



## Wine Industry Interlaboratory Program

### Summary Report #034- Spring 2010

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<b>Analysis</b>	<b>Analysis Name</b>
901	<a href="#"><u>Ethanol (% of volume)</u></a>
902	<a href="#"><u>Total Sulfur Dioxide</u></a>
903	<a href="#"><u>Free Sulfur Dioxide</u></a>
904	<a href="#"><u>Titrateable Acidity</u></a>
905	<a href="#"><u>Volatile Acidity</u></a>
906	<a href="#"><u>Specific Gravity</u></a>
907	<a href="#"><u>pH</u></a>
908	<a href="#"><u>Residual Sugar</u></a>
909	<a href="#"><u>L-Malic Acid</u></a>
910	<a href="#"><u>Glucose + Fructose</u></a>
915	<a href="#"><u>A420nm (1cm path)</u></a>
916	<a href="#"><u>A520nm (1cm path)</u></a>
950	<a href="#"><u>Research Property: Copper (Cu) Content</u></a>
951	<a href="#"><u>Research Property: Sorbate</u></a>
952	<a href="#"><u>Research Property: Methanol</u></a>

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## **About the Wine Industry Interlaboratory Program**

This interlaboratory survey was administered by Collaborative Testing Services, Inc. (CTS) through an agreement with The American Society for Enology and Viticulture (ASEV) with technical assistance provided by the Laboratory Proficiency Testing Guidance Committee (LPTGC) of the Technical Projects Committee (TPC). The purpose of the survey was to evaluate laboratory performance and assess the performance of the industry with respect to quality assurance testing conducted on commercially produced wine through an on-going interlaboratory testing program. Two bottles of differing wines were supplied to participant laboratories. The samples for each type of wine were chosen consecutively from a single production run, to minimize variation between bottles. Participating laboratories were asked to analyze the samples' ten properties in accordance with their normal laboratory procedures and return the results and methodology information to CTS.

### **About CTS**

Founded in 1971, Collaborative Testing Services, Inc. (CTS) is a privately - owned company that specializes in interlaboratory tests for a variety of sectors: including rubber, plastics, fasteners and metals, containerboard, paper, wine and color, as well as proficiency tests for forensic laboratories. All of the tests are designed to assist organizations in achieving and maintaining quality assurance objectives. Labs from the U.S., as well as more than 55 countries, currently participate in the CTS programs.

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## Key for Web Summary Report (Page 1 of 2)

<b>WebCode</b>	Assigned laboratory identification number (temporary) used to ensure lab confidentiality while permitting a lab to locate its data in the Wine Web Summary Report published on the CTS web site. The WebCode for each analysis can be found in the Performance Analysis Report mailed to each participant.
<b>Lab Mean</b>	The average of the test results obtained by the participant.
<b>Grand Mean</b>	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.
<b>Difference from Grand Mean</b>	The difference of the LAB MEAN from the GRAND MEAN.
<b>Between-Lab Standard Deviation</b>	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).
<b>Comparative Performance Value</b>	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.
<b>Data Flag</b>	DATA FLAGS are assigned based on the simultaneous analysis of both samples tested. Refer to the following chart for an explanation of each symbol:

<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	<b>CAUTION</b> - 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	<b>STOP</b> - 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	<b>PROCEED</b> - lab was unable to report data for one sample.

**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.

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### 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 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.

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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.

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 901

## Ethanol (% of volume)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2U6FNN		8.030	0.069	0.62	7.985	0.044	0.38
3M78NF		7.885	-0.076	-0.68	7.880	-0.061	-0.53
4F4DLY		7.890	-0.071	-0.63	7.860	-0.081	-0.71
4FB6EL	*	7.960	-0.001	0.00	7.890	-0.051	-0.44
4LNMKV		7.900	-0.061	-0.54	7.900	-0.041	-0.36
4TVGWX		8.010	0.049	0.44	7.970	0.029	0.25
7E6ZYG		8.105	0.144	1.29	8.085	0.144	1.26
7T6V8G		7.985	0.024	0.22	7.950	0.009	0.08
832EQW	X	8.350	0.389	3.48	8.200	0.259	2.26
8BMNVR		7.800	-0.161	-1.43	7.800	-0.141	-1.23
8CVDQJ	X	7.400	-0.561	-5.01	7.400	-0.541	-4.72
8FEJ9C	X	7.850	-0.111	-0.99	8.075	0.134	1.17
8WG6RZ		7.945	-0.016	-0.14	7.945	0.004	0.04
9PCUZI		7.975	0.014	0.13	7.940	-0.001	-0.01
9Q6L27		7.835	-0.126	-1.12	7.795	-0.146	-1.27
9ZP33R	X	7.900	-0.061	-0.54	8.150	0.209	1.82
BNU4T7		7.910	-0.051	-0.45	7.895	-0.046	-0.40
BU76FF	X	7.700	-0.261	-2.33	7.800	-0.141	-1.23
CNLZJ8	*	8.300	0.339	3.03	8.300	0.359	3.13
CX8XDT		7.980	0.019	0.17	7.945	0.004	0.04
DPHMZ3		7.910	-0.051	-0.45	7.895	-0.046	-0.40
EQBULT	X	8.000	0.039	0.35	7.900	-0.041	-0.36
ETCCQT		7.960	-0.001	0.00	7.935	-0.006	-0.05
EXDYGG		7.955	-0.006	-0.05	7.920	-0.021	-0.18
F6LKUW		7.995	0.034	0.31	7.990	0.049	0.43
FBUEVZ		7.925	-0.036	-0.32	7.910	-0.031	-0.27
FUCLMJ		7.920	-0.041	-0.36	7.890	-0.051	-0.44
G2LPQN		8.120	0.159	1.43	8.095	0.154	1.34
G3FRLW		7.930	-0.031	-0.27	7.920	-0.021	-0.18
GLBXZC	*	8.060	0.099	0.89	7.995	0.054	0.47
H8LRBA		7.790	-0.171	-1.52	7.750	-0.191	-1.66
H8WRZP		7.945	-0.016	-0.14	7.920	-0.021	-0.18
HAC3CL		7.960	-0.001	0.00	7.980	0.039	0.34
HFHKQG		7.745	-0.216	-1.93	7.700	-0.241	-2.10
J4J77A		7.990	0.029	0.26	7.960	0.019	0.17

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 901

## Ethanol (% of volume)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
JW47LC		7.920	-0.041	-0.36	7.920	-0.021	-0.18
K2LYXA		8.095	0.134	1.20	8.085	0.144	1.26
K4LTDL		8.010	0.049	0.44	8.015	0.074	0.65
K4RGV6	X	7.900	-0.061	-0.54	7.700	-0.241	-2.10
KKJAPJ	X	7.890	-0.071	-0.63	7.780	-0.161	-1.40
LX8GVK		7.935	-0.026	-0.23	7.895	-0.046	-0.40
MXZBR9		8.095	0.134	1.20	8.075	0.134	1.17
MZVCTD		7.990	0.029	0.26	7.950	0.009	0.08
NKEV3M		7.885	-0.076	-0.68	7.870	-0.071	-0.62
NKNDX8		8.010	0.049	0.44	7.990	0.049	0.43
NPHK93		7.930	-0.031	-0.27	7.910	-0.031	-0.27
PCFN4D		8.020	0.059	0.53	8.000	0.059	0.51
PDP7XX		7.800	-0.161	-1.43	7.800	-0.141	-1.23
PQRQG9		8.000	0.039	0.35	7.995	0.054	0.47
PULR4W		8.035	0.074	0.67	8.035	0.094	0.82
Q8HVJB		7.845	-0.116	-1.03	7.847	-0.094	-0.82
QC9WDG		8.005	0.044	0.40	7.985	0.044	0.38
QN2JJC		7.920	-0.041	-0.36	7.890	-0.051	-0.44
QVEZPL		8.050	0.089	0.80	8.030	0.089	0.78
T636Y4		7.940	-0.021	-0.18	7.930	-0.011	-0.10
T7E2QW		7.900	-0.061	-0.54	7.885	-0.056	-0.49
UCKJUL	*	8.295	0.334	2.99	8.290	0.349	3.04
VF9NL4		7.910	-0.051	-0.45	7.895	-0.046	-0.40
VHT4RJ	X	8.045	0.084	0.76	7.950	0.009	0.08
VUDG9E	X	7.860	-0.101	-0.90	7.965	0.024	0.21
VZKLVR		8.120	0.159	1.43	8.110	0.169	1.47
W9963R	*	7.700	-0.261	-2.33	7.700	-0.241	-2.10
WXN3BK		7.930	-0.031	-0.27	7.920	-0.021	-0.18
XTJYHB		7.940	-0.021	-0.18	7.905	-0.036	-0.31
XTPQ88		7.841	-0.120	-1.07	7.830	-0.111	-0.97
YLQJ8Y		8.100	0.139	1.25	8.100	0.159	1.39
YYMXTZ	X	8.235	0.274	2.45	8.265	0.324	2.82
ZADWHX		7.770	-0.191	-1.70	7.730	-0.211	-1.84
ZQXWHM		8.040	0.079	0.71	8.035	0.094	0.82
ZTJMJR	X	7.200	-0.761	-6.80	7.200	-0.741	-6.46

**ASEV-CTS Wine Industry Interlaboratory Testing Program**

**Analysis 901**

**Ethanol (% of volume)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
ZXCNDW		7.925	-0.036	-0.32	7.895	-0.046	-0.40

Grand Means	Summary Statistics
7.9605 percent	7.9410 percent
<b>Stnd Dev Btwn Labs</b> 0.1119 percent	0.1147 percent
<b>Statistics based on 59 of 71 reporting participants</b>	

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Comments on assigned Data Flags**

- 832EQW (X) - Inconsistent in testing between samples, data for Sample SA65 are high.
- 8CVDQJ (X) - Data for both samples are low. Also incosistent in testing within both samples.
- 8FEJ9C (X) - Inconsistent in testing between samples.
- 9ZP33R (X) - Inconsistent in testing between samples and inconsistent within the determinations for both samples.
- BU76FF (X) - Inconsistent in testing between samples.
- EQBULT (X) - Inconsistent in testing between samples.
- K4RGV6 (X) - Inconsistent in testing between samples.
- KKJAPJ (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA66.
- VHT4RJ (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA66.
- VUDG9E (X) - Inconsistent in testing between samples.
- YYMXTZ (X) - Inconsistent in testing between samples, data for Sample SA66 are high.
- ZTJMJR (X) - Data for both samples are low.

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 901

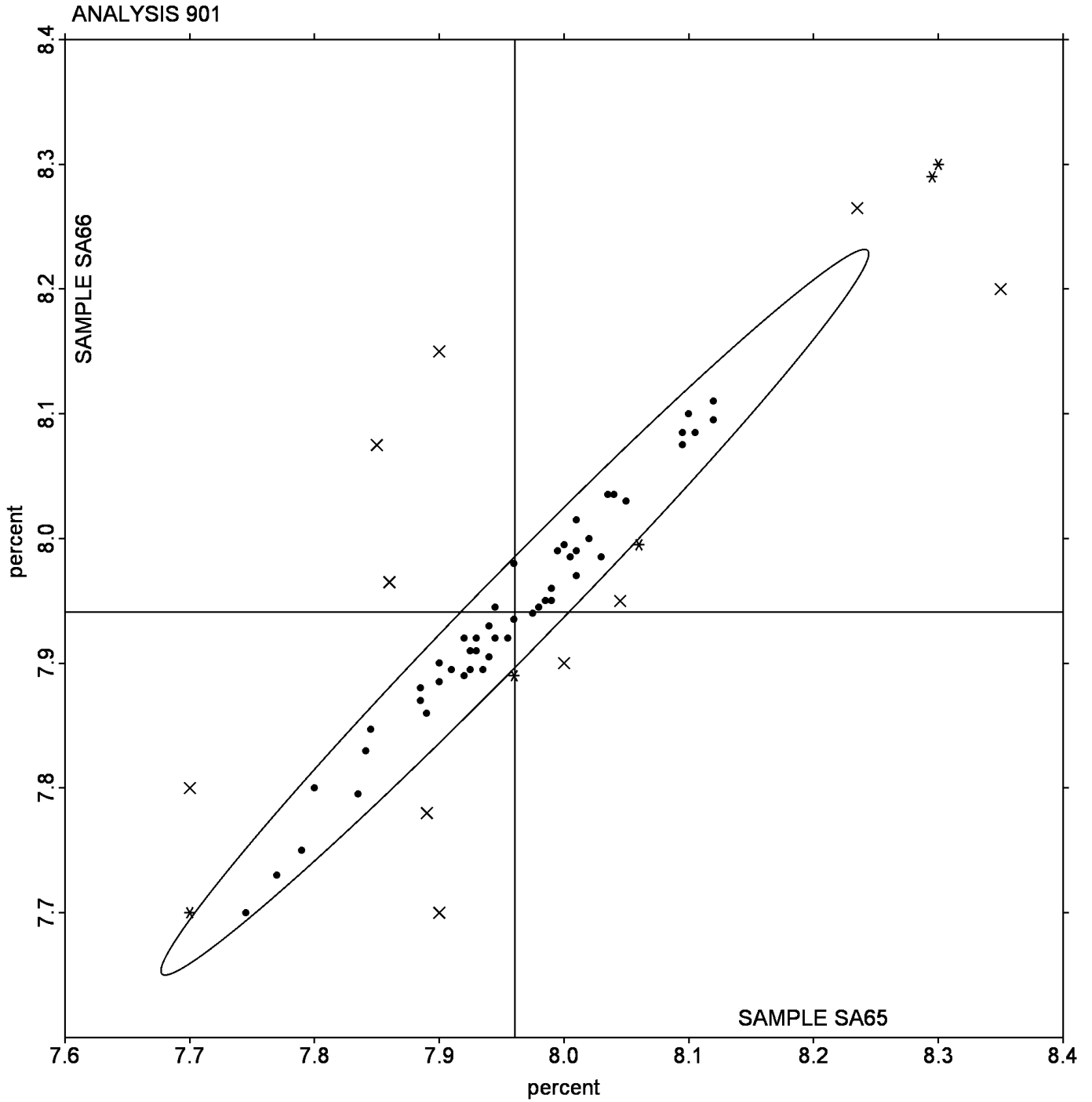
## Ethanol (% of volume)

## Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Ebulliometer Method	8.100	0.000	0.139	8.100	0.000	0.159	1	8
Gas Chromatography Method	7.958	0.099	-0.003	7.931	0.110	-0.010	5	7
Near Infrared Method	7.949	0.057	-0.011	7.929	0.056	-0.012	28	28
Dist. / Density Method	7.897	0.117	-0.064	7.880	0.121	-0.061	10	13
FTIR	7.990	0.111	0.029	7.978	0.113	0.037	9	13
Other _____	8.010	0.000	0.049	7.970	0.000	0.029	1	2

Analysis 901

Ethanol (% of volume)



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 902

## Total Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
238XLK		141.5	7.4	0.99	128.0	4.8	0.59
2FXCLT		135.0	0.9	0.12	122.5	-0.7	-0.08
2QC9QW	*	134.0	-0.1	-0.02	133.5	10.3	1.26
2QWAAV		119.5	-14.6	-1.96	110.0	-13.2	-1.61
2VPJQ2	X	116.5	-17.6	-2.36	116.5	-6.7	-0.82
2Y9NAW		134.0	-0.1	-0.02	123.5	0.3	0.04
342789		127.5	-6.6	-0.89	114.5	-8.7	-1.06
3MQ38U		131.0	-3.1	-0.42	116.0	-7.2	-0.88
3U8WQX	X	125.5	-8.6	-1.15	140.5	17.3	2.12
4Q8ZLP		143.0	8.9	1.19	133.0	9.8	1.20
4U77PE		133.0	-1.1	-0.15	120.5	-2.7	-0.33
4VFWDX	X	115.0	-19.1	-2.56	123.0	-0.2	-0.02
64B9UC		129.0	-5.1	-0.69	115.5	-7.7	-0.94
6KCAHK		127.5	-6.6	-0.89	114.0	-9.2	-1.12
6NBG3H		140.0	5.9	0.78	130.0	6.8	0.83
7B7N3G		121.0	-13.1	-1.76	106.5	-16.7	-2.04
7NNLPK	*	151.5	17.4	2.32	146.0	22.8	2.79
7PBCJX		120.0	-14.1	-1.89	106.5	-16.7	-2.04
7ZDMYZ		135.5	1.4	0.18	125.5	2.3	0.28
8FFWVR		131.5	-2.6	-0.35	121.0	-2.2	-0.27
8GNEPC		142.5	8.4	1.12	137.0	13.8	1.69
8HC6KP		143.5	9.4	1.25	130.5	7.3	0.89
8UTEEF		139.5	5.4	0.72	132.0	8.8	1.08
93GF6P		131.5	-2.6	-0.35	121.5	-1.7	-0.21
A4RVZ3	X	21.6	-112.5	-15.04	24.3	-98.9	-12.09
ABCVEU		119.0	-15.1	-2.02	104.5	-18.7	-2.28
B7XJ7J		134.5	0.4	0.05	124.5	1.3	0.16
B84Z8V		134.5	0.4	0.05	125.5	2.3	0.28
B8RQCW		141.5	7.4	0.99	128.0	4.8	0.59
BDCZBT		133.2	-0.9	-0.12	121.7	-1.4	-0.18
C4Q2PF		134.5	0.4	0.05	129.0	5.8	0.71
CNKYMM		133.0	-1.1	-0.15	120.5	-2.7	-0.33
DLJ7TZ		127.5	-6.6	-0.89	119.5	-3.7	-0.45
EE3HLY		132.5	-1.6	-0.22	125.0	1.8	0.22
FHTY4N	*	137.0	2.8	0.38	115.6	-7.6	-0.93

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 902

## Total Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FRHD32		134.0	-0.1	-0.02	123.0	-0.2	-0.02
FTX6HJ		139.5	5.4	0.72	126.5	3.3	0.41
FWWJR2		123.0	-11.1	-1.49	117.5	-5.7	-0.69
FYCNUY		123.6	-10.5	-1.41	109.6	-13.6	-1.66
G449JZ		132.5	-1.6	-0.22	119.5	-3.7	-0.45
GNLLRP		139.0	4.9	0.65	129.0	5.8	0.71
GQDGUP		126.5	-7.6	-1.02	117.5	-5.7	-0.69
GWPRDQ		144.5	10.4	1.39	132.5	9.3	1.14
JMWHJD		145.0	10.9	1.45	136.5	13.3	1.63
JQP4BV		124.5	-9.6	-1.29	116.5	-6.7	-0.82
K2V6M7	X	132.0	-2.1	-0.28	163.0	39.8	4.87
KG47AH		129.0	-5.1	-0.69	117.5	-5.7	-0.69
LEN7BZ		146.5	12.4	1.65	133.5	10.3	1.26
LGWDV7		137.0	2.9	0.38	124.0	0.8	0.10
M3HDWT		136.0	1.9	0.25	129.5	6.3	0.77
MP7NK4	X	125.0	-9.1	-1.22	76.0	-47.2	-5.77
N39ZL4	X	115.6	-18.5	-2.48	118.2	-5.0	-0.61
NGP338		131.0	-3.1	-0.42	122.0	-1.2	-0.14
P72MHB	X	122.0	-12.1	-1.62	133.5	10.3	1.26
PWWFWA		125.5	-8.6	-1.15	116.0	-7.2	-0.88
PYK7RM		144.0	9.9	1.32	132.5	9.3	1.14
Q46LHD		135.0	0.9	0.12	120.5	-2.7	-0.33
RRWGJ3	X	90.5	-43.6	-5.83	113.5	-9.7	-1.18
T4ZT9V		126.0	-8.1	-1.09	115.0	-8.2	-1.00
TMZTJU	X	160.5	26.4	3.53	134.0	10.8	1.32
TUNT6U		146.0	11.9	1.59	130.5	7.3	0.89
UQJPKB		132.0	-2.1	-0.28	124.0	0.8	0.10
UXJMAF		143.5	9.4	1.25	130.5	7.3	0.89
W27FGU	*	125.5	-8.6	-1.15	125.0	1.8	0.22
X3Y9QN		143.0	8.9	1.19	132.0	8.8	1.08
XCM929		138.5	4.4	0.58	129.0	5.8	0.71
Y8DJLR		139.0	4.9	0.65	125.0	1.8	0.22
YCFGMX		129.5	-4.6	-0.62	119.5	-3.7	-0.45
YDWJJW		132.0	-2.1	-0.28	119.5	-3.7	-0.45
YJ9WWA	*	138.0	3.9	0.52	116.0	-7.2	-0.88

## Analysis 902

## Total Sulfur Dioxide

Grand Means	Summary Statistics
134.13 mg/L	123.18 mg/L
Std Dev Btwn Labs	
7.48 mg/L	8.18 mg/L
<b>Statistics based on 60 of 70 reporting participants</b>	

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Comments on assigned Data Flags**

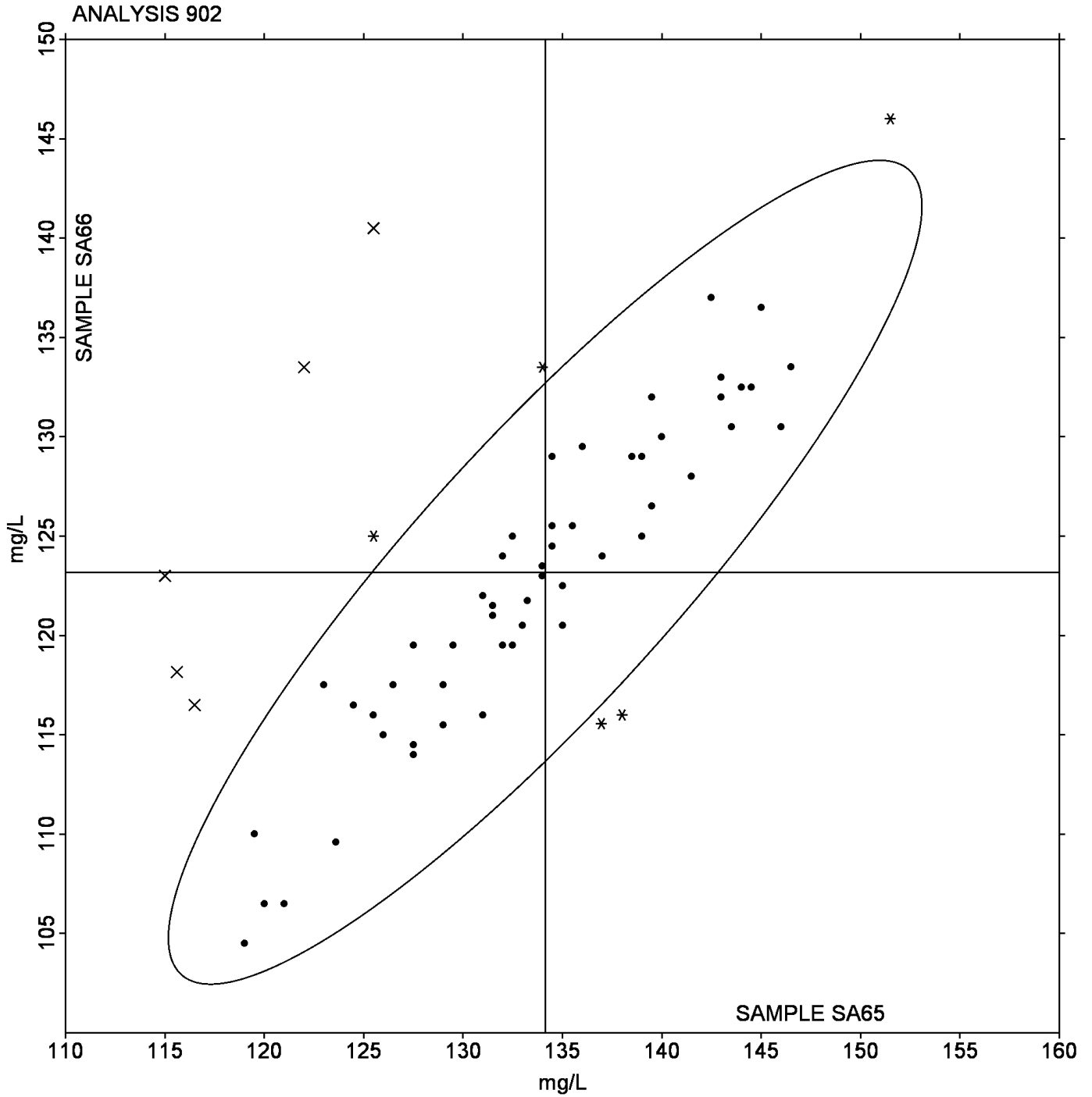
- 2VPJQ2 (X) - Inconsistent in testing between samples.
- 3U8WQX (X) - Inconsistent in testing between samples.
- 4VFWDX (X) - Inconsistent in testing between samples.
- A4RVZ3 (X) - Data for both samples are low.
- K2V6M7 (X) - Inconsistent in testing between samples, data for Sample SA66 are high.
- MP7NK4 (X) - Inconsistent in testing between samples, data for Sample SA66 are low.
- N39ZL4 (X) - Inconsistent in testing between samples and inconsistent within the determinations for both samples.
- P72MHB (X) - Inconsistent in testing between samples.
- RRWGJ3 (X) - Inconsistent in testing between samples, data for Sample SA65 are low.
- TMZTJU (X) - Inconsistent in testing between samples, data for Sample SA65 are high.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Please specify method used	125.0	5.7	-9.1	111.0	6.4	-12.2	2	4
Ripper Method	132.6	6.8	-1.6	122.6	7.5	-0.6	23	31
Aeration Oxidation (AO) Method	130.4	6.2	-3.7	118.4	6.9	-4.8	12	17
Segmented Flow Analyzer	138.6	4.4	4.5	126.8	4.0	3.6	7	7
Colormetric Analyzer	138.8	8.0	4.7	127.9	7.7	4.7	7	7
Flow Injection Analysis	139.1	7.2	5.0	127.4	5.2	4.2	4	4

Analysis 902

Total Sulfur Dioxide



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 903

## Free Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2LXVL7		22.00	4.34	1.02	17.00	2.32	0.59
2RQ8V2		14.00	-3.66	-0.86	12.00	-2.68	-0.68
4DUQCY		20.00	2.34	0.55	15.10	0.42	0.11
4GKKTZ		27.82	10.16	2.40	23.29	8.61	2.19
4KMLVH		13.50	-4.16	-0.98	13.00	-1.68	-0.43
7BUCUY		18.50	0.84	0.20	18.00	3.32	0.85
7CXUDG		23.50	5.84	1.38	18.50	3.82	0.97
7X2XCP		18.50	0.84	0.20	17.00	2.32	0.59
82JEH2		12.95	-4.71	-1.11	11.75	-2.93	-0.75
8URX9P		14.00	-3.66	-0.86	10.50	-4.18	-1.07
976UAR		12.00	-5.66	-1.33	10.00	-4.68	-1.19
9UK8JR	X	9.00	-8.66	-2.04	11.50	-3.18	-0.81
A223YL		15.50	-2.16	-0.51	11.50	-3.18	-0.81
A4CZNM		13.50	-4.16	-0.98	12.00	-2.68	-0.68
BF8NHA		17.00	-0.66	-0.16	14.00	-0.68	-0.17
BMMCTH		15.50	-2.16	-0.51	14.50	-0.18	-0.05
CPNG74		17.00	-0.66	-0.16	13.50	-1.18	-0.30
DJZUPB		18.00	0.34	0.08	14.50	-0.18	-0.05
DTHFTK		15.50	-2.16	-0.51	13.50	-1.18	-0.30
EEHB8N		16.50	-1.16	-0.27	12.50	-2.18	-0.56
EHE4WC	*	15.84	-1.82	-0.43	8.88	-5.80	-1.48
ER22QX		28.00	10.34	2.44	24.50	9.82	2.50
F3LMTX		22.00	4.34	1.02	18.00	3.32	0.85
F73BLP		13.00	-4.66	-1.10	12.00	-2.68	-0.68
FKGR7D	*	29.00	11.34	2.67	25.50	10.82	2.76
FP3M9X		22.40	4.74	1.12	21.60	6.92	1.76
H2GEL6	*	28.50	10.84	2.56	26.50	11.82	3.01
H6WKRX		17.50	-0.16	-0.04	12.50	-2.18	-0.56
H9ZTGM		14.00	-3.66	-0.86	11.00	-3.68	-0.94
HFGAU6		16.50	-1.16	-0.27	12.50	-2.18	-0.56
HP2VKK		16.00	-1.66	-0.39	14.00	-0.68	-0.17
J2RU4B		13.50	-4.16	-0.98	13.00	-1.68	-0.43
J6TGUY	X	20.00	2.34	0.55	24.50	9.82	2.50
KFRA6D		15.50	-2.16	-0.51	12.00	-2.68	-0.68
KL2HC8		17.00	-0.66	-0.16	12.50	-2.18	-0.56

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 903

## Free Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L2XLNH		14.50	-3.16	-0.74	12.00	-2.68	-0.68
LCPQKN	*	29.50	11.84	2.79	25.50	10.82	2.76
LL82EU		15.50	-2.16	-0.51	12.50	-2.18	-0.56
LQ6YU9		13.00	-4.66	-1.10	12.00	-2.68	-0.68
MH7RUZ		20.00	2.34	0.55	15.50	0.82	0.21
MKK423	*	11.00	-6.66	-1.57	12.00	-2.68	-0.68
MRBPUW		16.00	-1.66	-0.39	13.00	-1.68	-0.43
MV38E2		17.00	-0.66	-0.16	14.00	-0.68	-0.17
NCYGEC	X	3.00	-14.66	-3.46	14.00	-0.68	-0.17
NEAZJM		22.00	4.34	1.02	17.00	2.32	0.59
NLH42Z		15.00	-2.66	-0.63	12.00	-2.68	-0.68
NN4ZFR		14.50	-3.16	-0.74	12.00	-2.68	-0.68
NURMAX	X	32.50	14.84	3.50	27.00	12.32	3.14
NW222J		16.00	-1.66	-0.39	12.50	-2.18	-0.56
PJVDE8		20.00	2.34	0.55	16.50	1.82	0.46
Q99CGP		16.00	-1.66	-0.39	14.50	-0.18	-0.05
QAJQV6		14.50	-3.16	-0.74	14.50	-0.18	-0.05
QHBML9		20.00	2.34	0.55	16.00	1.32	0.34
QJD497		17.50	-0.16	-0.04	14.50	-0.18	-0.05
R92DXF		19.50	1.84	0.43	18.00	3.32	0.85
RCQEZM		18.00	0.34	0.08	13.50	-1.18	-0.30
RDJL8Z		16.00	-1.66	-0.39	13.00	-1.68	-0.43
RJ4V7W		17.00	-0.66	-0.16	12.50	-2.18	-0.56
RU3MXU		24.00	6.34	1.50	19.50	4.82	1.23
T4PU8L		14.50	-3.16	-0.74	13.00	-1.68	-0.43
T7BQLD		17.00	-0.66	-0.16	14.50	-0.18	-0.05
U6YR4U		16.00	-1.66	-0.39	12.00	-2.68	-0.68
W2Q94P		14.50	-3.16	-0.74	11.00	-3.68	-0.94
W46JN2		14.50	-3.16	-0.74	12.00	-2.68	-0.68
X3JGPE		23.71	6.05	1.43	19.54	4.86	1.24
XQ84LR	*	21.00	3.34	0.79	14.00	-0.68	-0.17
XW6CPT		15.00	-2.66	-0.63	11.00	-3.68	-0.94
Y9YK82		18.00	0.34	0.08	16.00	1.32	0.34
YLG464		16.50	-1.16	-0.27	14.00	-0.68	-0.17
YT89JR		20.00	2.34	0.55	20.00	5.32	1.36

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 903**  
**Free Sulfur Dioxide**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
Z4LHXV		15.00	-2.66	-0.63	11.00	-3.68	-0.94
ZKACE8		14.50	-3.16	-0.74	11.00	-3.68	-0.94

Grand Means		Summary Statistics	
	17.658 mg/L		14.679 mg/L
Std Dev Btwn Labs			
	4.241 mg/L		3.924 mg/L
<b>Statistics based on 68 of 72 reporting participants</b>			

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Comments on assigned Data Flags**

9UK8JR (X) - Inconsistent in testing between samples.

J6TGUY (X) - Inconsistent in testing between samples.

NCYGEC (X) - Inconsistent in testing between samples, data for Sample SA65 are low.

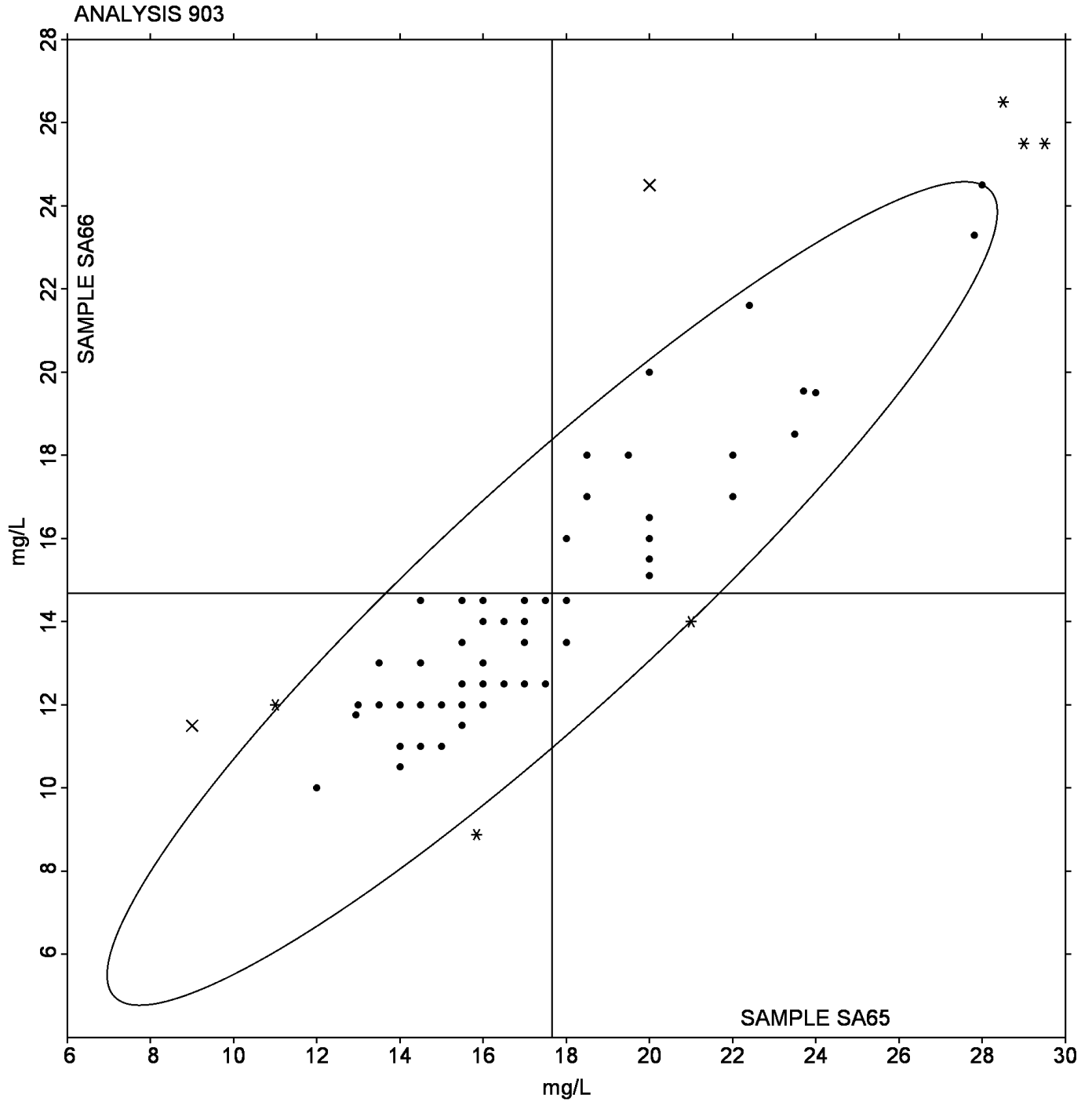
NURMAX (X) - Data for both samples are high. Possible Systematic Error.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Please specify method used	15.17	1.44	-2.49	13.17	1.26	-1.51	3	4
Ripper Method	16.01	2.45	-1.65	13.30	1.90	-1.38	20	22
Aeration Oxidation (AO) Method	17.47	3.41	-0.19	14.73	3.39	0.05	27	30
Segmented Flow Analyzer	19.90	3.21	2.24	15.70	2.71	1.02	5	5
Colormetric Analyzer	24.00	3.46	6.34	19.83	4.07	5.15	3	6
Flow Injection Analysis	14.25	1.66	-3.41	11.13	1.03	-3.55	4	4

Analysis 903

Free Sulfur Dioxide



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 904

## Titratable Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D7D8V		7.150	0.175	0.74	7.050	0.146	0.59
2YMRLG	*	6.510	-0.465	-1.97	6.320	-0.584	-2.37
38PGJL		6.760	-0.215	-0.91	6.700	-0.204	-0.83
3WFFJ9R	X	7.700	0.725	3.08	7.250	0.346	1.41
4R2QQH		7.050	0.075	0.32	7.050	0.146	0.59
4T68KM		6.900	-0.075	-0.32	6.750	-0.154	-0.63
4VRXFZ		6.745	-0.230	-0.98	6.640	-0.264	-1.07
4X6E7K		7.235	0.260	1.10	7.195	0.291	1.18
6L7ZLD		6.715	-0.260	-1.10	6.565	-0.339	-1.38
6MTQGQ		6.985	0.010	0.04	6.860	-0.044	-0.18
6Q6F3Z	*	7.600	0.625	2.65	7.545	0.641	2.61
6T62YR	*	7.400	0.425	1.81	7.500	0.596	2.42
6ZJH62		6.940	-0.035	-0.15	6.860	-0.044	-0.18
7QXHJP	X	8.025	1.050	4.46	8.065	1.161	4.72
83LD3F		7.000	0.025	0.11	7.000	0.096	0.39
87MZU4		7.105	0.130	0.55	6.940	0.036	0.15
8AAZBR		6.900	-0.075	-0.32	6.800	-0.104	-0.42
8FLX3D		7.100	0.125	0.53	7.030	0.126	0.51
8TWTXH		6.600	-0.375	-1.59	6.520	-0.384	-1.56
94DA7M	X	7.465	0.490	2.08	6.975	0.071	0.29
9DKNVM	*	6.350	-0.625	-2.65	6.350	-0.554	-2.25
9EJDBH		6.900	-0.075	-0.32	6.800	-0.104	-0.42
9ET9TH	X	7.575	0.600	2.55	7.780	0.876	3.56
9K4E9M		6.950	-0.025	-0.11	6.900	-0.004	-0.02
9N6DXW	X	7.721	0.746	3.17	7.487	0.583	2.37
AB4FX2		7.300	0.325	1.38	7.250	0.346	1.41
B469XT		6.900	-0.075	-0.32	6.900	-0.004	-0.02
BHMZXJ		6.925	-0.050	-0.21	6.875	-0.029	-0.12
D3FV4C		7.130	0.155	0.66	7.090	0.186	0.76
D8H4YT		6.800	-0.175	-0.74	6.700	-0.204	-0.83
DTCPJB		7.055	0.080	0.34	6.945	0.041	0.17
DYRMJP		6.900	-0.075	-0.32	6.840	-0.064	-0.26
EA4VGU	X	7.550	0.575	2.44	7.700	0.796	3.24
EKLUCK		7.035	0.060	0.26	6.895	-0.009	-0.04
ELDHJ2		6.955	-0.020	-0.08	6.880	-0.024	-0.10

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 904

## Titratable Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FFJHKD		6.605	-0.370	-1.57	6.535	-0.369	-1.50
FXR9ZP		7.065	0.090	0.38	6.910	0.006	0.02
H7CQH8		6.670	-0.305	-1.29	6.750	-0.154	-0.63
HQVYGV		7.000	0.025	0.11	6.850	-0.054	-0.22
HRPQG9		7.150	0.175	0.74	7.150	0.246	1.00
HXH3P6		7.050	0.075	0.32	7.000	0.096	0.39
JDRB2R		7.015	0.040	0.17	6.920	0.016	0.07
KQX6A2		6.710	-0.265	-1.12	6.640	-0.264	-1.07
L3E3AG	X	6.700	-0.275	-1.17	7.150	0.246	1.00
L6N2VC		7.000	0.025	0.11	7.100	0.196	0.80
LGTY4D	X	8.010	1.035	4.40	7.570	0.666	2.71
M4TT8T	*	7.600	0.625	2.65	7.490	0.586	2.38
MAAMR3		7.085	0.110	0.47	6.980	0.076	0.31
N8D4UP		6.860	-0.115	-0.49	6.915	0.011	0.04
NZ7FZA	X	3.230	-3.745	-15.90	3.235	-3.669	-14.91
PRTE6E		6.750	-0.225	-0.95	6.615	-0.289	-1.17
PVKYJV		7.500	0.525	2.23	7.400	0.496	2.02
PYEWVF		6.900	-0.075	-0.32	6.900	-0.004	-0.02
Q8TXUP		7.050	0.075	0.32	6.950	0.046	0.19
QPDN49		6.945	-0.030	-0.13	7.035	0.131	0.53
QRC348		7.400	0.425	1.81	7.300	0.396	1.61
QTGEFW		7.200	0.225	0.96	7.165	0.261	1.06
RAFDYW		6.715	-0.260	-1.10	6.600	-0.304	-1.24
RLZJDD		6.850	-0.125	-0.53	6.700	-0.204	-0.83
TVFC29	*	7.150	0.175	0.74	6.900	-0.004	-0.02
VJCZJC		7.050	0.075	0.32	7.030	0.126	0.51
VM9T9Z	X	7.895	0.920	3.91	8.060	1.156	4.70
VNUJ2Y		6.900	-0.075	-0.32	6.900	-0.004	-0.02
VUZAHC		6.750	-0.225	-0.95	6.800	-0.104	-0.42
WCV6GT		6.950	-0.025	-0.11	6.800	-0.104	-0.42
XVUG32		7.050	0.075	0.32	6.990	0.086	0.35
Y7B4XT		6.900	-0.075	-0.32	6.800	-0.104	-0.42
YETHTB		6.945	-0.030	-0.13	6.800	-0.104	-0.42
YNFXKD		6.960	-0.015	-0.06	6.820	-0.084	-0.34
YXPAYX		6.900	-0.075	-0.32	6.840	-0.064	-0.26

## ASEV-CTS Wine Industry Interlaboratory Testing Program

### Analysis 904

#### Titratable Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
YZ76M3		7.050	0.075	0.32	6.950	0.046	0.19
ZUBEHX		6.820	-0.155	-0.66	6.760	-0.144	-0.59

Grand Means		Summary Statistics	
	6.9748 g/L as tartaric acid		6.9040 g/L as tartaric acid
Std Dev Btw Labs			
	0.2355 g/L as tartaric acid		0.2460 g/L as tartaric acid
<b>Statistics based on 62 of 72 reporting participants</b>			

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

#### Comments on assigned Data Flags

3WFJ9R (X) - Inconsistent in testing between samples, data for Sample SA66 are high. Also inconsistent in testing within Sample SA65.

7QXHJP (X) - Data for both samples are low. Also inconsistent in testing within Sample SA66.

94DA7M (X) - Inconsistent in testing between samples.

9ET9TH (X) - Inconsistent in testing between samples, data for Sample SA66 are high. Also inconsistent in testing within Sample SA66.

9N6DXW (X) - Inconsistent in testing between samples, data for Sample SA65 are high.

EA4VGU (X) - Inconsistent in testing between samples, data for Sample SA66 are high.

L3E3AG (X) - Inconsistent in testing between samples.

LGTY4D (X) - Inconsistent in testing between samples, data for Sample SA65 are high.

NZ7FZA (X) - Data for both samples are low.

VM9T9Z (X) - Data for both samples are high.

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 904

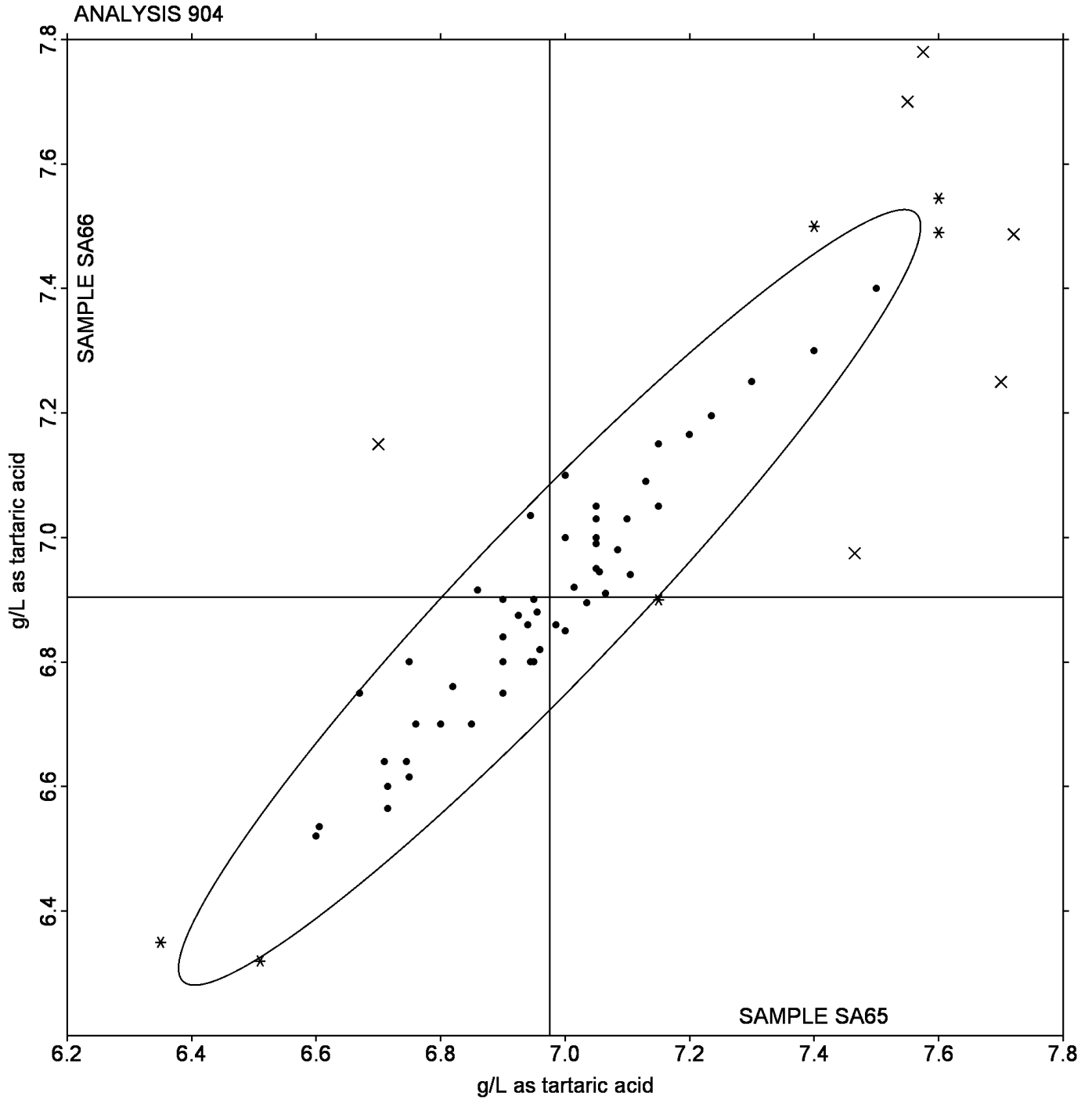
## Titratable Acidity

## Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Autotitration	6.997	0.141	0.022	6.908	0.148	0.004	29	34
Manual Titration	6.908	0.181	-0.066	6.869	0.204	-0.035	19	28
FTIR	6.881	0.182	-0.094	6.816	0.201	-0.088	7	9
Segmented Flow Analyzer	7.500	0.000	0.525	7.400	0.000	0.496	1	1

Analysis 904

Titrateable Acidity



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 905**  
**Volatile Acidity**

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WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3BXJTP		0.2650	0.0350	0.37	0.2400	0.0090	0.10
3FF3CC		0.1850	-0.0450	-0.48	0.1800	-0.0510	-0.55
3LKUMV		0.3000	0.0700	0.74	0.3000	0.0690	0.75
43HJ9Q		0.3655	0.1355	1.43	0.3665	0.1355	1.47
4B7272		0.4200	0.1900	2.01	0.3900	0.1590	1.72
4GE2KH		0.2750	0.0450	0.48	0.2850	0.0540	0.58
6C2YBC	X	0.3350	0.1050	1.11	0.2600	0.0290	0.31
7AVV3P		0.2100	-0.0200	-0.21	0.1750	-0.0560	-0.61
7VCRUD		0.2950	0.0650	0.69	0.3050	0.0740	0.80
7ZJJ2K		0.2500	0.0200	0.21	0.2800	0.0490	0.53
89766W		0.1400	-0.0900	-0.95	0.1350	-0.0960	-1.04
8YJ8BA		0.3300	0.1000	1.06	0.3300	0.0990	1.07
9PZ27G	X	0.4600	0.2300	2.43	0.3700	0.1390	1.50
9QU9P2		0.2600	0.0300	0.32	0.2600	0.0290	0.31
9R4WPK		0.3300	0.1000	1.06	0.3250	0.0940	1.02
9ZEYBM		0.3050	0.0750	0.79	0.3100	0.0790	0.85
BG2GET		0.2350	0.0050	0.05	0.2600	0.0290	0.31
BQ6WVL		0.2575	0.0275	0.29	0.2600	0.0290	0.31
CQXVKJ		0.1050	-0.1250	-1.32	0.1050	-0.1260	-1.36
DB67YR		0.2550	0.0250	0.26	0.2600	0.0290	0.31
DBX9FH		0.3300	0.1000	1.06	0.3500	0.1190	1.29
DGLVBM	*	0.4815	0.2515	2.66	0.4530	0.2220	2.40
E6MLYY		0.1050	-0.1250	-1.32	0.1100	-0.1210	-1.31
E89HCQ		0.1190	-0.1110	-1.17	0.1145	-0.1165	-1.26
EFCA77		0.2400	0.0100	0.11	0.2500	0.0190	0.21
F7YZH7		0.1200	-0.1100	-1.16	0.1250	-0.1060	-1.15
FEQW89		0.1150	-0.1150	-1.22	0.1450	-0.0860	-0.93
G96MMN		0.3100	0.0800	0.85	0.3000	0.0690	0.75
GZ64UL		0.2600	0.0300	0.32	0.2900	0.0590	0.64
H3C2X9		0.1500	-0.0800	-0.85	0.1500	-0.0810	-0.88
HT6YL3		0.2250	-0.0050	-0.05	0.2400	0.0090	0.10
HZXC4P		0.2150	-0.0150	-0.16	0.2350	0.0040	0.04
JFUU2Q		0.2750	0.0450	0.48	0.2750	0.0440	0.48
JYFQZ7		0.1100	-0.1200	-1.27	0.0950	-0.1360	-1.47
L6D8GP		0.1000	-0.1300	-1.38	0.1000	-0.1310	-1.42

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 905**  
**Volatile Acidity**

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WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
LQZPX2		0.3150	0.0850	0.90	0.3300	0.0990	1.07
LYYQBF		0.3900	0.1600	1.69	0.3850	0.1540	1.67
M7UKVC	X	0.1150	-0.1150	-1.22	0.2050	-0.0260	-0.28
MJJR4T		0.1500	-0.0800	-0.85	0.1500	-0.0810	-0.88
NF4PMF		0.1500	-0.0800	-0.85	0.1500	-0.0810	-0.88
NFAULQ		0.2350	0.0050	0.05	0.2300	-0.0010	-0.01
PHGHR9		0.2550	0.0250	0.26	0.2750	0.0440	0.48
PN7GG3		0.0450	-0.1850	-1.96	0.0700	-0.1610	-1.74
Q4AGFW	X	0.2800	0.0500	0.53	0.3800	0.1490	1.61
Q4DUC6		0.2050	-0.0250	-0.26	0.2200	-0.0110	-0.12
QK48W6		0.2900	0.0600	0.63	0.3100	0.0790	0.85
RJ7CUV		0.2700	0.0400	0.42	0.2700	0.0390	0.42
RM8KVH		0.2075	-0.0225	-0.24	0.2075	-0.0235	-0.25
RRYKEK		0.1400	-0.0900	-0.95	0.1150	-0.1160	-1.26
T6GHEZ		0.2000	-0.0300	-0.32	0.2050	-0.0260	-0.28
T76FP8		0.3300	0.1000	1.06	0.3240	0.0930	1.01
T8GDUB		0.2300	0.0000	0.00	0.2350	0.0040	0.04
TQ2WBE		0.1100	-0.1200	-1.27	0.1150	-0.1160	-1.26
TYVU4A		0.2510	0.0210	0.22	0.2160	-0.0150	-0.16
UKQKW9		0.2950	0.0650	0.69	0.3300	0.0990	1.07
UMUKNT		0.2600	0.0300	0.32	0.2500	0.0190	0.21
V2V72F		0.1950	-0.0350	-0.37	0.2050	-0.0260	-0.28
V3QVA4		0.1100	-0.1200	-1.27	0.1100	-0.1210	-1.31
V9AKFZ		0.1500	-0.0800	-0.85	0.1500	-0.0810	-0.88
VJFFXV		0.4200	0.1900	2.01	0.4100	0.1790	1.94
VYYM62		0.1950	-0.0350	-0.37	0.2010	-0.0300	-0.32
WQ88VP		0.2050	-0.0250	-0.26	0.2150	-0.0160	-0.17
XEYDYC		0.3050	0.0750	0.79	0.2950	0.0640	0.69
XU8QCF	*	0.3450	0.1150	1.22	0.2950	0.0640	0.69
YP9C7P		0.1400	-0.0900	-0.95	0.1400	-0.0910	-0.98
YRXZPX		0.2750	0.0450	0.48	0.2600	0.0290	0.31
YZ6EEZ		0.0100	-0.2200	-2.33	0.0100	-0.2210	-2.39
ZFF3X2		0.1150	-0.1150	-1.22	0.1100	-0.1210	-1.31
ZL4PT7		0.2200	-0.0100	-0.11	0.2300	-0.0010	-0.01

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 905**  
**Volatile Acidity**

Grand Means	Summary Statistics	
0.23003 g/L as acetic acid	0.23104 g/L as acetic acid	
Std Dev Btwn Labs	0.09244 g/L as acetic acid	
0.09451 g/L as acetic acid	0.09244 g/L as acetic acid	
<b>Statistics based on 65 of 69 reporting participants</b>		

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Comments on assigned Data Flags**

6C2YBC (X) - Inconsistent in testing between samples.

9PZ27G (X) - Inconsistent in testing between samples.

M7UKVC (X) - Inconsistent in testing between samples.

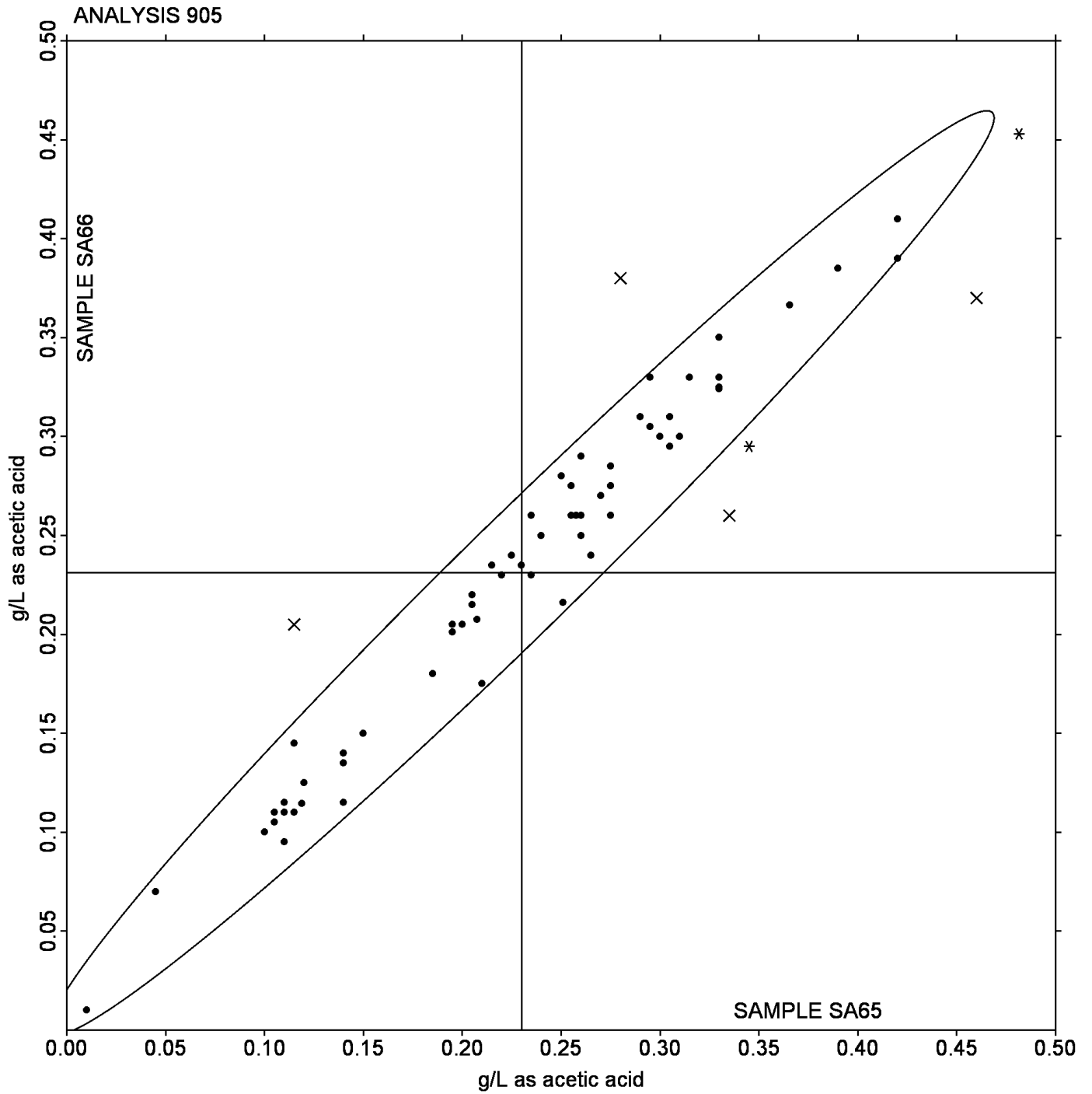
Q4AGFW (X) - Inconsistent in testing between samples.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Please specify method	0.2600	0.0000	0.0300	0.2500	0.0000	0.0190	1	2
Cash Still method	0.2899	0.0731	0.0599	0.2923	0.0683	0.0613	22	27
Enzymatic method	0.1450	0.0743	-0.0851	0.1440	0.0737	-0.0871	20	20
GC	0.2510	0.0000	0.0210	0.2160	0.0000	-0.0150	1	1
Seg. Flow / Colorimetric Analyzer	0.2511	0.0443	0.0211	0.2630	0.0419	0.0319	11	11
FTIR	0.1969	0.0532	-0.0332	0.2001	0.0552	-0.0309	8	8

Analysis 905

Volatile Acidity



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 906**  
**Specific Gravity**

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WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
24XDLU		1.010	-0.002	-2.22	1.010	-0.002	-2.10
3CWL2Z		1.012	0.000	-0.19	1.012	0.000	0.06
3NYC2M		1.012	0.000	0.17	1.012	0.000	0.06
3Y6ZCX	X	1.016	0.004	5.67	1.016	0.004	5.33
4XPWH6	X	1.016	0.004	4.94	1.016	0.004	5.00
6K4JXF		1.010	-0.002	-2.39	1.010	-0.002	-2.42
7GWQXM		1.012	0.000	-0.46	1.012	0.000	-0.47
7MA84W		1.012	0.000	0.13	1.012	0.000	0.04
8A8JNT	X	1.017	0.005	6.62	1.016	0.004	5.39
AZDGRG		1.012	0.000	0.06	1.012	0.000	-0.03
C8PWD4		1.012	0.000	-0.06	1.012	0.000	-0.07
C9KKLR		1.011	-0.001	-1.74	1.011	-0.001	-1.74
CE3FB4		1.012	0.000	0.07	1.012	0.000	0.03
CGV2JK		1.012	0.000	-0.26	1.012	0.000	-0.20
D4H3NX	X	1.010	-0.002	-2.89	1.011	-0.001	-1.27
D4TDGP		1.012	0.000	0.28	1.012	0.000	0.00
DDCJML		1.012	0.000	-0.19	1.012	0.000	0.04
DMXB6Q		1.012	0.000	0.14	1.012	0.000	0.06
DU7FM4	X	1.009	-0.003	-4.23	1.009	-0.003	-3.94
DUCGX4	X	1.012	-0.001	-0.87	1.015	0.003	3.39
E497GQ		1.012	0.000	-0.06	1.012	0.000	-0.14
EHUDV6		1.012	0.000	0.08	1.012	0.000	0.26
ELZN6K	X	1.006	-0.006	-7.67	1.006	-0.006	-7.67
EWU6GG	X	1.013	0.001	1.04	1.013	0.001	1.80
FTU4EP		1.012	0.000	0.08	1.012	0.000	0.00
G2PGV4	X	1.013	0.001	1.16	1.012	0.000	0.06
GRVKMA		1.014	0.002	2.51	1.014	0.002	2.53
HKARAP		1.012	0.000	0.05	1.012	0.000	0.05
JTZBP3		1.010	-0.002	-2.25	1.010	-0.002	-2.30
K9AD8B		1.012	0.000	0.14	1.012	0.000	0.03
K9AE4U		1.012	0.000	-0.39	1.012	0.000	-0.40
KFZQHP	X	1.012	0.000	-0.60	1.013	0.001	0.73
KRFH4D		1.013	0.001	1.16	1.013	0.001	1.40
KZVN7G	*	1.014	0.002	3.12	1.014	0.002	3.07
L68L69		1.012	0.000	0.11	1.012	0.000	0.03

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 906**  
**Specific Gravity**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
L8G3ML		1.012	0.000	0.15	1.012	0.000	0.05
LW979B		1.012	0.000	-0.46	1.012	0.000	-0.34
M4JRTY		1.012	0.000	0.05	1.012	0.000	-0.10
MBAAXG		1.012	0.000	0.08	1.012	0.000	-0.07
NRQM6Y	X	1.014	0.001	1.83	1.014	0.002	2.73
P6DWMX	*	1.013	0.000	0.55	1.013	0.001	0.93
RLV8QG		1.012	0.000	0.12	1.012	0.000	0.02
RUKMTL		1.013	0.001	0.96	1.013	0.001	0.73
RXNRPK		1.012	0.000	0.08	1.012	0.000	0.06
U8MGR2		1.012	0.000	0.01	1.012	0.000	0.08
UENGW3		1.012	0.000	0.19	1.012	0.000	0.02
UU74ND		1.012	0.000	-0.19	1.012	0.000	0.06
UY9VHV		1.011	-0.001	-1.54	1.011	-0.001	-1.27
V7PAXT		1.012	0.000	-0.04	1.012	0.000	-0.13
VFRXR7	X	1.012	0.000	0.32	1.010	-0.002	-2.16
VTRZGE	X	1.017	0.005	6.95	1.017	0.005	6.73
VZKRKE		1.013	0.001	0.89	1.013	0.001	1.13
WC28NE		1.013	0.001	1.16	1.013	0.001	1.26
WKKLJW		1.012	0.000	-0.06	1.012	0.000	-0.07
WTXJFE		1.012	0.000	-0.19	1.012	0.000	-0.20
XDYC3T		1.012	0.000	0.10	1.012	0.000	-0.01
YXXNXQ	X	1.005	-0.008	-10.30	1.011	-0.001	-1.27
ZRUCTY	X	1.011	-0.002	-2.21	1.009	-0.003	-4.60
ZXRUG6		1.012	0.000	0.28	1.012	0.000	0.06

**Grand Means**

1.0121 sp gr 20/20 C

**Summary Statistics**

1.0120 sp gr 20/20 C

**Std Dev Btwn Labs**

0.0007 sp gr 20/20 C

0.0008 sp gr 20/20 C

**Statistics based on 44 of 59 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 906**  
**Specific Gravity**

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**Comments on assigned Data Flags**

3Y6ZCX (X) - Data for both samples are high. Also inconsistent in testing within Sample SA65.

4XPWH6 (X) - Data for both samples are high.

8A8JNT (X) - Data for both samples are high.

D4H3NX (X) - Inconsistent in testing between samples, data for Sample SA65 are low.

DU7FM4 (X) - Data for both samples are low.

DUCGX4 (X) - Inconsistent in testing between samples, data for Sample SA66 are high. Also inconsistent in testing within both samples.

ELZN6K (X) - Data for both samples are low.

EWU6GG (X) - Inconsistent in testing between samples.

G2PGV4 (X) - Inconsistent in testing between samples.

KFZQHP (X) - Inconsistent in testing between samples.

NRQM6Y (X) - Inconsistent in testing between samples, data for Sample SA66 are high. Also inconsistent in testing within Sample SA65.

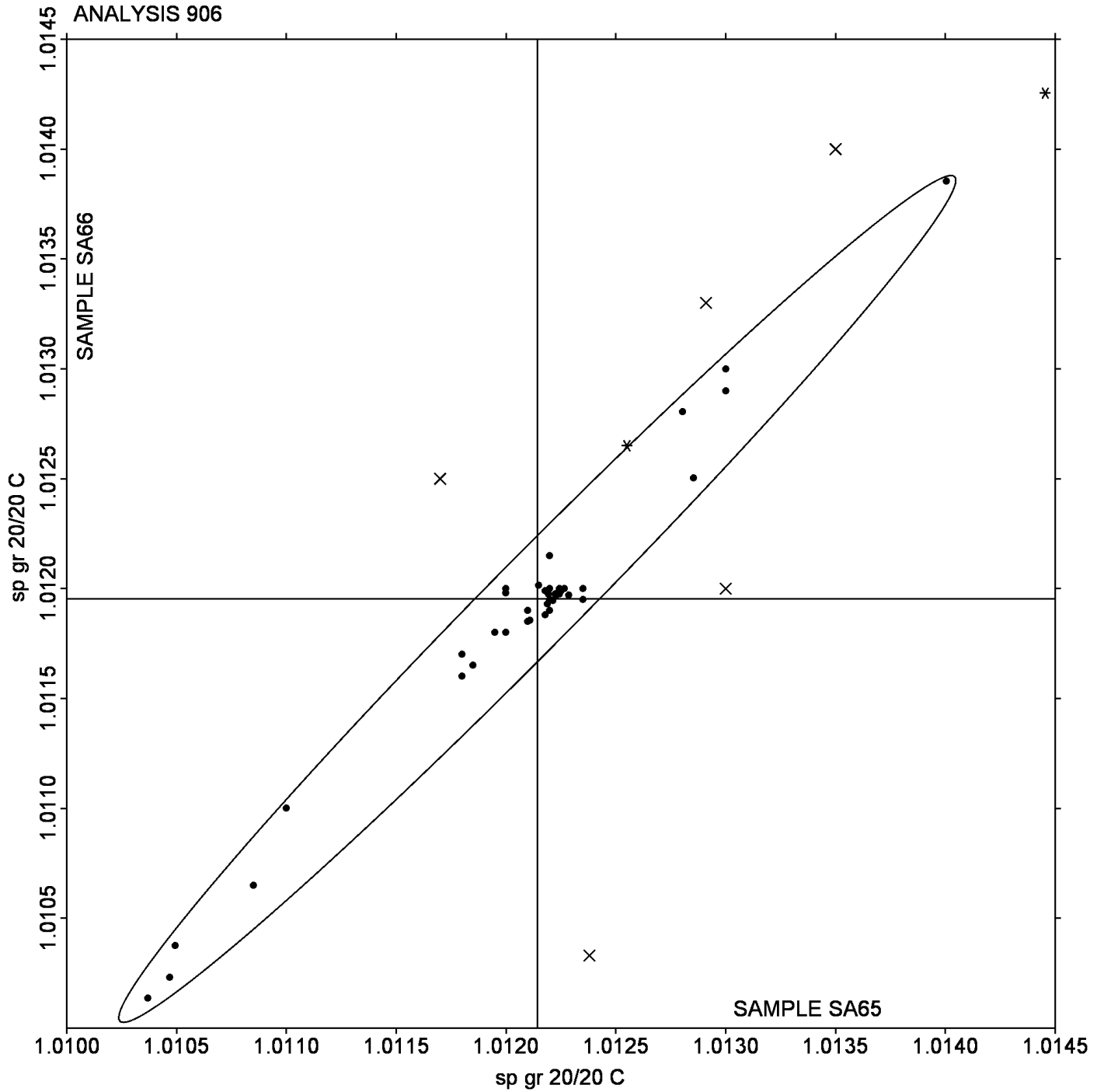
VFRXR7 (X) - Inconsistent in testing between samples.

VTRZGE (X) - Data for both samples are high.

YXXNXQ (X) - Inconsistent in testing between samples, data for Sample SA65 are low. Also inconsistent in testing within Sample SA65.

ZRUCTY (X) - Inconsistent in testing between samples, data for Sample SA65 are low. Also inconsistent in testing within both samples.

Analysis 906  
Specific Gravity



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 907

## pH

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2D8ZVZ		3.135	-0.048	-1.31	3.130	-0.060	-1.59
2LRLDR		3.155	-0.028	-0.76	3.160	-0.030	-0.79
49JWRG		3.190	0.007	0.21	3.200	0.010	0.27
4AJHFM		3.175	-0.008	-0.21	3.190	0.000	0.00
4JYGQY		3.175	-0.008	-0.21	3.170	-0.020	-0.53
66KVD7	*	3.200	0.017	0.48	3.185	-0.005	-0.13
6GEUW2	X	3.185	0.002	0.07	3.150	-0.040	-1.06
6U3QDF		3.250	0.067	1.86	3.260	0.070	1.85
7WKCGM		3.140	-0.043	-1.17	3.155	-0.035	-0.92
8GN2A2	X	7.200	4.017	110.75	6.905	3.715	98.32
8LGM3G	X	3.200	0.017	0.48	3.250	0.060	1.59
8MRL6E		3.200	0.017	0.48	3.200	0.010	0.27
92Q97L		3.150	-0.033	-0.90	3.155	-0.035	-0.92
92X9GN		3.170	-0.013	-0.35	3.160	-0.030	-0.79
96EXUQ		3.170	-0.013	-0.35	3.175	-0.015	-0.40
9LGJV7		3.225	0.042	1.17	3.225	0.035	0.93
9ZCHMN		3.215	0.032	0.89	3.220	0.030	0.80
A633CN		3.190	0.007	0.21	3.205	0.015	0.40
AVLQCR		3.200	0.017	0.48	3.205	0.015	0.40
BFEUCJ		3.130	-0.053	-1.45	3.145	-0.045	-1.19
BFY2QU		3.210	0.027	0.76	3.220	0.030	0.80
BVEYXG		3.180	-0.003	-0.07	3.190	0.000	0.00
BZZTZ2		3.140	-0.043	-1.17	3.150	-0.040	-1.06
CA48UZ		3.170	-0.013	-0.35	3.170	-0.020	-0.53
CCJYAG	*	3.290	0.107	2.96	3.290	0.100	2.65
CCP49R		3.215	0.032	0.89	3.225	0.035	0.93
D3B27Q		3.170	-0.013	-0.35	3.180	-0.010	-0.26
DEVPTC	*	3.265	0.082	2.27	3.290	0.100	2.65
DEVQGQ		3.200	0.017	0.48	3.205	0.015	0.40
DY93VX		3.145	-0.038	-1.03	3.160	-0.030	-0.79
EF2FFT		3.190	0.007	0.21	3.190	0.000	0.00
EXAT3M		3.170	-0.013	-0.35	3.180	-0.010	-0.26
F836PU		3.210	0.027	0.76	3.230	0.040	1.06
F8UMUA		3.145	-0.038	-1.03	3.160	-0.030	-0.79
FBJWBG		3.240	0.057	1.58	3.250	0.060	1.59

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 907

## pH

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
G49KJ4		3.265	0.082	2.27	3.275	0.085	2.25
G4KPC8		3.240	0.057	1.58	3.265	0.075	1.99
GA94L9		3.160	-0.023	-0.62	3.160	-0.030	-0.79
GXF8EL		3.185	0.002	0.07	3.185	-0.005	-0.13
H7ARXT		3.110	-0.073	-2.00	3.120	-0.070	-1.85
HZ4CQB		3.195	0.012	0.34	3.200	0.010	0.27
J4YPNL		3.150	-0.033	-0.90	3.140	-0.050	-1.32
J6PU32		3.215	0.032	0.89	3.220	0.030	0.80
JXBFNG		3.190	0.007	0.21	3.195	0.005	0.13
LLUTD2		3.215	0.032	0.89	3.215	0.025	0.66
MKKBKD		3.180	-0.003	-0.07	3.195	0.005	0.13
MLVBFC		3.190	0.007	0.21	3.200	0.010	0.27
MM3WMP		3.190	0.007	0.21	3.200	0.010	0.27
MT33XZ		3.188	0.005	0.15	3.216	0.026	0.68
NFYEHW		3.140	-0.043	-1.17	3.145	-0.045	-1.19
NMNLQ		3.195	0.012	0.34	3.205	0.015	0.40
NUYNFX		3.180	-0.003	-0.07	3.200	0.010	0.27
PCVCJ3	*	3.105	-0.078	-2.14	3.130	-0.060	-1.59
PG9CGT		3.220	0.037	1.03	3.240	0.050	1.33
QCVCXD		3.160	-0.023	-0.62	3.170	-0.020	-0.53
QDP8RU		3.135	-0.048	-1.31	3.130	-0.060	-1.59
RG2PCH		3.165	-0.018	-0.48	3.170	-0.020	-0.53
RH3X23		3.165	-0.018	-0.48	3.170	-0.020	-0.53
TLAPT7		3.150	-0.033	-0.90	3.140	-0.050	-1.32
U3XMPE		3.180	-0.003	-0.07	3.185	-0.005	-0.13
VV86KW	X	2.970	-0.213	-5.86	3.050	-0.140	-3.70
W93VTE		3.160	-0.023	-0.62	3.170	-0.020	-0.53
WHY967		3.205	0.022	0.62	3.210	0.020	0.53
WWFJUA		3.210	0.027	0.76	3.210	0.020	0.53
XKWNT3		3.175	-0.008	-0.21	3.185	-0.005	-0.13
XNAAMG		3.170	-0.013	-0.35	3.170	-0.020	-0.53
XVYHUZ		3.180	-0.003	-0.07	3.175	-0.015	-0.40
XYFDNW		3.165	-0.018	-0.48	3.180	-0.010	-0.26
YDGQZU		3.175	-0.008	-0.21	3.185	-0.005	-0.13
Z6FUEB		3.130	-0.053	-1.45	3.150	-0.040	-1.06

## Analysis 907

## pH

Grand Means	Summary Statistics
3.1825 pH	3.1899 pH
Std Dev Btwn Labs	
0.0363 pH	0.0378 pH
<b>Statistics based on 66 of 70 reporting participants</b>	

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Comments on assigned Data Flags**

6GEUW2 (X) - Inconsistent in testing between samples.

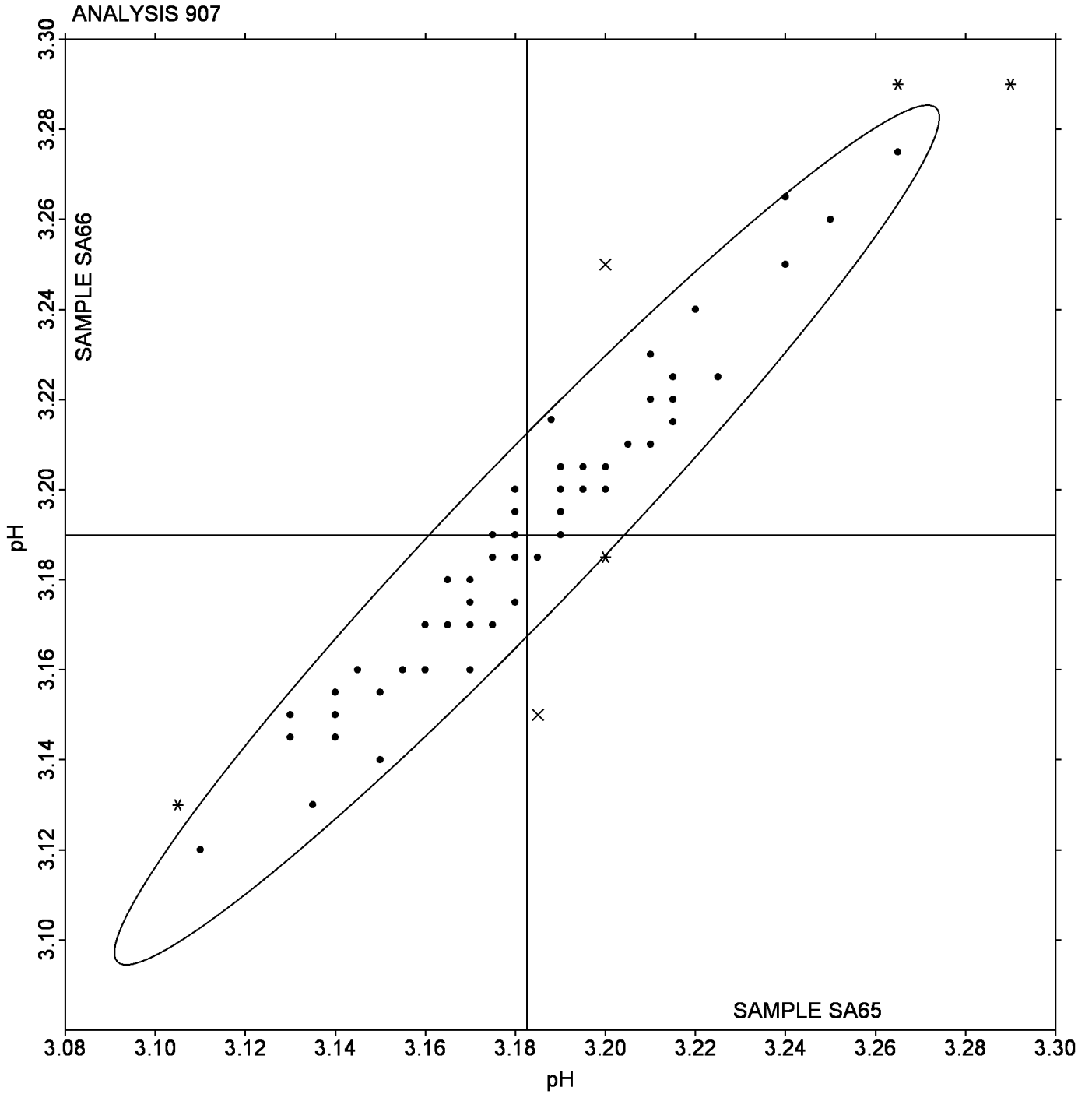
8GN2A2 (X) - Data for both samples are high.

8LGM3G (X) - Inconsistent in testing between samples.

VV86KW (X) - Data for both samples are low.

Analysis 907

pH



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 908**  
**Residual Sugar**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3MRW6Z		36.05	-0.82	-0.22	34.75	-1.38	-0.48
3N6RU9		33.40	-3.47	-0.92	32.20	-3.93	-1.36
8BZDJC		36.38	-0.49	-0.13	35.38	-0.75	-0.26
CH7487		40.18	3.31	0.88	38.93	2.80	0.97
E8UTLH		34.49	-2.38	-0.63	34.20	-1.93	-0.67
ECT6NA	*	28.18	-8.69	-2.31	34.17	-1.96	-0.68
F4EFQ4		39.50	2.63	0.70	38.00	1.87	0.65
FJBFCH		37.00	0.13	0.04	35.50	-0.63	-0.22
FQQD6Q		36.25	-0.62	-0.16	35.60	-0.53	-0.18
HMLHKC		36.89	0.02	0.00	36.36	0.23	0.08
JY3FLR		38.40	1.53	0.41	37.70	1.57	0.55
K2PR6D		38.55	1.68	0.45	38.80	2.67	0.93
K8UQF3		33.25	-3.62	-0.96	35.75	-0.38	-0.13
KDBLKB		41.66	4.79	1.27	35.71	-0.42	-0.15
L4PLYZ		42.00	5.13	1.37	40.50	4.37	1.52
L7PT8Q		38.00	1.13	0.30	37.20	1.07	0.37
LYVFP4	*	28.60	-8.27	-2.20	26.82	-9.31	-3.23
MF29XB		37.21	0.34	0.09	36.65	0.52	0.18
NRRBR3		38.59	1.72	0.46	36.83	0.70	0.24
PA6M49		36.10	-0.77	-0.20	35.50	-0.63	-0.22
PFQP2C		44.50	7.63	2.03	40.50	4.37	1.52
V7NBTY		40.35	3.48	0.93	40.25	4.12	1.43
WDVZJX		34.45	-2.42	-0.64	34.25	-1.88	-0.65
XRZNC3		37.80	0.93	0.25	34.50	-1.63	-0.57
ZWLNLA		33.93	-2.94	-0.78	37.20	1.07	0.37

**Grand Means**

36.867 g/L

**Summary Statistics**

36.129 g/L

**Std Dev Btwn Labs**

3.759 g/L

2.880 g/L

**Statistics based on 25 of 25 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 908

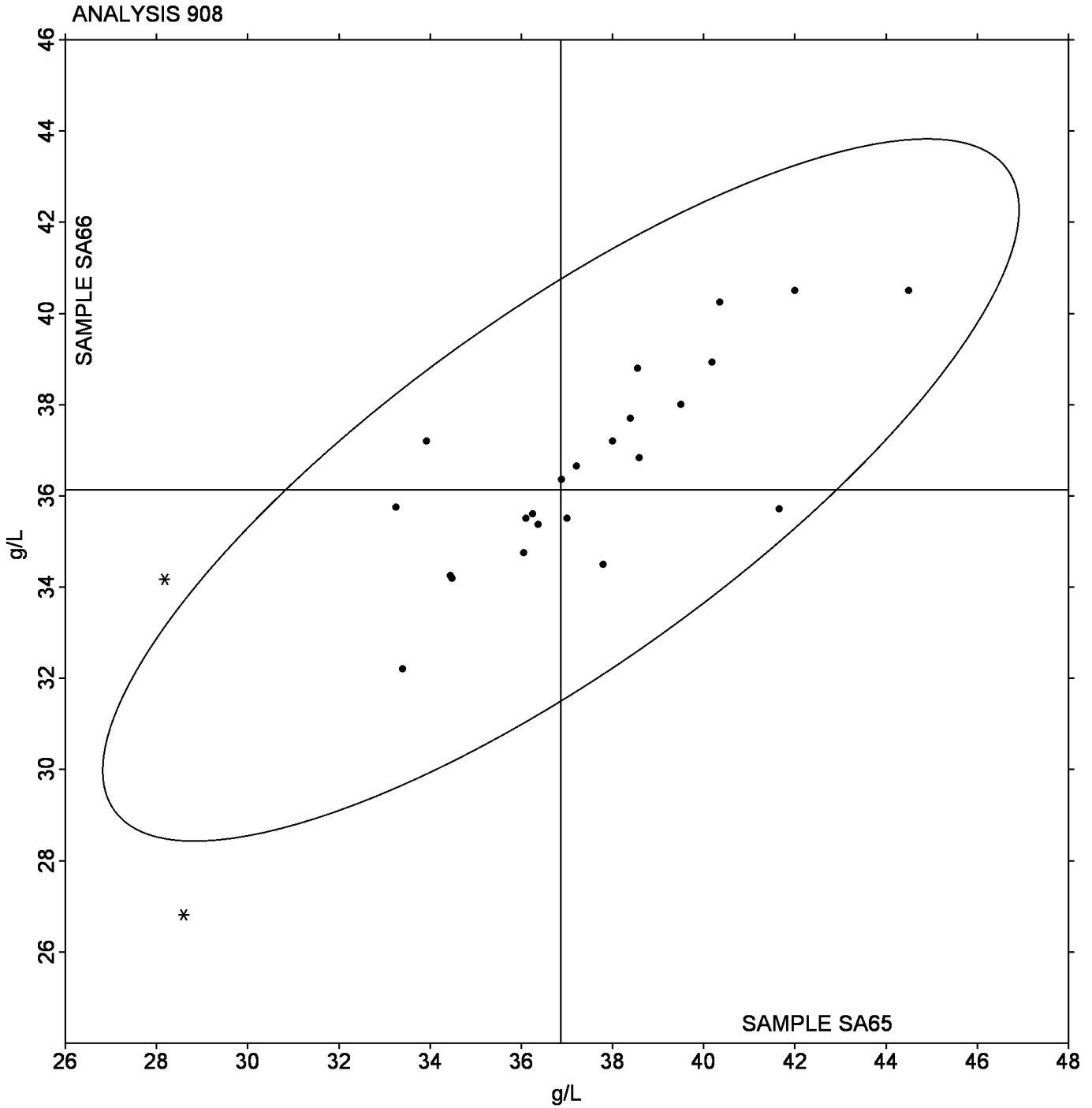
## Residual Sugar

## Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
Cu Reduction Method	37.54	2.89	0.67	36.45	1.97	0.32	18	19
Segmented Flow	39.13	4.07	2.26	38.05	3.46	1.92	2	2
FTIR	37.40	4.17	0.53	37.25	4.24	1.12	2	2
Other _____	36.10	0.00	-0.77	35.50	0.00	-0.63	1	2

Analysis 908

Residual Sugar



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 909**  
**L-Malic Acid**

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WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3AJBBN	X	3.150	0.506	2.01	3.450	0.822	3.16
3CGN3U		2.825	0.181	0.72	2.825	0.197	0.76
3J6CWY	*	2.025	-0.619	-2.47	1.955	-0.673	-2.58
3KXR8	X	3.008	0.364	1.45	2.736	0.108	0.42
3YJC9H		2.890	0.246	0.98	2.770	0.142	0.55
4VLJX6		2.577	-0.067	-0.27	2.603	-0.025	-0.10
7LMH9H	X	0.048	-2.596	-10.34	0.039	-2.588	-9.94
7QX6Q9		2.710	0.066	0.26	2.635	0.007	0.03
7XD6C7		2.430	-0.214	-0.85	2.440	-0.188	-0.72
8263N3		2.741	0.096	0.38	2.733	0.105	0.40
8UX4UT	X	2.190	-0.454	-1.81	2.375	-0.253	-0.97
8WKTZP		2.910	0.266	1.06	2.900	0.272	1.04
96L4MZ		2.700	0.056	0.22	2.650	0.022	0.08
9LP6GG		2.503	-0.141	-0.56	2.447	-0.181	-0.69
9RJ33Q		2.315	-0.329	-1.31	2.230	-0.398	-1.53
AMLCMK		2.305	-0.339	-1.35	2.270	-0.358	-1.37
BPGBNH		2.475	-0.169	-0.67	2.475	-0.153	-0.59
BPUCAJ		2.805	0.161	0.64	2.785	0.157	0.60
C6XE3P		2.685	0.041	0.16	2.725	0.097	0.37
CENWRH	X	3.765	1.121	4.46	3.780	1.152	4.42
CJ4UER		2.765	0.121	0.48	2.760	0.132	0.51
CLH2CU		2.735	0.091	0.36	2.680	0.052	0.20
CWQLZ9		2.815	0.171	0.68	2.860	0.232	0.89
D4LYGM		2.610	-0.034	-0.14	2.630	0.002	0.01
D98JZN		3.100	0.456	1.82	3.050	0.422	1.62
DDKQKW		2.700	0.056	0.22	2.600	-0.028	-0.11
DHKBR8		2.265	-0.379	-1.51	2.265	-0.363	-1.39
DKTMKU		2.721	0.076	0.30	2.703	0.075	0.29
E2NQBA		2.875	0.231	0.92	2.885	0.257	0.99
EAEXRA	X	1.289	-1.356	-5.40	1.280	-1.348	-5.18
EFA8TU	*	2.480	-0.164	-0.65	2.600	-0.028	-0.11
G9H2TP		2.669	0.024	0.10	2.665	0.037	0.14
GAWZV9		2.424	-0.220	-0.88	2.417	-0.211	-0.81
H8JR2E		2.545	-0.099	-0.40	2.510	-0.118	-0.45
KPFADA	*	2.005	-0.639	-2.55	2.015	-0.613	-2.35

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 909**  
**L-Malic Acid**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
KTEPJC		2.560	-0.084	-0.34	2.590	-0.038	-0.15
KWHVM4		2.980	0.336	1.34	3.055	0.427	1.64
LBBG8G		2.800	0.156	0.62	2.850	0.222	0.85
LEEHQ8		2.785	0.141	0.56	2.810	0.182	0.70
LLPHAH		2.890	0.246	0.98	2.780	0.152	0.58
M2Y4QR	*	3.221	0.577	2.30	3.275	0.647	2.48
MGCWF4		2.355	-0.289	-1.15	2.380	-0.248	-0.95
NBZ79V		2.739	0.095	0.38	2.716	0.088	0.34
NHKD42		2.645	0.001	0.00	2.585	-0.043	-0.16
QCTDTJ		2.775	0.131	0.52	2.735	0.107	0.41
QH8VYT		2.645	0.001	0.00	2.645	0.017	0.07
TNXJQF		2.835	0.191	0.76	2.770	0.142	0.55
UNFUZ9		2.670	0.026	0.10	2.670	0.042	0.16
UZ8G74		2.835	0.191	0.76	2.805	0.177	0.68
VK8JMW		2.340	-0.304	-1.21	2.270	-0.358	-1.37
WP3B8L		2.285	-0.359	-1.43	2.205	-0.423	-1.62
XHWTG8	X	3.480	0.836	3.33	3.270	0.642	2.46
XKGV9D		2.670	0.026	0.10	2.660	0.032	0.12
ZDEADV	X	2.523	-0.122	-0.48	2.720	0.092	0.35

**Grand Means**

2.6442 g/L

**Summary Statistics**

2.6279 g/L

**Std Dev Btwn Labs**

0.2511 g/L

0.2605 g/L

**Statistics based on 46 of 54 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

## Analysis 909

## L-Malic Acid

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**Comments on assigned Data Flags**

3AJBBN (X) - Inconsistent in testing between samples, data for Sample SA66 are high. Also inconsistent in testing within Sample SA65.

3KXRD8 (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA65.

7LMH9H (X) - Extreme data. Lab indicated reporting in mg/L, but data appear to be in mg/100mL.

8UX4UT (X) - Inconsistent in testing between samples.

CENWRH (X) - Data for both samples are high.

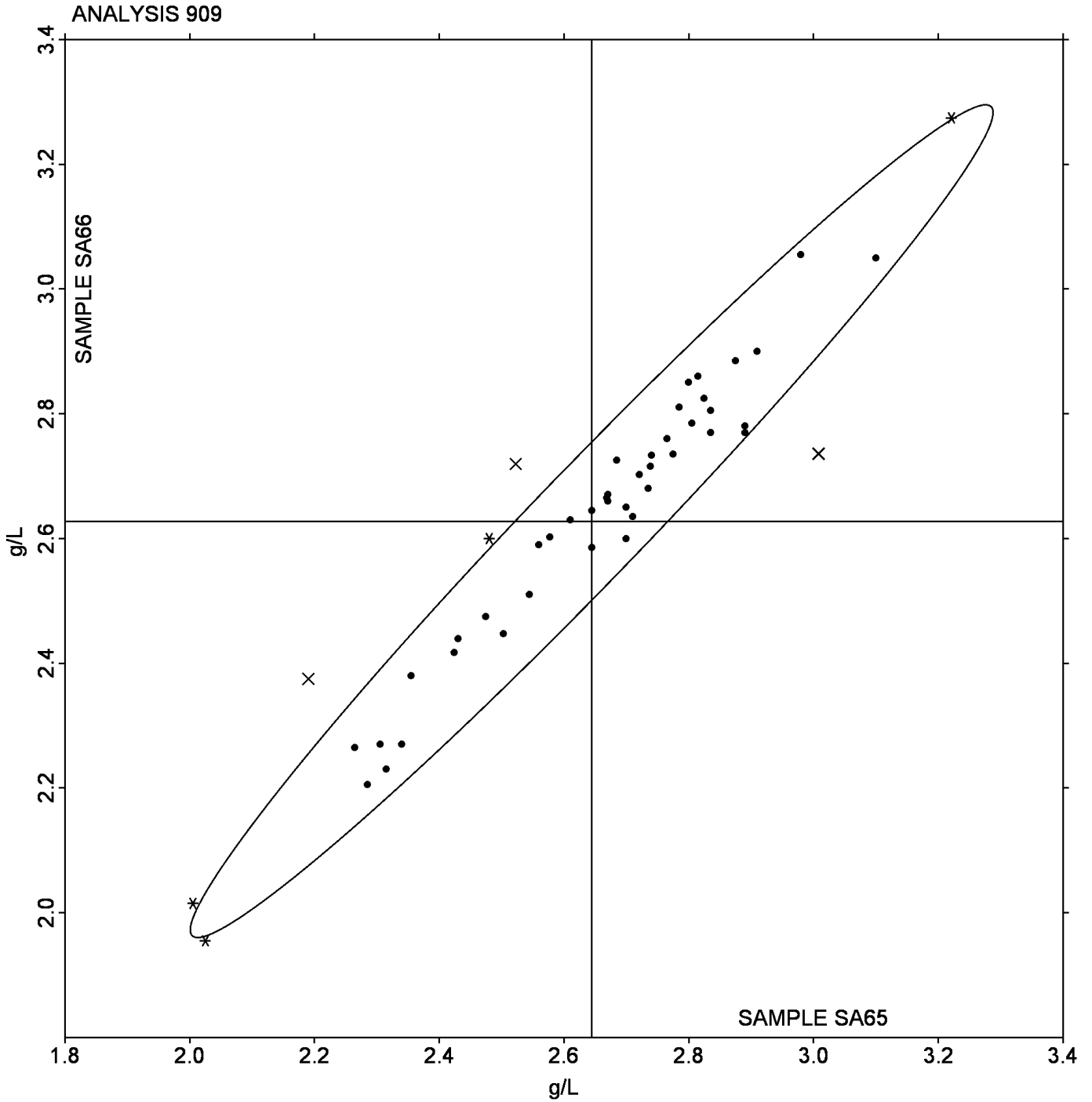
EAEXRA (X) - Data for both samples are low.

XHWTG8 (X) - Inconsistent in testing between samples, data for Sample SA65 are high.

ZDEADV (X) - Inconsistent in testing between samples and inconsistent within the determinations for Sample SA65.

Analysis 909

L-Malic Acid



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 910

## Glucose + Fructose

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2RUZGF	*	27.00	-8.67	-2.91	27.00	-8.46	-2.70
34FG28		34.90	-0.77	-0.26	33.80	-1.66	-0.53
3K983V		37.00	1.33	0.45	35.70	0.24	0.08
3QJ9L7		35.60	-0.07	-0.02	35.05	-0.41	-0.13
6GQGAX	X	19.20	-16.47	-5.52	17.58	-17.89	-5.72
7BLYQM		35.55	-0.12	-0.04	34.45	-1.01	-0.32
7GUVKJ		32.80	-2.87	-0.96	33.41	-2.05	-0.66
83EXAG		36.20	0.53	0.18	36.00	0.54	0.17
8GM368		38.70	3.03	1.02	37.80	2.34	0.75
8W2U4R		37.10	1.43	0.48	36.60	1.14	0.36
A2GCYE	*	27.09	-8.58	-2.88	26.07	-9.39	-3.00
A463TR		38.17	2.50	0.84	37.80	2.34	0.75
B22G3Y		35.60	-0.07	-0.02	37.04	1.57	0.50
B8UUBU	X	36.79	1.12	0.37	40.90	5.44	1.74
BTAKCW		36.35	0.68	0.23	35.80	0.34	0.11
BUJ38F		32.65	-3.02	-1.01	32.85	-2.61	-0.83
BZ6VL2		34.25	-1.42	-0.48	34.50	-0.96	-0.31
BZPKXU		38.20	2.53	0.85	38.75	3.29	1.05
C3TRFD		34.59	-1.08	-0.36	34.21	-1.25	-0.40
CMFXP2	X	12.91	-22.76	-7.63	13.03	-22.43	-7.17
CYW7PU		36.60	0.93	0.31	36.05	0.59	0.19
ENNNCB		36.45	0.78	0.26	37.92	2.45	0.78
FQXXAR		30.40	-5.27	-1.77	30.10	-5.36	-1.71
G9L3JC		29.00	-6.67	-2.24	28.00	-7.46	-2.38
H9EB62		34.48	-1.19	-0.40	34.35	-1.12	-0.36
HL9FPK		38.39	2.72	0.91	38.16	2.70	0.86
JL24L2		37.00	1.33	0.45	37.65	2.19	0.70
K2F9AT		38.30	2.63	0.88	38.00	2.54	0.81
KBBA7Y		38.70	3.03	1.02	38.55	3.09	0.99
M74PXG		36.89	1.22	0.41	36.15	0.69	0.22
M9MYHN		34.10	-1.57	-0.53	35.00	-0.46	-0.15
MU2W74		38.45	2.78	0.93	38.30	2.84	0.91
MX4F76		37.15	1.48	0.50	36.70	1.24	0.40
NWHPC6		38.04	2.37	0.80	37.89	2.42	0.77
P66BFG		37.10	1.43	0.48	36.45	0.99	0.32

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 910

## Glucose + Fructose

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
PRGZCJ	X	39.75	4.08	1.37	35.40	-0.06	-0.02
PXBXXU	X	33.24	-2.43	-0.82	36.34	0.88	0.28
PZKEL7		36.00	0.33	0.11	35.65	0.19	0.06
QBJYDH		39.25	3.58	1.20	39.30	3.84	1.23
QJEW7C		33.50	-2.17	-0.73	33.75	-1.71	-0.55
RF4M48	X	53.90	18.23	6.11	51.30	15.84	5.06
RN4EWG		36.25	0.58	0.19	35.83	0.37	0.12
TAQ4ED		38.17	2.50	0.84	37.78	2.32	0.74
UHK4GP		36.35	0.68	0.23	36.55	1.09	0.35
UJCLFY		36.30	0.63	0.21	36.00	0.53	0.17
V8EBBP	*	37.60	1.93	0.65	39.60	4.14	1.32
VPGE8E		36.65	0.98	0.33	36.60	1.14	0.36
W8FL6D		40.00	4.33	1.45	39.00	3.54	1.13
WNGTVY		36.50	0.83	0.28	35.70	0.24	0.08
XAV9QQ		30.85	-4.82	-1.62	29.70	-5.76	-1.84
ZD6MM2	X	8.32	-27.35	-9.17	8.27	-27.19	-8.69
ZXEA22		34.90	-0.77	-0.26	34.20	-1.26	-0.40

**Grand Means**

35.669 g/L

**Summary Statistics**

35.461 g/L

**Std Dev Btwn Labs**

2.982 g/L

3.130 g/L

**Statistics based on 45 of 52 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

Analysis 910

Glucose + Fructose

**Comments on assigned Data Flags**

6GQGAX (X) - Data for both samples are low.

B8UUUBU (X) - Inconsistent in testing between samples.

CMFXP2 (X) - Data for both samples are low.

PRGZCJ (X) - Inconsistent in testing between samples.

PXBXXU (X) - Inconsistent in testing between samples.

RF4M48 (X) - Data for both samples are high. Also inconsistent in testing within Sample SA65.

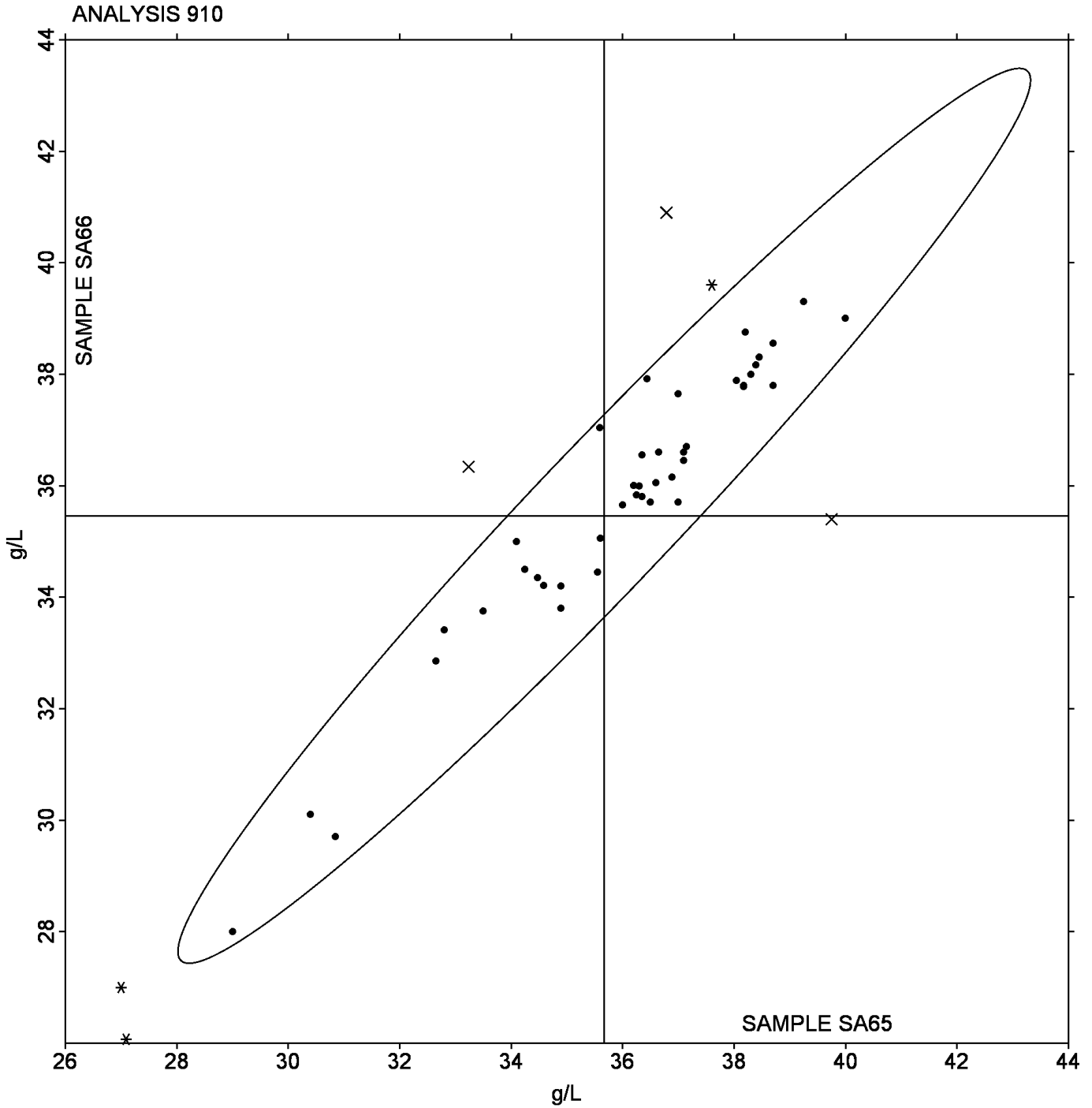
ZD6MM2 (X) - Data for both samples are low.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt	
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM		
HPLC	33.50	0.00	-2.17	33.75	0.00	-1.71	1	2
Enzymatic/Spectrophotometric	35.99	2.29	0.32	35.79	2.47	0.33	33	40
FTIR	36.28	3.01	0.61	35.76	2.79	0.30	7	8
Other _____	38.17	0.00	2.50	37.80	0.00	2.34	1	2

Analysis 910

Glucose + Fructose



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 915

## A420nm (1cm path)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
399DBD		0.3150	0.0065	0.97	0.3305	0.0046	0.56
4WGA2Y		0.3050	-0.0035	-0.52	0.3215	-0.0044	-0.52
63CENT		0.3180	0.0095	1.42	0.3325	0.0066	0.80
64X6HT		0.2980	-0.0105	-1.56	0.3100	-0.0159	-1.90
7JWG3U		0.2975	-0.0110	-1.64	0.3155	-0.0104	-1.24
7KTA89		0.3055	-0.0030	-0.45	0.3230	-0.0029	-0.34
8P6Y4A		0.3100	0.0015	0.23	0.3280	0.0021	0.26
8TC9QP	X	0.2610	-0.0475	-7.08	0.2750	-0.0509	-6.11
9QMZHA	X	0.0260	-0.2825	-42.15	0.0280	-0.2979	-35.76
B9JRA9	X	0.3825	0.0740	11.04	0.3780	0.0521	6.26
BDUETW	X	0.0210	-0.2875	-42.89	0.0760	-0.2499	-30.00
BFD6RU		0.3025	-0.0060	-0.89	0.3225	-0.0034	-0.40
BVWG79		0.3015	-0.0070	-1.04	0.3230	-0.0029	-0.34
C7URXG		0.3050	-0.0035	-0.52	0.3245	-0.0014	-0.16
CCE2XD		0.3080	-0.0005	-0.07	0.3210	-0.0049	-0.58
CLUZ9P	*	0.2950	-0.0135	-2.01	0.3005	-0.0254	-3.05
DC9ZMD	X	0.0290	-0.2795	-41.70	0.0380	-0.2879	-34.56
G39YDP		0.3020	-0.0065	-0.97	0.3230	-0.0029	-0.34
G6L92F		0.3040	-0.0045	-0.67	0.3240	-0.0019	-0.22
HC2FU6	X	0.0320	-0.2765	-41.25	0.0390	-0.2869	-34.44
J4ZAQ4		0.3140	0.0055	0.82	0.3280	0.0021	0.26
JKV4MA		0.3070	-0.0015	-0.22	0.3220	-0.0039	-0.46
JQBZXA	X	0.3085	0.0000	0.00	0.2850	-0.0409	-4.91
JWMP4		0.3095	0.0010	0.15	0.3300	0.0041	0.50
KMEMYQ		0.3125	0.0040	0.60	0.3375	0.0116	1.40
LLK7LL	X	0.3240	0.0155	2.32	0.3090	-0.0169	-2.02
MMLQEL		0.3090	0.0005	0.08	0.3315	0.0056	0.68
N97T4J	X	0.1827	-0.1258	-18.77	0.1906	-0.1353	-16.25
NFYADV		0.3180	0.0095	1.42	0.3390	0.0131	1.58
PCVUGH		0.3140	0.0055	0.82	0.3315	0.0056	0.68
QKKE69		0.3050	-0.0035	-0.52	0.3125	-0.0134	-1.60
RDLN7X		0.3085	0.0000	0.00	0.3265	0.0006	0.08
RZBX3J		0.3110	0.0025	0.38	0.3285	0.0026	0.32
VMDEDA	X	0.0795	-0.2290	-34.16	0.0810	-0.2449	-29.40
VV3UQW		0.3080	-0.0005	-0.07	0.3255	-0.0004	-0.04

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 915**  
**A420nm (1cm path)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
VVWKJ8	X	0.3160	0.0075	1.12	0.3535	0.0276	3.32
WJ6D4G		0.3105	0.0020	0.30	0.3285	0.0026	0.32
WPCCYL		0.3095	0.0010	0.15	0.3370	0.0111	1.34
WWQT6V		0.3030	-0.0055	-0.82	0.3195	-0.0064	-0.76
YBNKZP	X	0.0350	-0.2735	-40.80	0.0385	-0.2874	-34.50
YBVGX2	*	0.3245	0.0160	2.38	0.3356	0.0097	1.17
YVEN43		0.3220	0.0135	2.02	0.3340	0.0081	0.98
ZE9ZGP	X	0.5400	0.2315	34.54	0.5500	0.2241	26.91
ZLWJBH		0.3100	0.0015	0.23	0.3340	0.0081	0.98
ZQED9A		0.3085	0.0000	0.00	0.3270	0.0011	0.14

**Grand Means**

0.30848 Absorbance Units

**Summary Statistics**

0.32586 Absorbance Units

**Std Dev Btwn Labs**

0.00670 Absorbance Units

0.00833 Absorbance Units

**Statistics based on 32 of 45 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

Analysis 915

A420nm (1cm path)

**Comments on assigned Data Flags**

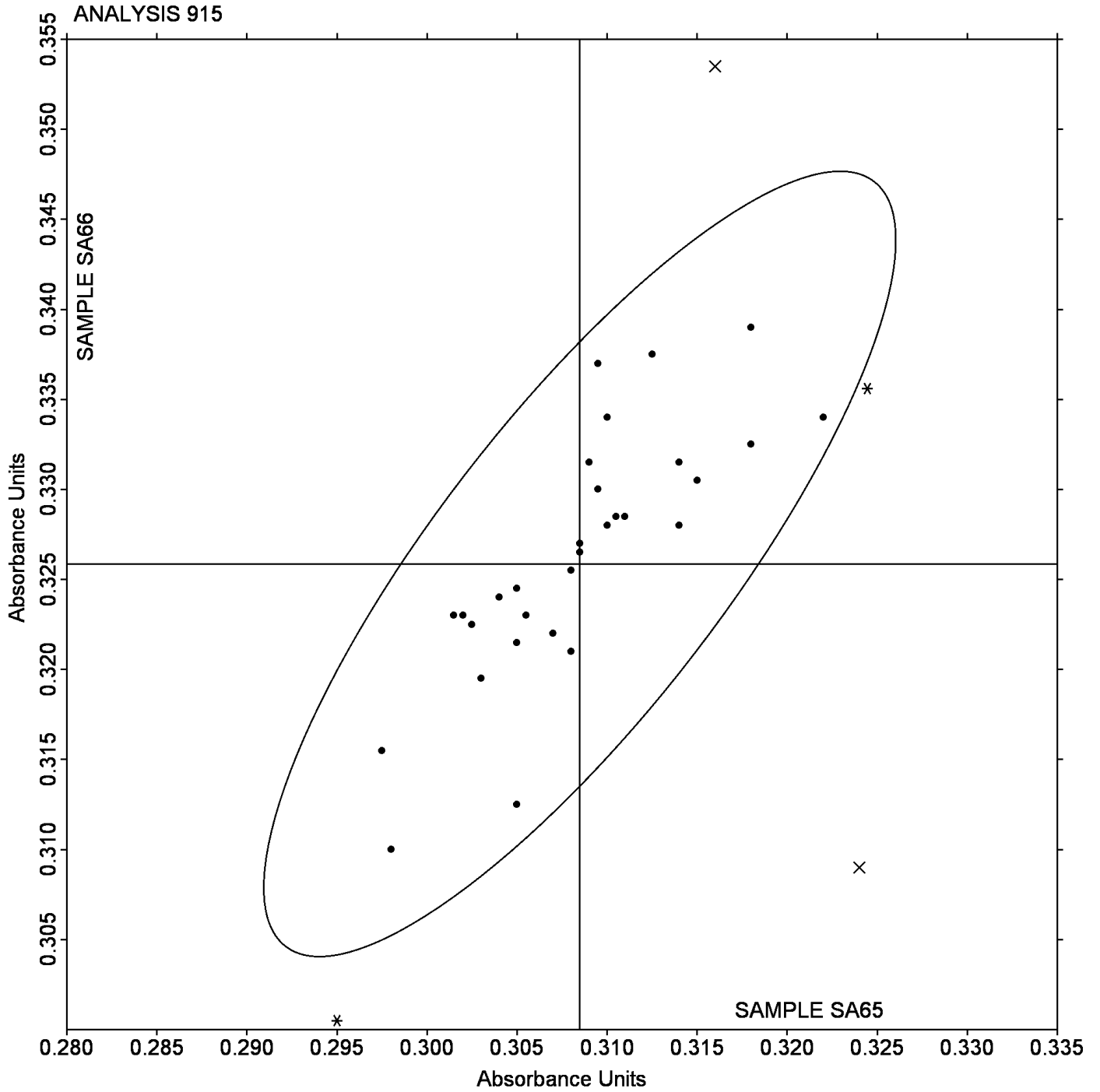
- 8TC9QP (X) - Data for both samples are low.
- 9QMZHA (X) - Data for both samples are low. Data may be off by a factor of 10.
- B9JRA9 (X) - Data for both samples are high.
- BDUETW (X) - Data for both samples are low. Data may be off by a factor of 10.
- DC9ZMD (X) - Data for both samples are low. Data may be off by a factor of 10.
- HC2FU6 (X) - Data for both samples are low. Data may be off by a factor of 10.
- JQBZXA (X) - Inconsistent in testing between samples, data for Sample SA66 are low.
- LLK7LL (X) - Inconsistent in testing between samples.
- N97T4J (X) - Data for both samples are low.
- VMDEDA (X) - Data for both samples are low.
- VVWKJ8 (X) - Data for both samples are high. Also inconsistent in testing within Sample SA66.
- YBNKZP (X) - Data for both samples are low. Data may be off by a factor of 10.
- ZE9ZGP (X) - Data for both samples are high.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Code not used by CTS at this time	0.3084	0.0057	-0.0001	0.3264	0.0070	0.0005	30 45

Analysis 915

A420nm (1cm path)



## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Analysis 916

## A520nm (1cm path)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
3MKYB6	X	0.2960	0.0133	1.88	0.2780	-0.0246	-3.31
3WWA9G	*	0.2890	0.0063	0.89	0.3180	0.0154	2.07
48U7PU		0.2850	0.0023	0.32	0.3050	0.0024	0.32
6AC3VE		0.2865	0.0038	0.53	0.3100	0.0074	0.99
6GZPQJ	X	0.5200	0.2373	33.68	0.5400	0.2374	31.93
6HUGQW		0.2785	-0.0042	-0.60	0.2975	-0.0051	-0.69
7NBUAB		0.2860	0.0033	0.46	0.3065	0.0039	0.52
86UJQ3		0.2830	0.0003	0.04	0.3075	0.0049	0.66
89LNPT	X	0.2435	-0.0392	-5.57	0.2510	-0.0516	-6.95
8AN4NC		0.2715	-0.0112	-1.59	0.2930	-0.0096	-1.30
96CYMH		0.2820	-0.0007	-0.10	0.2990	-0.0036	-0.49
9HTUP9	X	0.0180	-0.2647	-37.58	0.0200	-0.2826	-38.02
9YZN4H	X	0.0290	-0.2537	-36.02	0.0350	-0.2676	-36.01
AC276M	X	0.2390	-0.0437	-6.21	0.2510	-0.0516	-6.95
AKVXPE		0.2830	0.0003	0.04	0.2990	-0.0036	-0.49
CT699C		0.2870	0.0043	0.61	0.3060	0.0034	0.45
DMBDKT		0.2800	-0.0027	-0.39	0.3000	-0.0026	-0.35
DUXYY7	X	0.3385	0.0558	7.92	0.3485	0.0459	6.17
EEC7LJ		0.2940	0.0113	1.60	0.3125	0.0099	1.33
FE6EVM	X	0.3095	0.0268	3.80	0.3190	0.0164	2.20
FJ9YMD		0.2820	-0.0007	-0.10	0.3035	0.0009	0.12
G7BN3B		0.2815	-0.0012	-0.17	0.3020	-0.0006	-0.08
GWPWNT		0.2825	-0.0002	-0.03	0.3040	0.0014	0.18
GZQXQB	X	0.3215	0.0388	5.50	0.3005	-0.0021	-0.29
H77DZE		0.2780	-0.0047	-0.67	0.2970	-0.0056	-0.76
HFRU2Z		0.2880	0.0053	0.75	0.3140	0.0114	1.53
K2AYDM		0.2900	0.0073	1.03	0.3075	0.0049	0.66
LFWM2J		0.2800	-0.0027	-0.39	0.3030	0.0004	0.05
M3AAMT	X	0.0210	-0.2617	-37.15	0.0720	-0.2306	-31.03
PA762Q		0.2880	0.0053	0.75	0.3070	0.0044	0.59
Q6RRUA		0.2725	-0.0102	-1.45	0.2930	-0.0096	-1.30
RDDGLW	X	0.0335	-0.2492	-35.38	0.0350	-0.2676	-36.01
T4CPZU		0.2920	0.0093	1.32	0.3095	0.0069	0.92
TD7PWY		0.2800	-0.0027	-0.39	0.3000	-0.0026	-0.35
UDA47J		0.2805	-0.0022	-0.32	0.3005	-0.0021	-0.29

**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 916**  
**A520nm (1cm path)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
UHZVGG		0.2840	0.0013	0.18	0.3025	-0.0001	-0.02
VD3CR9	X	0.0695	-0.2132	-30.27	0.0705	-0.2321	-31.23
VKGTXH		0.2795	-0.0032	-0.46	0.3005	-0.0021	-0.29
X7K2QX		0.2790	-0.0037	-0.53	0.3030	0.0004	0.05
XCCNTD	*	0.2620	-0.0207	-2.94	0.2820	-0.0206	-2.78
XEYPRR		0.2852	0.0025	0.35	0.3005	-0.0021	-0.29
Z3FKN8	X	0.1974	-0.0853	-12.11	0.1993	-0.1034	-13.91
Z6VQLL	X	0.0300	-0.2527	-35.88	0.0360	-0.2666	-35.87
ZJEC82	*	0.2990	0.0163	2.31	0.3100	0.0074	0.99
ZPPTYX		0.2755	-0.0072	-1.03	0.2880	-0.0146	-1.97

**Grand Means**

0.28273 Absorbance Units

**Summary Statistics**

0.30263 Absorbance Units

**Std Dev Btwn Labs**

0.00704 Absorbance Units

0.00743 Absorbance Units

**Statistics based on 31 of 45 reporting participants**

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

**Analysis 916**

**A520nm (1cm path)**

**Comments on assigned Data Flags**

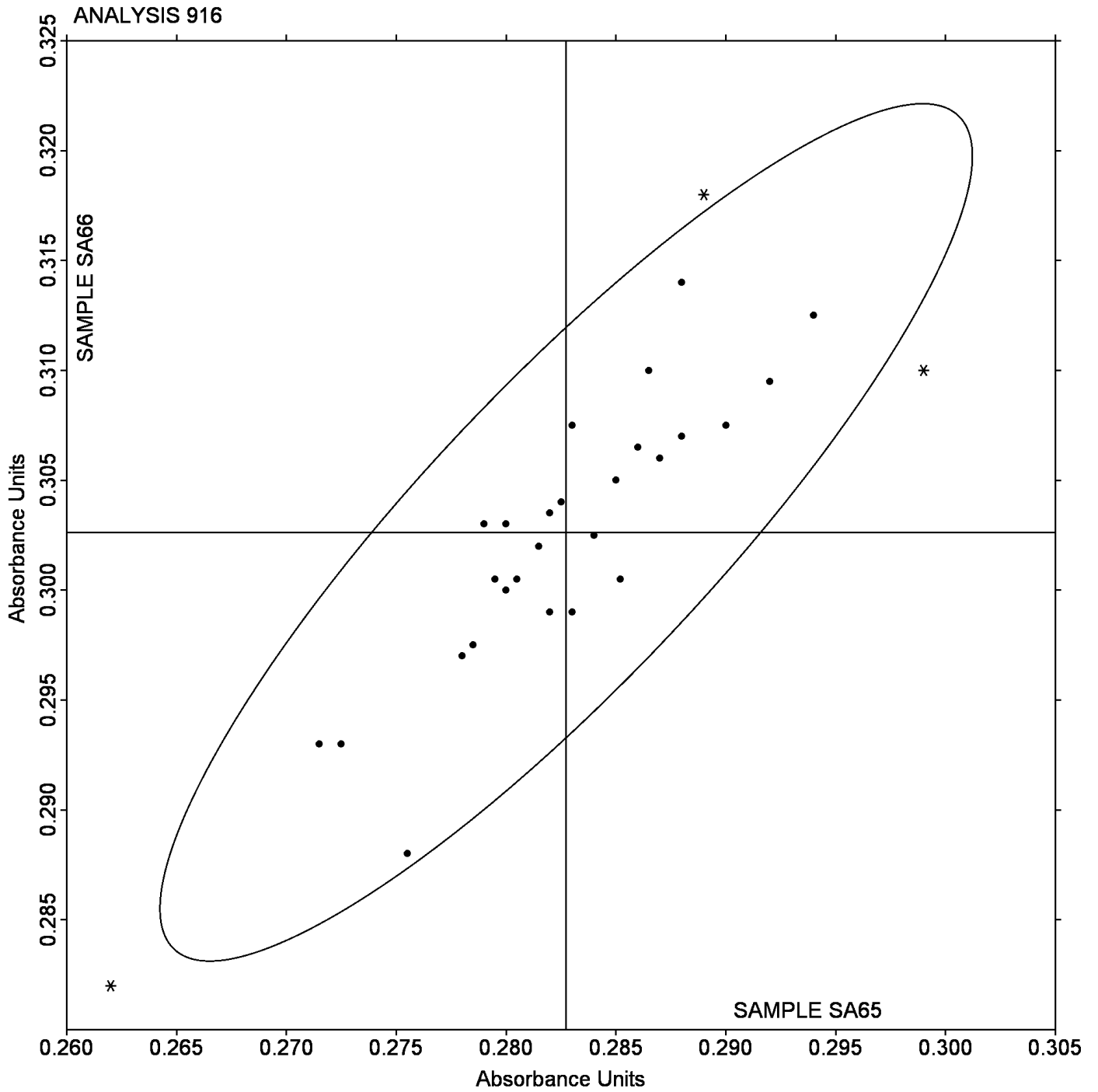
- 3MKYB6 (X) - Inconsistent in testing between samples, data for Sample SA66 are low.
- 6GZPQJ (X) - Data for both samples are high.
- 89LNPT (X) - Data for both samples are low. Also inconsistent in testing within both samples.
- 9HTUP9 (X) - Data for both samples are low. Data may be off by a factor of 10.
- 9YZN4H (X) - Data for both samples are low. Data may be off by a factor of 10.
- AC276M (X) - Data for both samples are low.
- DUXYY7 (X) - Data for both samples are high.
- FE6EVM (X) - Inconsistent in testing between samples, data for Sample SA65 are high. Also inconsistent in testing within Sample SA65.
- GZQXQB (X) - Inconsistent in testing between samples, data for Sample SA65 are high.
- M3AAMT (X) - Data for both samples are low. Data may be off by a factor of 10.
- RDDGLW (X) - Data for both samples are low. Data may be off by a factor of 10.
- VD3CR9 (X) - Data for both samples are low.
- Z3FKN8 (X) - Data for both samples are low.
- Z6VQLL (X) - Data for both samples are low. Data may be off by a factor of 10.

**Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>White Zinfandel</i>			Sample SA66 <i>White Zinfandel</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Code not used by CTS at this time	0.2827	0.0053	-0.0001	0.3026	0.0059	-0.0001	28 45

Analysis 916

A520nm (1cm path)



## ASEV-CTS Wine Industry Interlaboratory Testing Program

### Research Property 950

#### Research Property - Copper (Cu) Content

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
8T2ZBB		0.3300	0.0348	11.8%	0.3900	0.0883	29.3%
AA4KVW		0.2400	-0.0552	-18.7%	0.2600	-0.0417	-13.8%
EUU8MM		0.2700	-0.0252	-8.5%	0.2750	-0.0267	-8.8%
F3DTJQ		0.3000	0.0048	1.6%	0.3100	0.0083	2.8%
HRV9VT		0.3810	0.0858	29.1%	0.3835	0.0818	27.1%
KYL6GY		0.2750	-0.0202	-6.8%	0.2800	-0.0217	-7.2%
LLRKLM		0.2800	-0.0152	-5.1%	0.2800	-0.0217	-7.2%
LMN73K		0.3050	0.0098	3.3%	0.3200	0.0183	6.1%
PA7NY7		0.3200	0.0248	8.4%	0.3200	0.0183	6.1%
Q8Y743		0.3040	0.0088	3.0%	0.3045	0.0028	0.9%
UPNFX2		0.4730	0.1778	60.2%	0.3680	0.0663	22.0%
VCHQE7		0.2600	-0.0352	-11.9%	0.2800	-0.0217	-7.2%
VT8EQA		0.2855	-0.0097	-3.3%	0.2920	-0.0097	-3.2%
XT3HP3		0.1850	-0.1102	-37.3%	0.1800	-0.1217	-40.3%
Z38DTK		0.3100	0.0148	5.0%	0.3200	0.0183	6.1%
ZADTQ7		0.2635	-0.0317	-10.7%	0.2760	-0.0257	-8.5%

#### Research Property Target Value

Target Value

0.29520 mg/L

0.30170 mg/L

*CTS has chosen to designate a target value for this property instead of using an average value. The target value was calculated from the average of designated laboratories accredited under ISO 17025 with the differences between those laboratories being less than 10% of the target value.*

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

Consensus Average  
(may differ from target value)

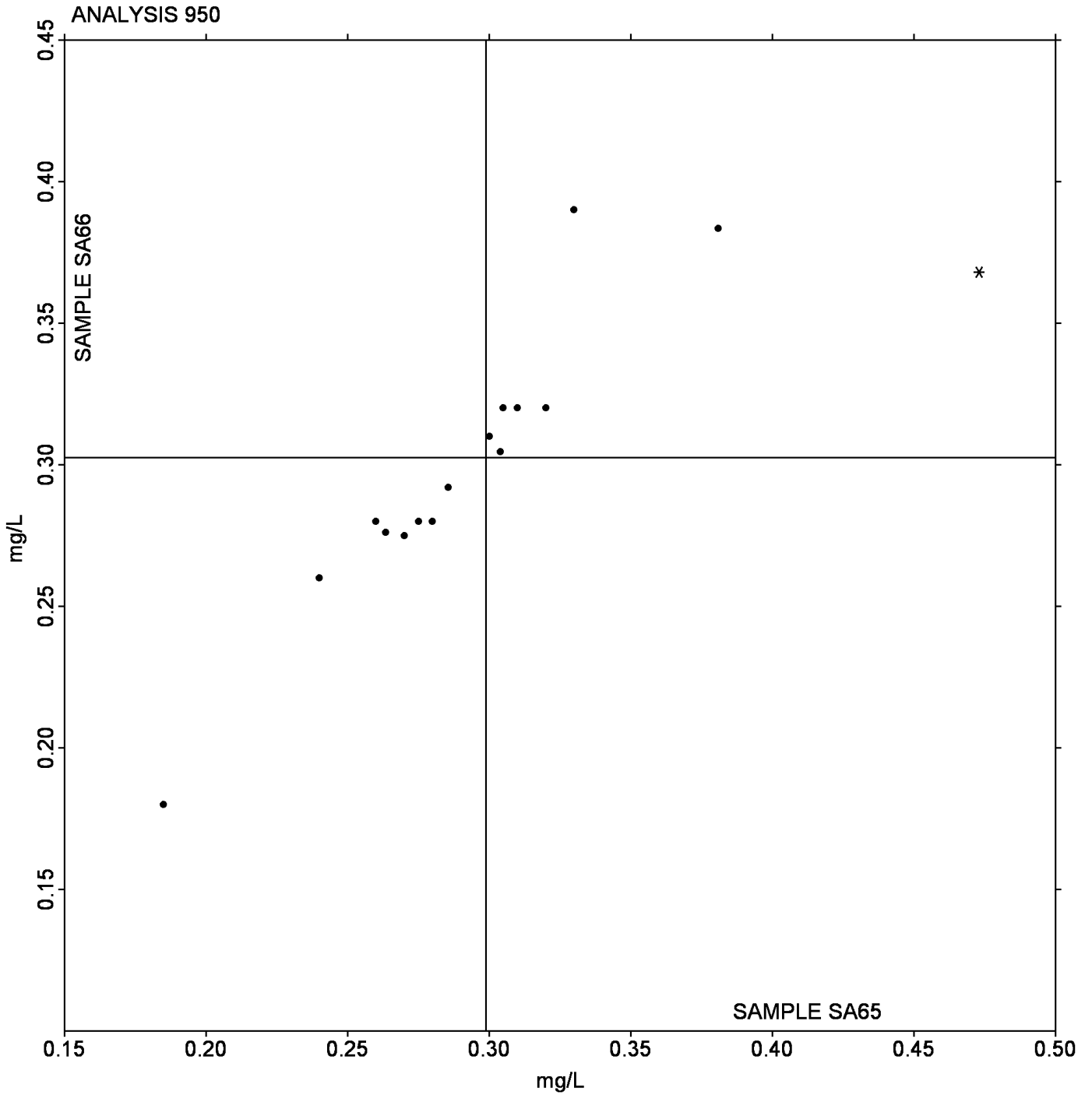
0.29888 mg/L

0.30244 mg/L

*This consensus average is based on 16 reporting participants.*

Research Property 950

Research Property - Copper (Cu) Content



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

## ASEV-CTS Wine Industry Interlaboratory Testing Program

## Research Property 951

## Research Property: Sorbate

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Target Value	% Diff from Target Value	Lab Mean	Diff from Target Value	% Diff from Target Value
2GAXCW		169.5	2.5	1.5%	184.0	10.6	6.1%
2Y922E		159.0	-8.0	-4.8%	171.0	-2.4	-1.4%
3FTNRF		153.0	-14.0	-8.4%	172.5	-0.9	-0.5%
6F6B9L		155.0	-12.0	-7.2%	168.0	-5.3	-3.1%
6F6PJD		158.0	-9.0	-5.4%	189.0	15.6	9.0%
97LFRL		164.0	-3.0	-1.8%	177.0	3.6	2.1%
9YP9ZM		164.0	-3.0	-1.8%	175.5	2.1	1.2%
9YVDYY		162.5	-4.5	-2.7%	173.5	0.1	0.1%
B2W62V		181.5	14.5	8.7%	174.0	0.6	0.4%
DPF6C7		160.0	-7.0	-4.2%	170.0	-3.4	-1.9%
DPQY3E		163.0	-4.0	-2.4%	177.0	3.6	2.1%
DW7MGN		170.5	3.5	2.1%	174.5	1.1	0.7%
HALYHZ		177.0	10.0	6.0%	161.5	-11.9	-6.8%
HHK7AR		167.6	0.6	0.4%	178.4	5.0	2.9%
L66D2A		140.0	-27.0	-16.2%	141.0	-32.4	-18.7%
LGKLZ3		304.2	137.2	82.2%	180.6	7.2	4.2%
LY3KB9		154.5	-12.5	-7.5%	162.0	-11.4	-6.6%
MAHRM3		173.0	6.0	3.6%	190.0	16.6	9.6%
N87EFJ		158.5	-8.5	-5.1%	164.0	-9.4	-5.4%
Q9RDR2		162.0	-5.0	-3.0%	176.0	2.6	1.5%
R8Y38C		157.5	-9.5	-5.7%	167.5	-5.9	-3.4%
T8RBHF		174.5	7.5	4.5%	186.0	12.6	7.3%
VZNXYP		176.0	9.0	5.4%	176.5	3.1	1.8%
ZN96B7		204.0	37.0	22.2%	218.0	44.6	25.7%

## Research Property 951

## Research Property: Sorbate

## Research Property Target Value

Target Value

167.00 mg/L

173.37 mg/L

*CTS has chosen to designate a target value for this property instead of using an average value. The target value was calculated from the average of designated laboratories accredited under ISO 17025 with the differences between those laboratories being less than 10% of the target value.*

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

Consensus Average  
(may differ from target value)

165.42 mg/L

175.08 mg/L

*This consensus average is based on 23 reporting participants.*

**Comments on assigned Data Flags**

LGKLZ3 (X) - High data for Sample SA65.



**ASEV-CTS Wine Industry Interlaboratory Testing Program**  
**Analysis 952**  
**Research Property: Methanol**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
6WW42Y		79.14	-17.37	-0.94	79.14	-16.91	-0.94
8EL7QY		98.00	1.49	0.08	96.50	0.45	0.03
8FUNLH		115.48	18.97	1.02	120.49	24.44	1.36
9TJW9A		110.00	13.49	0.73	97.50	1.45	0.08
ABXBYQ		95.50	-1.01	-0.05	92.50	-3.55	-0.20
D7TNZJ		106.50	9.99	0.54	107.00	10.95	0.61
GUIJXE		98.00	1.49	0.08	98.00	1.95	0.11
HRHNC9		45.00	-51.51	-2.78	49.50	-46.55	-2.59
KEQMY Y		98.00	1.49	0.08	99.00	2.95	0.16
KMU29L		101.00	4.49	0.24	100.00	3.95	0.22
Q74HVF		89.50	-7.01	-0.38	87.00	-9.05	-0.50
TTQ828		117.00	20.49	1.11	119.50	23.45	1.30
V3NHUF	X	0.15	-96.36	-5.20	0.15	-95.90	-5.33
ZBNVET		101.50	4.99	0.27	102.50	6.45	0.36

**Research Property Target Value**

Target Value

95.530 mg/L

94.660 mg/L

*CTS has chosen to designate a target value for this property instead of using an average value. The target value was calculated from the average of designated laboratories accredited under ISO 17025 with the differences between those laboratories being less than 10% of the target value.*

Wines tested: SA65: White Zinfandel; SA66: White Zinfandel

Consensus Average  
(may differ from target value)

96.509 mg/L

96.048 mg/L

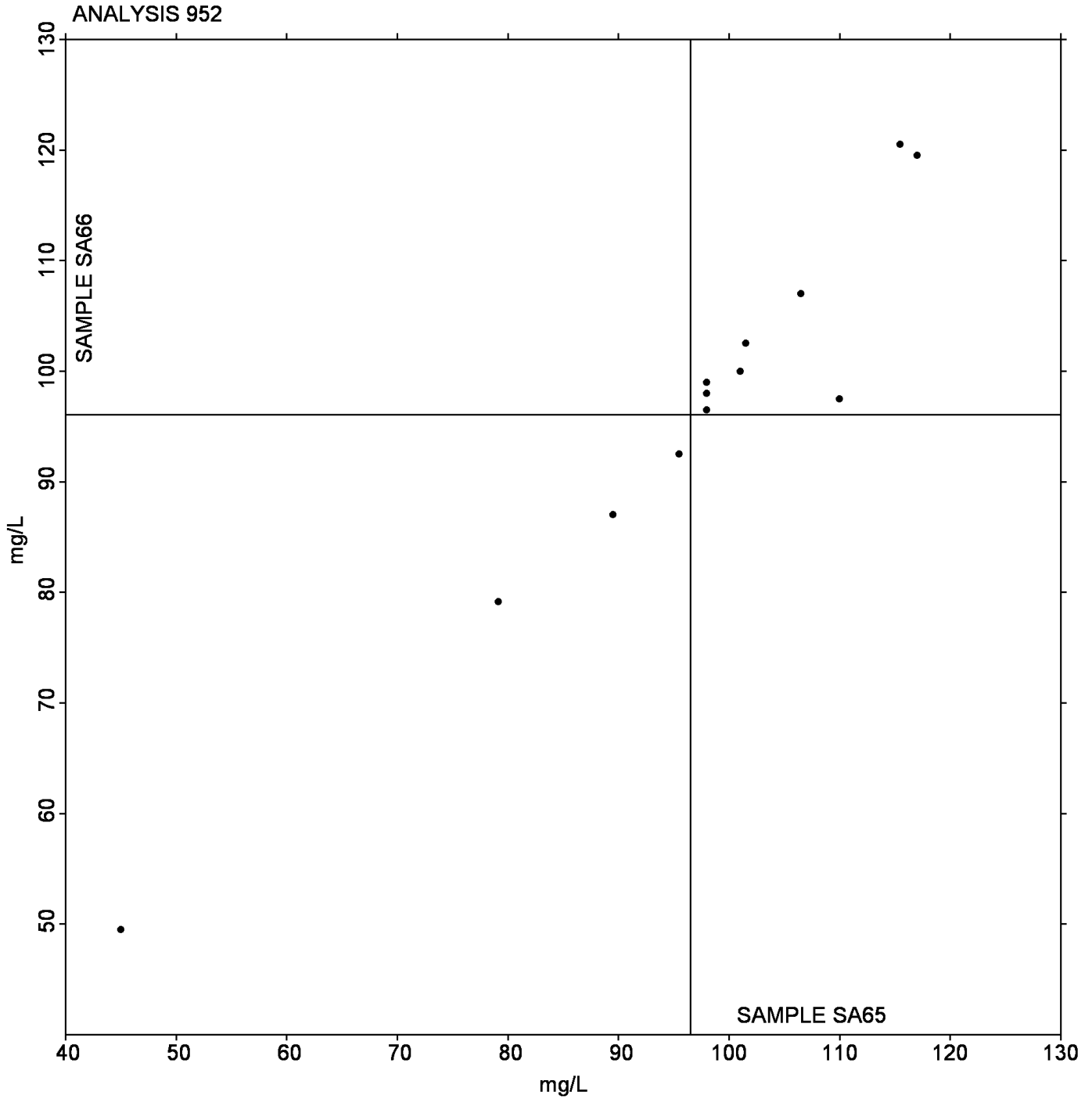
*This consensus average is based on 13 reporting participants.*

**Comments on assigned Data Flags**

V3NHUF (X) - Data for both samples are low.

Analysis 952

Research Property: Methanol



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