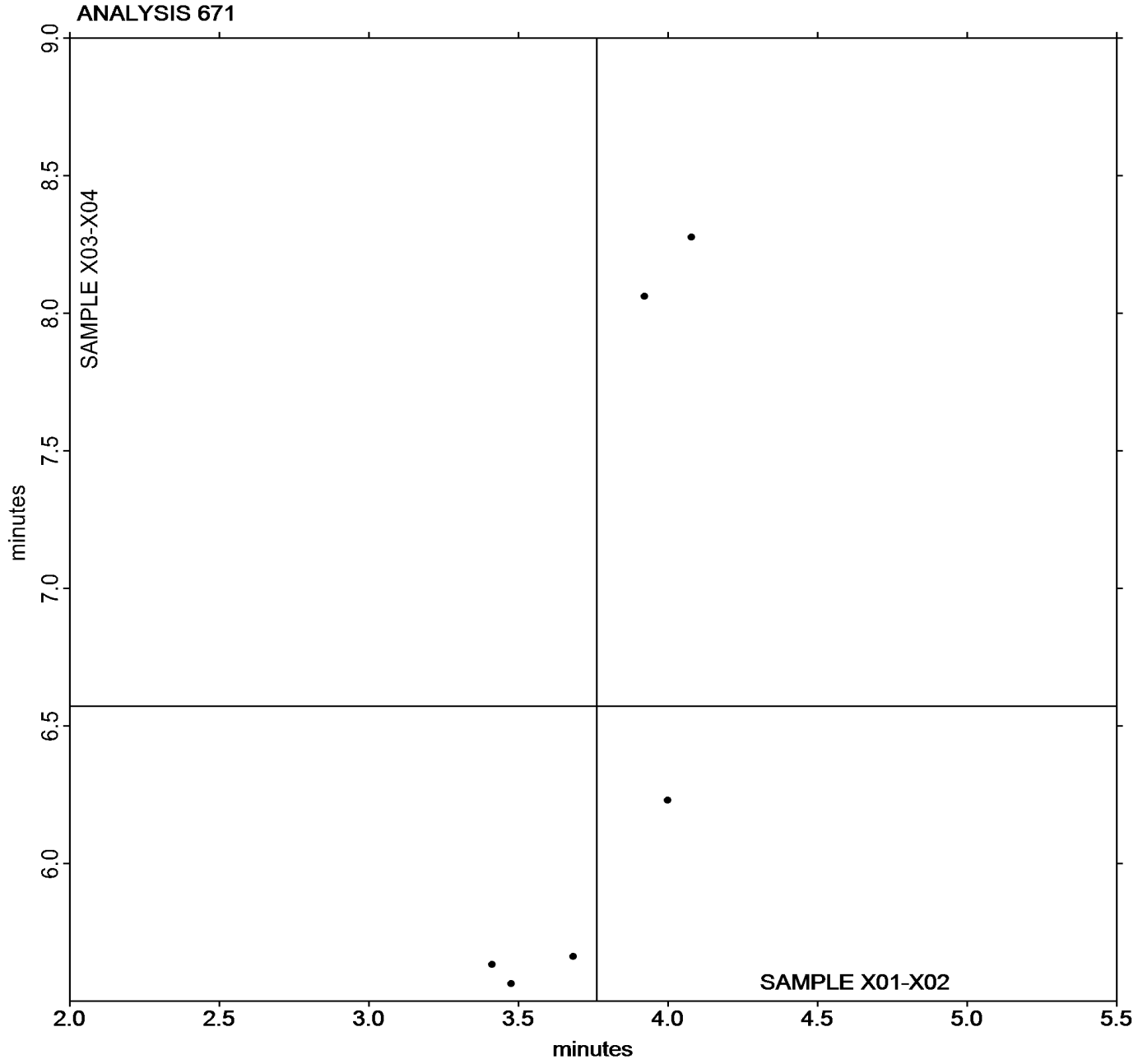
	Sample X01-X02	Sample X03-X04
Grand Means	3.7617 minutes	6.5712 minutes
Stnd Dev Btwn Labs	0.2799 minutes	1.2625 minutes

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 3.7617 minutes

Grand Mean Sample **X03-X04** = 6.5712 minutes



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Sample X01-X02 Diff from Grand Mean	Sample X01-X02 CPV	Sample X03-X04 Lab Mean	Sample X03-X04 Diff from Grand Mean	Sample X03-X04 CPV
BGYBXR		19.02	5.77	1.89	11.58	-1.83	-0.63
HC4PBW		12.40	-0.84	-0.27	17.99	4.58	1.58
MPCKBM		10.03	-3.22	-1.05	10.89	-2.52	-0.87
NQMLWL		13.04	-0.20	-0.07	12.54	-0.87	-0.30
RTGN77		11.70	-1.55	-0.51	11.47	-1.94	-0.67
X69EC6		13.28	0.03	0.01	15.99	2.58	0.89

Summary Statistics

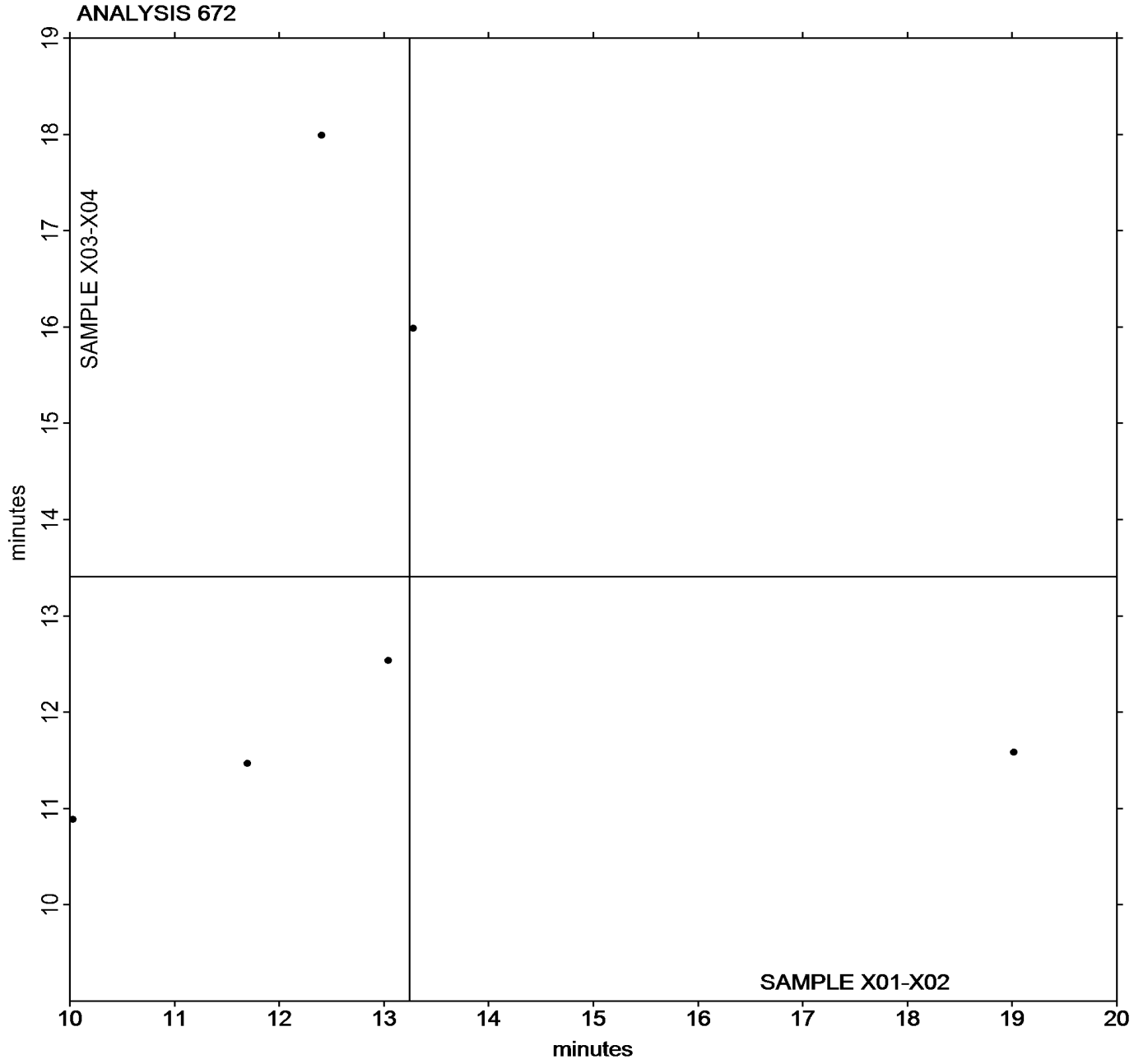
	Sample X01-X02	Sample X03-X04
Grand Means	13.244 minutes	13.408 minutes
Stnd Dev Btwn Labs	3.060 minutes	2.893 minutes

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 13.244 minutes

Grand Mean Sample **X03-X04** = 13.408 minutes



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Sample X01-X02 Diff from Grand Mean	Sample X01-X02 CPV	Sample X03-X04 Lab Mean	Sample X03-X04 Diff from Grand Mean	Sample X03-X04 CPV
BGYBXR		6.030	-1.294	-0.87	12.66	1.10	0.44
HC4PBW		6.890	-0.434	-0.29	10.90	-0.67	-0.27
MPCKBM		9.048	1.725	1.16	12.28	0.72	0.29
NQMLWL		7.288	-0.035	-0.02	9.57	-1.99	-0.79
RTGN77		5.583	-1.740	-1.17	8.45	-3.11	-1.24
X69EC6		9.102	1.778	1.20	15.52	3.96	1.58

Summary Statistics

	Sample X01-X02	Sample X03-X04
Grand Means	7.3236 lbf.in	11.561 lbf.in
Stnd Dev Btwn Labs	1.4851 lbf.in	2.508 lbf.in

Statistics based on 6 of 6 reporting participants

Summary Statistics in SI Units

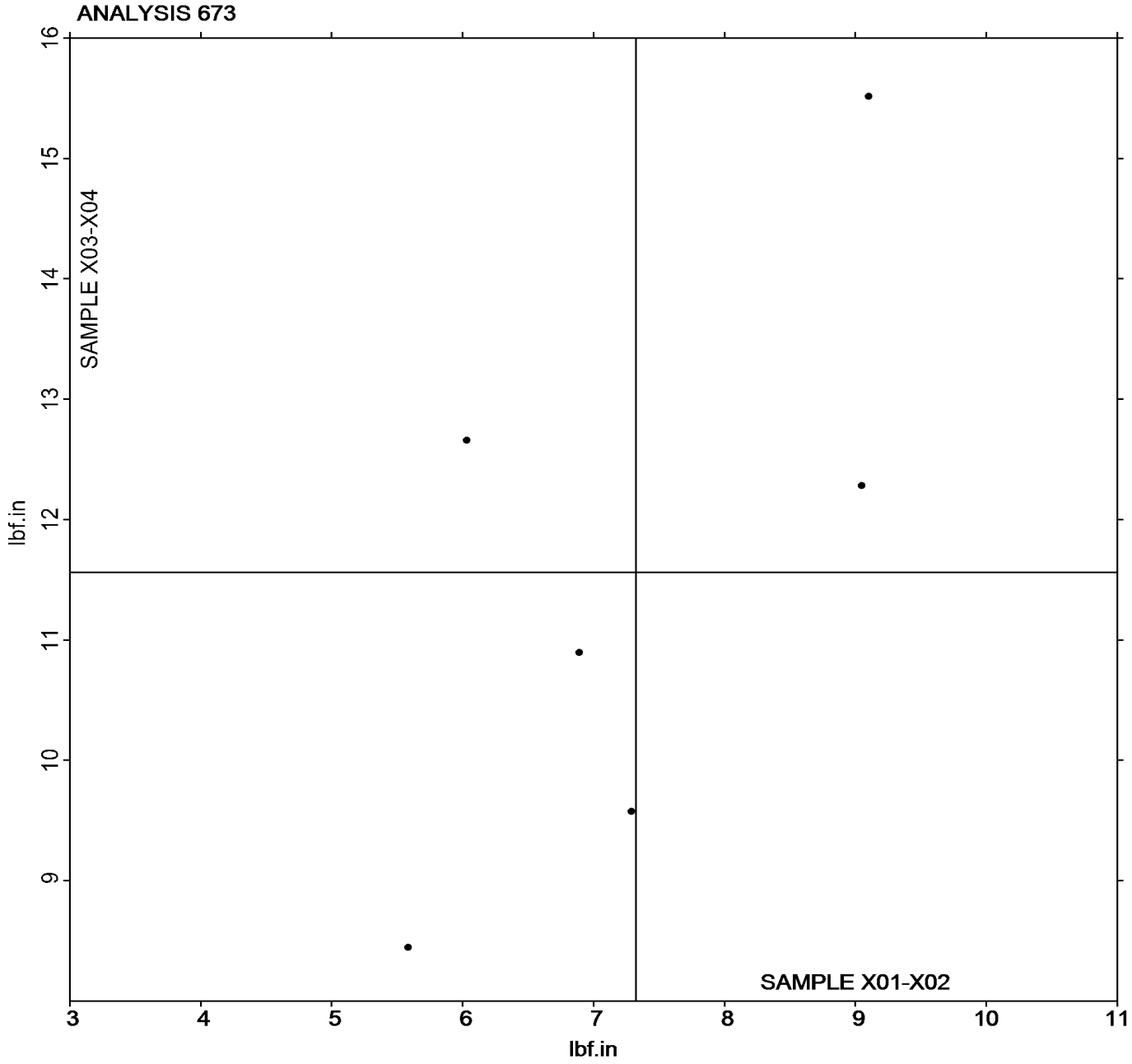
	Sample X01-X02	Sample X03-X04
Grand Means	8.2746 dN.m	13.063 dN.m
Stnd Dev Btwn Labs	1.6779 dN.m	2.834 dN.m

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 7.3236 lbf.in

Grand Mean Sample **X03-X04** = 11.561 lbf.in



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X01-X02 Lab Mean	Diff from Grand Mean	CPV	Sample X03-X04 Lab Mean	Diff from Grand Mean	CPV
BGYBXR		49.36	4.39	1.04	40.65	1.68	0.41
HC4PBW		46.23	1.26	0.30	36.75	-2.23	-0.54
MPCKBM		50.20	5.23	1.24	43.41	4.44	1.08
NQMLWL		41.23	-3.74	-0.89	36.16	-2.82	-0.68
RTGN77		40.60	-4.37	-1.04	33.48	-5.49	-1.33
X69EC6		42.20	-2.77	-0.66	43.39	4.41	1.07

Summary Statistics

	Sample X01-X02	Sample X03-X04
Grand Means	44.970 lbf.in	38.974 lbf.in
Stnd Dev Btwn Labs	4.219 lbf.in	4.124 lbf.in

Statistics based on 6 of 6 reporting participants

Summary Statistics in SI Units

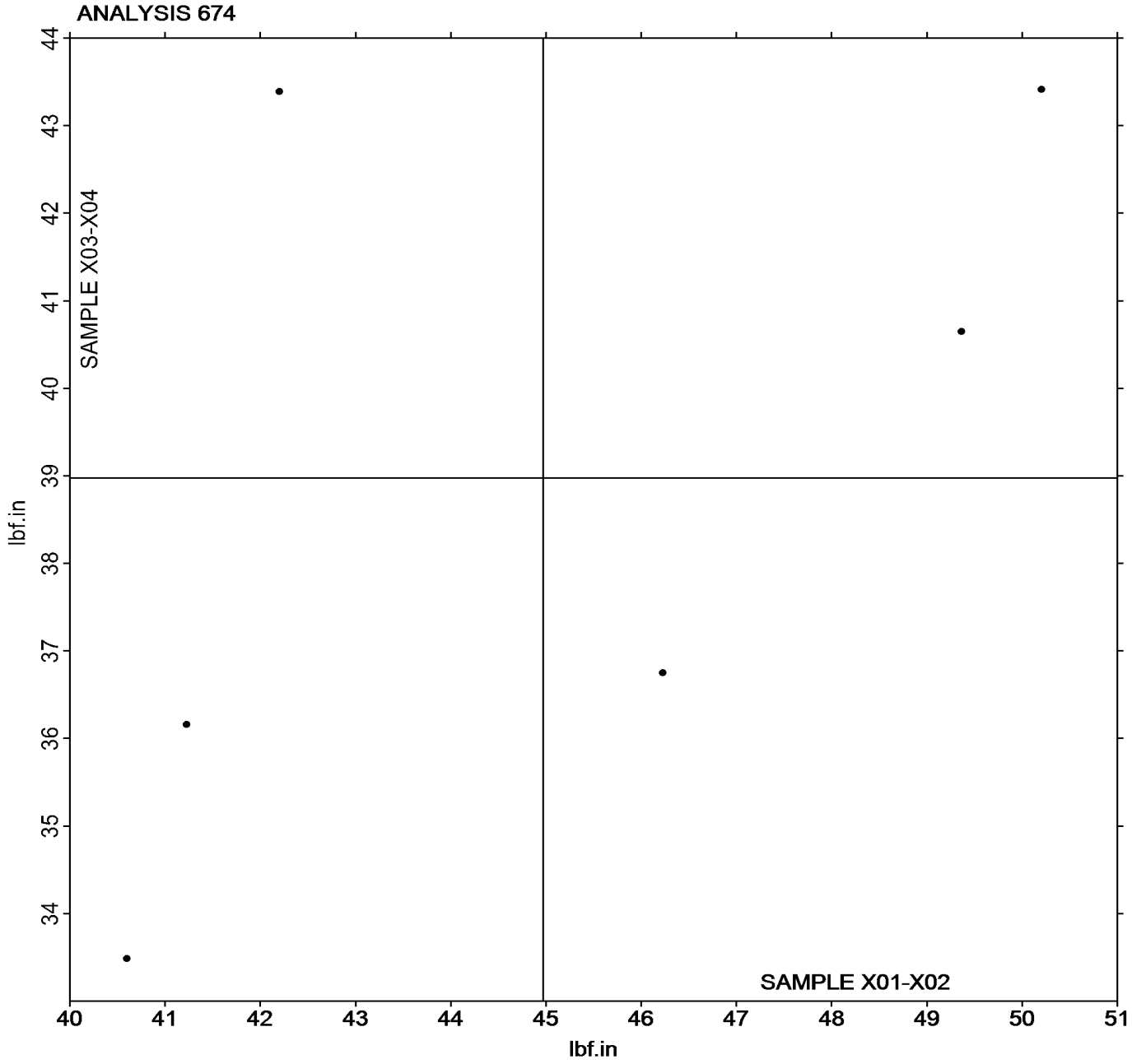
	Sample X01-X02	Sample X03-X04
Grand Means	50.809 dN.m	44.034 dN.m
Stnd Dev Btwn Labs	4.767 dN.m	4.659 dN.m

Statistics based on 6 of 6 reporting participants

Samples X01-X02: EPDM compound, batch #1 & X03-X04: EPDM compound, batch #2

Grand Mean Sample **X01-X02** = 44.970 lbf.in

Grand Mean Sample **X03-X04** = 38.974 lbf.in



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample X05-X06 Lab Mean	Sample X05-X06 Diff from Grand Mean	Sample X05-X06 CPV	Sample X07-X08 Lab Mean	Sample X07-X08 Diff from Grand Mean	Sample X07-X08 CPV	Instr Code
2CHQYT		2.125	-0.663	-1.51	2.782	-0.216	-1.72	MC
3B4JDC		2.190	-0.598	-1.36	2.955	-0.043	-0.34	MR
3BKXEU		2.895	0.107	0.24	2.950	-0.048	-0.38	MC
3UTZDY		3.035	0.247	0.56	3.117	0.119	0.94	MC
6HEPZT		2.160	-0.628	-1.43	2.927	-0.071	-0.57	XX
86K3Q4		3.043	0.255	0.58	2.955	-0.043	-0.34	MC
89HJ4X	*	2.792	0.004	0.01	2.700	-0.298	-2.38	MC
9PLDBW		2.933	0.146	0.33	2.861	-0.137	-1.09	MC
9RBPA3		3.077	0.289	0.66	2.920	-0.078	-0.62	ME
AZWE2M		2.363	-0.425	-0.97	2.975	-0.023	-0.18	MM
BGYBXR		2.185	-0.603	-1.37	2.997	-0.001	-0.01	MC
CBUPTU		3.112	0.324	0.74	3.087	0.089	0.71	MC
EK64HZ		1.915	-0.873	-1.99	2.698	-0.300	-2.39	MC
EV7LYV		3.062	0.274	0.62	2.930	-0.068	-0.54	MD
HC4PBW		3.395	0.607	1.38	3.190	0.192	1.53	MD
KMDAHH		2.235	-0.553	-1.26	3.045	0.047	0.37	MC
KNNB6G		2.895	0.107	0.24	3.047	0.049	0.39	MC
MC9ZRB	*	2.232	-0.556	-1.27	3.203	0.205	1.63	MC
MN2MX7		3.018	0.230	0.53	2.907	-0.091	-0.73	MC
MPCKBM		3.290	0.502	1.14	3.048	0.050	0.40	XX
N7YXPF		2.955	0.167	0.38	3.007	0.009	0.07	MC
NMM9CH		3.343	0.555	1.27	3.183	0.185	1.48	TP
NQMLWL		2.935	0.147	0.34	2.978	-0.020	-0.16	MC
RCU4QL	X	3.017	0.229	0.52	6.898	3.900	31.07	MC
RK4MTH		3.175	0.387	0.88	2.970	-0.028	-0.22	MC
TFBUC9		2.173	-0.615	-1.40	3.007	0.009	0.07	MP
UM6BLD		3.123	0.335	0.76	3.082	0.084	0.67	MC
VGX4JE		2.925	0.137	0.31	3.025	0.027	0.21	MM
W2DAYZ		2.215	-0.573	-1.31	2.932	-0.066	-0.53	MX
WMEYYA		3.083	0.295	0.67	3.106	0.108	0.86	MM
WW6K68		3.138	0.350	0.80	3.108	0.110	0.88	MR
XNNMD7		3.118	0.330	0.75	3.153	0.155	1.24	MC
ZQML24		3.075	0.287	0.65	3.097	0.099	0.78	ME

Summary Statistics		
Grand Means	2.7879 minutes	2.9981 minutes
Stnd Dev Btwn Labs	0.4387 minutes	0.1255 minutes
		Statistics based on 32 of 33 reporting participants

Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #684

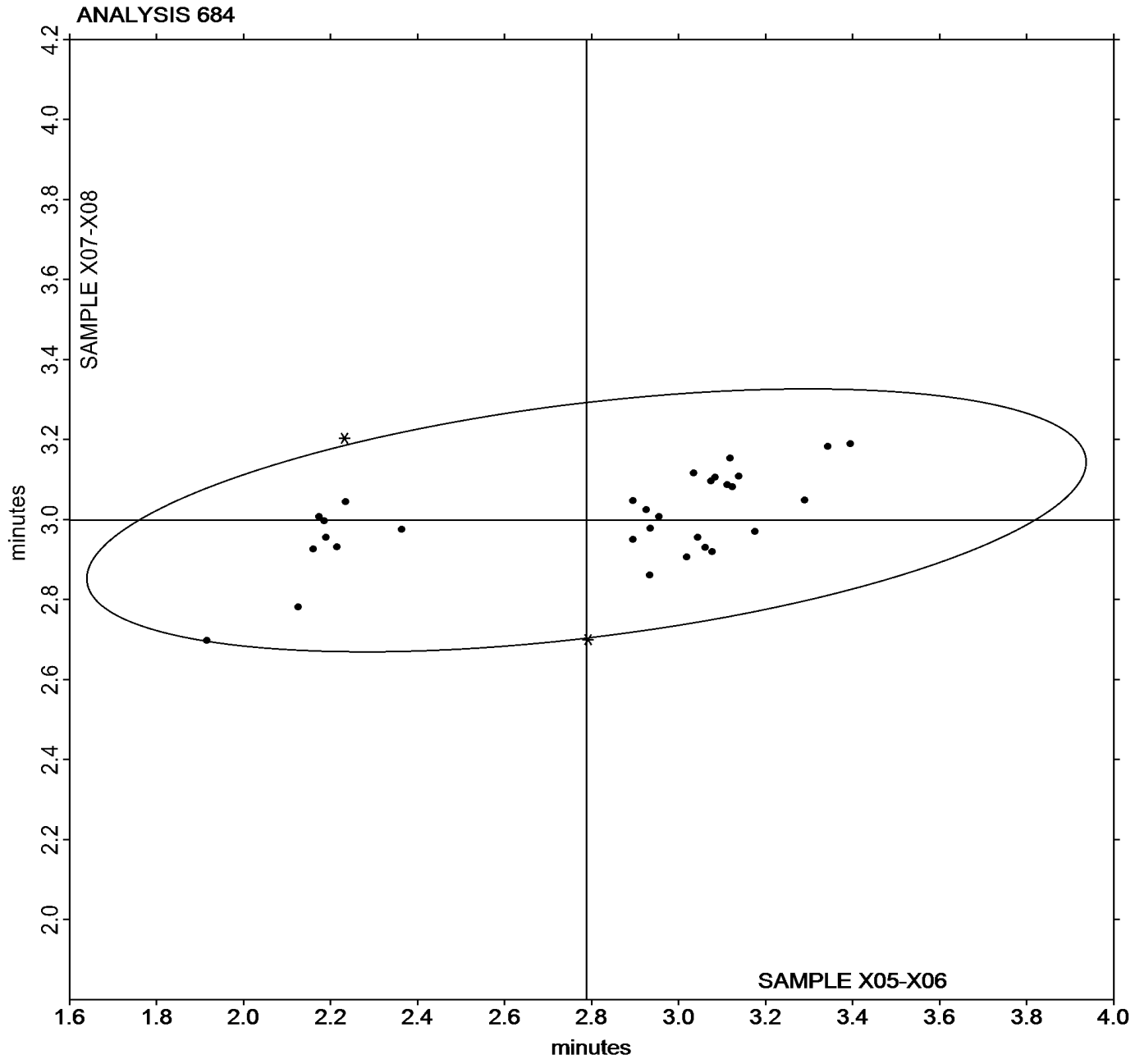
RCU4QL (X) - Extreme Data for sample group X07-X08.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	TP	Tech Pro MDR model MDPT
XX	Instrument model not specified by lab		

Grand Mean Sample **X05-X06** = 2.7879 minutes

Grand Mean Sample **X07-X08** = 2.9981 minutes



WebCode	Data Flag	Sample X05-X06 Lab Mean	Diff from Grand Mean	CPV	Sample X07-X08 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		1.943	-0.833	-1.94	2.563	-0.384	-2.02	MC
3B4JDC		2.308	-0.468	-1.09	3.125	0.178	0.93	MR
3BKXEU		2.910	0.133	0.31	2.920	-0.027	-0.14	MC
3UTZDY		3.015	0.238	0.56	3.057	0.109	0.57	MC
6HEPZT		2.208	-0.568	-1.32	3.022	0.074	0.39	XX
6Q9UTU		2.255	-0.522	-1.22	3.013	0.066	0.35	MC
86K3Q4		3.115	0.338	0.79	3.022	0.074	0.39	MC
89HJ4X		2.680	-0.097	-0.23	2.510	-0.437	-2.30	MC
8XLDAY		2.769	-0.007	-0.02	2.658	-0.289	-1.52	MC
9PLDBW		2.947	0.171	0.40	2.836	-0.111	-0.58	MC
9RBPA3		3.017	0.240	0.56	2.887	-0.061	-0.32	ME
AZWE2M		2.218	-0.558	-1.30	2.792	-0.156	-0.82	MM
BGYBXR		2.135	-0.642	-1.50	2.905	-0.042	-0.22	MC
CBUPTU		3.102	0.325	0.76	3.043	0.096	0.50	MC
EK64HZ	X	1.312	-1.465	-3.42	1.872	-1.076	-5.65	MC
EV7LYV		3.038	0.262	0.61	2.998	0.051	0.27	MD
HC4PBW		3.403	0.627	1.46	3.185	0.238	1.25	MD
K448TP		2.815	0.038	0.09	2.695	-0.252	-1.32	MR
KMDAHH		2.150	-0.627	-1.46	2.860	-0.087	-0.46	MC
KNNB6G		2.937	0.160	0.37	3.083	0.136	0.71	MC
MC9ZRB	*	2.277	-0.500	-1.17	3.285	0.338	1.77	MC
MECVBD		2.828	0.052	0.12	2.797	-0.151	-0.79	MC
MN2MX7		3.057	0.280	0.65	2.993	0.046	0.24	MC
MPCKBM		3.482	0.705	1.64	3.088	0.141	0.74	XX
N7YXPF		2.908	0.132	0.31	2.960	0.013	0.07	MC
NMM9CH		3.552	0.775	1.81	3.382	0.434	2.28	TP
NQMLWL		2.983	0.207	0.48	2.987	0.039	0.21	MC
RCU4QL		2.932	0.155	0.36	3.010	0.063	0.33	MC
RK4MTH		3.102	0.325	0.76	2.957	0.009	0.05	MC
RTGN77	X	3.828	1.052	2.45	3.853	0.906	4.76	MM
TFBUC9		2.007	-0.770	-1.79	2.763	-0.184	-0.97	MP
UM6BLD		3.038	0.262	0.61	2.970	0.023	0.12	MC
VGX4JE		2.972	0.195	0.45	3.097	0.149	0.78	MM
W2DAYZ		2.122	-0.655	-1.53	2.848	-0.099	-0.52	MX
WMEYYA		2.975	0.198	0.46	3.089	0.141	0.74	MM
WW6K68		2.692	-0.085	-0.20	2.615	-0.332	-1.74	MR
XNNMD7		2.958	0.182	0.42	2.948	0.001	0.01	MC
ZQML24		3.107	0.330	0.77	3.140	0.193	1.01	ME

WebCode	Data Flag	Sample X05-X06 Lab Mean	Sample X05-X06 Diff from Grand Mean	Sample X05-X06 CPV	Sample X07-X08 Lab Mean	Sample X07-X08 Diff from Grand Mean	Sample X07-X08 CPV	Instr Code

Summary Statistics

	Sample X05-X06	Sample X07-X08
Grand Means	2.7766 minutes	2.9473 minutes
Stnd Dev Btwn Labs	0.4289 minutes	0.1905 minutes

Statistics based on 36 of 38 reporting participants

Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #685

EK64HZ (X) - Data for all samples are low. Inconsistent within the determinations of sample group X07-X08.

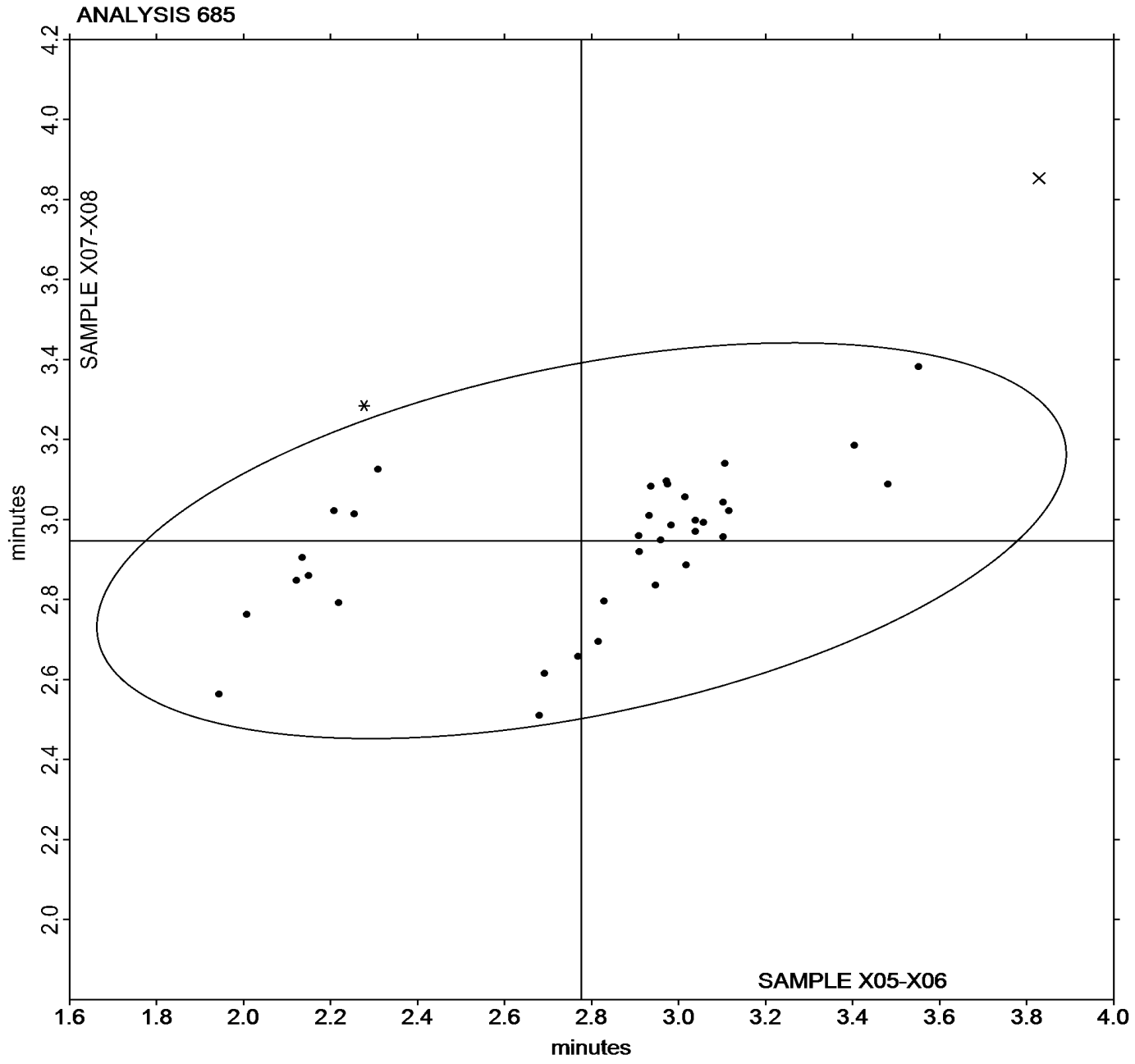
RTGN77 (X) - Data for sample group X07-X08 are high.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	TP	Tech Pro MDR model MDPT
XX	Instrument model not specified by lab		

Grand Mean Sample **X05-X06** = 2.7766 minutes

Grand Mean Sample **X07-X08** = 2.9473 minutes



WebCode	Data Flag	Sample X05-X06 Lab Mean	Diff from Grand Mean	CPV	Sample X07-X08 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		4.868	-1.252	-1.59	6.358	-0.262	-1.08	MC
3B4JDC		5.005	-1.115	-1.42	6.458	-0.162	-0.67	MR
3BKXEU		6.382	0.262	0.33	6.688	0.068	0.28	MC
3UTZDY		6.462	0.342	0.43	6.870	0.250	1.03	MC
6HEPZT		4.810	-1.310	-1.67	6.458	-0.162	-0.67	XX
6Q9UTU		4.860	-1.260	-1.60	6.348	-0.272	-1.12	MC
86K3Q4		6.735	0.615	0.78	6.693	0.073	0.30	MC
89HJ4X		6.308	0.188	0.24	6.423	-0.197	-0.81	MC
8XLDAY		6.765	0.645	0.82	6.623	0.003	0.01	MC
9PLDBW		6.470	0.349	0.44	6.558	-0.062	-0.26	MC
9RBPA3		6.502	0.382	0.49	6.238	-0.382	-1.57	ME
AZWE2M		5.393	-0.727	-0.92	6.697	0.076	0.31	MM
BGYBXR		4.782	-1.338	-1.70	6.503	-0.117	-0.48	MC
CBUPTU		6.582	0.462	0.59	6.723	0.103	0.42	MC
EK64HZ	X	4.150	-1.970	-2.51	5.600	-1.020	-4.20	MC
EV7LYV		6.463	0.343	0.44	6.270	-0.350	-1.44	MD
HC4PBW		7.272	1.152	1.47	7.042	0.421	1.73	MX
K448TP		6.853	0.733	0.93	6.667	0.046	0.19	MR
KMDAHH		5.075	-1.045	-1.33	6.925	0.305	1.25	MC
KNNB6G		6.147	0.027	0.03	6.478	-0.142	-0.58	MC
MC9ZRB		4.647	-1.473	-1.88	6.428	-0.192	-0.79	MC
MECVBD		5.982	-0.138	-0.18	6.090	-0.530	-2.18	MC
MN2MX7		6.417	0.297	0.38	6.215	-0.405	-1.67	MC
MPCKBM		7.030	0.910	1.16	6.650	0.030	0.12	XX
N7YXPF		6.343	0.223	0.28	6.843	0.223	0.92	MC
NMM9CH		6.715	0.595	0.76	6.725	0.105	0.43	TP
NQMLWL		6.408	0.288	0.37	6.777	0.156	0.64	MC
RCU4QL		6.450	0.330	0.42	6.898	0.278	1.14	MC
RK4MTH		6.685	0.565	0.72	6.463	-0.157	-0.65	MC
RTGN77		6.777	0.657	0.84	7.183	0.563	2.32	MM
TFBUC9		4.853	-1.267	-1.61	6.790	0.170	0.70	MC
UM6BLD		6.705	0.585	0.74	6.773	0.153	0.63	MC
VGX4JE		6.498	0.378	0.48	6.568	-0.052	-0.21	MM
W2DAYZ		4.813	-1.307	-1.66	6.610	-0.010	-0.04	MX
WMEYYA		6.577	0.457	0.58	6.673	0.053	0.22	MM
WW6K68		6.540	0.420	0.53	6.563	-0.057	-0.24	MR
XNNMD7		6.807	0.687	0.87	7.038	0.418	1.72	MC
ZQML24		6.465	0.345	0.44	6.643	0.023	0.09	ME

Summary Statistics		
Grand Means	6.1201 minutes	6.6204 minutes
Stnd Dev Btwn Labs	0.7858 minutes	0.2430 minutes
		Statistics based on 37 of 38 reporting participants

Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #686

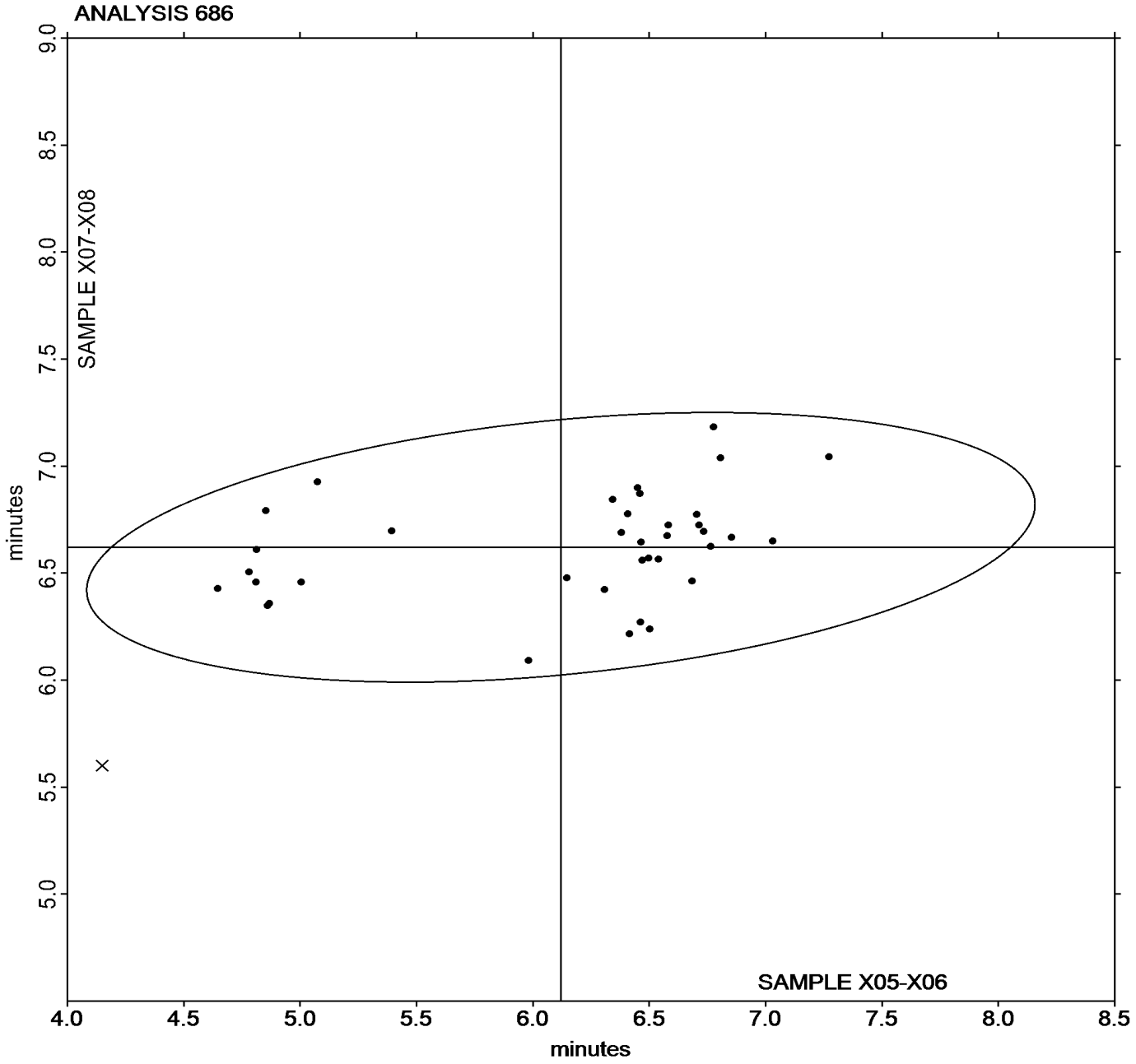
EK64HZ (X) - Data for sample group X07-X08 are low.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	MX	Rebuilt MonTech Alpha
TP	Tech Pro MDR model MDPT	XX	Instrument model not specified by lab

Grand Mean Sample **X05-X06** = 6.1201 minutes

Grand Mean Sample **X07-X08** = 6.6204 minutes



WebCode	Data Flag	Sample X05-X06 Lab Mean	Diff from Grand Mean	CPV	Sample X07-X08 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		8.01	-2.09	-1.85	10.14	-0.56	-1.58	MC
3B4JDC		8.38	-1.72	-1.53	10.56	-0.14	-0.40	MR
3BKXEU		10.82	0.72	0.64	11.04	0.33	0.93	MC
3UTZDY		10.63	0.53	0.47	11.14	0.43	1.21	MC
6HEPZT		7.99	-2.11	-1.87	10.28	-0.42	-1.17	XX
6Q9UTU		8.70	-1.40	-1.24	10.87	0.17	0.47	MC
86K3Q4		10.64	0.54	0.48	10.66	-0.04	-0.11	MC
89HJ4X		10.59	0.49	0.44	10.65	-0.05	-0.15	MC
8XLDAY		10.95	0.85	0.76	10.64	-0.06	-0.17	MC
9PLDBW		10.61	0.51	0.45	10.74	0.04	0.10	MC
9RBPA3		10.61	0.51	0.46	10.09	-0.61	-1.71	ME
AZWE2M		8.83	-1.27	-1.13	10.80	0.09	0.26	MM
BGYBXR	X	9.06	-1.04	-0.92	13.18	2.48	6.93	MC
CBUPTU		10.66	0.56	0.50	10.79	0.09	0.24	MC
EK64HZ	X	7.17	-2.93	-2.60	9.26	-1.45	-4.05	MC
EV7LYV		10.52	0.42	0.37	10.25	-0.46	-1.27	MD
HC4PBW		11.75	1.65	1.46	11.49	0.79	2.21	MX
K448TP		11.08	0.98	0.87	10.88	0.18	0.50	MR
KMDAHH		8.31	-1.79	-1.59	11.16	0.45	1.27	MC
KNNB6G		10.04	-0.06	-0.05	10.43	-0.27	-0.76	MC
MC9ZRB		7.67	-2.43	-2.15	10.09	-0.61	-1.70	MC
MECVBD		10.05	-0.05	-0.04	10.18	-0.53	-1.47	MC
MN2MX7		10.50	0.40	0.35	10.05	-0.66	-1.84	MC
MPCKBM		11.40	1.30	1.15	11.08	0.38	1.07	XX
N7YXPF		10.34	0.24	0.22	10.79	0.08	0.24	MC
NMM9CH		10.51	0.41	0.37	10.44	-0.26	-0.73	TP
NQMLWL		10.42	0.32	0.29	10.75	0.05	0.14	MC
RCU4QL		10.65	0.55	0.49	11.02	0.32	0.90	MC
RK4MTH		10.80	0.70	0.62	10.45	-0.25	-0.71	MC
RTGN77		10.88	0.78	0.69	11.25	0.55	1.54	MM
TFBUC9		8.11	-1.99	-1.76	10.88	0.18	0.50	MP
UM6BLD		10.66	0.56	0.50	10.59	-0.11	-0.31	MC
VGX4JE		10.78	0.68	0.60	10.90	0.20	0.56	MM
W2DAYZ		8.44	-1.66	-1.47	10.81	0.10	0.29	MX
WMEYYA		10.93	0.83	0.74	10.87	0.16	0.46	MM
WW6K68		11.03	0.93	0.83	11.04	0.33	0.94	MR
XNNMD7		10.77	0.67	0.60	10.96	0.25	0.71	MC

WebCode	Data Flag	Sample X05-X06 Lab Mean	Sample X05-X06 Diff from Grand Mean	Sample X05-X06 CPV	Sample X07-X08 Lab Mean	Sample X07-X08 Diff from Grand Mean	Sample X07-X08 CPV	Instr Code
ZQML24		10.50	0.40	0.35	10.55	-0.15	-0.43	ME

Summary Statistics

	X05-X06	X07-X08
Grand Means	10.099 minutes	10.702 minutes
Stnd Dev Btwn Labs	1.126 minutes	0.358 minutes

Statistics based on 36 of 38 reporting participants

Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #687

BGYBXR (X) - Data for sample group X07-X08 are high. Inconsistent within the determinations of both sample groups.

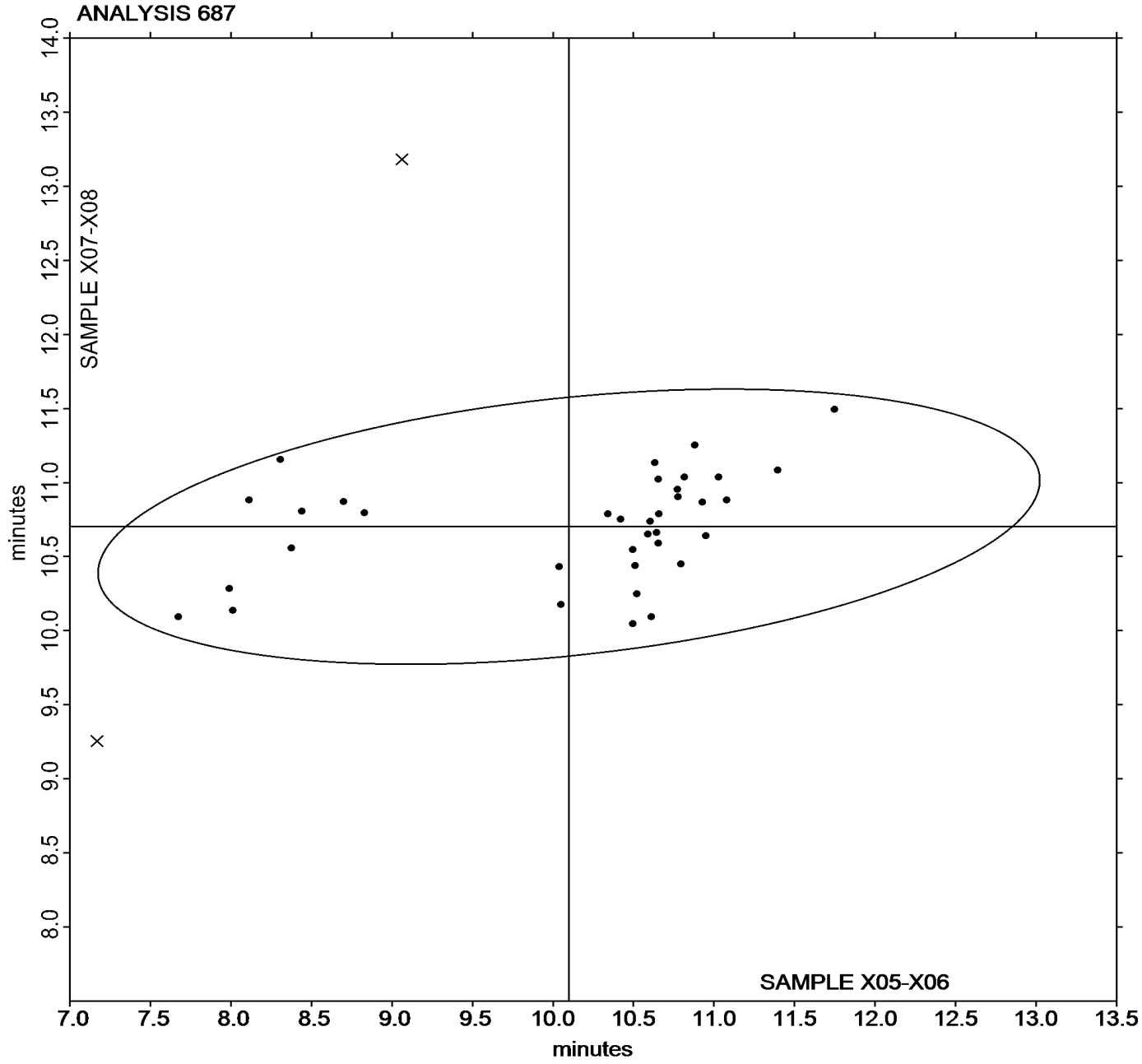
EK64HZ (X) - Data for sample group X07-X08 are low.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	TP	Tech Pro MDR model MDPT
XX	Instrument model not specified by lab		

Grand Mean Sample **X05-X06** = 10.099 minutes

Grand Mean Sample **X07-X08** = 10.702 minutes



MDR Vulcanization: Minimum Torque (lbf.in)

WebCode	Data Flag	Sample X05-X06 Lab Mean	Sample X05-X06 Diff from Grand Mean	Sample X05-X06 CPV	Sample X07-X08 Lab Mean	Sample X07-X08 Diff from Grand Mean	Sample X07-X08 CPV	Instr Code
2CHQYT		2.059	-0.643	-1.56	1.896	-0.285	-0.74	MC
3B4JDC		2.348	-0.354	-0.86	2.038	-0.142	-0.37	MR
3BKXEU		2.598	-0.104	-0.25	1.912	-0.269	-0.70	MC
3UTZDY		2.645	-0.057	-0.14	2.232	0.051	0.13	MC
6HEPZT		2.373	-0.329	-0.80	2.060	-0.121	-0.31	XX
6Q9UTU		3.020	0.318	0.77	2.540	0.359	0.93	MC
86K3Q4		2.595	-0.107	-0.26	1.818	-0.362	-0.94	MC
89HJ4X		3.012	0.309	0.75	2.218	0.038	0.10	MC
8XLDAY		2.629	-0.074	-0.18	2.034	-0.146	-0.38	MC
9PLDBW		2.452	-0.251	-0.61	1.888	-0.292	-0.76	MC
9RBPA3		3.397	0.694	1.68	2.497	0.316	0.82	ME
AZWE2M		2.515	-0.187	-0.45	2.028	-0.152	-0.39	MM
BGYBXR		2.862	0.159	0.39	2.617	0.436	1.13	MC
CBUPTU		2.467	-0.236	-0.57	1.892	-0.289	-0.75	MC
EK64HZ		2.897	0.194	0.47	2.732	0.551	1.42	MC
EV7LYV		3.185	0.483	1.17	2.510	0.329	0.85	MD
HC4PBW		2.384	-0.319	-0.77	1.624	-0.557	-1.44	MX
K448TP		2.872	0.169	0.41	2.088	-0.092	-0.24	MR
KMDAHH		2.288	-0.415	-1.01	1.957	-0.223	-0.58	MC
KNNB6G		2.960	0.258	0.62	2.735	0.554	1.43	MC
MC9ZRB	*	3.708	1.006	2.44	3.428	1.248	3.22	MC
MECVBD		3.235	0.533	1.29	2.752	0.571	1.48	MC
MN2MX7		3.065	0.363	0.88	2.545	0.364	0.94	MC
MPCKBM		2.132	-0.571	-1.38	1.495	-0.686	-1.77	MM
N7YXPF		2.517	-0.186	-0.45	1.955	-0.226	-0.58	MC
NMM9CH		3.230	0.528	1.28	2.363	0.183	0.47	TP
NQMLWL		2.385	-0.317	-0.77	1.822	-0.359	-0.93	MC
RCU4QL		2.537	-0.166	-0.40	2.068	-0.112	-0.29	MC
RK4MTH		3.485	0.783	1.90	2.487	0.306	0.79	MC
RTGN77		2.243	-0.459	-1.11	1.793	-0.387	-1.00	MM
TFBUC9		2.126	-0.577	-1.40	1.941	-0.239	-0.62	MP
UM6BLD		2.952	0.249	0.60	2.058	-0.122	-0.32	MC
VGX4JE		2.967	0.264	0.64	2.543	0.363	0.94	MM
W2DAYZ		2.052	-0.651	-1.58	1.747	-0.434	-1.12	MX
WMEYYA		2.961	0.258	0.63	2.428	0.247	0.64	MM
WW6K68		2.663	-0.039	-0.09	2.015	-0.166	-0.43	MR
XNNMD7		2.384	-0.319	-0.77	1.937	-0.244	-0.63	MC
ZQML24		2.498	-0.204	-0.50	2.172	-0.009	-0.02	ME

Summary Statistics

Grand Means	2.7025 lbf.in	2.1807 lbf.in
Stnd Dev Btwn Labs	0.4123 lbf.in	0.3869 lbf.in

Statistics based on 38 of 38 reporting participants

Summary Statistics in SI Units

Grand Means	3.0534 dN.m	2.4638 dN.m
Stnd Dev Btwn Labs	0.4659 dN.m	0.4372 dN.m

Statistics based on 38 of 38 reporting participants

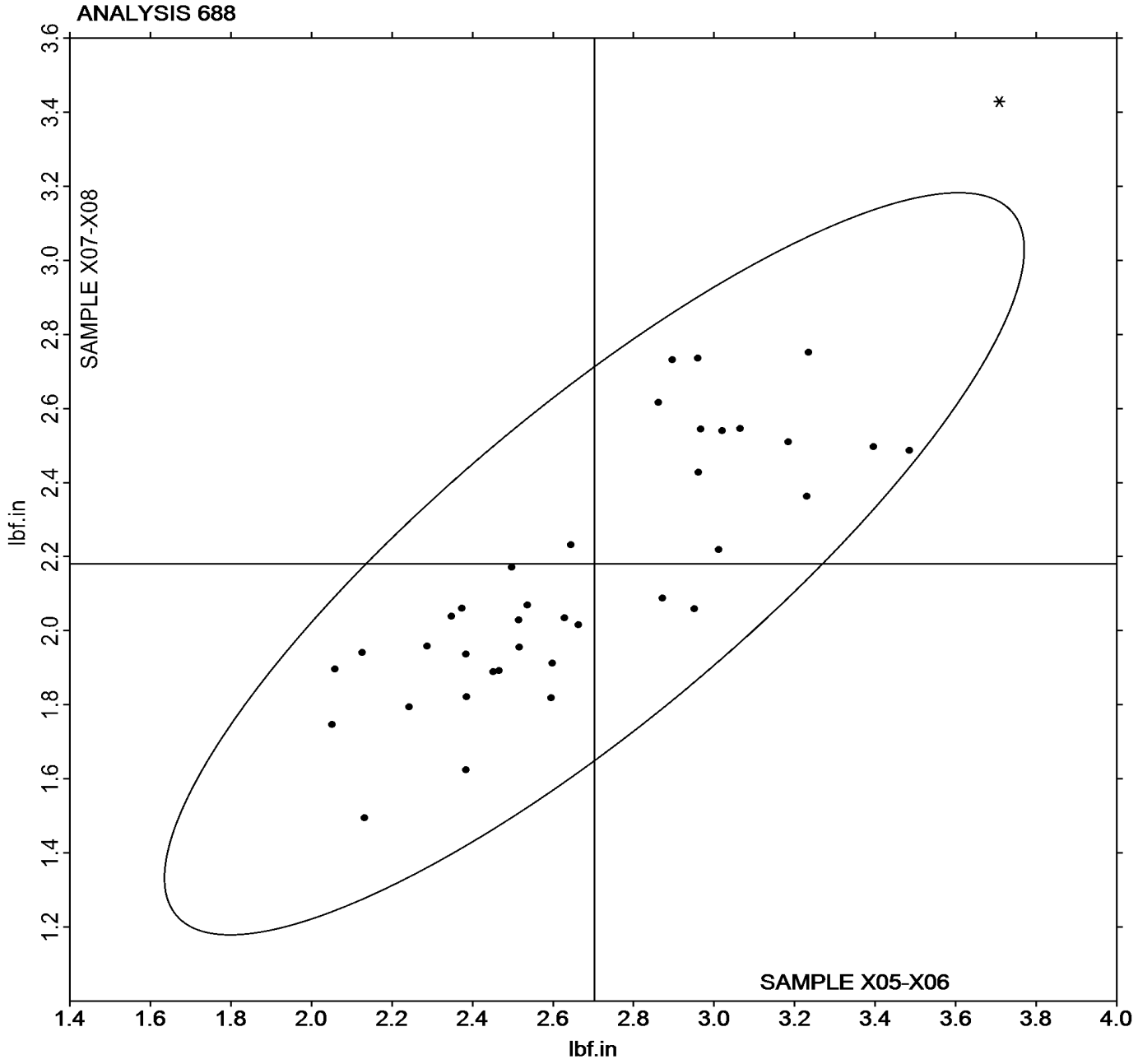
Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MP	Alpha Technologies [Monsanto] MDR 2000P	MR	MonTech D-RPA 3000
MX	Rebuilt MonTech Alpha	TP	Tech Pro MDR model MDPT
XX	Instrument model not specified by lab		

Grand Mean Sample **X05-X06** = 2.7025 lbf.in

Grand Mean Sample **X07-X08** = 2.1807 lbf.in



WebCode	Data Flag	Sample X05-X06 Lab Mean	Diff from Grand Mean	CPV	Sample X07-X08 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		12.63	-0.12	-0.12	12.12	-0.07	-0.08	MC
3B4JDC		11.45	-1.31	-1.31	11.01	-1.18	-1.35	MR
3BKXEU		12.46	-0.30	-0.30	12.05	-0.14	-0.16	MC
3UTZDY		12.76	0.01	0.01	12.64	0.45	0.51	MC
6HEPZT		12.00	-0.76	-0.76	11.43	-0.76	-0.87	XX
6Q9UTU		13.67	0.91	0.91	12.69	0.50	0.57	MC
86K3Q4		12.17	-0.59	-0.59	11.43	-0.76	-0.87	MC
89HJ4X		13.87	1.11	1.11	13.45	1.27	1.44	MC
8XLDAY		13.45	0.69	0.69	12.59	0.40	0.46	MC
9PLDBW		12.39	-0.36	-0.36	12.04	-0.14	-0.16	MC
9RBPA3		13.84	1.08	1.08	12.78	0.59	0.67	ME
AZWE2M		14.06	1.30	1.30	13.21	1.02	1.16	MM
BGYBXR		13.34	0.58	0.58	13.30	1.11	1.26	MC
CBUPTU		12.54	-0.21	-0.21	12.18	-0.01	-0.01	MC
EK64HZ		13.41	0.66	0.66	13.18	0.99	1.12	MC
EV7LYV		13.37	0.61	0.61	12.04	-0.15	-0.17	MD
HC4PBW		11.14	-1.62	-1.62	10.50	-1.68	-1.92	MX
K448TP		13.22	0.46	0.46	12.16	-0.03	-0.03	MR
KMDAHH		12.64	-0.11	-0.11	12.39	0.20	0.23	MC
KNNB6G		12.68	-0.08	-0.08	12.51	0.33	0.37	MC
MC9ZRB		13.34	0.58	0.58	12.89	0.70	0.80	MC
MECVBD		13.13	0.37	0.37	12.55	0.36	0.41	MC
MN2MX7		12.86	0.10	0.10	11.97	-0.21	-0.24	MC
MPCKBM		11.04	-1.71	-1.71	11.24	-0.94	-1.08	MM
N7YXPF	X	12.85	0.09	0.09	1.96	-10.23	-11.66	MC
NMM9CH		11.85	-0.91	-0.91	11.13	-1.05	-1.20	TP
NQMLWL		12.06	-0.70	-0.70	11.75	-0.44	-0.50	MC
RCU4QL		13.19	0.43	0.43	12.42	0.23	0.27	MC
RK4MTH		13.81	1.06	1.05	12.57	0.38	0.44	MC
RTGN77	*	9.69	-3.07	-3.07	9.85	-2.34	-2.66	MM
TFBUC9	X	2.19	-10.57	-10.56	1.44	-10.74	-12.24	MC
UM6BLD		13.59	0.83	0.83	12.71	0.52	0.59	MC
VGX4JE		12.61	-0.15	-0.15	12.03	-0.15	-0.18	MM
W2DAYZ		11.95	-0.81	-0.81	11.07	-1.11	-1.27	MX
WMEYYA		13.71	0.95	0.95	12.58	0.39	0.45	MM
WW6K68	*	14.88	2.12	2.12	14.46	2.27	2.59	MR
XNNMD7		12.24	-0.52	-0.52	11.97	-0.22	-0.25	MC

WebCode	Data Flag	Sample X05-X06 Lab Mean	Sample X05-X06 Diff from Grand Mean	Sample X05-X06 CPV	Sample X07-X08 Lab Mean	Sample X07-X08 Diff from Grand Mean	Sample X07-X08 CPV	Instr Code
ZQML24		12.26	-0.50	-0.50	11.88	-0.31	-0.35	ME

Summary Statistics

	Sample X05-X06	Sample X07-X08
Grand Means	12.758 lbf.in	12.188 lbf.in
Stnd Dev Btwn Labs	1.001 lbf.in	0.877 lbf.in

Statistics based on 36 of 38 reporting participants

Summary Statistics in SI Units

	Sample X05-X06	Sample X07-X08
Grand Means	14.414 dN.m	13.771 dN.m
Stnd Dev Btwn Labs	1.131 dN.m	0.991 dN.m

Statistics based on 36 of 38 reporting participants

Samples X05-X06: EPDM compound, batch #1 & X07-X08: EPDM compound, batch #2

Comments on Assigned Data Flags for Test #689

N7YXPF (X) - Extreme Data for sample group X07-X08.

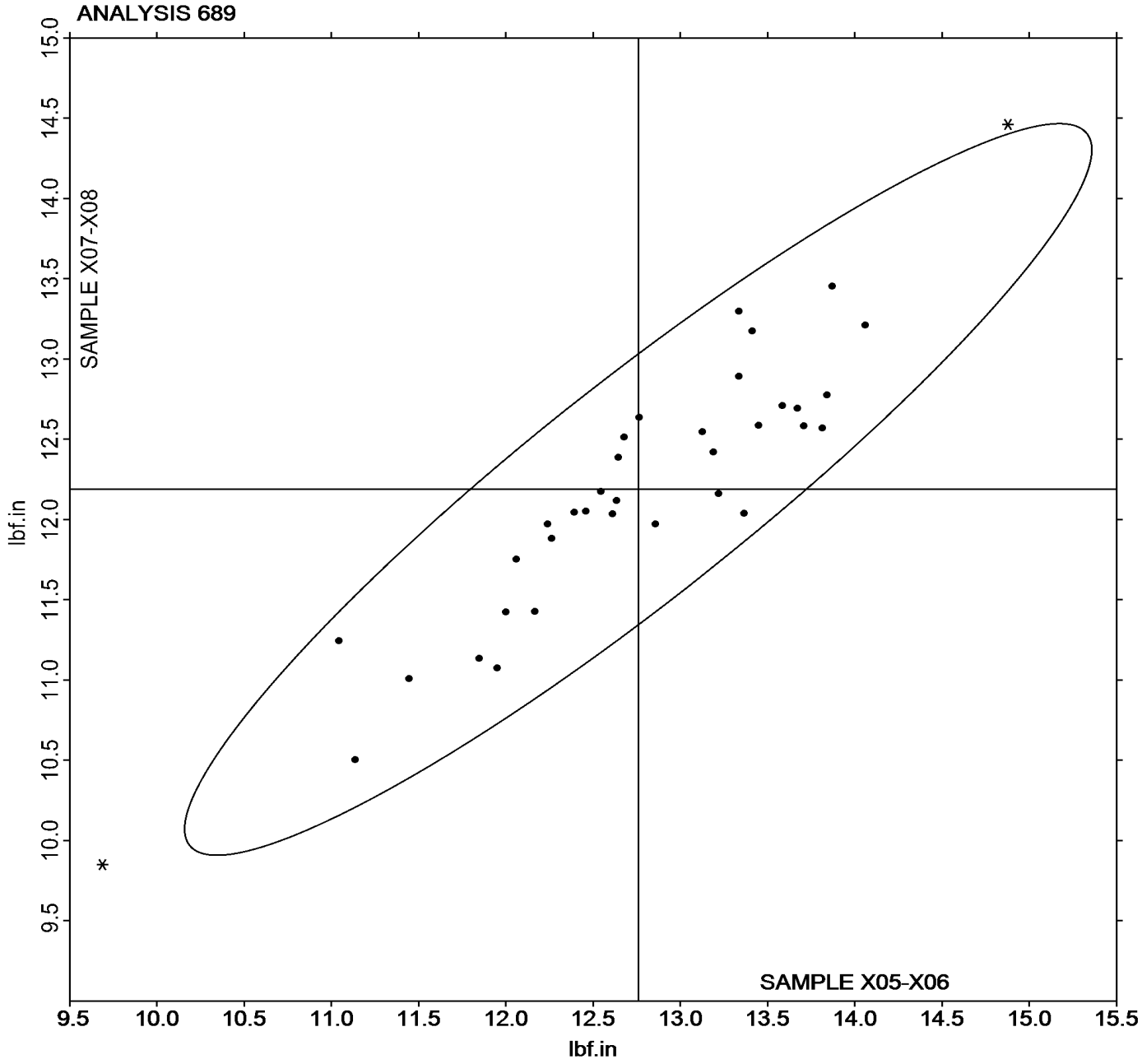
TFBUC9 (X) - Extreme Data.

Key to Instrument Codes Reported by Participants

MC	Alpha Technologies [Monsanto] MDR 2000 or 2000E	MD	Alpha Tech. Rubber Process Analyzer (RPA 2000)
ME	Alpha Tech. MDR Premiere	MM	MonTech MDR 3000
MR	MonTech D-RPA 3000	MX	Rebuilt MonTech Alpha
TP	Tech Pro MDR model MDPT	XX	Instrument model not specified by lab

Grand Mean Sample **X05-X06** = 12.758 lbf.in

Grand Mean Sample **X07-X08** = 12.188 lbf.in



WebCode	Data Flag	Sample F01-F02 Lab Mean	Diff from Grand Mean	CPV	Sample F03-F04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		493.1	-17.3	-0.39	446.8	-5.4	-0.17	RP
8XLDAY		494.4	-16.0	-0.36	448.8	-3.4	-0.11	RP
HC4PBW		436.3	-74.1	-1.66	391.7	-60.6	-1.85	RP
JABEUM		553.1	42.7	0.96	479.3	27.1	0.83	RP
UM6BLD		544.5	34.1	0.76	470.5	18.3	0.56	PR
VEARKA		541.0	30.6	0.68	476.2	24.0	0.73	XX

Summary Statistics

	Sample F01-F02	Sample F03-F04
Grand Means	510.43 kPa	452.21 kPa
Stnd Dev Btwn Labs	44.64 kPa	32.72 kPa

Statistics based on 6 of 6 reporting participants

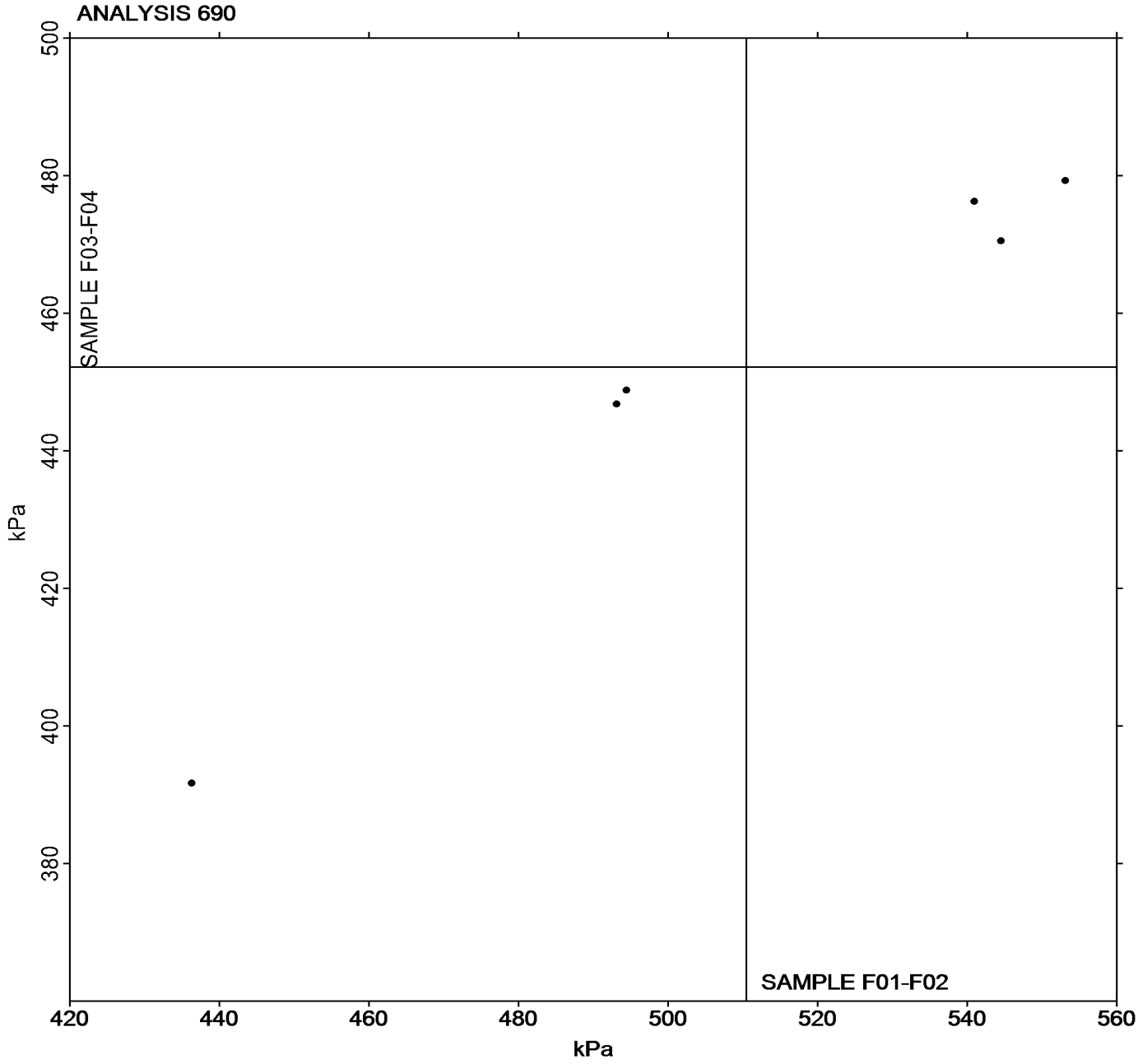
Samples F01-F02: EPDM compound, batch #1 & F03-F04: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F01-F02** = 510.43 kPa

Grand Mean Sample **F03-F04** = 452.21 kPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

RPA Rheological Properties: Part A - G" at 20Hz (kPa)

WebCode	Data Flag	Sample F01-F02 Lab Mean	Sample F01-F02 Diff from Grand Mean	Sample F01-F02 CPV	Sample F03-F04 Lab Mean	Sample F03-F04 Diff from Grand Mean	Sample F03-F04 CPV	Instr Code
2CHQYT		197.8	-4.7	-0.26	191.9	0.3	0.02	RP
8XLDAY		196.3	-6.2	-0.34	189.8	-1.8	-0.12	RP
HC4PBW		172.2	-30.3	-1.65	165.4	-26.2	-1.81	RP
JABEUM		223.2	20.6	1.13	207.3	15.7	1.09	RP
UM6BLD		218.2	15.7	0.86	202.1	10.5	0.73	PR
VEARKA		207.4	4.9	0.27	193.0	1.4	0.10	XX

Summary Statistics

	Sample F01-F02	Sample F03-F04
Grand Means	202.51 kPa	191.57 kPa
Stnd Dev Btwn Labs	18.30 kPa	14.48 kPa

Statistics based on 6 of 6 reporting participants

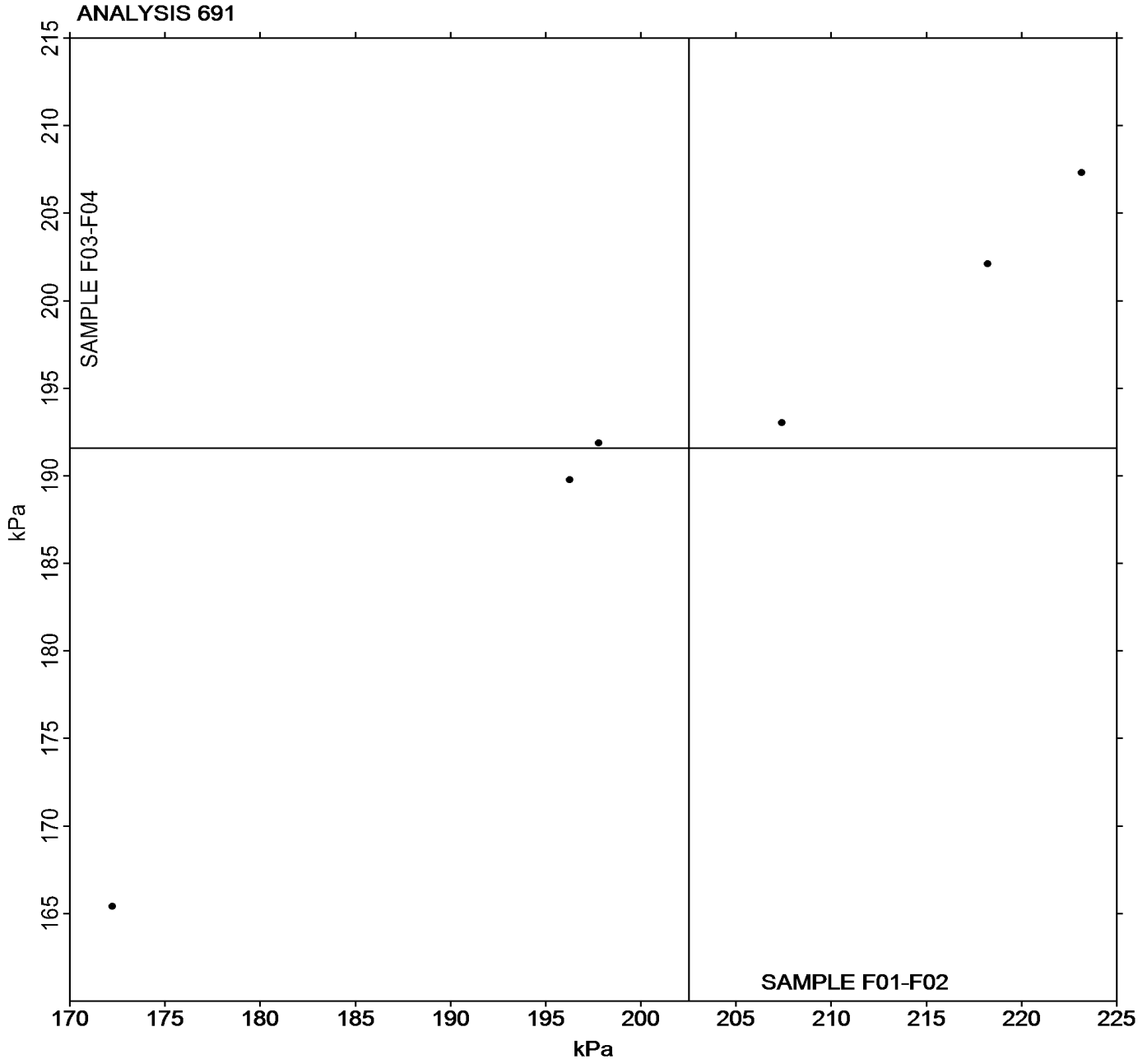
Samples F01-F02: EPDM compound, batch #1 & F03-F04: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F01-F02** = 202.51 kPa

Grand Mean Sample **F03-F04** = 191.57 kPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

WebCode	Data Flag	Sample F01-F02 Lab Mean	Diff from Grand Mean	CPV	Sample F03-F04 Lab Mean	Diff from Grand Mean	CPV	Instr Code
2CHQYT		78.22	-4.94	-0.72	67.37	-0.65	-0.23	RP
8XLDAY		79.27	-3.88	-0.56	66.52	-1.49	-0.54	RP
HC4PBW		77.56	-5.59	-0.81	66.11	-1.90	-0.68	RP
JABEUM		93.21	10.06	1.46	73.40	5.39	1.93	RP
UM6BLD		90.59	7.44	1.08	68.49	0.48	0.17	PR
VEARKA		80.07	-3.09	-0.45	66.18	-1.83	-0.66	XX

Summary Statistics

	Sample F01-F02	Sample F03-F04
Grand Means	83.153 kPa	68.010 kPa
Stnd Dev Btwn Labs	6.881 kPa	2.788 kPa

Statistics based on 6 of 6 reporting participants

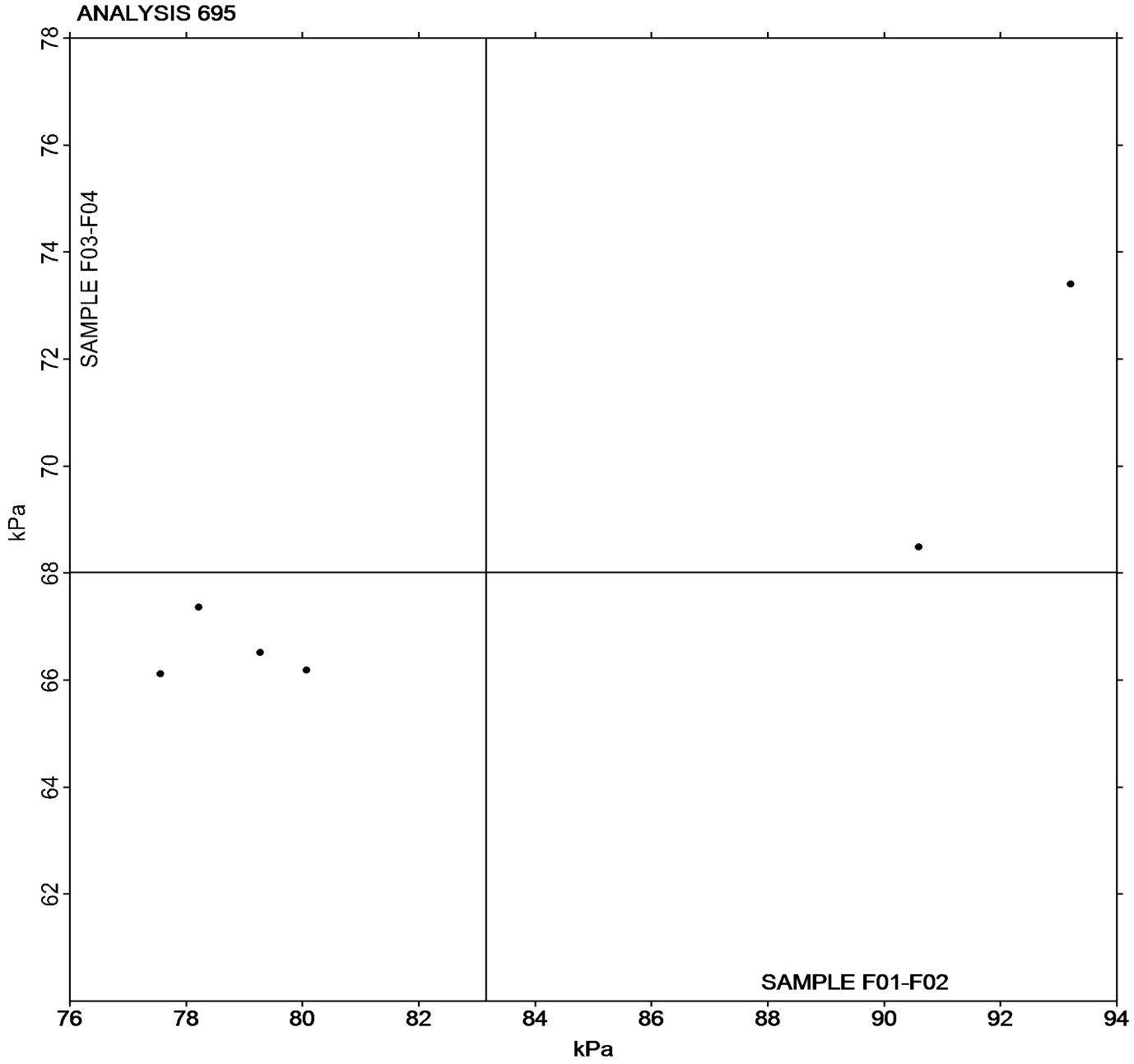
Samples F01-F02: EPDM compound, batch #1 & F03-F04: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F01-F02** = 83.153 kPa

Grand Mean Sample **F03-F04** = 68.010 kPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

RPA Rheological Properties: Part B - G" at 1.0Hz (kPa)

WebCode	Data Flag	Sample F01-F02 Lab Mean	Sample F01-F02 Diff from Grand Mean	Sample F01-F02 CPV	Sample F03-F04 Lab Mean	Sample F03-F04 Diff from Grand Mean	Sample F03-F04 CPV	Instr Code
2CHQYT		67.78	-0.94	-0.15	63.78	0.51	0.10	RP
8XLDAY		67.63	-1.09	-0.18	63.71	0.44	0.09	RP
HC4PBW		57.38	-11.34	-1.83	53.51	-9.76	-1.93	RP
JABEUM		72.09	3.37	0.54	65.28	2.01	0.40	XX
UM6BLD		73.25	4.54	0.73	65.03	1.75	0.35	PR
VEARKA		74.17	5.45	0.88	68.33	5.06	1.00	XX

Summary Statistics

	Sample F01-F02	Sample F03-F04
Grand Means	68.714 kPa	63.273 kPa
Stnd Dev Btwn Labs	6.202 kPa	5.069 kPa

Statistics based on 6 of 6 reporting participants

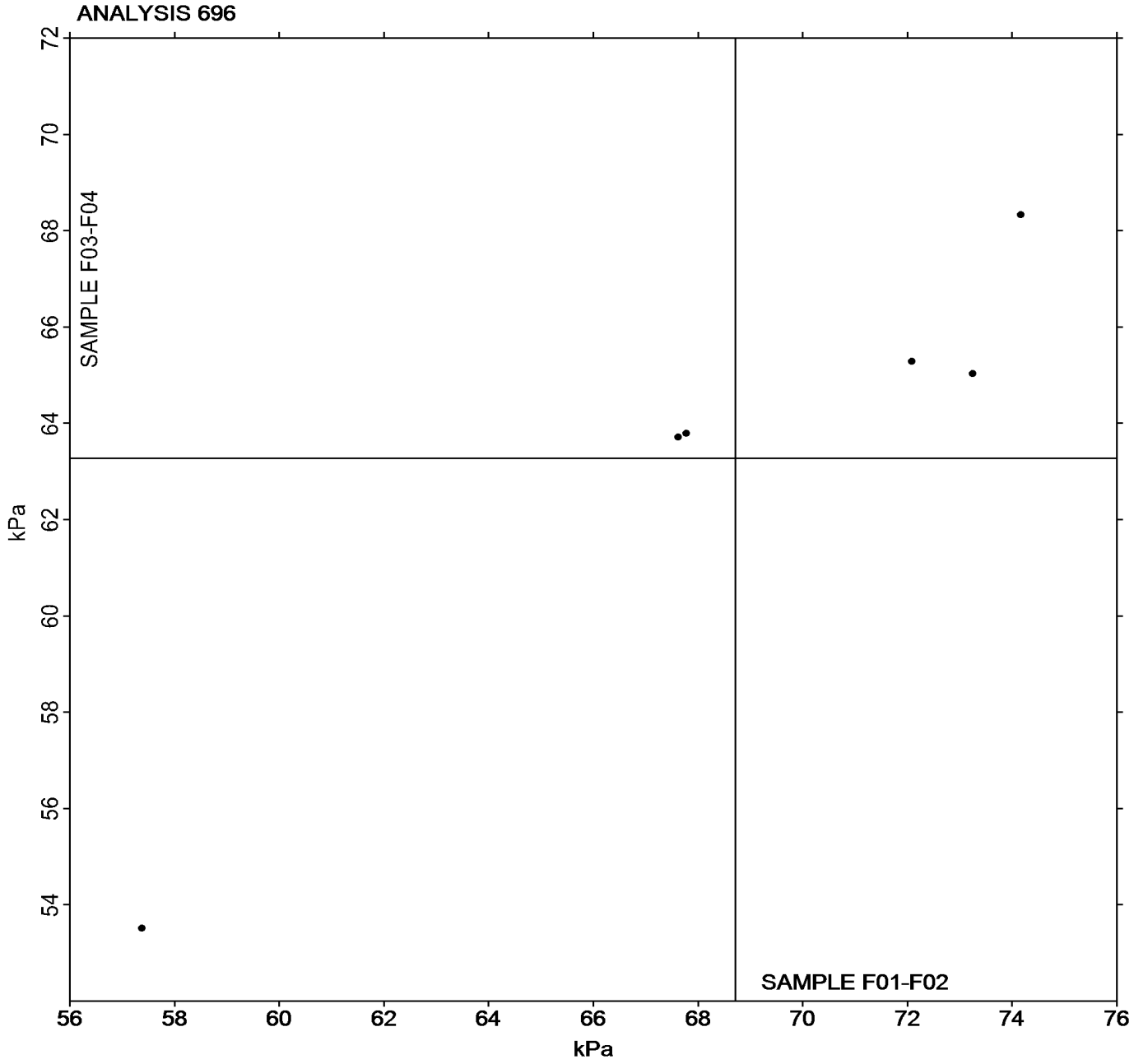
Samples F01-F02: EPDM compound, batch #1 & F03-F04: EPDM compound, batch #2

Key to Instrument Codes Reported by Participants

PR	PRPA 2000	RP	RPA 2000
XX	Instrument model not specified by lab		

Grand Mean Sample **F01-F02** = 68.714 kPa

Grand Mean Sample **F03-F04** = 63.273 kPa



If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

-End of Report-