

Wine Industry Interlaboratory Program

Summary Report #083 - Summer 2026

[Introduction to the Wine Program](#)

[Explanation of Tables and Definitions of Terms](#)

Analysis	Analysis Name
<u>9001</u>	<u>Ethanol (% of volume)</u>
<u>9005</u>	<u>Methanol</u>
<u>9020</u>	<u>Total Sulfur Dioxide</u>
<u>9021</u>	<u>Free Sulfur Dioxide</u>
<u>9022</u>	<u>L-Malic Acid</u>
<u>9024</u>	<u>Citric Acid</u>
<u>9027</u>	<u>pH</u>
<u>9030</u>	<u>Titrateable Acidity (8.2)</u>
<u>9032</u>	<u>Volatile Acidity</u>
<u>9040</u>	<u>Specific Gravity</u>
<u>9045</u>	<u>Turbidity</u>
<u>9050</u>	<u>Residual Sugar</u>
<u>9051</u>	<u>Glucose + Fructose</u>
<u>9060</u>	<u>Copper (Cu)</u>
<u>9061</u>	<u>Potassium (K)</u>
<u>9065</u>	<u>Iron (Fe)</u>
<u>9092</u>	<u>A420nm (1 cm path)</u>
<u>9093</u>	<u>A520nm (1 cm path)</u>
<u>9100</u>	<u>Calories</u>
<u>9025</u>	<u>Research: L-Lactic Acid</u>
<u>9042</u>	<u>Research: Total Dry Extract</u>

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 Ad Hoc Committee. 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 industries including color, rubber, plastics, fasteners and metals, containerboard, paper, agriculture, hemp, and wine, 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 100 countries, currently participate in the CTS programs.

For further information concerning this report contact:

**Collaborative Testing Services, Inc.
21331 Gentry Drive
Sterling, Virginia 20166 USA**

**+1-571-434-1925
wine@cts-interlab.com**

Office Hours: 8:00 a.m. - 4:30 p.m. ET

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 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.
Lab Mean	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.
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:

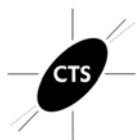
<u>DATA FLAG</u>	<u>STATISTICALLY INCLUDED/EXCLUDED</u>	<u>ACTION REQUIRED</u>
*	INCLUDED	CAUTION - Review testing procedure and monitor future results. Results fall outside 95% ellipse but within a 99% ellipse that is calculated but not drawn.
X	EXCLUDED	STOP - Immediate review of data and/or testing 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 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.

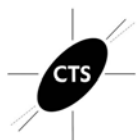
Common Problems Highlighted in Footnotes

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.

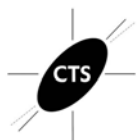
Labs flagged with an * are not typically included in the footnotes of a data table. These labs may locate their position in the control ellipse and use the definitions above to help identify the type of testing error. An * should serve as a caution flag, a "yellow light", to a lab. If this error is repeated 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****Report #083****Summer 2026****Analysis 9001****Ethanol (% of volume)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		13.63	0.00	-0.07	13.86	0.02	0.23
28BBHK		13.61	-0.02	-0.39	13.81	-0.03	-0.51
2B9PAF	X	13.79	0.15	2.41	14.09	0.25	3.64
2XMB7G		13.80	0.17	2.62	14.01	0.16	2.36
43P7YF		13.60	-0.03	-0.55	13.82	-0.02	-0.36
67JLNE		13.60	-0.03	-0.55	13.81	-0.03	-0.51
6HEQWE		13.59	-0.05	-0.78	13.79	-0.05	-0.80
6M73RB		13.64	0.00	0.01	13.85	0.01	0.08
6UTPMG		13.64	0.00	0.01	13.85	0.01	0.08
7WWK7J		13.59	-0.04	-0.70	13.81	-0.03	-0.51
8LQFB9		13.66	0.03	0.40	13.91	0.07	0.96
8M236F		13.63	0.00	-0.07	13.85	0.00	0.01
8NC4QE		13.67	0.04	0.56	13.84	0.00	-0.07
8WRMBE		13.61	-0.02	-0.39	13.82	-0.02	-0.36
8XM7CF		13.60	-0.03	-0.55	13.80	-0.04	-0.65
9NV8YE		13.61	-0.03	-0.47	13.80	-0.05	-0.73
AD8TEA		13.63	-0.01	-0.15	13.82	-0.02	-0.36
AKP237		13.64	0.01	0.09	13.85	0.01	0.08
ANQA4A	X	13.60	-0.03	-0.55	13.60	-0.24	-3.59
APWR26	X	13.78	0.15	2.30	13.93	0.08	1.18
AUC3EA	*	13.57	-0.06	-1.02	13.72	-0.13	-1.90
AYAG76		13.65	0.01	0.17	13.91	0.06	0.89
AZJTHF		13.60	-0.04	-0.63	13.81	-0.03	-0.51
B6BD3B		13.62	-0.01	-0.23	13.83	-0.02	-0.29
BAZZUA		13.64	0.00	0.01	13.84	-0.01	-0.14
BEUURB		13.61	-0.03	-0.47	13.82	-0.02	-0.36
BHEL3D		13.63	0.00	-0.07	13.84	0.00	-0.07
CDYBPA		13.57	-0.06	-1.02	13.80	-0.04	-0.65
CQRWV6		13.66	0.03	0.40	13.88	0.03	0.45
D7GGT4		13.64	0.00	0.01	13.83	-0.02	-0.29
DJYAD4		13.66	0.02	0.32	13.87	0.02	0.30
EKUE84	*	13.43	-0.21	-3.31	13.62	-0.23	-3.37
ERF6X6		13.72	0.08	1.27	13.93	0.08	1.18
EVEGU6	X	13.62	-0.02	-0.31	13.66	-0.18	-2.71
EZ37A9		13.58	-0.05	-0.86	13.77	-0.07	-1.09

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Analysis 9001****Summer 2026****Ethanol (% of volume)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F2VCAY		13.67	0.04	0.56	13.89	0.05	0.67
FA8DP9		13.59	-0.05	-0.78	13.80	-0.05	-0.73
FA9BZ4	*	13.46	-0.18	-2.84	13.63	-0.21	-3.15
FHJPL7		13.64	0.01	0.09	13.85	0.00	0.01
FWMVW6	X	13.25	-0.38	-6.08	13.35	-0.49	-7.26
G3MUKY		13.77	0.14	2.14	13.99	0.15	2.14
GGP4N9		13.61	-0.03	-0.47	13.82	-0.03	-0.43
GK32Z2		13.68	0.05	0.72	13.90	0.05	0.74
GPVB49		13.64	0.01	0.09	13.85	0.01	0.08
GTZVXZ		13.58	-0.05	-0.86	13.82	-0.02	-0.36
GWGZQ4		13.65	0.02	0.24	13.88	0.03	0.45
H2AKBY		13.53	-0.10	-1.65	13.78	-0.06	-0.95
H8X83X		13.66	0.03	0.40	13.87	0.03	0.37
HC8KN3	X	13.62	-0.02	-0.31	13.71	-0.14	-2.05
HMLKE6		13.68	0.04	0.64	13.89	0.04	0.59
J223LY		13.70	0.07	1.04	13.91	0.07	0.96
JL89FZ		13.63	0.00	-0.07	13.84	0.00	-0.07
JQHLXY		13.72	0.09	1.35	13.93	0.09	1.25
K8LF6X		13.63	-0.01	-0.15	13.83	-0.01	-0.21
KH8JCX		13.73	0.09	1.43	13.95	0.10	1.48
L2CN97	*	13.74	0.11	1.67	14.01	0.16	2.36
LTJ9QT		13.67	0.03	0.48	13.87	0.03	0.37
LYPYTY		13.58	-0.05	-0.86	13.80	-0.04	-0.65
M8HG32		13.75	0.12	1.83	13.96	0.12	1.70
MEGWUU		13.65	0.02	0.24	13.86	0.02	0.23
MGKRDY		13.60	-0.04	-0.63	13.77	-0.08	-1.17
MHG9QU		13.60	-0.03	-0.55	13.82	-0.02	-0.36
MXA3WT	X	13.44	-0.19	-3.08	13.59	-0.25	-3.74
N4RUKX		13.66	0.03	0.40	13.88	0.03	0.45
N9PACU		13.68	0.04	0.64	13.89	0.04	0.59
NLTHCW		13.54	-0.09	-1.50	13.79	-0.05	-0.80
PC2JYW		13.67	0.04	0.56	13.88	0.04	0.52
PDW3ZX		13.58	-0.05	-0.86	13.78	-0.06	-0.95
Q474MX		13.64	0.00	0.01	13.83	-0.01	-0.21
QAAZCP		13.66	0.02	0.32	13.86	0.02	0.23



Analysis 9001

Ethanol (% of volume)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
R9EGBN		13.62	-0.02	-0.31	13.86	0.02	0.23
REKDUN		13.51	-0.13	-2.05	13.72	-0.12	-1.83
RP4UHN	X	13.40	-0.23	-3.71	13.30	-0.54	-8.00
RXXWQR	X	13.70	0.06	0.96	13.99	0.14	2.06
TJ9JLV		13.65	0.01	0.17	13.85	0.01	0.08
TVN82M		13.67	0.04	0.56	13.88	0.04	0.52
TZH2YN		13.60	-0.03	-0.55	13.80	-0.04	-0.65
UVFPCM		13.70	0.07	1.04	13.92	0.08	1.11
UVJ9YQ		13.74	0.11	1.67	13.92	0.08	1.11
WRULHM		13.71	0.08	1.19	13.92	0.08	1.11
WWR29J		13.61	-0.02	-0.39	13.83	-0.01	-0.21
X9UTAU		13.65	0.02	0.24	13.85	0.01	0.08
XCZE4L		13.70	0.07	1.04	13.90	0.05	0.74
XZ4BVL	X	13.52	-0.12	-1.89	13.84	0.00	-0.07

Grand Means

13.635 percent

Summary Statistics

13.845 percent

Std Dev Btwn Labs

0.063 percent

0.068 percent

Statistics based on 74 of 84 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9001

HC8KN3 (X) - Inconsistent in testing between samples.

2B9PAF (X) - Inconsistent in testing, data for sample SA66 are high.

EVEGU6 (X) - Inconsistent in testing between samples.

RXXWQR (X) - Inconsistent in testing between samples.

XZ4BVL (X) - Inconsistent in testing between samples.

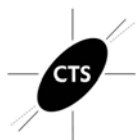
FWMVW6 (X) - Data for both samples are low. Possible Systematic Error.

ANQA4A (X) - Inconsistent in testing, data for sample SA66 are low.

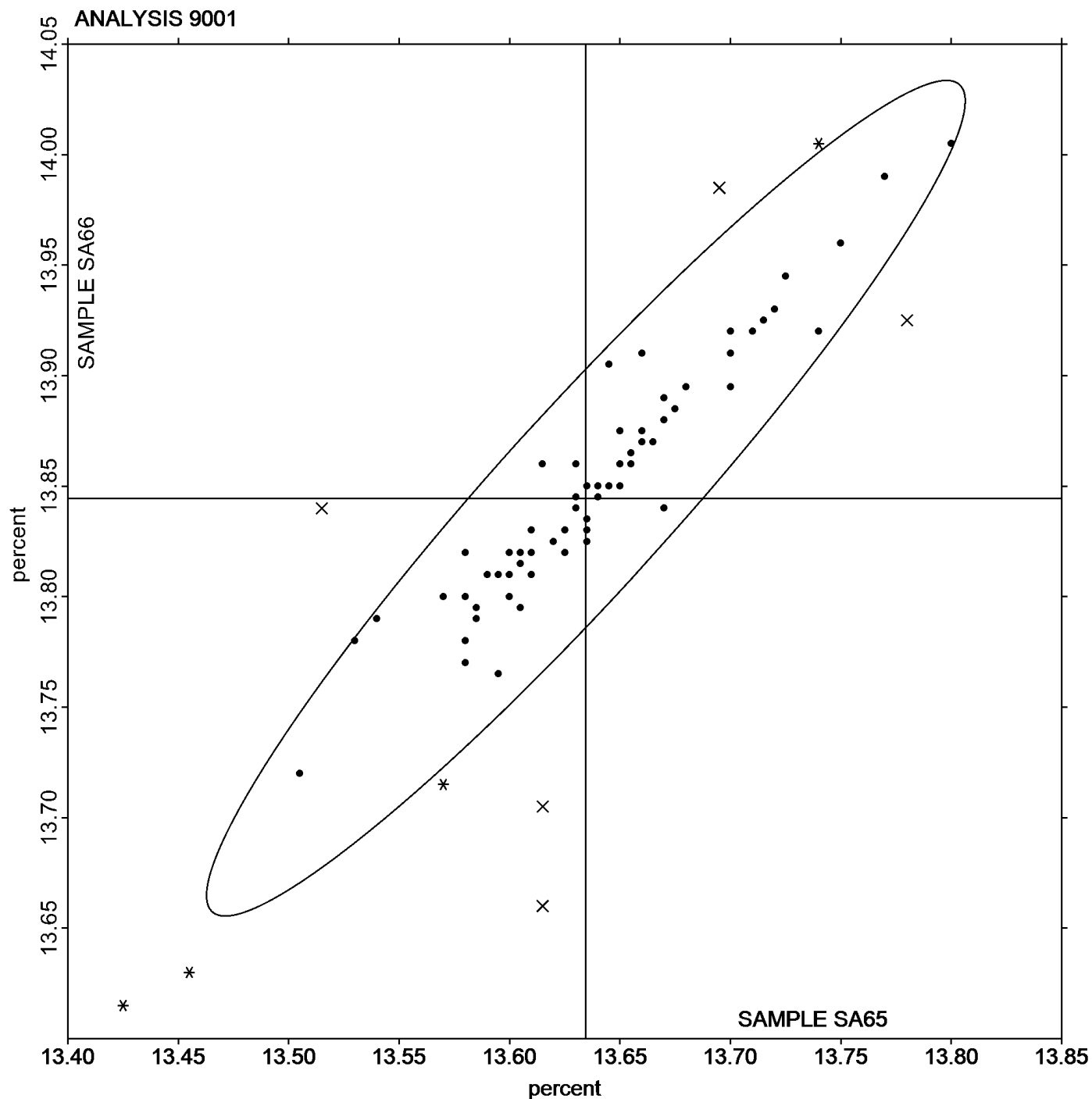
MXA3WT (X) - Data for both samples are low. Possible Systematic Error.

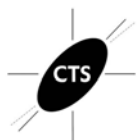
APWR26 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA66.

RP4UHN (X) - Data for both samples are low. Inconsistent within the determinations of both samples.

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Analysis 9001****Summer 2026****Ethanol (% of volume)****Results by Methodology (as reported by laboratory)**

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	13.657	0.040	0.02	13.861	0.042	0.02	5/6
Ebulliometer Method							0/1
Gas Chromatography Method							0/3
Near Infrared Method	13.640	0.054	0.01	13.848	0.059	0.00	51/51
Dist. / Density Method	13.627	0.076	-0.01	13.846	0.073	0.00	9/12
FTIR	13.592	0.120	-0.04	13.815	0.139	-0.03	6/8
Other	13.617	0.047	-0.02	13.823	0.061	-0.02	3/3





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9005
Methanol

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
8LQFB9		178.0	-30.1	-1.81	178.0	-48.9	-2.18
ERF6X6		189.4	-18.7	-1.12	204.8	-22.1	-0.99
HC8KN3		199.0	-9.1	-0.55	220.0	-6.9	-0.31
JQHLXY		220.5	12.4	0.75	240.4	13.5	0.60
MHG9QU		223.5	15.4	0.93	245.5	18.6	0.83
N4RUKX	X	11.7	-196.3	-11.80	12.1	-214.8	-9.59
N9PACU		203.0	-5.1	-0.31	221.5	-5.4	-0.24
NLTHCW		229.5	21.4	1.29	253.0	26.1	1.17
QAAZCP		203.5	-4.6	-0.28	225.5	-1.4	-0.06
TJ9JLV		210.5	2.4	0.14	240.0	13.1	0.59
TP2GER		224.0	15.9	0.96	240.0	13.1	0.59
XCZE4L	X	24.0	-184.1	-11.06	68.5	-158.4	-7.07

Grand Means

208.09 mg/L

Summary Statistics

226.86 mg/L

Stnd Dev Btwn Labs

16.64 mg/L

22.39 mg/L

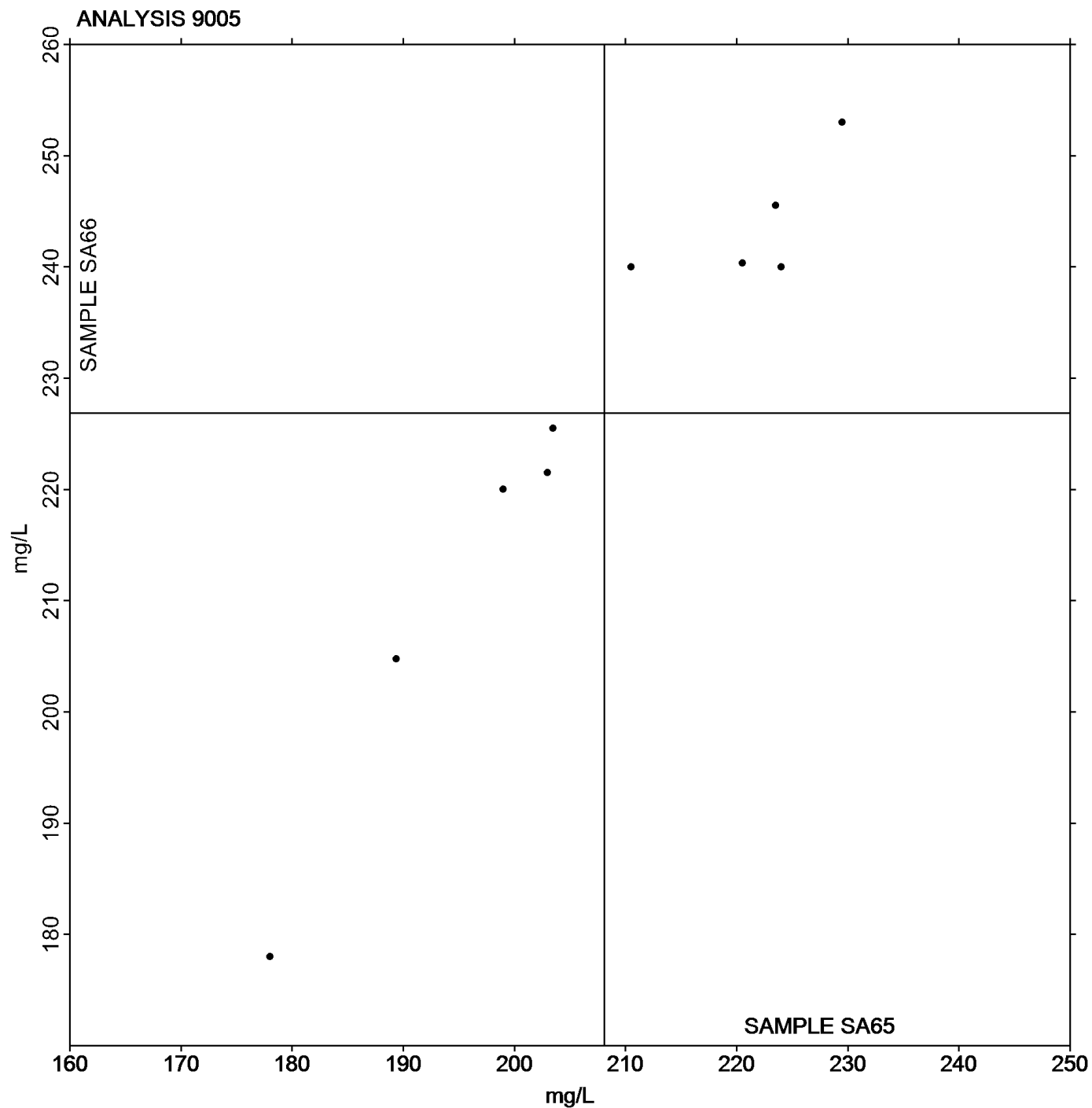
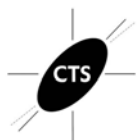
Statistics based on 10 of 12 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

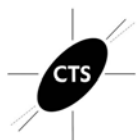
Comments on Assigned Data Flags for Test #9005

XCZE4L (X) - Extreme data.

N4RUKX (X) - Extreme data.

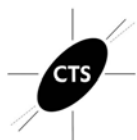


If fewer than 20 laboratories are included in an analysis, a control ellipse will not be drawn on the two-sample plot.

Analysis 9020
Total Sulfur Dioxide

Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		55.50	1.63	0.25	66.00	4.74	0.60
28BBHK		51.00	-2.88	-0.44	56.50	-4.76	-0.61
2B9PAF		45.82	-8.06	-1.25	52.09	-9.17	-1.17
2XMB7G		41.00	-12.88	-1.99	44.00	-17.26	-2.20
3HLZWF		59.00	5.13	0.79	69.50	8.24	1.05
43P7YF		62.50	8.63	1.33	69.00	7.74	0.99
67JLNE		49.00	-4.88	-0.75	53.50	-7.76	-0.99
6HEQWE		55.50	1.63	0.25	63.00	1.74	0.22
6UTPMG		53.50	-0.38	-0.06	62.00	0.74	0.09
7WWK7J		54.50	0.63	0.10	61.50	0.24	0.03
8LQFB9		51.00	-2.88	-0.44	57.00	-4.26	-0.54
8M236F		48.00	-5.88	-0.91	56.00	-5.26	-0.67
8NC4QE		55.50	1.63	0.25	66.00	4.74	0.60
8WRMBE		59.95	6.08	0.94	69.80	8.54	1.09
8XM7CF		55.50	1.63	0.25	66.00	4.74	0.60
9NV8YE		63.00	9.13	1.41	72.50	11.24	1.43
AD8TEA		60.50	6.63	1.02	70.50	9.24	1.18
AKP237		51.00	-2.88	-0.44	57.00	-4.26	-0.54
ANQA4A		58.00	4.13	0.64	65.00	3.74	0.48
APWR26		43.00	-10.88	-1.68	51.50	-9.76	-1.24
AUC3EA		49.00	-4.88	-0.75	54.00	-7.26	-0.92
AYAG76		47.50	-6.38	-0.99	57.50	-3.76	-0.48
AZJTHF		61.00	7.13	1.10	71.00	9.74	1.24
B6BD3B	*	72.50	18.63	2.88	82.00	20.74	2.64
BAZZUA		62.50	8.63	1.33	67.50	6.24	0.80
BEUURB	*	66.00	12.13	1.88	69.00	7.74	0.99
BHEL3D		49.00	-4.88	-0.75	53.50	-7.76	-0.99
CQRWV6		44.00	-9.88	-1.53	50.50	-10.76	-1.37
D7GGT4	X	40.00	-13.88	-2.15	54.00	-7.26	-0.92
DJYAD4		50.50	-3.38	-0.52	60.50	-0.76	-0.10
EKUE84		59.50	5.63	0.87	65.00	3.74	0.48
ERF6X6		53.80	-0.08	-0.01	59.90	-1.36	-0.17
EVEGU6		50.50	-3.38	-0.52	56.50	-4.76	-0.61
EZ37A9		58.00	4.13	0.64	65.00	3.74	0.48
F2VCAY		46.50	-7.38	-1.14	50.50	-10.76	-1.37

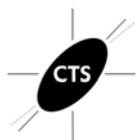


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9020 Total Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FA8DP9		46.50	-7.38	-1.14	52.00	-9.26	-1.18
FA9BZ4		63.00	9.13	1.41	74.00	12.74	1.62
FHJPL7		59.00	5.13	0.79	67.50	6.24	0.80
FWMVW6		46.40	-7.48	-1.16	47.20	-14.06	-1.79
G3MUKY		53.00	-0.88	-0.14	57.00	-4.26	-0.54
GGP4N9		49.50	-4.38	-0.68	59.00	-2.26	-0.29
GK32Z2	X	73.00	19.13	2.96	60.00	-1.26	-0.16
GPVB49		47.50	-6.38	-0.99	54.50	-6.76	-0.86
GTZVXZ		46.00	-7.88	-1.22	50.50	-10.76	-1.37
GWGZQ4		50.50	-3.38	-0.52	54.00	-7.26	-0.92
H2AKBY		55.00	1.13	0.17	64.00	2.74	0.35
H8X83X		52.50	-1.38	-0.21	58.50	-2.76	-0.35
HC8KN3		52.00	-1.88	-0.29	55.00	-6.26	-0.80
HMLKE6		50.00	-3.88	-0.60	55.00	-6.26	-0.80
J223LY		48.00	-5.88	-0.91	53.00	-8.26	-1.05
JL89FZ		61.00	7.13	1.10	70.00	8.74	1.11
JQHLXY		53.66	-0.22	-0.03	61.37	0.11	0.01
K8LF6X		66.50	12.63	1.95	73.50	12.24	1.56
KH8JCX		45.50	-8.38	-1.30	51.50	-9.76	-1.24
L2CN97		59.00	5.13	0.79	63.00	1.74	0.22
LTJ9QT	X	50.00	-3.88	-0.60	43.00	-18.26	-2.33
LYPYTY		63.50	9.63	1.49	69.50	8.24	1.05
M8HG32		50.75	-3.13	-0.48	60.50	-0.76	-0.10
MEGWUU		56.50	2.63	0.41	68.00	6.74	0.86
MHG9QU		55.50	1.63	0.25	64.00	2.74	0.35
MXA3WT		52.00	-1.88	-0.29	65.00	3.74	0.48
N4RUKX		54.50	0.63	0.10	68.00	6.74	0.86
N9PACU		54.50	0.63	0.10	65.00	3.74	0.48
NLTHCW		60.00	6.13	0.95	71.00	9.74	1.24
PC2JYW		54.00	0.13	0.02	64.00	2.74	0.35
PDW3ZX		55.50	1.63	0.25	58.50	-2.76	-0.35
QAAZCP		52.00	-1.88	-0.29	60.00	-1.26	-0.16
R9EGBN		45.00	-8.88	-1.37	55.00	-6.26	-0.80
REKDUN		60.00	6.13	0.95	72.50	11.24	1.43
RP4UHN		49.95	-3.92	-0.61	56.00	-5.26	-0.67

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Analysis 9020****Summer 2026****Total Sulfur Dioxide**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RXXWQR		61.50	7.63	1.18	69.00	7.74	0.99
TJ9JLV		48.00	-5.88	-0.91	53.50	-7.76	-0.99
TP2GER		58.55	4.67	0.72	68.15	6.89	0.88
TVN82M		44.00	-9.88	-1.53	49.00	-12.26	-1.56
TZH2YN		67.00	13.13	2.03	73.50	12.24	1.56
UVJ9YQ		47.00	-6.88	-1.06	50.00	-11.26	-1.43
WRULHM		59.00	5.13	0.79	68.50	7.24	0.92
WWR29J	*	54.50	0.63	0.10	69.00	7.74	0.99
X9UTAU		49.50	-4.38	-0.68	53.25	-8.01	-1.02
XCZE4L	X	33.50	-20.38	-3.15	32.00	-29.26	-3.73
XZ4BVL		48.00	-5.88	-0.91	54.50	-6.76	-0.86

Grand Means

53.875 mg/L

Summary Statistics

61.256 mg/L

Std Dev Btwn Labs

6.464 mg/L

7.849 mg/L

Statistics based on 77 of 81 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

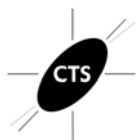
Comments on Assigned Data Flags for Test #9020

D7GGT4 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

XCZE4L (X) - Data for both samples are low.

GK32Z2 (X) - Data for sample SA65 are high.

LTJ9QT (X) - Inconsistent in testing between samples.



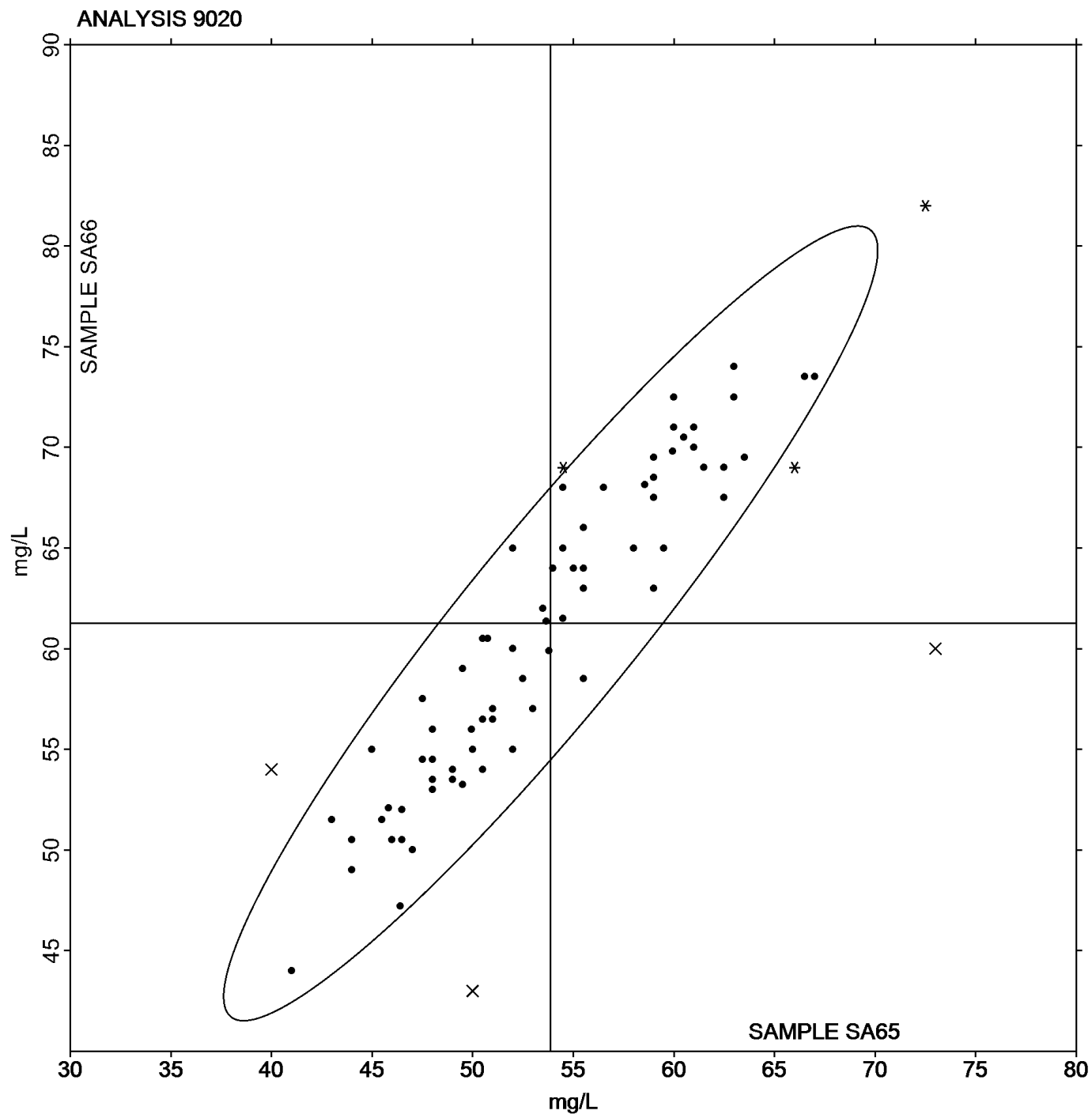
Results by Methodology (as reported by laboratory)

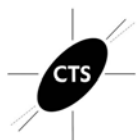
Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	55.488	5.230	1.61	62.875	4.871	1.62	4/5
Ripper Method	54.638	6.636	0.76	62.390	7.768	1.13	30/31
Aeration Oxidation (AO) Method	50.508	6.071	-3.37	57.192	7.571	-4.06	6/7
Segmented Flow Analyzer	48.960	3.743	-4.92	53.980	4.605	-7.28	5/6
Enzymatic Method	56.841	6.853	2.97	65.894	7.690	4.64	16/16
Colormetric Analyzer	52.684	3.989	-1.19	58.513	6.773	-2.74	9/9
FTIR	56.333	7.848	2.46	63.167	5.752	1.91	3/3
Flow Injection Analysis	46.704	3.003	-7.17	52.521	3.078	-8.74	4/4



Analysis 9020
Total Sulfur Dioxide

Summer 2026



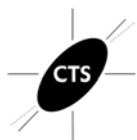


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9021 Free Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		22.50	0.65	0.27	22.00	-0.12	-0.06
28BBHK		27.50	5.65	2.32	27.50	5.38	2.43
2B9PAF		18.61	-3.24	-1.33	19.45	-2.68	-1.21
2XMB7G		22.00	0.15	0.06	22.50	0.38	0.17
3HLZWF	X	23.00	1.15	0.47	29.50	7.38	3.33
43P7YF		19.50	-2.35	-0.96	20.00	-2.12	-0.96
67JLNE		20.50	-1.35	-0.55	21.00	-1.12	-0.51
6HEQWE		23.00	1.15	0.47	23.00	0.88	0.40
6UTPMG		22.50	0.65	0.27	20.50	-1.62	-0.73
7WWK7J		22.00	0.15	0.06	22.00	-0.12	-0.06
8LQFB9		22.00	0.15	0.06	22.00	-0.12	-0.06
8M236F		22.00	0.15	0.06	22.00	-0.12	-0.06
8NC4QE		20.50	-1.35	-0.55	21.50	-0.62	-0.28
8WRMBE		21.85	0.00	0.00	22.55	0.43	0.19
8XM7CF	*	29.00	7.15	2.93	27.00	4.88	2.20
9NV8YE		21.50	-0.35	-0.14	20.75	-1.37	-0.62
AD8TEA		22.00	0.15	0.06	21.50	-0.62	-0.28
AKP237		19.00	-2.85	-1.17	19.00	-3.12	-1.41
ANQA4A		25.00	3.15	1.29	26.00	3.88	1.75
APWR26	X	30.00	8.15	3.34	30.50	8.38	3.78
AUC3EA		22.00	0.15	0.06	22.00	-0.12	-0.06
AYAG76		21.00	-0.85	-0.35	20.50	-1.62	-0.73
AZJTHF		23.00	1.15	0.47	22.00	-0.12	-0.06
B6BD3B	X	29.50	7.65	3.14	32.50	10.38	4.68
BAZZUA		19.60	-2.25	-0.92	21.45	-0.67	-0.30
BEUURB		24.00	2.15	0.88	26.00	3.88	1.75
BHEL3D		23.00	1.15	0.47	23.00	0.88	0.40
CDYBPA		21.00	-0.85	-0.35	21.50	-0.62	-0.28
CQRWV6		19.00	-2.85	-1.17	19.50	-2.62	-1.18
D7GGT4		21.50	-0.35	-0.14	23.50	1.38	0.62
DJYAD4		21.00	-0.85	-0.35	21.00	-1.12	-0.51
EKUE84	*	18.00	-3.85	-1.58	21.50	-0.62	-0.28
ERF6X6		20.30	-1.55	-0.64	19.45	-2.67	-1.21
EVEGU6		19.50	-2.35	-0.96	18.50	-3.62	-1.64
EZ37A9		27.00	5.15	2.11	25.50	3.38	1.52

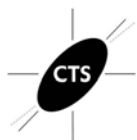


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9021 Free Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F2VCAY		20.00	-1.85	-0.76	21.00	-1.12	-0.51
FA8DP9		18.50	-3.35	-1.37	19.00	-3.12	-1.41
FA9BZ4		24.50	2.65	1.09	24.50	2.38	1.07
FHJPL7		22.50	0.65	0.27	22.00	-0.12	-0.06
FWMVW6	X	26.90	5.05	2.07	35.85	13.73	6.19
G3MUKY		22.00	0.15	0.06	21.00	-1.12	-0.51
GGP4N9		20.00	-1.85	-0.76	21.50	-0.62	-0.28
GK32Z2		18.50	-3.35	-1.37	19.50	-2.62	-1.18
GPVB49		22.00	0.15	0.06	23.00	0.88	0.40
GTZVXZ		20.00	-1.85	-0.76	19.50	-2.62	-1.18
GWGZQ4		21.00	-0.85	-0.35	21.15	-0.97	-0.44
H2AKBY		21.50	-0.35	-0.14	21.50	-0.62	-0.28
H8X83X		23.00	1.15	0.47	23.50	1.38	0.62
HMLKE6		19.10	-2.75	-1.13	18.75	-3.37	-1.52
J223LY		19.50	-2.35	-0.96	20.50	-1.62	-0.73
JL89FZ		25.00	3.15	1.29	25.50	3.38	1.52
JQHLXY		21.50	-0.35	-0.14	20.00	-2.12	-0.96
K8LF6X		25.50	3.65	1.50	25.00	2.88	1.30
KH8JCX		20.00	-1.85	-0.76	20.00	-2.12	-0.96
L2CN97		20.75	-1.10	-0.45	20.25	-1.87	-0.85
LTJ9QT		21.00	-0.85	-0.35	23.00	0.88	0.40
LYPYTY		20.00	-1.85	-0.76	20.50	-1.62	-0.73
M8HG32		20.25	-1.60	-0.66	20.40	-1.72	-0.78
MEGWUU		21.45	-0.40	-0.16	22.55	0.43	0.19
MGKRDY	X	36.50	14.65	6.01	41.00	18.88	8.52
MHG9QU		20.50	-1.35	-0.55	22.00	-0.12	-0.06
MXA3WT	*	29.00	7.15	2.93	28.00	5.88	2.65
N4RUKX		27.50	5.65	2.32	26.50	4.38	1.97
N9PACU		22.50	0.65	0.27	23.00	0.88	0.40
NLTHCW		22.50	0.65	0.27	23.00	0.88	0.40
PC2JYW		22.00	0.15	0.06	23.00	0.88	0.40
PDW3ZX		22.00	0.15	0.06	23.00	0.88	0.40
Q474MX		25.00	3.15	1.29	25.50	3.38	1.52
QAAZCP		22.00	0.15	0.06	22.00	-0.12	-0.06
R9EGBN	*	15.50	-6.35	-2.60	18.00	-4.12	-1.86



Analysis 9021

Free Sulfur Dioxide

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
REKDUN		23.50	1.65	0.68	25.00	2.88	1.30
RP4UHN		22.64	0.79	0.32	23.02	0.89	0.40
RXXWQR		25.00	3.15	1.29	25.50	3.38	1.52
TJ9JLV		21.00	-0.85	-0.35	22.00	-0.12	-0.06
TVN82M		20.50	-1.35	-0.55	20.50	-1.62	-0.73
TZH2YN		22.50	0.65	0.27	24.50	2.38	1.07
UVFPCM		23.22	1.37	0.56	23.84	1.72	0.77
UVJ9YQ		21.50	-0.35	-0.14	20.00	-2.12	-0.96
WRULHM		22.00	0.15	0.06	22.00	-0.12	-0.06
WWR29J		19.00	-2.85	-1.17	20.00	-2.12	-0.96
X9UTAU		23.60	1.75	0.72	22.00	-0.12	-0.06
XCZE4L		21.00	-0.85	-0.35	22.00	-0.12	-0.06
XZ4BVL	X	11.00	-10.85	-4.45	14.00	-8.12	-3.67

Grand Means

21.849 mg/L

Summary Statistics

22.125 mg/L

Std Dev Btwn Labs

2.438 mg/L

2.216 mg/L

Statistics based on 77 of 83 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9021

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

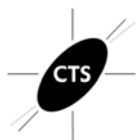
B6BD3B (X) - Data for both samples are high. Possible Systematic Error.

XZ4BVL (X) - Data for both samples are low. Possible Systematic Error.

3HLZWF (X) - Inconsistent in testing, data for sample SA66 are high.

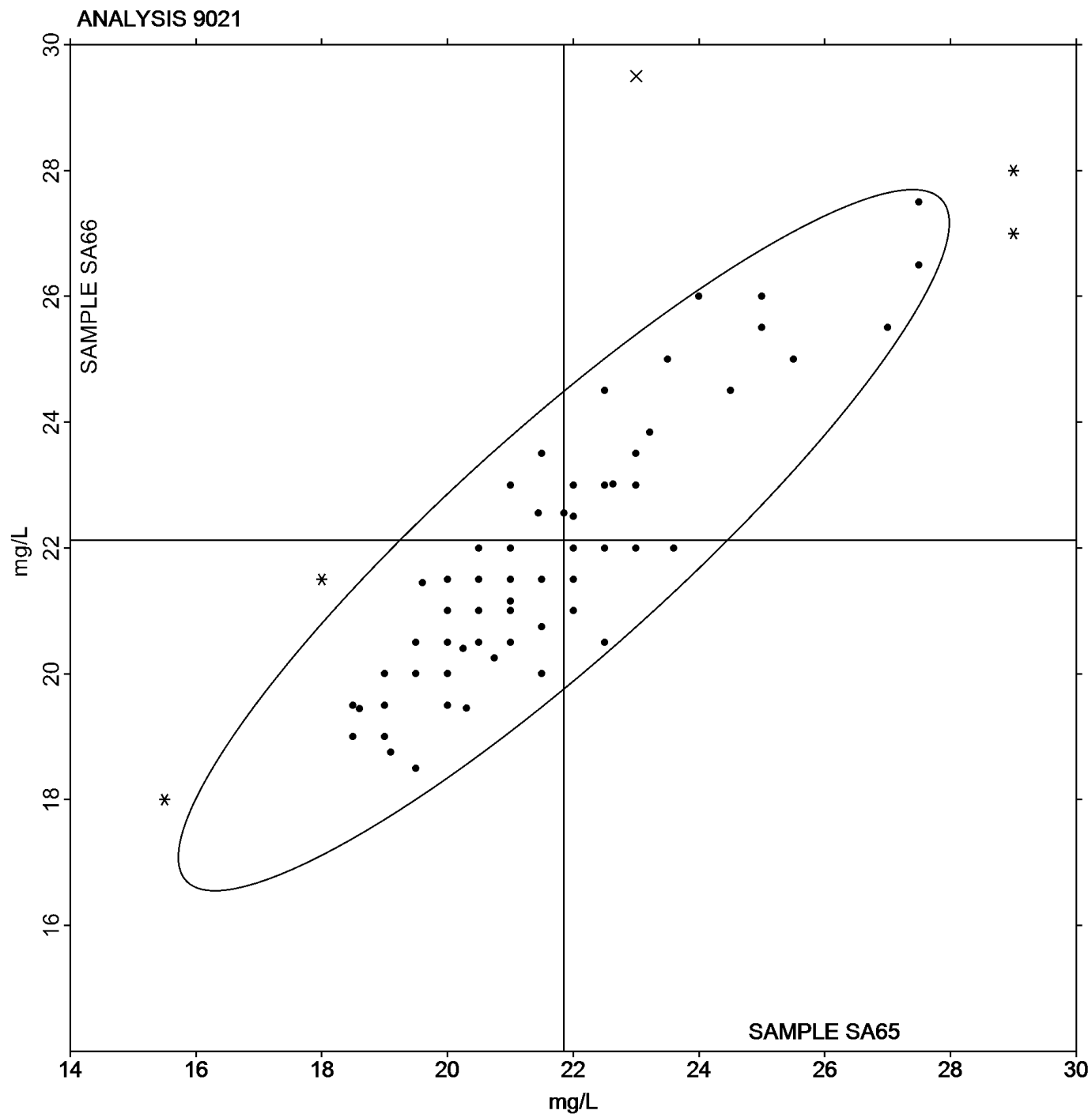
FWMVW6 (X) - Inconsistent in testing, data for sample SA66 are high.

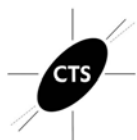
APWR26 (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA65.



Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	20.206	1.863	-1.64	21.744	1.299	-0.38	6/7
Ripper Method	23.770	2.673	1.92	23.950	2.179	1.82	23/26
Aeration Oxidation (AO) Method	21.294	1.568	-0.56	21.872	1.800	-0.25	16/16
Segmented Flow Analyzer	21.217	0.736	-0.63	20.992	1.153	-1.13	6/6
Enzymatic Method	20.586	2.090	-1.26	20.868	1.777	-1.26	11/12
Colormetric Analyzer	22.763	1.838	0.91	22.331	2.003	0.21	8/9
Flow Injection Analysis	19.151	0.596	-2.70	19.361	0.242	-2.76	4/4
FTIR	20.417	0.804	-1.43	20.250	0.250	-1.87	3/3

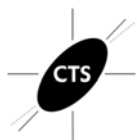




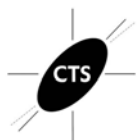
ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9022
L-Malic Acid

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		0.0950	-0.0378	-1.38	0.0900	-0.0514	-1.80
28BBHK		0.1080	-0.0248	-0.91	0.1190	-0.0224	-0.78
2B9PAF		0.1310	-0.0018	-0.07	0.1430	0.0016	0.05
2XMB7G		0.0900	-0.0428	-1.56	0.1100	-0.0314	-1.10
3HLZWF		0.1300	-0.0028	-0.10	0.1300	-0.0114	-0.40
67JLNE		0.1100	-0.0228	-0.83	0.1400	-0.0014	-0.05
6HEQWE		0.1300	-0.0028	-0.10	0.1300	-0.0114	-0.40
6M73RB		0.1485	0.0157	0.57	0.1555	0.0141	0.49
6UTPMG		0.1500	0.0172	0.63	0.1400	-0.0014	-0.05
7WWK7J		0.1500	0.0172	0.63	0.1600	0.0186	0.65
8LQFB9		0.1600	0.0272	0.99	0.1700	0.0286	1.00
8M236F		0.1100	-0.0228	-0.83	0.1300	-0.0114	-0.40
8NC4QE		0.1550	0.0222	0.81	0.1650	0.0236	0.82
8WRMBE		0.1100	-0.0228	-0.83	0.1100	-0.0314	-1.10
8XM7CF		0.1300	-0.0028	-0.10	0.1400	-0.0014	-0.05
9NV8YE		0.1713	0.0384	1.40	0.1785	0.0371	1.29
AD8TEA		0.1770	0.0442	1.61	0.1915	0.0501	1.75
ANQA4A	X	0.3600	0.2272	8.28	0.3300	0.1886	6.59
AUC3EA		0.0800	-0.0528	-1.93	0.0900	-0.0514	-1.80
AYAG76		0.1850	0.0522	1.90	0.1950	0.0536	1.87
AZJTHF		0.1550	0.0222	0.81	0.1400	-0.0014	-0.05
B6BD3B	X	0.8400	0.7072	25.77	0.8300	0.6886	24.06
BAZZUA	X	0.2175	0.0847	3.09	0.3385	0.1971	6.89
BHEL3D		0.1450	0.0122	0.44	0.1570	0.0156	0.54
CDYBPA		0.1585	0.0257	0.94	0.1600	0.0186	0.65
CQRWV6		0.1410	0.0082	0.30	0.1560	0.0146	0.51
D7GGT4		0.1350	0.0022	0.08	0.1600	0.0186	0.65
DJYAD4		0.0700	-0.0628	-2.29	0.0850	-0.0564	-1.97
EKUE84		0.1250	-0.0078	-0.29	0.1500	0.0086	0.30
EVEGU6		0.1300	-0.0028	-0.10	0.1450	0.0036	0.12
F2VCAY		0.1650	0.0322	1.17	0.1900	0.0486	1.70
FA8DP9		0.0900	-0.0428	-1.56	0.1000	-0.0414	-1.45
FA9BZ4		0.1250	-0.0078	-0.29	0.1400	-0.0014	-0.05
FHJPL7		0.0800	-0.0528	-1.93	0.0800	-0.0614	-2.15
G3MUKY		0.1500	0.0172	0.63	0.1600	0.0186	0.65

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Summer 2026****Analysis 9022****L-Malic Acid**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
GGP4N9		0.1500	0.0172	0.63	0.1500	0.0086	0.30
GK32Z2		0.0950	-0.0378	-1.38	0.1150	-0.0264	-0.92
GPVB49		0.1050	-0.0278	-1.01	0.1050	-0.0364	-1.27
GTZVXZ		0.1575	0.0247	0.90	0.1620	0.0206	0.72
GWGZQ4		0.1370	0.0042	0.15	0.1507	0.0093	0.32
H2AKBY		0.1650	0.0322	1.17	0.1850	0.0436	1.52
H8X83X		0.1350	0.0022	0.08	0.1450	0.0036	0.12
HC8KN3		0.1400	0.0072	0.26	0.1510	0.0096	0.33
HMLKE6		0.1300	-0.0028	-0.10	0.1450	0.0036	0.12
J223LY		0.1550	0.0222	0.81	0.1650	0.0236	0.82
JL89FZ		0.1450	0.0122	0.44	0.1535	0.0121	0.42
JQHLXY	*	0.0730	-0.0598	-2.18	0.1065	-0.0349	-1.22
K8LF6X		0.1075	-0.0253	-0.92	0.1230	-0.0184	-0.64
KH8JCX		0.1400	0.0072	0.26	0.1250	-0.0164	-0.57
L2CN97	X	0.1550	0.0222	0.81	0.0450	-0.0964	-3.37
LTJ9QT		0.1600	0.0272	0.99	0.1700	0.0286	1.00
LYPYTY		0.1500	0.0172	0.63	0.1550	0.0136	0.47
M8HG32	X	0.6755	0.5427	19.78	0.6825	0.5411	18.91
MEGWUU		0.1450	0.0122	0.44	0.1650	0.0236	0.82
MGKRDY		0.1600	0.0272	0.99	0.1800	0.0386	1.35
MHG9QU	*	0.0900	-0.0428	-1.56	0.0750	-0.0664	-2.32
N4RUKX		0.1400	0.0072	0.26	0.1500	0.0086	0.30
N9PACU		0.1550	0.0222	0.81	0.1400	-0.0014	-0.05
NLTHCW		0.1150	-0.0178	-0.65	0.1000	-0.0414	-1.45
PC2JYW		0.1700	0.0372	1.35	0.1750	0.0336	1.17
PDW3ZX	X	0.0400	-0.0928	-3.38	0.0300	-0.1114	-3.89
Q474MX		0.1530	0.0202	0.73	0.1515	0.0101	0.35
QAAZCP		0.1500	0.0172	0.63	0.1550	0.0136	0.47
R9EGBN		0.1600	0.0272	0.99	0.1800	0.0386	1.35
REKDUN		0.0800	-0.0528	-1.93	0.0850	-0.0564	-1.97
TJ9JLV		0.1050	-0.0278	-1.01	0.1150	-0.0264	-0.92
TVN82M		0.1335	0.0007	0.02	0.1415	0.0001	0.00
TZH2YN		0.1134	-0.0194	-0.71	0.1412	-0.0002	-0.01
UVFPCM		0.1550	0.0222	0.81	0.1600	0.0186	0.65
UVJ9YQ	X	0.1400	0.0072	0.26	0.2200	0.0786	2.75



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9022
L-Malic Acid

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
WRULHM		0.1400	0.0072	0.26	0.1350	-0.0064	-0.23
WWR29J		0.1345	0.0017	0.06	0.1270	-0.0144	-0.50
X9UTAU		0.1325	-0.0003	-0.01	0.1420	0.0006	0.02
XCZE4L	X	0.0280	-0.1048	-3.82	0.1000	-0.0414	-1.45
XZ4BVL	X	0.0950	-0.0378	-1.38	0.2400	0.0986	3.44

Grand Means

0.13284 g/L

Summary Statistics

0.14145 g/L

Std Dev Btwn Labs

0.02744 g/L

0.02862 g/L

Statistics based on 66 of 75 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9022

B6BD3B (X) - Extreme data.

XCZE4L (X) - Inconsistent in testing, data for sample SA65 are low.

L2CN97 (X) - Inconsistent in testing, data for sample SA66 are low.

M8HG32 (X) - Extreme data.

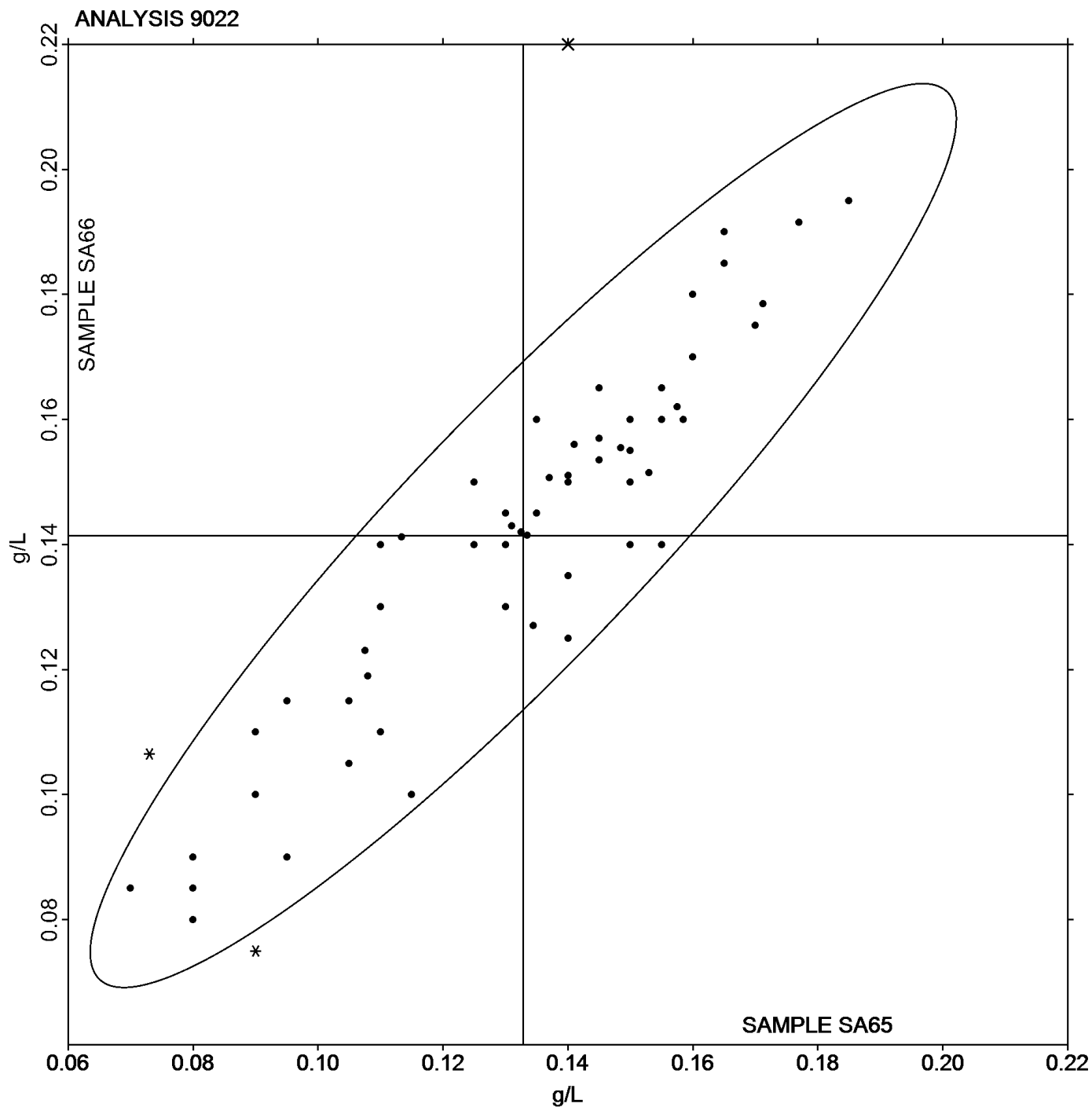
BAZZUA (X) - Data for both samples are high. Possible Systematic Error.

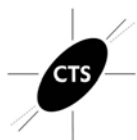
UVJ9YQ (X) - Inconsistent in testing, data for sample SA66 are high.

PDW3ZX (X) - Data for both samples are low. Possible Systematic Error.

XZ4BVL (X) - Inconsistent in testing, data for sample SA66 are high.

ANQA4A (X) - Data for both samples are high. Possible Systematic Error.





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9024
Citric Acid

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
6UTPMG		0.0630	-0.0581	-0.46	0.1345	-0.0450	-0.42
8LQFB9		0.0700	-0.0511	-0.40	0.1400	-0.0395	-0.37
8XM7CF		0.0730	-0.0481	-0.38	0.1510	-0.0285	-0.27
AUC3EA		0.1200	-0.0011	-0.01	0.1800	0.0005	0.00
AYAG76		0.2250	0.1039	0.82	0.2400	0.0605	0.57
BAZZUA	X	5.3690	5.2479	41.22	5.4540	5.2745	49.81
H2AKBY		0.0720	-0.0491	-0.39	0.1965	0.0170	0.16
JQHLXY		0.0767	-0.0444	-0.35	0.1460	-0.0335	-0.32
N4RUKX		0.0675	-0.0536	-0.42	0.1470	-0.0325	-0.31
N9PACU		0.0800	-0.0411	-0.32	0.1400	-0.0395	-0.37
NLTHCW		0.0450	-0.0761	-0.60	0.0800	-0.0995	-0.94
QAAZCP		0.0600	-0.0611	-0.48	0.1300	-0.0495	-0.47
TJ9JLV		0.0790	-0.0421	-0.33	0.1460	-0.0335	-0.32
UVJ9YQ		0.1600	0.0389	0.31	0.1800	0.0005	0.00
X9UTAU		0.0750	-0.0461	-0.36	0.1415	-0.0380	-0.36
XZ4BVL	*	0.5500	0.4289	3.37	0.5400	0.3605	3.40

Grand Means

0.12108 g/L

Summary Statistics

0.17950 g/L

Std Dev Btwn Labs

0.12732 g/L

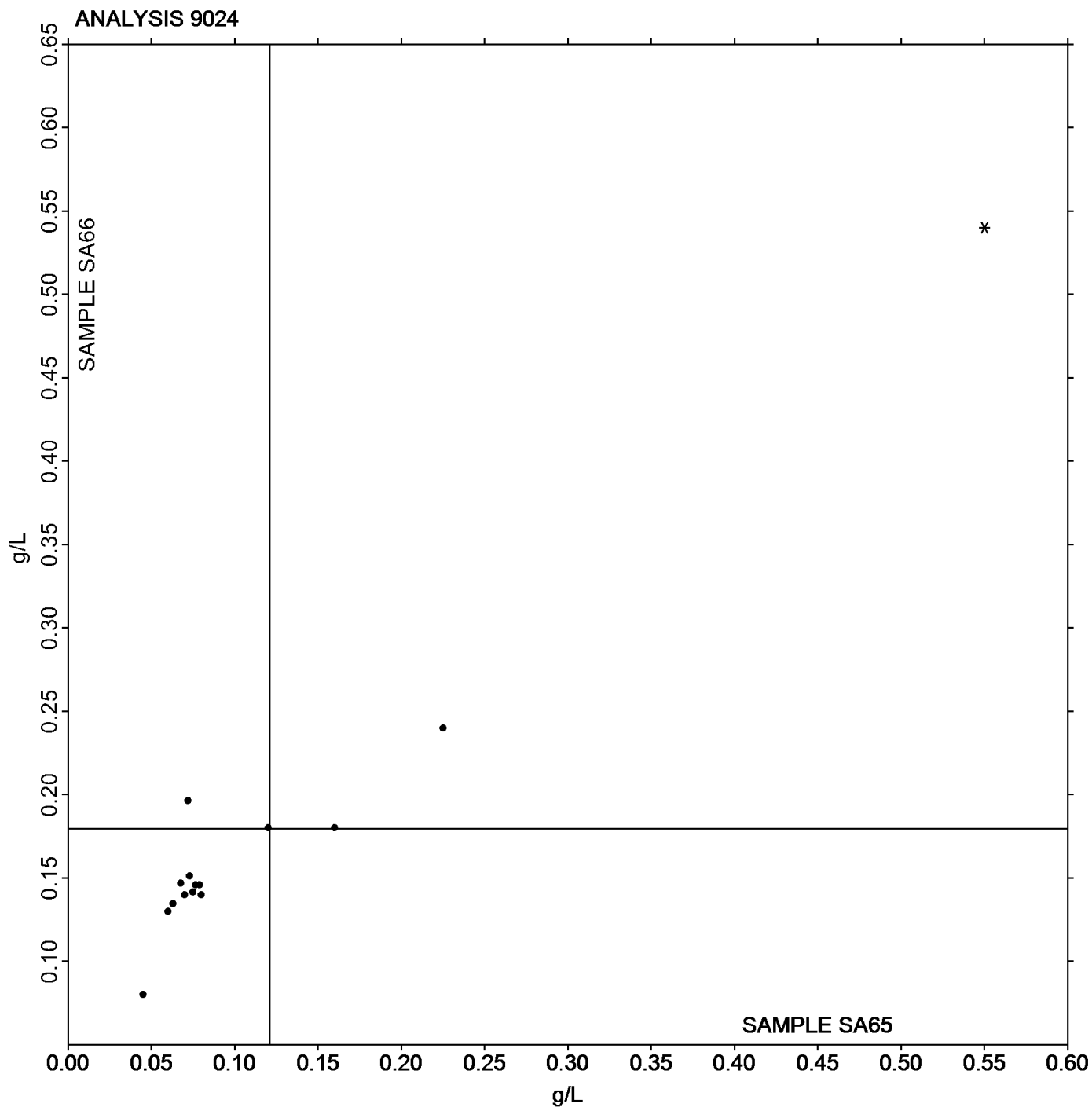
0.10589 g/L

Statistics based on 15 of 16 reporting participants

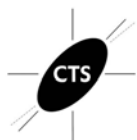
Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9024

BAZZUA (X) - Extreme data.



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



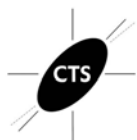
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9027

pH

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		3.640	-0.008	-0.31	3.540	-0.021	-0.85
28BBHK		3.640	-0.008	-0.31	3.555	-0.006	-0.24
2B9PAF		3.637	-0.011	-0.43	3.547	-0.015	-0.59
2XMB7G	*	3.595	-0.053	-2.03	3.490	-0.071	-2.85
3HLZWF		3.615	-0.033	-1.27	3.550	-0.011	-0.45
43P7YF	X	3.520	-0.128	-4.91	3.440	-0.121	-4.86
67JLNE		3.670	0.022	0.84	3.565	0.004	0.16
6HEQWE		3.640	-0.008	-0.31	3.550	-0.011	-0.45
6M73RB		3.630	-0.018	-0.69	3.540	-0.021	-0.85
6UTPMG		3.665	0.017	0.65	3.580	0.019	0.76
7WWK7J		3.655	0.007	0.26	3.570	0.009	0.36
8LQFB9		3.630	-0.018	-0.69	3.550	-0.011	-0.45
8M236F		3.645	-0.003	-0.12	3.540	-0.021	-0.85
8NC4QE		3.660	0.012	0.46	3.575	0.014	0.56
8WRMBE		3.645	-0.003	-0.12	3.555	-0.006	-0.24
8XM7CF		3.650	0.002	0.07	3.550	-0.011	-0.45
9NV8YE		3.610	-0.038	-1.46	3.525	-0.036	-1.45
AD8TEA		3.645	-0.003	-0.12	3.560	-0.001	-0.04
ANQA4A		3.670	0.022	0.84	3.580	0.019	0.76
APWR26		3.650	0.002	0.07	3.555	-0.006	-0.24
AUC3EA	X	3.715	0.067	2.56	3.575	0.014	0.56
AYAG76		3.620	-0.028	-1.08	3.545	-0.016	-0.65
AZJTHF		3.650	0.002	0.07	3.570	0.009	0.36
B6BD3B		3.690	0.042	1.60	3.605	0.044	1.76
BAZZUA		3.605	-0.043	-1.65	3.550	-0.011	-0.45
BEUURB	X	3.730	0.082	3.14	3.590	0.029	1.16
BHEL3D		3.640	-0.008	-0.31	3.560	-0.001	-0.04
CDYBPA		3.640	-0.008	-0.31	3.550	-0.011	-0.45
D7GGT4		3.625	-0.023	-0.89	3.540	-0.021	-0.85
DJYAD4		3.695	0.047	1.80	3.610	0.049	1.96
EKUE84		3.625	-0.023	-0.89	3.535	-0.026	-1.05
EVEGU6		3.630	-0.018	-0.69	3.540	-0.021	-0.85
EZ37A9	*	3.720	0.072	2.75	3.600	0.039	1.56
F2VCAY		3.650	0.002	0.07	3.555	-0.006	-0.24
FA8DP9		3.665	0.017	0.65	3.575	0.014	0.56



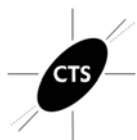
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9027

pH

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FA9BZ4		3.648	-0.001	-0.02	3.566	0.004	0.18
FHJPL7		3.630	-0.018	-0.69	3.560	-0.001	-0.04
FWMVW6	X	3.760	0.112	4.29	3.640	0.079	3.16
G3MUKY		3.640	-0.008	-0.31	3.550	-0.011	-0.45
GGP4N9	*	3.600	-0.048	-1.84	3.560	-0.001	-0.04
GK32Z2		3.610	-0.038	-1.46	3.520	-0.041	-1.65
GPVB49		3.625	-0.023	-0.89	3.540	-0.021	-0.85
GTZVXZ		3.620	-0.028	-1.08	3.545	-0.016	-0.65
GWGZQ4		3.635	-0.013	-0.50	3.550	-0.011	-0.45
H2AKBY		3.640	-0.008	-0.31	3.555	-0.006	-0.24
H8X83X		3.650	0.002	0.07	3.560	-0.001	-0.04
HC8KN3		3.635	-0.013	-0.50	3.550	-0.011	-0.45
HMLKE6		3.710	0.062	2.37	3.615	0.054	2.16
J223LY		3.670	0.022	0.84	3.590	0.029	1.16
JL89FZ		3.660	0.012	0.46	3.570	0.009	0.36
JQHLXY		3.645	-0.003	-0.12	3.563	0.001	0.06
K8LF6X		3.634	-0.015	-0.56	3.548	-0.014	-0.55
KH8JCX		3.640	-0.008	-0.31	3.550	-0.011	-0.45
L2CN97		3.655	0.007	0.26	3.600	0.039	1.56
LTJ9QT	X	3.600	-0.048	-1.84	3.595	0.034	1.36
LYPYTY		3.660	0.012	0.46	3.570	0.009	0.36
M8HG32		3.636	-0.013	-0.48	3.551	-0.010	-0.41
MEGWUU		3.635	-0.013	-0.50	3.550	-0.011	-0.45
MGKRDY	*	3.605	-0.043	-1.65	3.560	-0.001	-0.04
MHG9QU		3.640	-0.008	-0.31	3.540	-0.021	-0.85
MXA3WT	X	3.511	-0.137	-5.25	3.602	0.041	1.64
N4RUKX	X	3.590	-0.058	-2.23	3.595	0.034	1.36
N9PACU		3.660	0.012	0.46	3.570	0.009	0.36
NLTHCW		3.645	-0.003	-0.12	3.550	-0.011	-0.45
PC2JYW		3.695	0.047	1.80	3.605	0.044	1.76
PDW3ZX		3.670	0.022	0.84	3.575	0.014	0.56
Q474MX	X	3.660	0.012	0.46	3.715	0.154	6.17
QAAZCP		3.660	0.012	0.46	3.570	0.009	0.36
R9EGBN		3.675	0.027	1.03	3.585	0.024	0.96
REKDUN	X	3.368	-0.281	-10.75	3.458	-0.104	-4.16



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9027
pH

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RP4UHN		3.670	0.022	0.84	3.580	0.019	0.76
RXXWQR		3.655	0.007	0.26	3.595	0.034	1.36
TJ9JLV		3.695	0.047	1.80	3.605	0.044	1.76
TVN82M		3.615	-0.033	-1.27	3.520	-0.041	-1.65
TZH2YN		3.650	0.002	0.07	3.555	-0.006	-0.24
UVFPCM		3.665	0.017	0.65	3.585	0.024	0.96
UVJ9YQ		3.585	-0.063	-2.42	3.500	-0.061	-2.45
WRULHM		3.670	0.022	0.84	3.580	0.019	0.76
WWR29J		3.605	-0.043	-1.65	3.510	-0.051	-2.05
X9UTAU		3.650	0.002	0.07	3.570	0.009	0.36
XCZE4L		3.675	0.027	1.03	3.590	0.029	1.16
XZ4BVL		3.655	0.007	0.26	3.600	0.039	1.56

Grand Means

3.6481 pH

Summary Statistics

3.5611 pH

Std Dev Btwn Labs

0.0261 pH

0.0249 pH

Statistics based on 73 of 82 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9027

Q474MX (X) - Data for sample SA66 are high.

BEUURB (X) - Data for sample SA65 are high.

N4RUKX (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.

43P7YF (X) - Data for both samples are low.

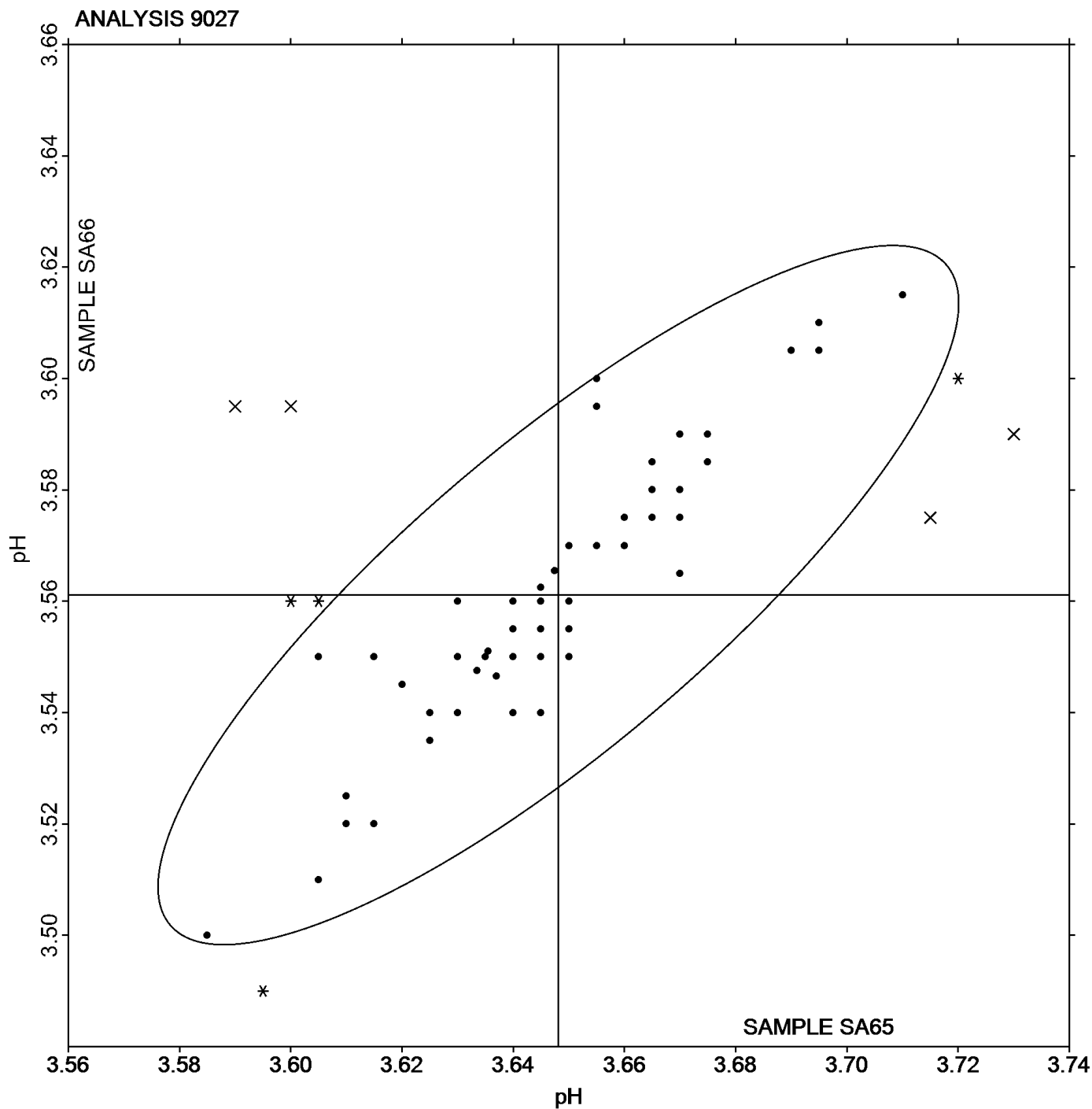
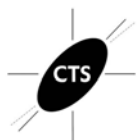
AUC3EA (X) - Inconsistent in testing between samples.

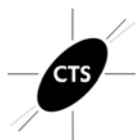
FWMVW6 (X) - Data for both samples are high.

MXA3WT (X) - Data for sample SA65 are low.

REKDUN (X) - Data for both samples are low. Inconsistent within the determinations of both samples.

LTJ9QT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA66.



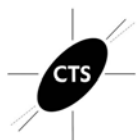


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9030 Titratable Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		5.875	0.020	0.12	5.995	0.065	0.47
28BBHK		5.805	-0.050	-0.30	5.855	-0.075	-0.54
2B9PAF		5.920	0.065	0.40	5.990	0.060	0.43
2XMB7G		5.850	-0.005	-0.03	5.925	-0.005	-0.03
3HLZWF		6.230	0.375	2.28	6.190	0.260	1.87
43P7YF		5.800	-0.055	-0.33	5.900	-0.030	-0.21
67JLNE		5.760	-0.095	-0.57	5.855	-0.075	-0.54
6HEQWE	*	5.550	-0.305	-1.85	5.600	-0.330	-2.37
6M73RB		5.850	-0.005	-0.03	5.900	-0.030	-0.21
6UTPMG		5.800	-0.055	-0.33	5.900	-0.030	-0.21
7WWK7J		5.600	-0.255	-1.55	5.700	-0.230	-1.65
8LQFB9	X	6.000	0.145	0.88	5.800	-0.130	-0.93
8M236F		5.700	-0.155	-0.94	5.850	-0.080	-0.57
8NC4QE		6.105	0.250	1.52	6.195	0.265	1.90
8WRMBE		6.050	0.195	1.18	6.050	0.120	0.86
8XM7CF		5.930	0.075	0.46	5.960	0.030	0.22
9NV8YE	*	5.460	-0.395	-2.39	5.655	-0.275	-1.97
AD8TEA		5.705	-0.150	-0.91	5.810	-0.120	-0.86
ANQA4A	X	5.650	-0.205	-1.24	5.620	-0.310	-2.22
APWR26		5.850	-0.005	-0.03	5.950	0.020	0.15
AUC3EA	X	6.360	0.505	3.06	6.505	0.575	4.13
AYAG76	X	5.410	-0.445	-2.70	5.450	-0.480	-3.44
AZJTHF		6.060	0.205	1.24	6.080	0.150	1.08
B6BD3B		5.900	0.045	0.27	5.950	0.020	0.15
BAZZUA	*	6.006	0.151	0.92	6.166	0.236	1.69
BEUURB		5.900	0.045	0.27	6.000	0.070	0.50
BHEL3D		5.900	0.045	0.27	5.900	-0.030	-0.21
CDYBPA		5.725	-0.130	-0.79	5.825	-0.105	-0.75
D7GGT4		5.700	-0.155	-0.94	5.800	-0.130	-0.93
DJYAD4		5.825	-0.030	-0.18	5.890	-0.040	-0.29
EKUE84		5.800	-0.055	-0.33	5.800	-0.130	-0.93
ERF6X6	*	6.000	0.145	0.88	6.160	0.230	1.65
EVEGU6	X	6.665	0.810	4.91	6.635	0.705	5.06
EZ37A9		6.000	0.145	0.88	6.000	0.070	0.50
F2VCAY		5.740	-0.115	-0.70	5.850	-0.080	-0.57

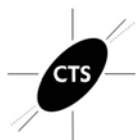


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9030 Titratable Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FA8DP9		5.950	0.095	0.58	6.050	0.120	0.86
FA9BZ4		5.990	0.135	0.82	6.060	0.130	0.93
FHJPL7		5.840	-0.015	-0.09	5.915	-0.015	-0.11
FWMVW6		5.900	0.045	0.27	5.900	-0.030	-0.21
G3MUKY		5.800	-0.055	-0.33	5.900	-0.030	-0.21
GGP4N9		5.945	0.090	0.55	5.910	-0.020	-0.14
GK32Z2		5.600	-0.255	-1.55	5.750	-0.180	-1.29
GPVB49	X	5.145	-0.710	-4.31	5.235	-0.695	-4.99
GTZVXZ		5.850	-0.005	-0.03	6.000	0.070	0.50
GWGZQ4		5.785	-0.070	-0.42	5.875	-0.055	-0.39
H2AKBY		5.800	-0.055	-0.33	5.900	-0.030	-0.21
H8X83X		5.900	0.045	0.27	6.000	0.070	0.50
HC8KN3		5.900	0.045	0.27	6.000	0.070	0.50
HMLKE6		5.680	-0.175	-1.06	5.800	-0.130	-0.93
J223LY		5.700	-0.155	-0.94	5.800	-0.130	-0.93
JL89FZ		5.785	-0.070	-0.42	5.880	-0.050	-0.36
JQHLXY		5.965	0.110	0.67	6.010	0.080	0.58
K8LF6X		6.020	0.165	1.00	6.045	0.115	0.83
KH8JCX		5.835	-0.020	-0.12	5.900	-0.030	-0.21
L2CN97		6.025	0.170	1.03	6.040	0.110	0.79
LTJ9QT		5.845	-0.010	-0.06	5.905	-0.025	-0.18
M8HG32		5.785	-0.070	-0.42	5.870	-0.060	-0.43
MEGWUU		5.905	0.050	0.30	6.010	0.080	0.58
MGKRDY		5.650	-0.205	-1.24	5.750	-0.180	-1.29
MXA3WT	X	5.895	0.040	0.24	5.794	-0.136	-0.97
N4RUKX		6.255	0.400	2.43	6.230	0.300	2.16
N9PACU		5.830	-0.025	-0.15	5.895	-0.035	-0.25
NLTHCW	*	6.250	0.395	2.40	6.210	0.280	2.01
PC2JYW		5.625	-0.230	-1.39	5.725	-0.205	-1.47
PDW3ZX		6.170	0.315	1.91	6.225	0.295	2.12
Q474MX		5.745	-0.110	-0.67	5.820	-0.110	-0.79
QAAZCP		5.640	-0.215	-1.30	5.745	-0.185	-1.33
R9EGBN		5.800	-0.055	-0.33	5.900	-0.030	-0.21
REKDUN		5.950	0.095	0.58	6.004	0.074	0.53
RP4UHN	X	4.405	-1.450	-8.79	4.510	-1.420	-10.19



**Analysis 9030
Titratable Acidity**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RXXWQR	X	5.020	-0.835	-5.06	5.160	-0.770	-5.53
TJ9JLV		5.850	-0.005	-0.03	5.950	0.020	0.15
TP2GER		5.871	0.016	0.10	5.905	-0.025	-0.18
TVN82M		6.100	0.245	1.49	6.100	0.170	1.22
TZH2YN		5.800	-0.055	-0.33	5.800	-0.130	-0.93
UVFPCM		6.005	0.150	0.91	6.025	0.095	0.68
UVJ9YQ		6.050	0.195	1.18	6.150	0.220	1.58
WRULHM		5.600	-0.255	-1.55	5.700	-0.230	-1.65
WWR29J		5.800	-0.055	-0.33	5.900	-0.030	-0.21
X9UTAU		5.865	0.010	0.06	5.960	0.030	0.22
XCZE4L		5.845	-0.010	-0.06	5.970	0.040	0.29
XZ4BVL		5.495	-0.360	-2.18	5.685	-0.245	-1.76

Grand Means

5.8548 g/L as tartaric acid

Summary Statistics

5.9297 g/L as tartaric acid

Std Dev Btwn Labs

0.1649 g/L as tartaric acid

0.1393 g/L as tartaric acid

Statistics based on 73 of 82 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9030

EVEGU6 (X) - Data for both samples are high. Inconsistent within the determinations of sample SA66.

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

AYAG76 (X) - Data for sample SA66 are low.

8LQFB9 (X) - Inconsistent in testing between samples.

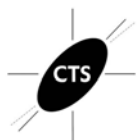
GPVB49 (X) - Data for both samples are low.

AUC3EA (X) - Data for both samples are high.

ANQA4A (X) - Inconsistent in testing between samples.

MXA3WT (X) - Inconsistent in testing between samples.

RP4UHN (X) - Data for both samples are low. Possible Systematic Error. Inconsistent within the determinations of sample SA65.

Analysis 9030
Titratable Acidity

Summer 2026

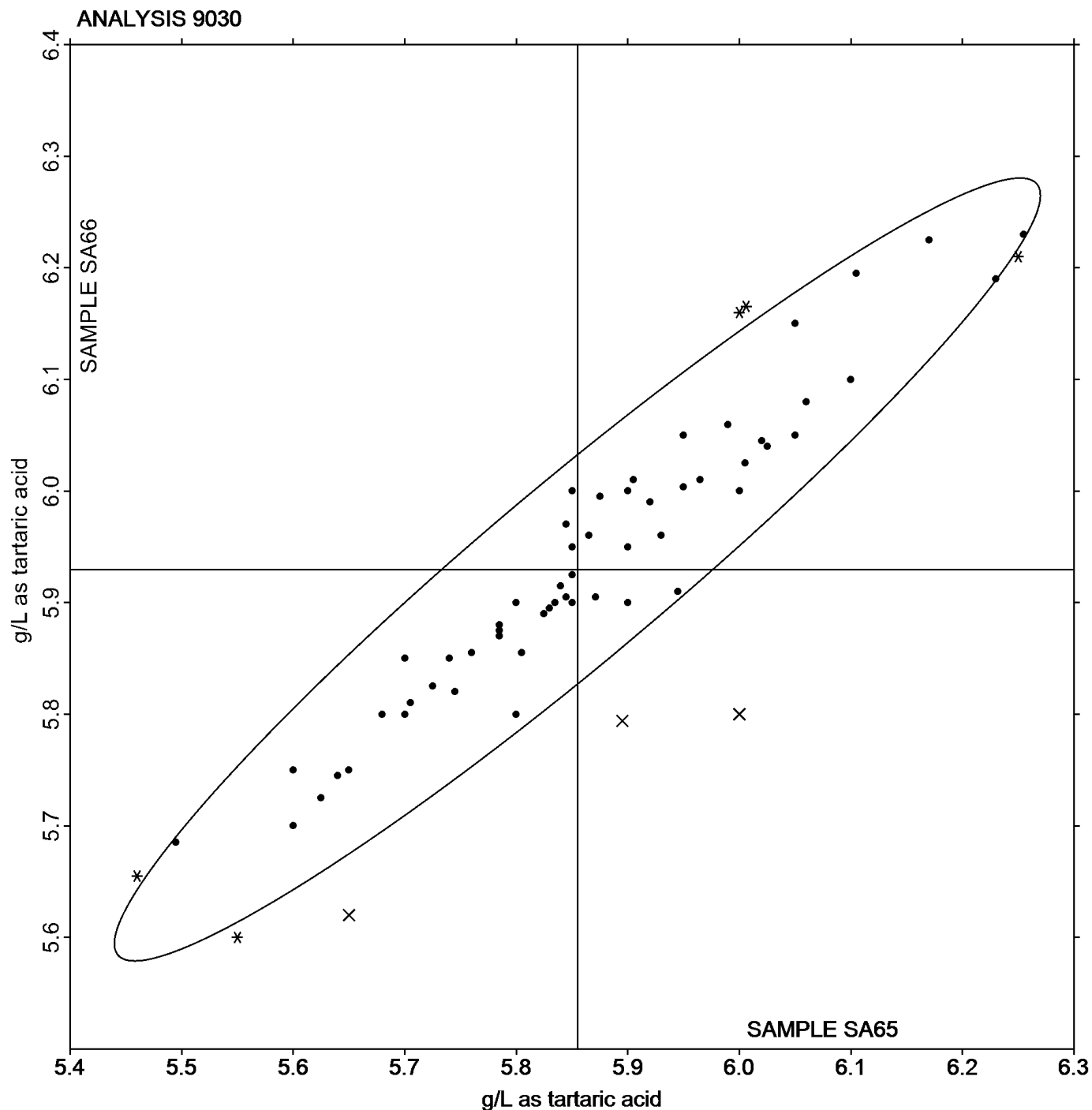
Results by Methodology (as reported by laboratory)

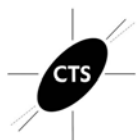
Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	5.770	0.193	-0.085	5.885	0.202	-0.045	4/5
Autotitration	5.860	0.149	0.005	5.929	0.128	-0.001	59/64
Manual Titration	6.008	0.156	0.153	6.023	0.121	0.093	4/5
FTIR	5.711	0.247	-0.144	5.853	0.201	-0.077	5/7
Segmented Flow Analyzer	6.000	0.000	0.145	6.160	0.000	0.230	1/1



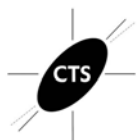
Analysis 9030
Titratable Acidity

Summer 2026



**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Analysis 9032****Summer 2026****Volatile Acidity**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		0.4700	0.0271	0.82	0.4700	0.0293	0.99
28BBHK		0.4650	0.0221	0.67	0.4550	0.0143	0.49
2B9PAF		0.4700	0.0271	0.82	0.4710	0.0303	1.03
2XMB7G	*	0.4300	-0.0129	-0.39	0.4000	-0.0407	-1.38
3HLZWF		0.4300	-0.0129	-0.39	0.4300	-0.0107	-0.36
43P7YF	X	0.5400	0.0971	2.93	0.5600	0.1193	4.04
67JLNE		0.4100	-0.0329	-0.99	0.4000	-0.0407	-1.38
6HEQWE		0.4250	-0.0179	-0.54	0.4350	-0.0057	-0.19
6M73RB		0.4700	0.0271	0.82	0.4700	0.0293	0.99
6UTPMG		0.4250	-0.0179	-0.54	0.4350	-0.0057	-0.19
7WWK7J		0.4850	0.0421	1.27	0.4650	0.0243	0.82
8LQFB9	*	0.5300	0.0871	2.62	0.5000	0.0593	2.01
8M236F		0.4250	-0.0179	-0.54	0.4200	-0.0207	-0.70
8NC4QE		0.4550	0.0121	0.36	0.4400	-0.0007	-0.02
8WRMBE		0.4300	-0.0129	-0.39	0.4250	-0.0157	-0.53
8XM7CF		0.4600	0.0171	0.51	0.4600	0.0193	0.65
9NV8YE		0.4403	-0.0027	-0.08	0.4500	0.0093	0.32
AD8TEA		0.4400	-0.0029	-0.09	0.4400	-0.0007	-0.02
ANQA4A		0.5100	0.0671	2.02	0.5100	0.0693	2.35
APWR26		0.3900	-0.0529	-1.60	0.3900	-0.0507	-1.71
AUC3EA		0.4900	0.0471	1.42	0.4900	0.0493	1.67
AYAG76		0.4850	0.0421	1.27	0.4750	0.0343	1.16
AZJTHF		0.4050	-0.0379	-1.14	0.4000	-0.0407	-1.38
B6BD3B		0.4350	-0.0079	-0.24	0.4250	-0.0157	-0.53
BAZZUA		0.4790	0.0361	1.09	0.4495	0.0088	0.30
BEUURB		0.4400	-0.0029	-0.09	0.4400	-0.0007	-0.02
BHEL3D		0.4000	-0.0429	-1.29	0.4100	-0.0307	-1.04
CDYBPA		0.4150	-0.0279	-0.84	0.4300	-0.0107	-0.36
CQRWV6		0.4650	0.0221	0.67	0.4650	0.0243	0.82
D7GGT4		0.4450	0.0021	0.06	0.4300	-0.0107	-0.36
DJYAD4		0.4750	0.0321	0.97	0.4650	0.0243	0.82
EKUE84		0.4300	-0.0129	-0.39	0.4350	-0.0057	-0.19
ERF6X6		0.4800	0.0371	1.12	0.4800	0.0393	1.33
EVEGU6		0.4220	-0.0209	-0.63	0.4000	-0.0407	-1.38
EZ37A9		0.4350	-0.0079	-0.24	0.4400	-0.0007	-0.02

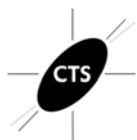


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9032 Volatile Acidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
F2VCAY		0.4050	-0.0379	-1.14	0.4250	-0.0157	-0.53
FA8DP9		0.4550	0.0121	0.36	0.4600	0.0193	0.65
FA9BZ4		0.4150	-0.0279	-0.84	0.4150	-0.0257	-0.87
FHJPL7		0.4800	0.0371	1.12	0.4800	0.0393	1.33
G3MUKY		0.4100	-0.0329	-0.99	0.4200	-0.0207	-0.70
GGP4N9		0.4100	-0.0329	-0.99	0.4200	-0.0207	-0.70
GK32Z2	*	0.5250	0.0821	2.47	0.5150	0.0743	2.52
GPVB49		0.3950	-0.0479	-1.45	0.3850	-0.0557	-1.88
GTZVXZ		0.4700	0.0271	0.82	0.4700	0.0293	0.99
GWGZQ4		0.4590	0.0161	0.48	0.4575	0.0168	0.57
H2AKBY		0.4100	-0.0329	-0.99	0.4050	-0.0357	-1.21
H8X83X		0.4500	0.0071	0.21	0.4500	0.0093	0.32
HC8KN3		0.4650	0.0221	0.67	0.4700	0.0293	0.99
HMLKE6		0.4400	-0.0029	-0.09	0.4400	-0.0007	-0.02
J223LY		0.4300	-0.0129	-0.39	0.4350	-0.0057	-0.19
JL89FZ		0.4300	-0.0129	-0.39	0.4360	-0.0047	-0.16
JQHLXY		0.4580	0.0151	0.45	0.4720	0.0313	1.06
K8LF6X		0.4150	-0.0279	-0.84	0.4200	-0.0207	-0.70
KH8JCX		0.4300	-0.0129	-0.39	0.4350	-0.0057	-0.19
L2CN97		0.4700	0.0271	0.82	0.4450	0.0043	0.15
LTJ9QT	X	0.4275	-0.0154	-0.47	0.4850	0.0443	1.50
LYPYTY	X	0.5000	0.0571	1.72	0.5550	0.1143	3.87
M8HG32		0.4255	-0.0174	-0.53	0.4295	-0.0112	-0.38
MEGWUU		0.4000	-0.0429	-1.29	0.4050	-0.0357	-1.21
MGKRDX		0.4700	0.0271	0.82	0.4800	0.0393	1.33
MHG9QU		0.4500	0.0071	0.21	0.4500	0.0093	0.32
MXA3WT	*	0.3500	-0.0929	-2.80	0.3700	-0.0707	-2.39
N4RUKX		0.4200	-0.0229	-0.69	0.4050	-0.0357	-1.21
N9PACU		0.4200	-0.0229	-0.69	0.4200	-0.0207	-0.70
NLTHCW		0.3950	-0.0479	-1.45	0.3950	-0.0457	-1.55
PC2JYW		0.4050	-0.0379	-1.14	0.4100	-0.0307	-1.04
PDW3ZX		0.4600	0.0171	0.51	0.4450	0.0043	0.15
Q474MX		0.4200	-0.0229	-0.69	0.4150	-0.0257	-0.87
QAAZCP		0.4400	-0.0029	-0.09	0.4400	-0.0007	-0.02
R9EGBN		0.4650	0.0221	0.67	0.4800	0.0393	1.33



**Analysis 9032
Volatile Acidity**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
REKDUN		0.4400	-0.0029	-0.09	0.4250	-0.0157	-0.53
RP4UHN		0.4200	-0.0229	-0.69	0.4100	-0.0307	-1.04
RXXWQR	X	0.5650	0.1221	3.68	0.5950	0.1543	5.22
TJ9JLV		0.4250	-0.0179	-0.54	0.4300	-0.0107	-0.36
TVN82M		0.4800	0.0371	1.12	0.4650	0.0243	0.82
TZH2YN		0.4100	-0.0329	-0.99	0.4200	-0.0207	-0.70
UVFPCM		0.4300	-0.0129	-0.39	0.4300	-0.0107	-0.36
UVJ9YQ	*	0.5100	0.0671	2.02	0.4800	0.0393	1.33
WRULHM		0.4200	-0.0229	-0.69	0.4350	-0.0057	-0.19
WWR29J		0.4250	-0.0179	-0.54	0.4300	-0.0107	-0.36
X9UTAU		0.4535	0.0106	0.32	0.4520	0.0113	0.38
XCZE4L		0.4950	0.0521	1.57	0.4750	0.0343	1.16
XZ4BVL		0.4800	0.0371	1.12	0.4600	0.0193	0.65

Grand Means

0.44294 g/L as acetic acid

Summary Statistics

0.44066 g/L as acetic acid

Std Dev Btwn Labs

0.03317 g/L as acetic acid

0.02955 g/L as acetic acid

Statistics based on 79 of 83 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

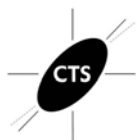
Comments on Assigned Data Flags for Test #9032

LYPYTY (X) - Inconsistent in testing, data for sample SA66 are high.

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

LTJ9QT (X) - Inconsistent in testing between samples. Inconsistent within the determinations of sample SA66.

43P7YF (X) - Data for both samples are high. Possible Systematic Error.



Analysis 9032

Volatile Acidity

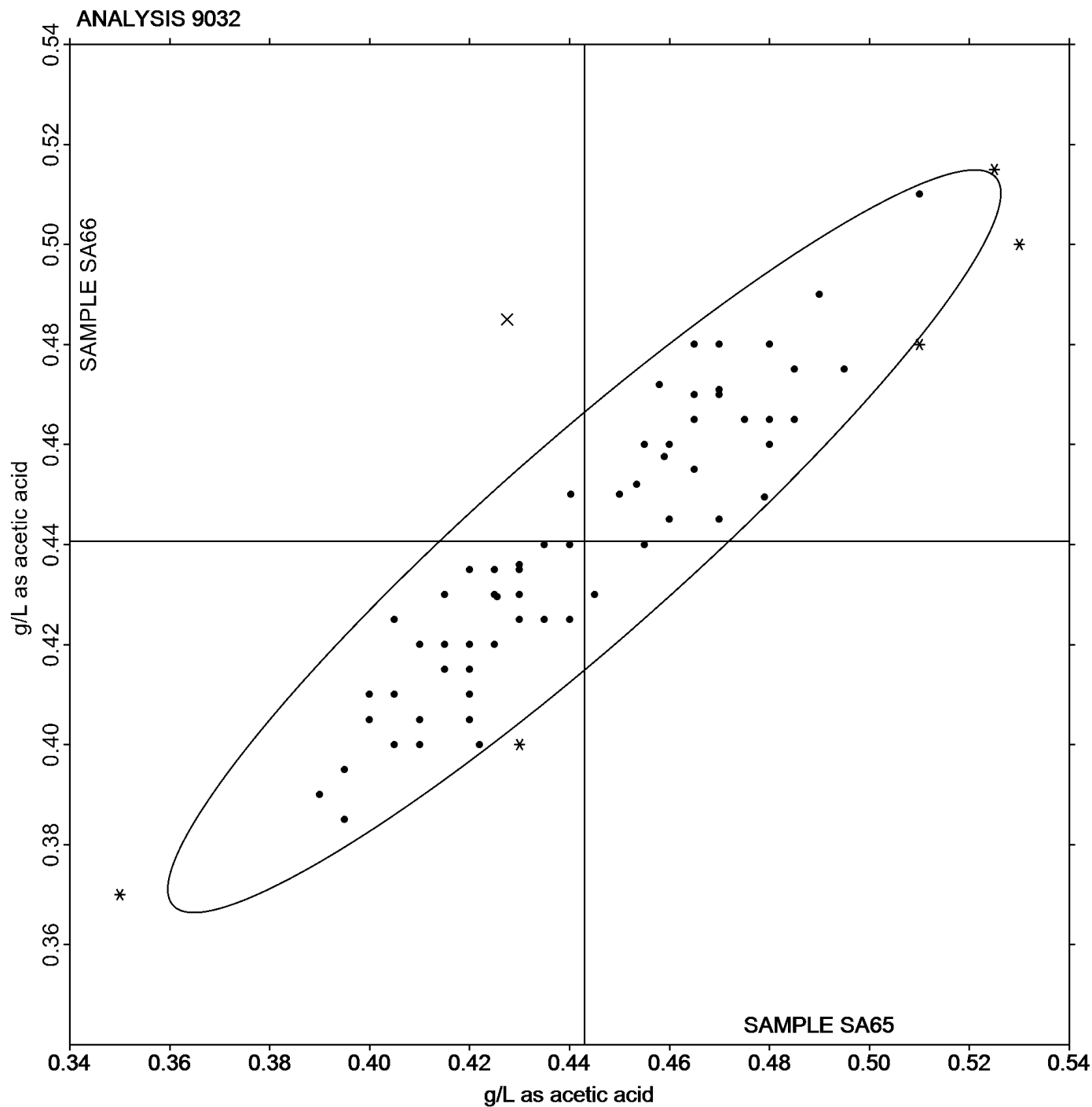
Results by Methodology (as reported by laboratory)

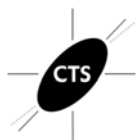
Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method	0.474	0.043	0.0306	0.464	0.045	0.0230	4/4
Cash Still method	0.442	0.079	-0.0013	0.442	0.063	0.0010	3/4
Enzymatic method	0.436	0.025	-0.0072	0.436	0.024	-0.0046	61/63
Colorimetric Analysis	0.440	0.042	-0.0029	0.436	0.050	-0.0052	2/2
Seg. Flow / Colorimetric Analyzer	0.490	0.017	0.0471	0.485	0.023	0.0443	3/3
FTIR	0.474	0.042	0.0312	0.451	0.037	0.0102	6/7



Analysis 9032
Volatile Acidity

Summer 2026



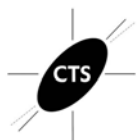


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9040 Specific Gravity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28BBHK		0.9964	-0.0001	-0.20	0.9963	0.0000	-0.10
2B9PAF		0.9966	0.0001	0.24	0.9965	0.0001	0.23
2XMB7G		0.9967	0.0002	0.39	0.9965	0.0002	0.38
3HLZWF		0.9965	0.0000	-0.09	0.9962	-0.0001	-0.31
43P7YF	*	0.9948	-0.0017	-3.58	0.9947	-0.0016	-3.50
67JLNE		0.9960	-0.0005	-1.04	0.9960	-0.0003	-0.74
6HEQWE		0.9966	0.0001	0.22	0.9964	0.0001	0.11
6M73RB		0.9966	0.0001	0.29	0.9965	0.0001	0.23
6UTPMG		0.9975	0.0010	2.13	0.9972	0.0009	1.81
7WWK7J		0.9968	0.0003	0.54	0.9966	0.0003	0.54
8LQFB9		0.9966	0.0001	0.17	0.9964	0.0001	0.15
8NC4QE		0.9972	0.0007	1.47	0.9971	0.0007	1.58
8WRMBE	*	0.9966	0.0001	0.29	0.9963	-0.0001	-0.17
8XM7CF		0.9966	0.0001	0.29	0.9966	0.0003	0.62
9NV8YE		0.9964	-0.0001	-0.25	0.9961	-0.0002	-0.53
AD8TEA		0.9970	0.0005	1.07	0.9968	0.0004	0.85
AKP237		0.9966	0.0001	0.27	0.9965	0.0001	0.25
ANQA4A	X	0.9930	-0.0035	-7.39	0.9930	-0.0033	-7.12
APWR26		0.9961	-0.0004	-0.83	0.9960	-0.0004	-0.85
AUC3EA		0.9967	0.0002	0.39	0.9965	0.0002	0.40
AYAG76		0.9964	-0.0001	-0.30	0.9963	-0.0001	-0.21
AZJTHF		0.9968	0.0003	0.54	0.9967	0.0004	0.75
B6BD3B		0.9962	-0.0003	-0.73	0.9960	-0.0003	-0.74
BAZZUA	X	0.9943	-0.0022	-4.64	0.9943	-0.0021	-4.46
BEURB		0.9966	0.0001	0.20	0.9965	0.0001	0.22
BHEL3D		0.9966	0.0001	0.22	0.9965	0.0002	0.32
CDYBPA		0.9970	0.0005	1.07	0.9968	0.0005	0.96
CQRWV6		0.9966	0.0001	0.24	0.9965	0.0001	0.24
DJYAD4	X	0.9947	-0.0018	-3.90	0.9944	-0.0019	-4.14
EKUE84	X	0.9972	0.0007	1.49	0.9968	0.0005	0.96
ERF6X6		0.9966	0.0001	0.14	0.9964	0.0001	0.15
EVEGU6		0.9967	0.0002	0.33	0.9967	0.0003	0.72
EZ37A9		0.9966	0.0001	0.22	0.9965	0.0002	0.32
FA8DP9		0.9966	0.0001	0.22	0.9965	0.0001	0.22
FA9BZ4		0.9967	0.0002	0.36	0.9966	0.0002	0.46

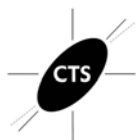


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9040 Specific Gravity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FWMVW6	X	0.9925	-0.0040	-8.44	0.9925	-0.0038	-8.18
GGP4N9	X	0.9940	-0.0025	-5.27	0.9940	-0.0023	-4.99
GK32Z2		0.9966	0.0001	0.22	0.9965	0.0001	0.23
GPVB49		0.9971	0.0006	1.18	0.9970	0.0006	1.28
GTZVXZ		0.9967	0.0002	0.44	0.9966	0.0002	0.43
GWGZQ4		0.9960	-0.0005	-1.04	0.9958	-0.0006	-1.27
H2AKBY		0.9967	0.0002	0.39	0.9965	0.0002	0.39
H8X83X		0.9962	-0.0003	-0.62	0.9960	-0.0003	-0.74
HC8KN3		0.9966	0.0001	0.20	0.9964	0.0001	0.14
HMLKE6		0.9967	0.0002	0.33	0.9964	0.0001	0.11
J223LY		0.9965	0.0000	-0.09	0.9964	0.0001	0.11
JL89FZ		0.9962	-0.0003	-0.62	0.9962	-0.0001	-0.31
JQHLXY		0.9966	0.0001	0.24	0.9965	0.0001	0.23
K8LF6X		0.9965	0.0000	-0.09	0.9963	0.0000	-0.10
KH8JCX		0.9967	0.0002	0.33	0.9966	0.0002	0.43
L2CN97		0.9974	0.0009	1.85	0.9972	0.0009	1.86
LTJ9QT		0.9965	0.0000	-0.06	0.9962	-0.0001	-0.31
M8HG32		0.9966	0.0001	0.12	0.9964	0.0000	0.00
MEGWUU		0.9966	0.0001	0.22	0.9965	0.0001	0.22
MHG9QU		0.9966	0.0001	0.28	0.9965	0.0001	0.30
N4RUKX		0.9966	0.0001	0.30	0.9965	0.0001	0.30
N9PACU		0.9966	0.0001	0.12	0.9965	0.0002	0.32
NLTHCW	*	0.9948	-0.0017	-3.62	0.9947	-0.0017	-3.59
PC2JYW		0.9963	-0.0002	-0.41	0.9961	-0.0002	-0.53
PDW3ZX		0.9967	0.0002	0.40	0.9965	0.0002	0.38
QAAZCP		0.9964	-0.0001	-0.30	0.9963	-0.0001	-0.21
R9EGBN		0.9965	0.0000	0.01	0.9964	0.0001	0.11
REKDUN	X	0.9967	0.0002	0.33	0.9961	-0.0002	-0.53
TJ9JLV		0.9970	0.0005	1.07	0.9970	0.0007	1.39
TP2GER		0.9966	0.0001	0.17	0.9964	0.0001	0.16
TVN82M		0.9968	0.0003	0.65	0.9966	0.0003	0.54
TZH2YN	X	0.9969	0.0004	0.95	0.9956	-0.0007	-1.56
UVFPCM	X	0.9948	-0.0017	-3.58	0.9950	-0.0014	-2.97
UVJ9YQ	X	0.9933	-0.0032	-6.75	0.9933	-0.0030	-6.48
WWR29J		0.9964	-0.0001	-0.20	0.9963	-0.0001	-0.21



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9040
Specific Gravity

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
X9UTAU		0.9966	0.0001	0.22	0.9965	0.0002	0.32
XCZE4L	*	0.9948	-0.0017	-3.55	0.9947	-0.0017	-3.56
XZ4BVL		0.9968	0.0003	0.71	0.9967	0.0003	0.71

Grand Means

0.99649 sp gr 20/20 C

Summary Statistics

0.99635 sp gr 20/20 C

Std Dev Btwn Labs

0.00047 sp gr 20/20 C

0.00047 sp gr 20/20 C

Statistics based on 63 of 73 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

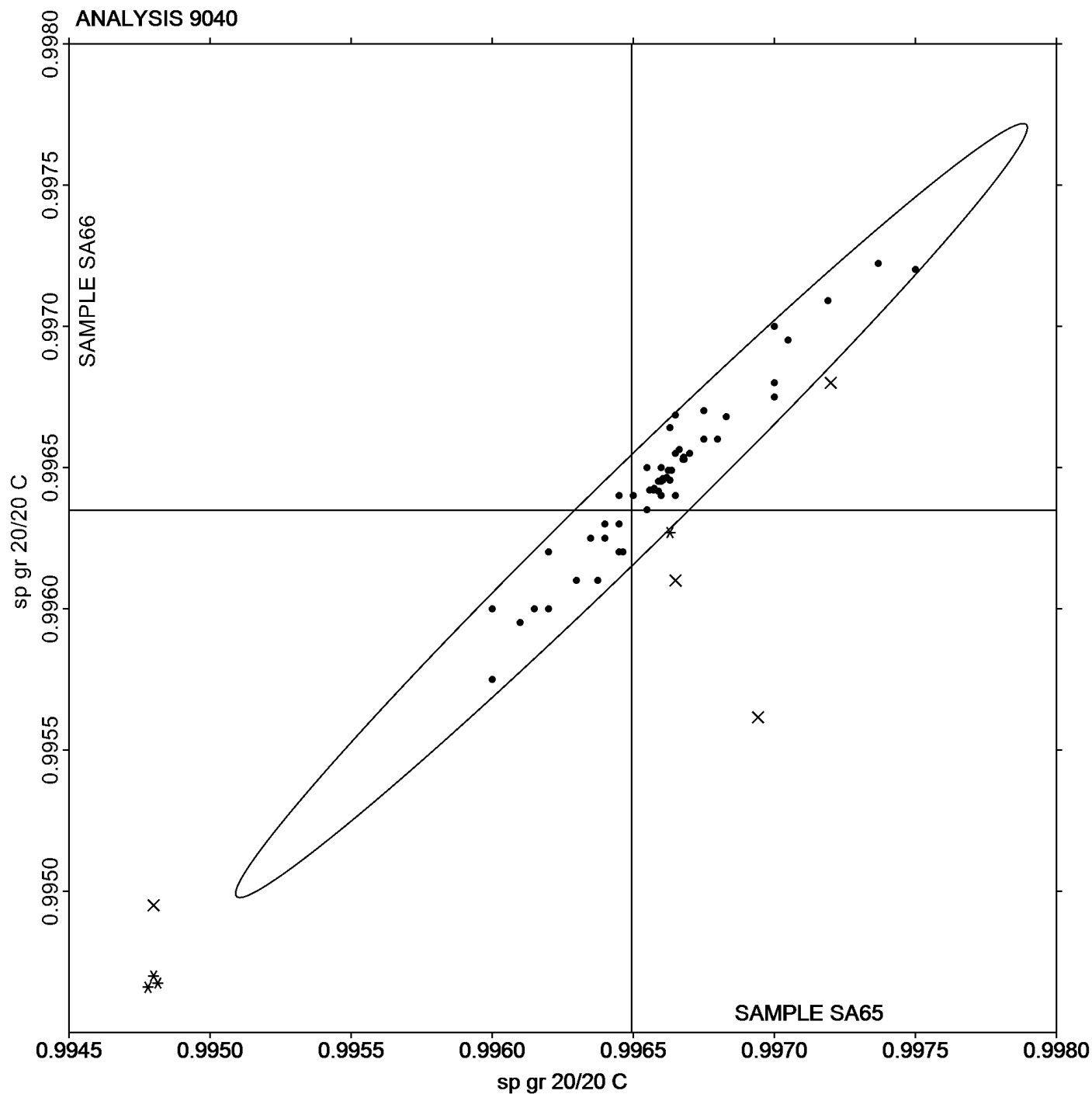
Comments on Assigned Data Flags for Test #9040

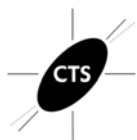
- TZH2YN (X) - Inconsistent in testing between samples.
- REKDUN (X) - Inconsistent in testing between samples.
- GGP4N9 (X) - Data for both samples are low.
- BAZZUA (X) - Data for both samples are low.
- UVJ9YQ (X) - Data for both samples are low.
- EKUE84 (X) - Inconsistent in testing between samples. Inconsistent within the determinations of both samples.
- FWMVW6 (X) - Data for both samples are low. Inconsistent within the determinations of both samples.
- ANQA4A (X) - Data for both samples are low.
- UVFPCM (X) - Data for both samples are low. Inconsistent within the determinations of sample SA65.
- DJYAD4 (X) - Data for both samples are low. Possible Systematic Error.



Analysis 9040
Specific Gravity

Summer 2026





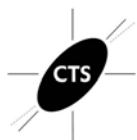
ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9045

Turbidity

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
28BBHK		0.4700	0.2420	2.34	0.5400	0.2873	2.45
2B9PAF		0.3395	0.1115	1.08	0.3725	0.1198	1.02
3HLZWF	M	0.2600	0.0320	0.31	No data reported for this sample		
6HEQWE		0.1850	-0.0430	-0.42	0.2160	-0.0367	-0.31
6UTPMG		0.0150	-0.2130	-2.06	0.0200	-0.2327	-1.98
8LQFB9		0.3000	0.0720	0.70	0.3600	0.1073	0.91
8NC4QE		0.2150	-0.0130	-0.13	0.3100	0.0573	0.49
8WRMBE		0.2700	0.0420	0.41	0.2800	0.0273	0.23
9NV8YE		0.3595	0.1315	1.27	0.3055	0.0528	0.45
AD8TEA		0.1640	-0.0640	-0.62	0.2085	-0.0442	-0.38
AKP237		0.2000	-0.0280	-0.27	0.2500	-0.0027	-0.02
ANQA4A	*	0.2400	0.0120	0.12	0.4200	0.1673	1.42
AUC3EA		0.2800	0.0520	0.50	0.4240	0.1713	1.46
AYAG76		0.1650	-0.0630	-0.61	0.1650	-0.0877	-0.75
AZJTHF		0.1600	-0.0680	-0.66	0.1250	-0.1277	-1.09
B6BD3B		0.2750	0.0470	0.45	0.2950	0.0423	0.36
BAZZUA		0.3830	0.1550	1.50	0.3440	0.0913	0.78
D7GGT4		0.2500	0.0220	0.21	0.2500	-0.0027	-0.02
DJYAD4		0.2950	0.0670	0.65	0.3200	0.0673	0.57
EKUE84		0.1935	-0.0345	-0.33	0.2510	-0.0017	-0.01
EVEGU6		0.1500	-0.0780	-0.75	0.1300	-0.1227	-1.04
F2VCAY		0.2000	-0.0280	-0.27	0.2100	-0.0427	-0.36
FA8DP9		0.0755	-0.1525	-1.47	0.0915	-0.1612	-1.37
FA9BZ4		0.1530	-0.0750	-0.72	0.1475	-0.1052	-0.90
FWMVW6	X	0.5600	0.3320	3.21	0.4750	0.2223	1.89
GK32Z2		0.2385	0.0105	0.10	0.2220	-0.0307	-0.26
GPVB49		0.3600	0.1320	1.28	0.3100	0.0573	0.49
H2AKBY	*	0.4500	0.2220	2.15	0.3500	0.0973	0.83
H8X83X		0.2075	-0.0205	-0.20	0.2425	-0.0102	-0.09
JL89FZ		0.2450	0.0170	0.16	0.2150	-0.0377	-0.32
K8LF6X		0.1675	-0.0605	-0.58	0.1840	-0.0687	-0.58
KH8JCX		0.2150	-0.0130	-0.13	0.2250	-0.0277	-0.24
L2CN97		0.1510	-0.0770	-0.74	0.1765	-0.0762	-0.65
LTJ9QT		0.0400	-0.1880	-1.82	0.0800	-0.1727	-1.47
LYPYTY		0.1750	-0.0530	-0.51	0.2100	-0.0427	-0.36



ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9045
Turbidity

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
M8HG32		0.2350	0.0070	0.07	0.2050	-0.0477	-0.41
MGKRDX	*	0.4800	0.2520	2.44	0.6100	0.3573	3.04
MHG9QU		0.2500	0.0220	0.21	0.3000	0.0473	0.40
MXA3WT	X	0.5000	0.2720	2.63	0.2090	-0.0437	-0.37
N4RUKX		0.3440	0.1160	1.12	0.2905	0.0378	0.32
N9PACU		0.1665	-0.0615	-0.59	0.1800	-0.0727	-0.62
NLTHCW		0.2050	-0.0230	-0.22	0.2750	0.0223	0.19
PC2JYW		0.4500	0.2220	2.15	0.4700	0.2173	1.85
PDW3ZX		0.1910	-0.0370	-0.36	0.2780	0.0253	0.22
QAAZCP		0.2305	0.0025	0.02	0.3195	0.0668	0.57
R9EGBN		0.1780	-0.0500	-0.48	0.1710	-0.0817	-0.70
REKDUN		0.0200	-0.2080	-2.01	0.0310	-0.2217	-1.89
RXXWQR		0.1000	-0.1280	-1.24	0.2000	-0.0527	-0.45
TJ9JLV	*	0.2600	0.0320	0.31	0.4400	0.1873	1.60
TZH2YN		0.2000	-0.0280	-0.27	0.2000	-0.0527	-0.45
UVFPCM		0.2650	0.0370	0.36	0.3300	0.0773	0.66
WRULHM		0.2150	-0.0130	-0.13	0.2155	-0.0372	-0.32
WWR29J		0.1225	-0.1055	-1.02	0.1160	-0.1367	-1.16
X9UTAU		0.1605	-0.0675	-0.65	0.1905	-0.0622	-0.53
XCZE4L		0.2090	-0.0190	-0.18	0.1825	-0.0702	-0.60
XZ4BVL		0.2145	-0.0135	-0.13	0.1375	-0.1152	-0.98

Grand Means

0.22800 NTU

Summary Statistics

0.25269 NTU

Std Dev Btwn Labs

0.10347 NTU

0.11743 NTU

Statistics based on 53 of 56 reporting participants

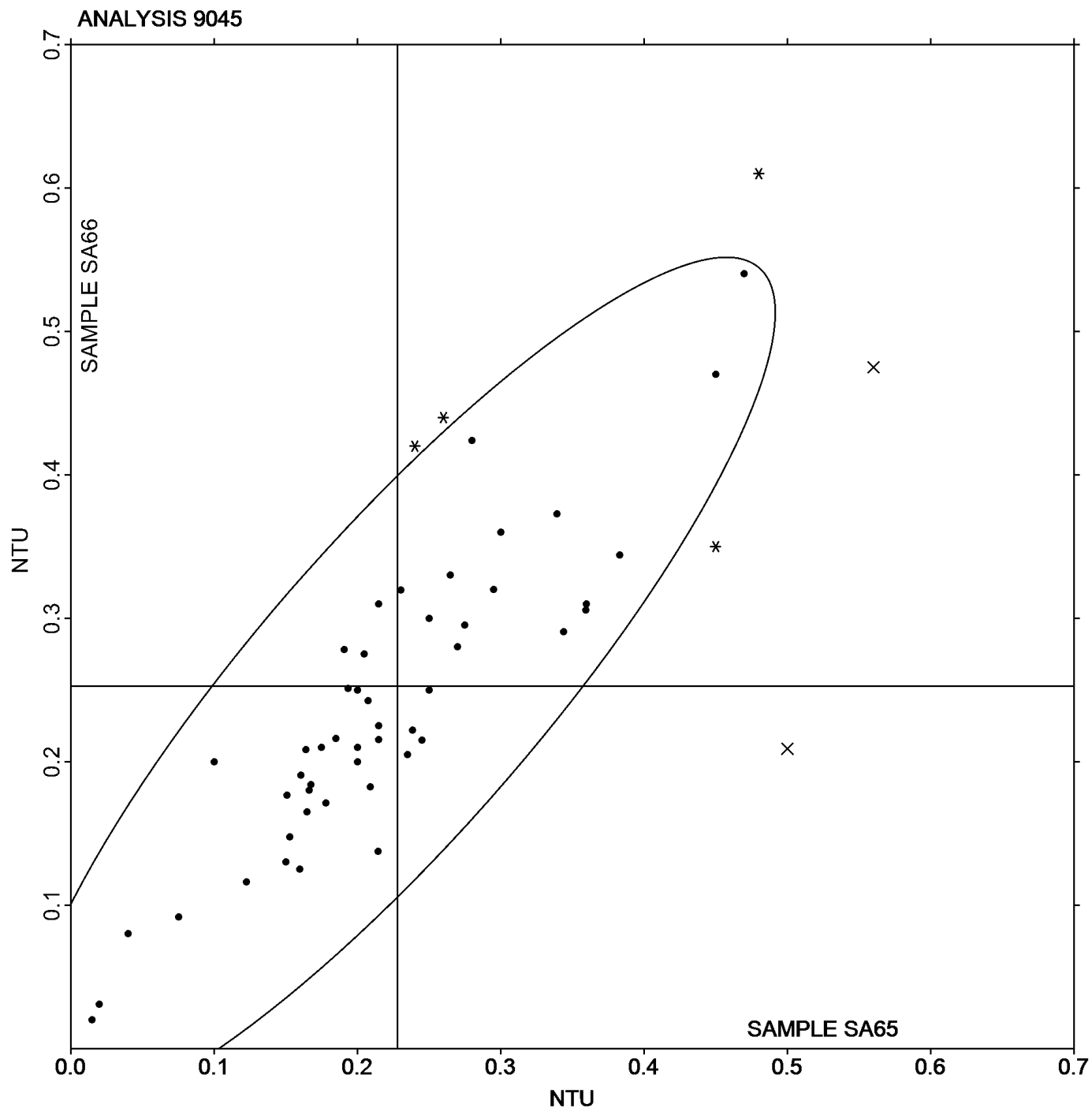
Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

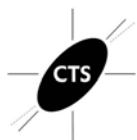
Comments on Assigned Data Flags for Test #9045

3HLZWF (M) - Participant did not submit data for sample SA66.

FWMVW6 (X) - Data for sample SA65 are high.

MXA3WT (X) - Inconsistent in testing between samples.





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9050
Residual Sugar

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
43P7YF		7.000	1.248	0.82	8.000	1.640	1.02
8LQFB9		7.100	1.348	0.89	7.500	1.140	0.71
9NV8YE		5.050	-0.702	-0.46	5.815	-0.545	-0.34
ANQA4A	*	1.760	-3.993	-2.62	1.940	-4.420	-2.75
AUC3EA		7.100	1.348	0.89	7.600	1.240	0.77
AYAG76		6.650	0.898	0.59	7.300	0.940	0.58
AZJTHF		4.505	-1.247	-0.82	5.275	-1.085	-0.67
BAZZUA		8.850	3.098	2.04	9.550	3.190	1.98
ERF6X6		6.200	0.448	0.29	7.050	0.690	0.43
EVEGU6		4.380	-1.372	-0.90	5.045	-1.315	-0.82
FA8DP9		4.950	-0.802	-0.53	5.300	-1.060	-0.66
H2AKBY		5.125	-0.627	-0.41	5.575	-0.785	-0.49
L2CN97		5.650	-0.102	-0.07	5.900	-0.460	-0.29
MHG9QU		6.300	0.548	0.36	6.900	0.540	0.34
N4RUKX		5.350	-0.403	-0.26	5.400	-0.960	-0.60
NLTHCW		5.850	0.098	0.06	6.300	-0.060	-0.04
RXXWQR	*	4.925	-0.828	-0.54	6.910	0.550	0.34
TJ9JLV		5.750	-0.002	0.00	5.950	-0.410	-0.25
UVFPCM		4.605	-1.147	-0.75	5.345	-1.015	-0.63
XZ4BVL		7.950	2.198	1.44	8.550	2.190	1.36

Grand Means

5.7525 g/L

Summary Statistics

6.3603 g/L

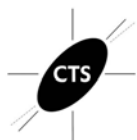
Std Dev Btwn Labs

1.5220 g/L

1.6103 g/L

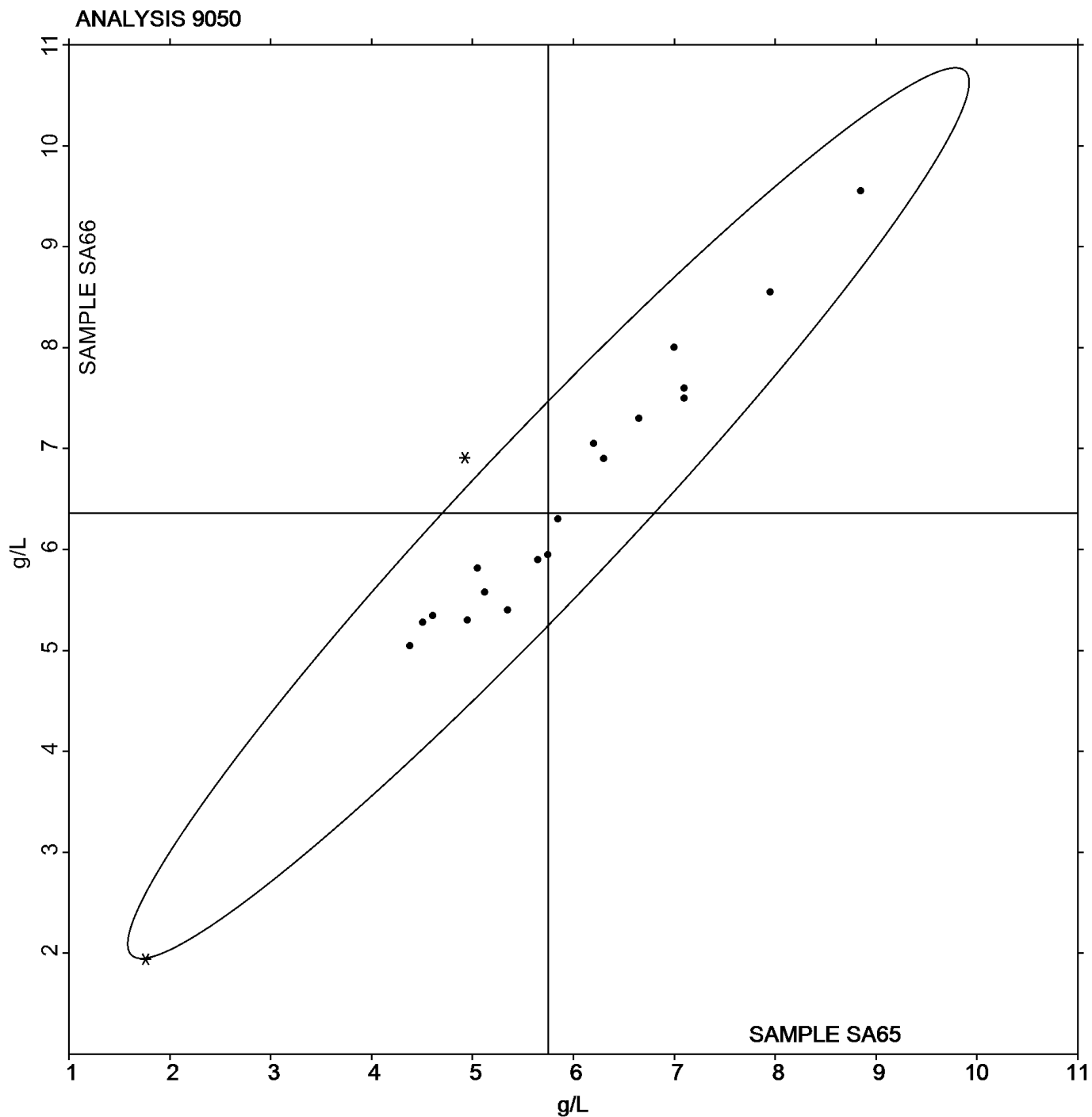
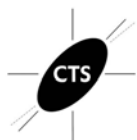
Statistics based on 20 of 20 reporting participants

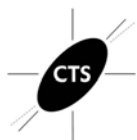
Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot



Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	6.728	3.002	0.975	7.448	2.973	1.087	2/2
Cu Reduction Method	5.287	3.055	-0.466	5.847	3.389	-0.514	3/3
HPLC	5.850	0.000	0.098	6.300	0.000	-0.060	1/1
Segmented Flow	6.200	0.000	0.448	7.050	0.000	0.690	1/1
FTIR	6.213	0.991	0.460	6.600	1.149	0.240	8/8
Other	4.797	0.334	-0.956	5.724	0.725	-0.636	5/5



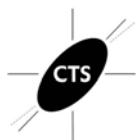


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9051 Glucose + Fructose

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
264TJN		4.830	0.075	0.35	5.560	0.086	0.36
28BBHK		4.700	-0.055	-0.26	5.400	-0.074	-0.31
2B9PAF		5.260	0.505	2.35	6.000	0.526	2.19
2XMB7G		4.400	-0.355	-1.66	5.100	-0.374	-1.55
3HLZWF		4.675	-0.080	-0.38	5.525	0.051	0.21
67JLNE		4.680	-0.075	-0.35	5.385	-0.089	-0.37
6HEQWE		4.750	-0.005	-0.03	5.550	0.076	0.32
6M73RB		5.150	0.395	1.84	5.900	0.426	1.77
6UTPMG		4.745	-0.010	-0.05	5.330	-0.144	-0.60
7WWK7J		4.600	-0.155	-0.73	5.350	-0.124	-0.52
8LQFB9		4.800	0.045	0.21	5.400	-0.074	-0.31
8M236F		4.415	-0.340	-1.59	5.155	-0.319	-1.33
8NC4QE		4.885	0.130	0.60	5.545	0.071	0.29
8WRMBE		4.830	0.075	0.35	5.555	0.081	0.34
8XM7CF		4.800	0.045	0.21	5.450	-0.024	-0.10
9NV8YE		5.050	0.295	1.37	5.818	0.343	1.43
AD8TEA		4.852	0.097	0.45	5.747	0.273	1.13
ANQA4A		4.730	-0.025	-0.12	5.470	-0.004	-0.02
APWR26		4.675	-0.080	-0.38	5.405	-0.069	-0.29
AUC3EA	X	4.585	-0.170	-0.80	5.020	-0.454	-1.89
AYAG76		4.675	-0.080	-0.38	5.500	0.026	0.11
AZJTHF		4.505	-0.250	-1.17	5.275	-0.199	-0.83
B6BD3B		4.750	-0.005	-0.03	5.600	0.126	0.52
BAZZUA	X	5.450	0.695	3.24	5.900	0.426	1.77
BEURB		4.600	-0.155	-0.73	5.200	-0.274	-1.14
BHEL3D		4.800	0.045	0.21	5.600	0.126	0.52
CDYBPA		4.765	0.010	0.04	5.418	-0.056	-0.23
CQRWV6		5.000	0.245	1.14	5.850	0.376	1.56
D7GGT4		4.675	-0.080	-0.38	5.280	-0.194	-0.81
DJYAD4		4.750	-0.005	-0.03	5.440	-0.034	-0.14
EKUE84		4.445	-0.310	-1.45	5.150	-0.324	-1.35
ERF6X6		4.695	-0.060	-0.28	5.410	-0.064	-0.27
EZ37A9		4.705	-0.050	-0.24	5.345	-0.129	-0.54
F2VCAY	X	3.825	-0.930	-4.34	3.835	-1.639	-6.81
FA8DP9		4.865	0.110	0.51	5.575	0.101	0.42

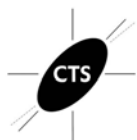


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9051 Glucose + Fructose

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
FA9BZ4		4.495	-0.260	-1.22	5.090	-0.384	-1.60
FHJPL7		4.910	0.155	0.72	5.690	0.216	0.90
G3MUKY		4.580	-0.175	-0.82	5.270	-0.204	-0.85
GGP4N9		4.725	-0.030	-0.14	5.335	-0.139	-0.58
GK32Z2		4.940	0.185	0.86	5.650	0.176	0.73
GPVB49		4.950	0.195	0.91	5.700	0.226	0.94
GTZVXZ	X	5.500	0.745	3.47	5.950	0.476	1.98
GWGZQ4		5.044	0.288	1.34	5.783	0.309	1.28
H2AKBY	X	5.640	0.885	4.13	5.880	0.406	1.69
H8X83X		4.820	0.065	0.30	5.575	0.101	0.42
HC8KN3		5.200	0.445	2.07	5.950	0.476	1.98
HMLKE6		4.620	-0.135	-0.63	5.320	-0.154	-0.64
J223LY		4.650	-0.105	-0.49	5.450	-0.024	-0.10
JL89FZ	*	5.300	0.545	2.54	6.050	0.576	2.39
JQHLXY		4.865	0.110	0.51	5.780	0.306	1.27
K8LF6X		4.650	-0.105	-0.49	5.350	-0.124	-0.52
KH8JCX		4.655	-0.100	-0.47	5.355	-0.119	-0.49
LTJ9QT		4.685	-0.070	-0.33	5.315	-0.159	-0.66
LYPYTY		4.570	-0.185	-0.87	5.265	-0.209	-0.87
M8HG32		5.010	0.255	1.19	5.695	0.221	0.92
MEGWUU		4.535	-0.220	-1.03	5.235	-0.239	-0.99
MGKRDY	X	5.715	0.960	4.48	6.495	1.021	4.24
MHG9QU		4.800	0.045	0.21	5.400	-0.074	-0.31
N4RUKX		4.715	-0.040	-0.19	5.610	0.136	0.56
N9PACU		4.750	-0.005	-0.03	5.450	-0.024	-0.10
NLTHCW	*	4.190	-0.565	-2.64	4.865	-0.609	-2.53
PC2JYW		4.740	-0.015	-0.07	5.480	0.006	0.02
PDW3ZX	X	5.855	1.100	5.13	6.765	1.291	5.37
Q474MX		4.775	0.020	0.09	5.480	0.006	0.02
QAAZCP		4.900	0.145	0.67	5.600	0.126	0.52
R9EGBN		4.550	-0.205	-0.96	5.350	-0.124	-0.52
REKDUN		4.645	-0.110	-0.52	5.190	-0.284	-1.18
RP4UHN		4.350	-0.405	-1.89	5.000	-0.474	-1.97
TJ9JLV		4.750	-0.005	-0.03	5.450	-0.024	-0.10
TP2GER		5.050	0.295	1.37	5.900	0.426	1.77



Analysis 9051

Glucose + Fructose

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TVN82M		4.750	-0.005	-0.03	5.500	0.026	0.11
TZH2YN		5.150	0.395	1.84	5.770	0.296	1.23
UVJ9YQ	X	4.100	-0.655	-3.06	4.950	-0.524	-2.18
WRULHM		4.750	-0.005	-0.03	5.365	-0.109	-0.45
WWR29J		4.715	-0.040	-0.19	5.335	-0.139	-0.58
X9UTAU		4.955	0.200	0.93	5.660	0.186	0.77
XCZE4L	*	4.330	-0.425	-1.98	5.160	-0.314	-1.31
XZ4BVL	X	5.500	0.745	3.47	5.900	0.426	1.77

Grand Means

4.7554 g/L

Summary Statistics

5.4741 g/L

Std Dev Btwn Labs

0.2143 g/L

0.2406 g/L

Statistics based on 69 of 78 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9051

MGKRD (X) - Data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA66.

GTZVX (X) - Inconsistent in testing, data for sample SA65 are high.

F2VCAY (X) - Data for both samples are low. Possible Systematic Error.

H2AKBY (X) - Inconsistent in testing, data for sample SA65 are high.

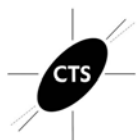
BAZZUA (X) - Inconsistent in testing, data for sample SA65 are high.

UVJ9YQ (X) - Inconsistent in testing, data for sample SA65 are low.

PDW3ZX (X) - Inconsistent in testing, data for both samples are high. Possible Systematic Error. Inconsistent within the determinations of sample SA65.

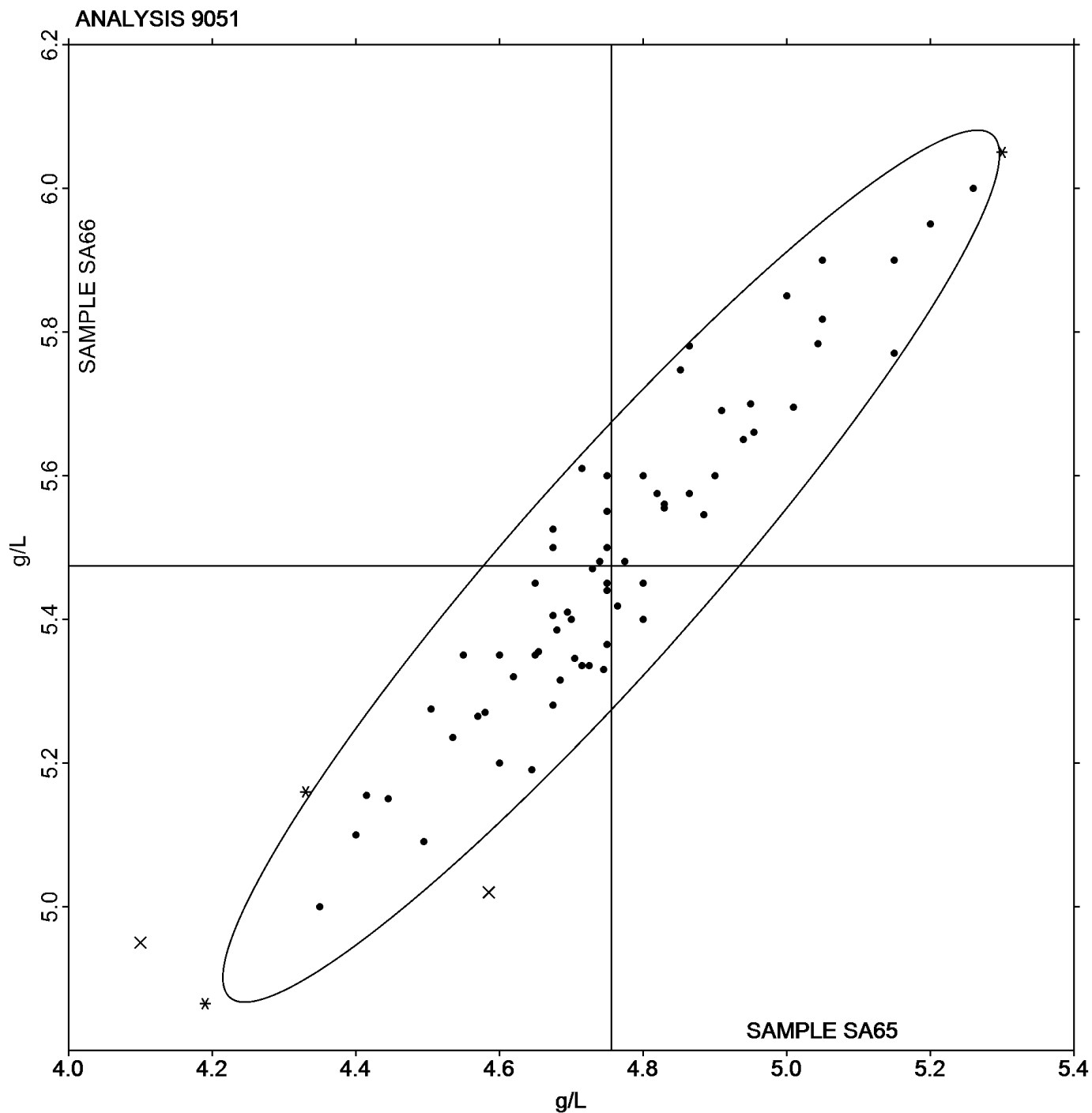
XZ4BVL (X) - Inconsistent in testing, data for sample SA65 are high. Inconsistent within the determinations of sample SA65.

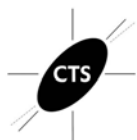
AUC3EA (X) - Inconsistent in testing between samples.



Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	4.840	0.141	0.085	5.565	0.120	0.091	2/3
HPLC	4.873	0.251	0.117	5.655	0.346	0.181	2/2
Enzymatic/Spectrophotometric	4.745	0.215	-0.011	5.460	0.239	-0.014	64/70
FTIR							0/2
Other	5.050	0.000	0.295	5.818	0.000	0.343	1/1





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9060
Copper Content

Report #083
Summer 2026

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9PAF		0.0400	-0.0187	-0.57	0.0400	-0.0220	-0.51
43P7YF		0.0300	-0.0287	-0.87	0.0200	-0.0420	-0.98
8LQFB9		0.0900	0.0313	0.95	0.1000	0.0380	0.88
AD8TEA	*	0.1200	0.0613	1.86	0.1850	0.1230	2.86
AYAG76		0.0370	-0.0217	-0.66	0.0410	-0.0210	-0.49
CQRWV6		0.1000	0.0413	1.25	0.1000	0.0380	0.88
ERF6X6		0.0300	-0.0287	-0.87	0.0300	-0.0320	-0.74
FA8DP9		0.0900	0.0313	0.95	0.0750	0.0130	0.30
GK32Z2		0.0500	-0.0087	-0.26	0.0500	-0.0120	-0.28
GTZVXZ		0.0900	0.0313	0.95	0.0800	0.0180	0.42
HC8KN3		0.1000	0.0413	1.25	0.1000	0.0380	0.88
JQHLXY		0.0315	-0.0272	-0.83	0.0270	-0.0350	-0.81
MHG9QU		0.0400	-0.0187	-0.57	0.0400	-0.0220	-0.51
N4RUKX		0.0200	-0.0387	-1.17	0.0300	-0.0320	-0.74
N9PACU		0.0335	-0.0252	-0.76	0.0335	-0.0285	-0.66
NLTHCW	X	0.2395	0.1808	5.48	0.2400	0.1780	4.13
QAAZCP		0.0375	-0.0212	-0.64	0.0410	-0.0210	-0.49
XCZE4L	X	0.0680	0.0093	0.28	0.2625	0.2005	4.66

Grand Means

0.05872 mg/L

Summary Statistics

0.06203 mg/L

Stnd Dev Btwn Labs

0.03299 mg/L

0.04305 mg/L

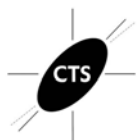
Statistics based on 16 of 18 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9060

XCZE4L (X) - High data for Sample SA66.

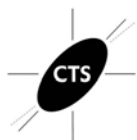
NLTHCW (X) - Data for both samples are high.



**Analysis 9060
Copper Content**

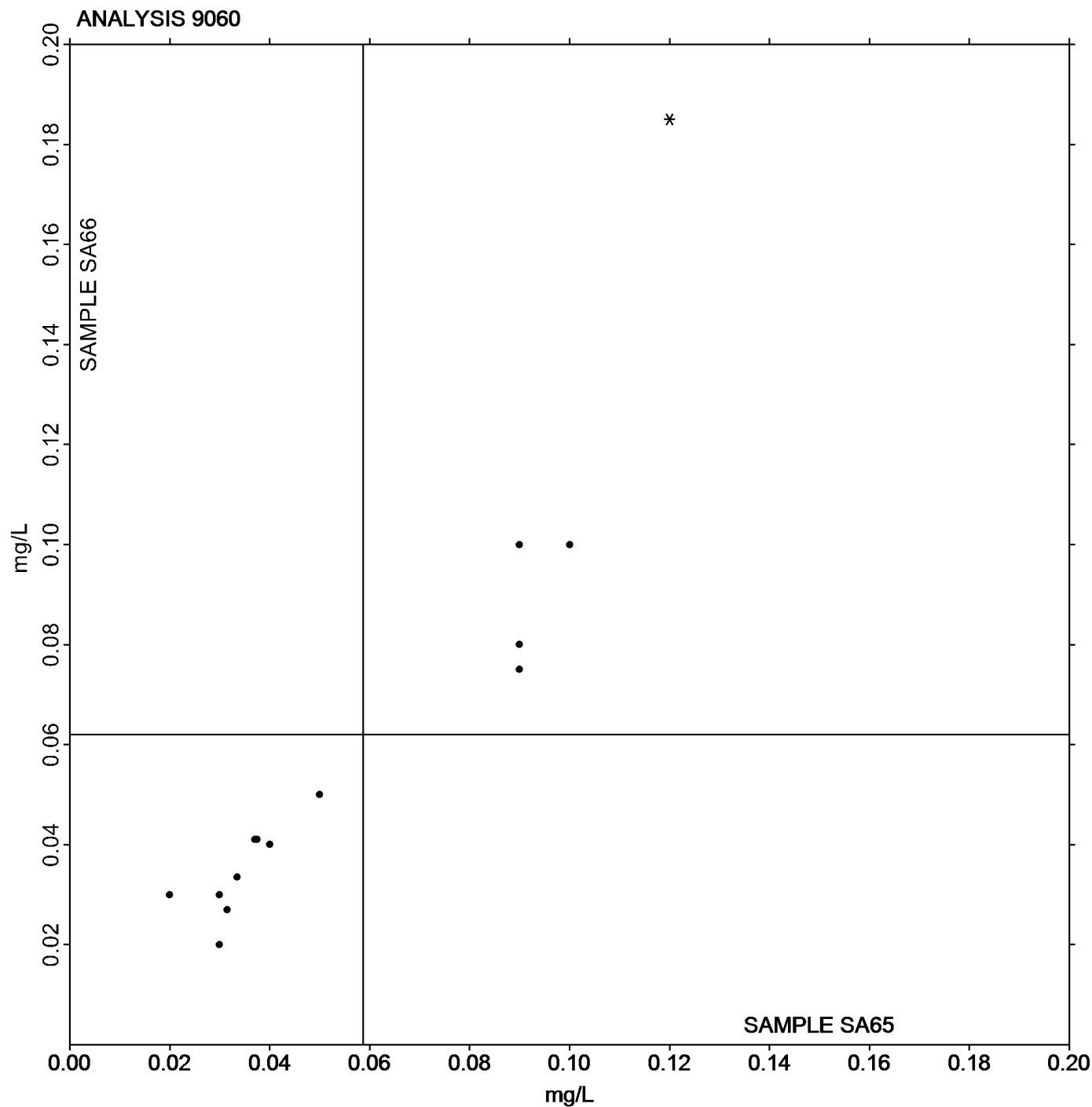
Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	0.050	0.000	-0.0087	0.050	0.000	-0.0120	1/1
Atomic Absorption Spectroscopy	0.065	0.035	0.0063	0.060	0.037	-0.0020	4/6
ICP	0.041	0.025	-0.0175	0.043	0.024	-0.0192	8/8
Other	0.105	0.021	0.0463	0.130	0.078	0.0680	2/2
Colorimetric Analysis	0.090	0.000	0.0313	0.100	0.000	0.0380	1/1

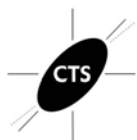


Analysis 9060
Copper Content

Summer 2026



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

Report #083
Summer 2026

Analysis 9061 Potassium Content

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
43P7YF		1,040.5	-242.7	-1.23	910.5	-259.7	-1.65
6UTPMG		1,369.5	86.3	0.44	1,191.5	21.3	0.14
8LQFB9		1,509.0	225.8	1.14	1,400.0	229.8	1.46
8WRMBE	*	885.0	-398.2	-2.02	981.5	-188.7	-1.20
AD8TEA		1,445.5	162.3	0.82	1,354.5	184.3	1.17
AYAG76		1,190.0	-93.2	-0.47	1,090.0	-80.2	-0.51
AZJTHF		1,784.5	501.3	2.54	1,526.5	356.3	2.27
ERF6X6		1,187.0	-96.2	-0.49	1,070.0	-100.2	-0.64
FA8DP9		1,167.0	-116.2	-0.59	1,075.0	-95.2	-0.61
GK32Z2		1,215.0	-68.2	-0.35	1,088.5	-81.7	-0.52
HC8KN3		1,170.0	-113.2	-0.57	1,050.0	-120.2	-0.77
JQHLXY		1,164.0	-119.2	-0.60	1,133.0	-37.2	-0.24
MHG9QU		1,216.0	-67.2	-0.34	1,081.0	-89.2	-0.57
N4RUKX		1,220.5	-62.7	-0.32	1,098.5	-71.7	-0.46
N9PACU		1,166.6	-116.6	-0.59	1,059.8	-110.4	-0.70
NLTHCW		1,470.0	186.8	0.95	1,316.5	146.3	0.93
QAAZCP		1,380.0	96.8	0.49	1,250.0	79.8	0.51
RP4UHN		1,497.5	214.3	1.09	1,332.5	162.3	1.03
TP2GER		1,224.0	-59.2	-0.30	1,092.5	-77.7	-0.50
TZH2YN		1,363.0	79.8	0.40	1,303.0	132.8	0.85

Grand Means

1,283.23 mg/L

Summary Statistics

1,170.24 mg/L

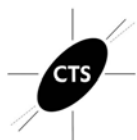
Std Dev Btwn Labs

197.19 mg/L

157.00 mg/L

Statistics based on 20 of 20 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot



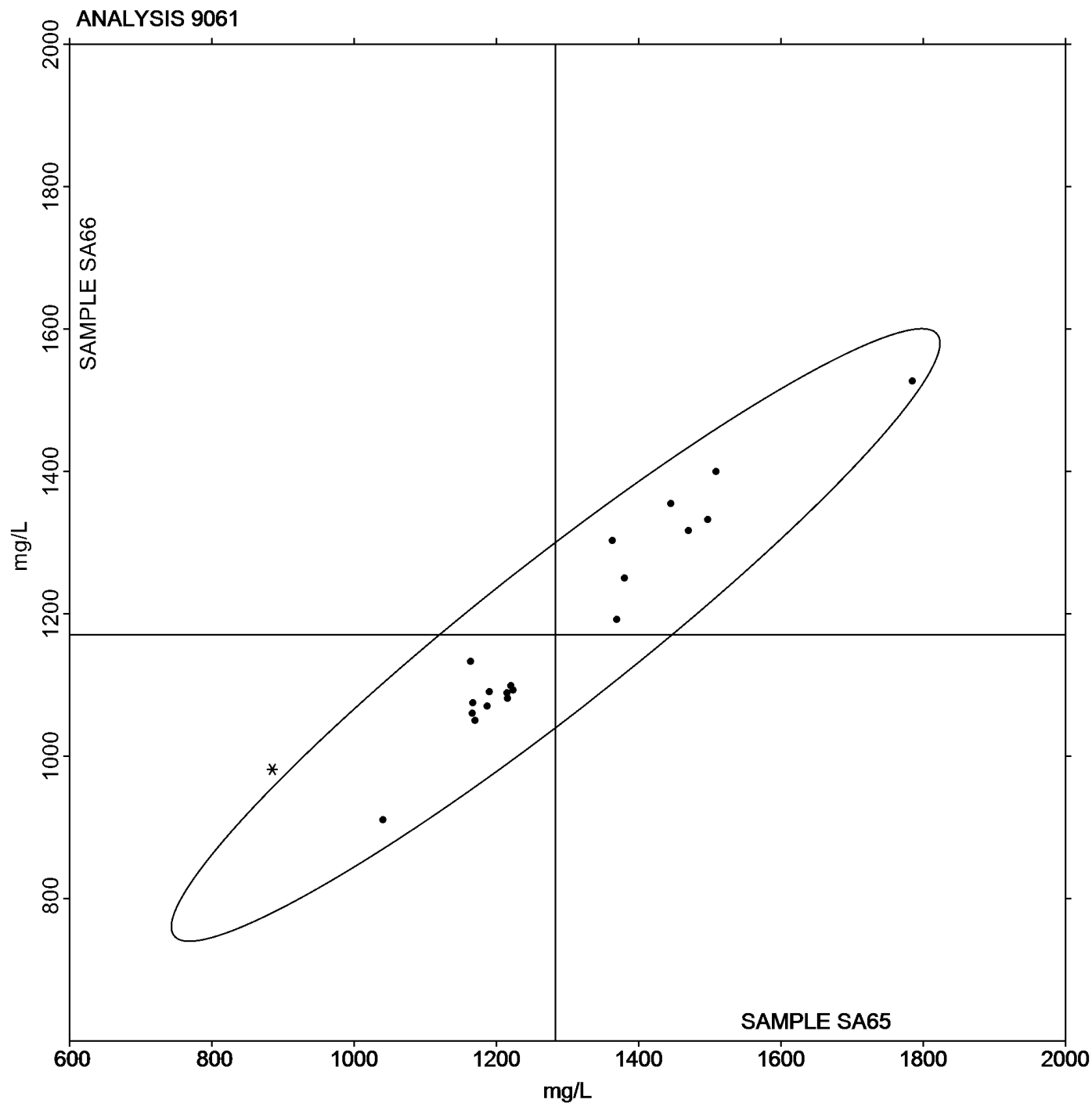
Results by Methodology (as reported by laboratory)

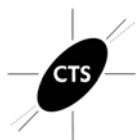
Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	1,356.250	199.758	73.0	1,210.500	172.534	40.3	2/2
Atomic Absorption Spectroscopy	1,244.833	215.507	-38.4	1,106.500	203.362	-63.7	3/3
ICP	1,211.761	71.265	-71.5	1,104.043	64.292	-66.2	8/8
Other	1,299.833	115.083	16.6	1,189.833	114.009	19.6	3/3
Colorimetric Analysis	1,406.000	377.215	122.8	1,315.625	234.335	145.4	4/4



Analysis 9061
Potassium Content

Summer 2026





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9065
Iron Content

Report #083
Summer 2026

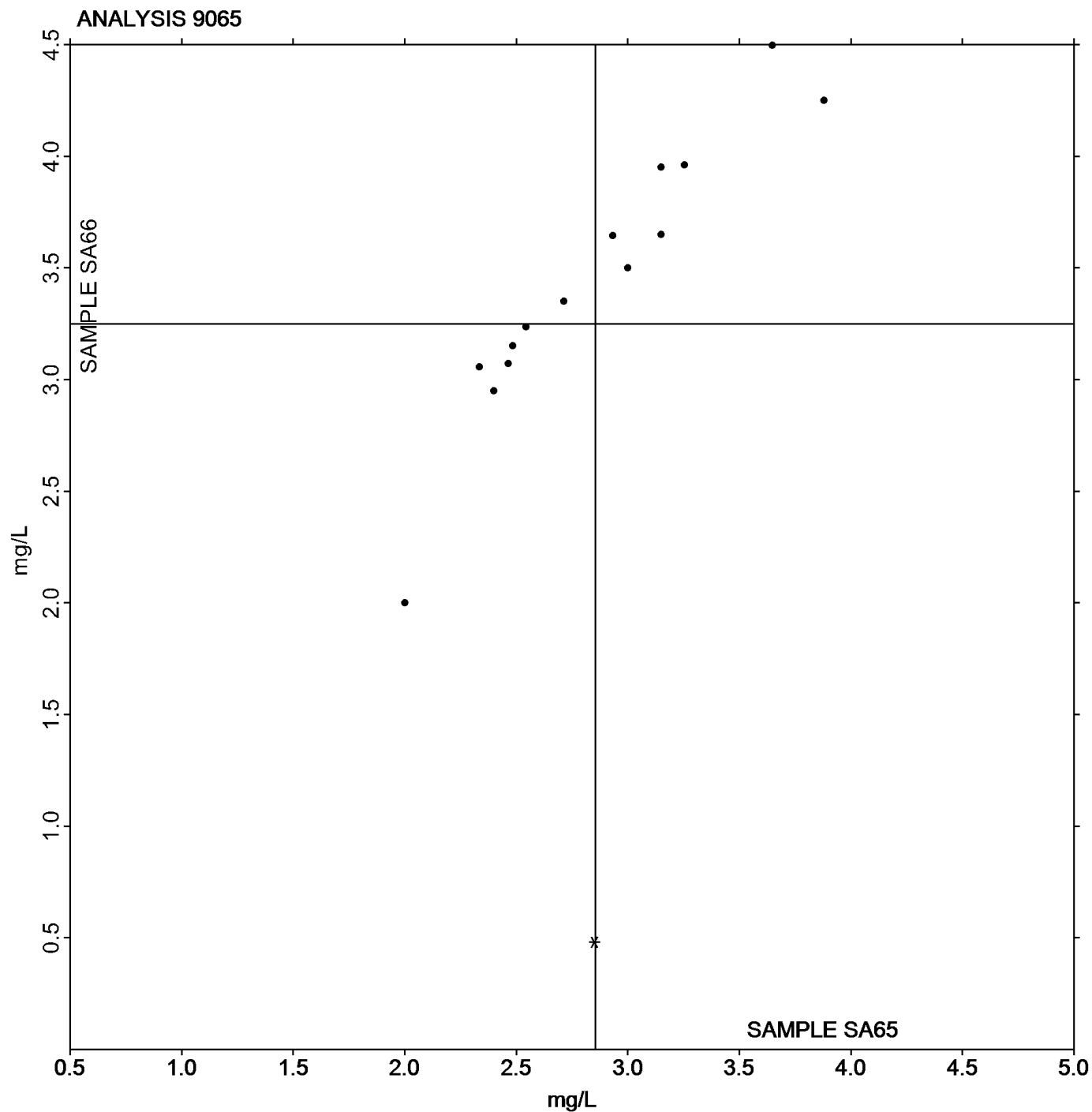
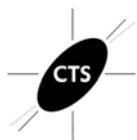
WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
43P7YF		2.000	-0.854	-1.67	2.000	-1.249	-1.28
8LQFB9		3.880	1.026	2.01	4.250	1.001	1.03
8WRMBE		3.150	0.296	0.58	3.650	0.401	0.41
AYAG76		2.485	-0.369	-0.72	3.150	-0.099	-0.10
ERF6X6		2.465	-0.389	-0.76	3.070	-0.179	-0.18
FA8DP9		3.255	0.401	0.79	3.960	0.711	0.73
GK32Z2		2.335	-0.519	-1.02	3.055	-0.194	-0.20
JQHLXY		2.545	-0.309	-0.60	3.235	-0.014	-0.01
MHG9QU		2.400	-0.454	-0.89	2.950	-0.299	-0.31
N4RUKX		2.715	-0.139	-0.27	3.350	0.101	0.10
N9PACU		2.932	0.078	0.15	3.644	0.394	0.40
NLTHCW		3.648	0.794	1.55	4.496	1.247	1.28
QAAZCP		3.150	0.296	0.58	3.950	0.701	0.72
TZH2YN		3.000	0.146	0.29	3.500	0.251	0.26
XCZE4L	*	2.850	-0.004	-0.01	0.480	-2.769	-2.84

Grand Means		Summary Statistics	
	2.8540 mg/L		3.2493 mg/L
Std Dev Btwn Labs			
	0.5108 mg/L		0.9761 mg/L
Statistics based on 15 of 15 reporting participants			

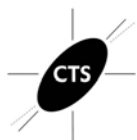
Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	2.335	0.000	-0.519	3.055	0.000	-0.194	1/1
Atomic Absorption Spectroscopy	2.833	0.824	-0.021	2.325	2.028	-0.924	3/3
ICP	2.670	0.279	-0.184	3.336	0.350	0.086	7/7
Other	3.128	0.180	0.274	3.730	0.325	0.481	2/2
Colorimetric Analysis	3.515	0.516	0.661	3.950	0.424	0.701	2/2



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

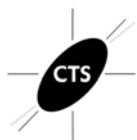


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9092 A420nm (1cm path)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9PAF		3.488	0.164	1.11	3.132	0.122	0.95
2XMB7G		3.450	0.126	0.85	3.090	0.080	0.63
43P7YF		3.345	0.021	0.14	3.030	0.020	0.16
7WWK7J		3.244	-0.080	-0.54	2.907	-0.103	-0.80
8LQFB9	*	3.694	0.371	2.49	3.377	0.367	2.87
8WRMBE	X	1.391	-1.933	-13.00	1.261	-1.749	-13.65
8XM7CF		3.340	0.016	0.11	3.080	0.070	0.55
9NV8YE		3.257	-0.066	-0.45	2.997	-0.013	-0.10
AD8TEA		3.230	-0.094	-0.63	2.912	-0.098	-0.76
APWR26		3.541	0.217	1.46	3.211	0.201	1.57
AUC3EA	X	2.557	-0.767	-5.16	2.467	-0.543	-4.24
AYAG76		3.595	0.271	1.83	3.265	0.255	1.99
AZJTHF		3.226	-0.097	-0.66	2.993	-0.017	-0.13
BAZZUA		3.363	0.039	0.27	3.000	-0.010	-0.08
BEURB	*	3.300	-0.024	-0.16	2.820	-0.190	-1.48
CDYBPA		3.303	-0.021	-0.14	2.993	-0.017	-0.14
EVEGU6		2.970	-0.354	-2.38	2.715	-0.295	-2.30
EZ37A9		3.355	0.031	0.21	2.915	-0.095	-0.74
FA8DP9		3.308	-0.016	-0.11	3.015	0.005	0.04
FA9BZ4		3.265	-0.059	-0.39	2.965	-0.045	-0.35
FWMVW6		3.455	0.131	0.88	3.135	0.125	0.98
GK32Z2	X	2.920	-0.404	-2.71	3.330	0.320	2.50
GWGZQ4		3.200	-0.124	-0.83	2.900	-0.110	-0.86
H2AKBY		3.126	-0.198	-1.33	2.884	-0.126	-0.98
HC8KN3		3.261	-0.063	-0.42	3.004	-0.006	-0.05
J223LY		3.500	0.176	1.19	3.175	0.165	1.29
LTJ9QT		3.300	-0.024	-0.16	3.000	-0.010	-0.08
M8HG32		3.295	-0.029	-0.20	2.980	-0.030	-0.24
MXA3WT	X	3.070	-0.254	-1.71	3.260	0.250	1.95
N4RUKX	X	0.700	-2.624	-17.65	0.630	-2.380	-18.58
N9PACU		3.417	0.093	0.63	3.096	0.086	0.67
NLTHCW	X	3.943	0.619	4.17	3.576	0.566	4.42
PC2JYW		3.212	-0.112	-0.75	2.870	-0.139	-1.09
PDW3ZX	*	3.163	-0.161	-1.08	3.035	0.025	0.20
QAAZCP		3.260	-0.064	-0.43	2.970	-0.040	-0.31

**ASEV-CTS Wine Industry Interlaboratory Testing Program****Report #083****Summer 2026****Analysis 9092
A420nm (1cm path)**

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
RP4UHN		3.165	-0.159	-1.07	2.865	-0.145	-1.13
TJ9JLV		3.400	0.076	0.51	3.050	0.040	0.31
TZH2YN		3.128	-0.196	-1.32	2.927	-0.083	-0.65
UVFPCM		3.305	-0.019	-0.12	2.970	-0.040	-0.31
UVJ9YQ	X	1.368	-1.956	-13.16	1.250	-1.760	-13.74
WWR29J		3.304	-0.020	-0.13	2.987	-0.023	-0.18
X9UTAU		3.281	-0.043	-0.29	2.954	-0.056	-0.44
XCZE4L		3.605	0.281	1.89	3.140	0.130	1.02
XZ4BVL	X	4.052	0.728	4.90	3.810	0.800	6.25

Grand Means

3.3236 Absorbance Units

Summary Statistics

3.0099 Absorbance Units

Std Dev Btwn Labs

0.1487 Absorbance Units

0.1281 Absorbance Units

Statistics based on 36 of 44 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9092

GK32Z2 (X) - Inconsistent in testing, data for sample SA65 are low.

8WRMBE (X) - Data for both samples are low.

UVJ9YQ (X) - Data for both samples are low.

N4RUKX (X) - Data for both samples are low.

XZ4BVL (X) - Data for both samples are high. Possible Systematic Error.

AUC3EA (X) - Data for both samples are low. Possible Systematic Error.

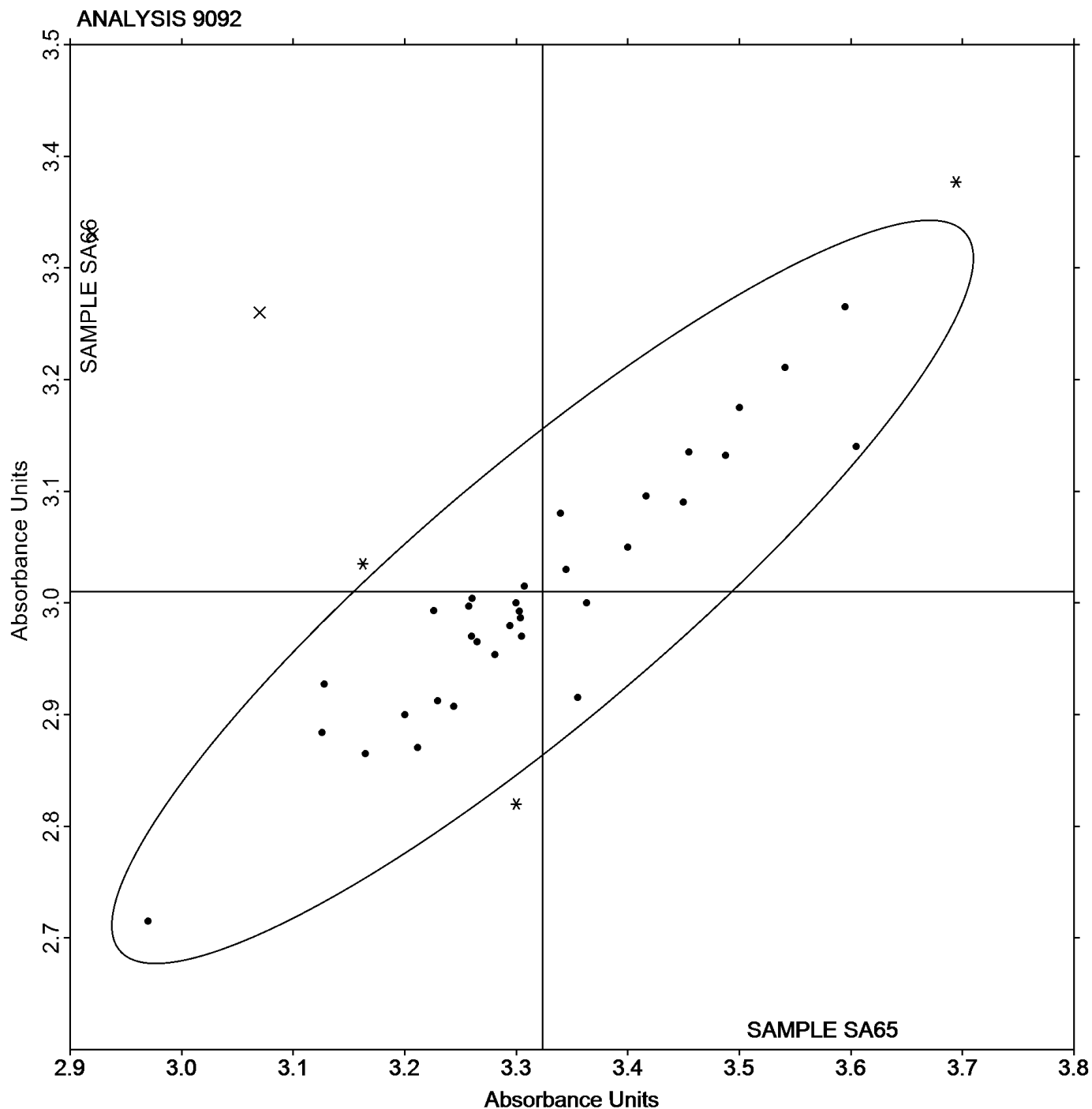
NLTHCW (X) - Data for both samples are high. Possible Systematic Error.

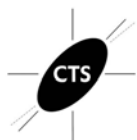
MXA3WT (X) - Inconsistent in testing between samples.



Analysis 9092
A420nm (1cm path)

Summer 2026



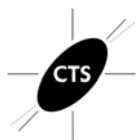


ASEV-CTS Wine Industry Interlaboratory Testing Program

Report #083
Summer 2026

Analysis 9093 A520nm (1cm path)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
2B9PAF		4.581	0.249	0.96	4.066	0.169	0.87
2XMB7G		4.300	-0.032	-0.12	3.910	0.013	0.07
43P7YF		4.275	-0.057	-0.22	3.875	-0.022	-0.11
7WWK7J		4.216	-0.116	-0.44	3.782	-0.115	-0.59
8LQFB9		4.629	0.297	1.15	4.249	0.352	1.81
8WRMBE	X	1.787	-2.545	-9.80	1.619	-2.278	-11.70
8XM7CF		4.365	0.033	0.13	3.809	-0.088	-0.45
AD8TEA		3.763	-0.569	-2.19	3.544	-0.354	-1.82
APWR26		4.883	0.551	2.12	4.225	0.328	1.68
AUC3EA	X	2.546	-1.786	-6.88	2.497	-1.401	-7.19
AYAG76		4.575	0.243	0.94	4.175	0.278	1.43
AZJTHF		4.582	0.251	0.96	4.206	0.309	1.59
BEUURB		4.230	-0.102	-0.39	3.870	-0.027	-0.14
CDYBPA		4.237	-0.095	-0.37	3.829	-0.069	-0.35
EVEGU6		3.745	-0.587	-2.26	3.420	-0.477	-2.45
EZ37A9		4.235	-0.097	-0.37	3.853	-0.045	-0.23
FA8DP9		4.327	-0.005	-0.02	3.917	0.020	0.10
FA9BZ4		4.200	-0.132	-0.51	3.805	-0.092	-0.47
FWMVW6		4.315	-0.017	-0.06	3.960	0.063	0.32
GK32Z2	X	3.780	-0.552	-2.12	4.265	0.368	1.89
GWGZQ4		4.100	-0.232	-0.89	3.700	-0.197	-1.01
H2AKBY	X	5.000	0.668	2.57	5.000	1.103	5.66
HC8KN3		4.202	-0.130	-0.50	3.870	-0.028	-0.14
J223LY		4.460	0.128	0.49	4.000	0.103	0.53
LTJ9QT		4.120	-0.212	-0.81	3.780	-0.117	-0.60
M8HG32		4.223	-0.109	-0.42	3.829	-0.068	-0.35
MXA3WT	X	3.840	-0.492	-1.89	4.120	0.223	1.14
N4RUKX	X	0.913	-3.419	-13.16	0.822	-3.075	-15.79
N9PACU		4.739	0.407	1.57	4.034	0.137	0.70
NLTHCW	X	2.535	-1.797	-6.92	3.974	0.077	0.39
PC2JYW		4.570	0.238	0.92	4.039	0.142	0.73
PDW3ZX		4.078	-0.254	-0.98	3.903	0.005	0.03
QAAZCP		4.180	-0.152	-0.58	3.750	-0.147	-0.76
RP4UHN		4.005	-0.327	-1.26	3.605	-0.292	-1.50
RXXWQR	X	1.033	-3.299	-12.70	0.868	-3.030	-15.56

Analysis 9093
A520nm (1cm path)

WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
TJ9JLV		4.450	0.118	0.46	3.950	0.053	0.27
TZH2YN		4.122	-0.210	-0.81	3.690	-0.207	-1.06
UVFPCM		4.645	0.313	1.21	3.920	0.023	0.12
UVJ9YQ	X	1.754	-2.578	-9.92	1.606	-2.291	-11.77
WWR29J		4.229	-0.103	-0.40	3.813	-0.084	-0.43
X9UTAU		4.446	0.114	0.44	3.847	-0.050	-0.26
XCZE4L		4.675	0.343	1.32	4.010	0.113	0.58
XZ4BVL		4.575	0.243	0.94	4.273	0.376	1.93

Grand Means

4.3316 Absorbance Units

Summary Statistics

3.8972 Absorbance Units

Std Dev Btwn Labs

0.2597 Absorbance Units

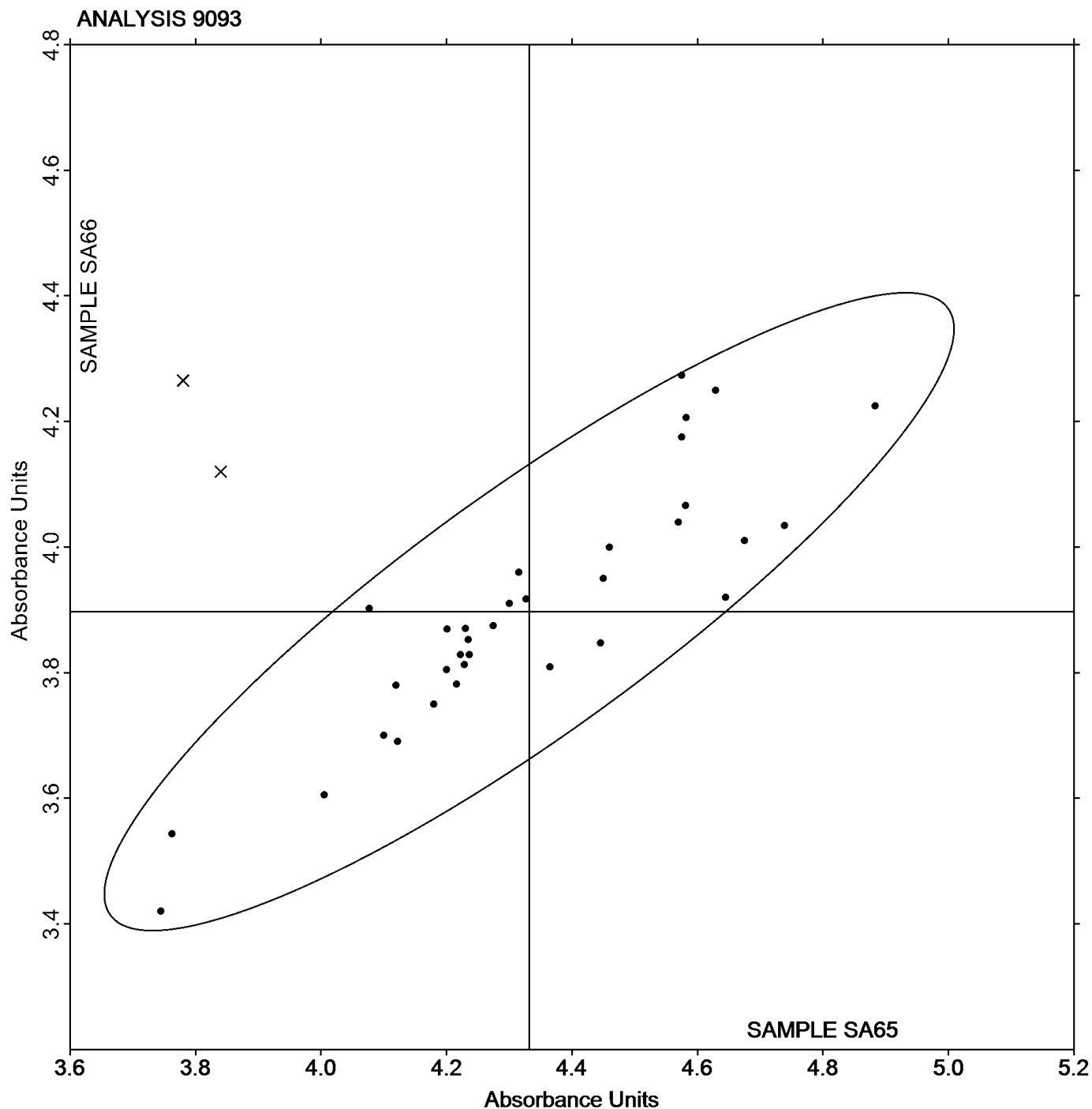
0.1947 Absorbance Units

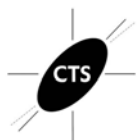
Statistics based on 34 of 43 reporting participants

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9093

- RXXWQR (X) - Data for both samples are low.
- GK32Z2 (X) - Inconsistent in testing between samples.
- H2AKBY (X) - Data for sample SA66 are high.
- 8WRMBE (X) - Data for both samples are low.
- UVJ9YQ (X) - Data for both samples are low.
- N4RUKX (X) - Data for both samples are low.
- AUC3EA (X) - Data for both samples are low.
- NLTHCW (X) - Data for sample SA65 are low.
- MXA3WT (X) - Inconsistent in testing between samples.





ASEV-CTS Wine Industry Interlaboratory Testing Program
Analysis 9100
Calories

Report #083
Summer 2026

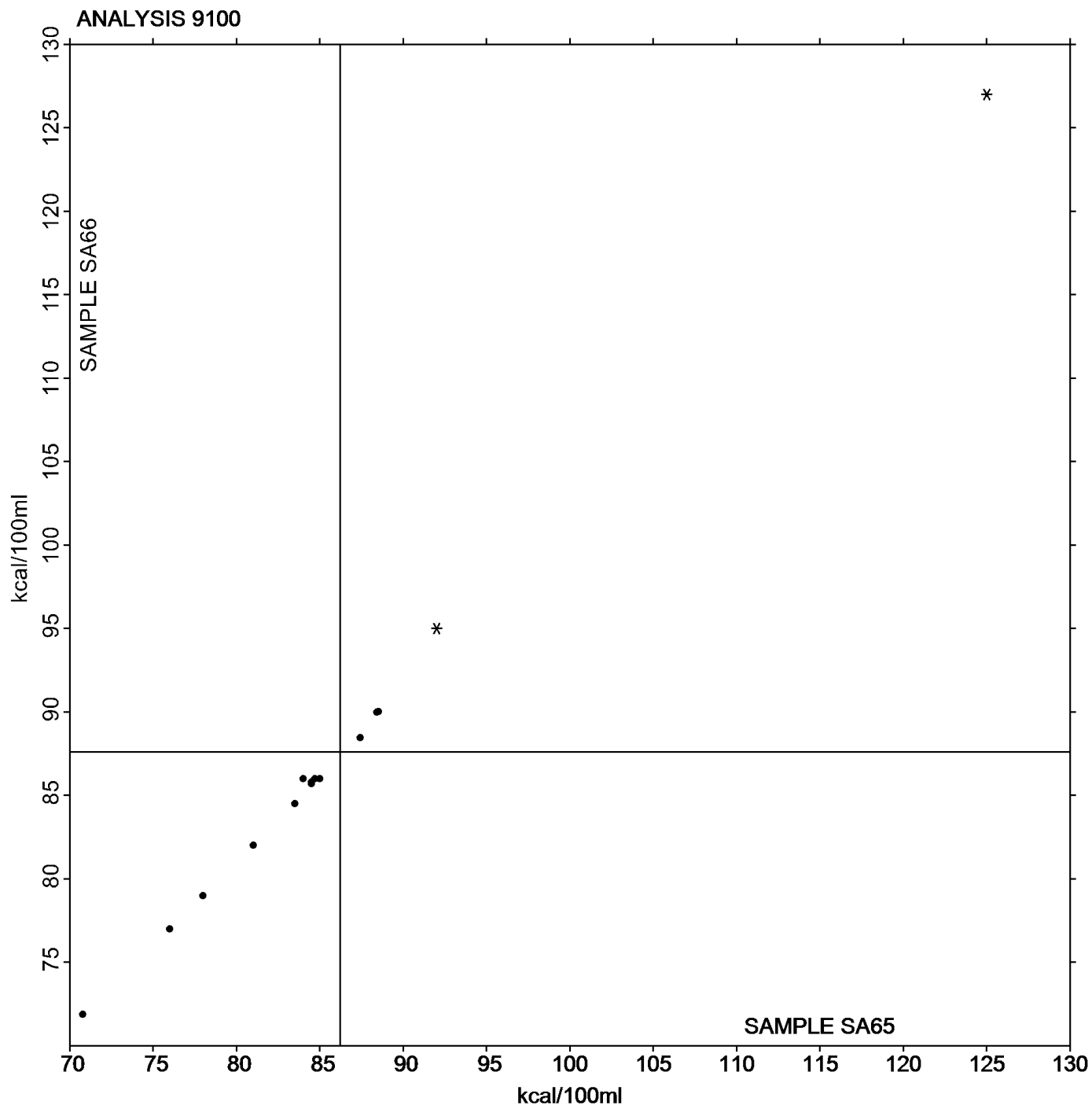
WebCode	Data Flag	Sample SA65			Sample SA66		
		Lab Mean	Diff from Grand Mean	CPV	Lab Mean	Diff from Grand Mean	CPV
8LQFB9		70.77	-15.45	-1.29	71.88	-15.74	-1.28
8WRMBE		87.41	1.19	0.10	88.44	0.82	0.07
AYAG76		83.50	-2.72	-0.23	84.50	-3.12	-0.25
GK32Z2		84.70	-1.52	-0.13	86.00	-1.62	-0.13
H2AKBY		88.52	2.30	0.19	90.01	2.39	0.20
JQHLXY	*	92.00	5.78	0.48	95.00	7.38	0.60
M8HG32		84.51	-1.71	-0.14	85.80	-1.82	-0.15
MHG9QU		78.00	-8.22	-0.69	79.00	-8.62	-0.70
N4RUKX	*	125.00	38.78	3.24	127.00	39.38	3.21
N9PACU		85.00	-1.22	-0.10	86.00	-1.62	-0.13
NLTHCW		88.41	2.19	0.18	89.99	2.37	0.19
QAAZCP		84.00	-2.22	-0.19	86.00	-1.62	-0.13
UVJ9YQ		76.00	-10.22	-0.85	77.00	-10.62	-0.87
X9UTAU		84.50	-1.72	-0.14	85.70	-1.92	-0.16
XCZE4L		81.00	-5.22	-0.44	82.00	-5.62	-0.46

Grand Means		Summary Statistics	
	86.221 kcal/100ml		87.622 kcal/100ml
Std Dev Btwn Labs			
	11.978 kcal/100ml		12.272 kcal/100ml
Statistics based on 15 of 15 reporting participants			

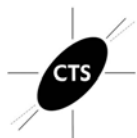
Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Results by Methodology (as reported by laboratory)

Test Methodology	Sample SA65 <i>Cabernet Sauvignon</i>			Sample SA66 <i>Merlot</i>			Labs Incl / Rpt
	Group Mean	Btwn Lab STD	Diff from GM	Group Mean	Btwn Lab STD	Diff from GM	
Please specify method used	80.350	6.152	-5.87	81.500	6.364	-6.12	2/2
EU 1169/2011	82.728	4.405	-3.49	83.873	4.657	-3.75	4/4
AOAC 979.07	89.079	14.669	2.86	90.648	14.955	3.03	9/9



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 9025
Research: L-Lactic Acid

Report #083
Summer 2026

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
8LQFB9		0.900	-0.106	-0.70	0.6800	-0.0423	-0.23
8WRMBE		1.100	0.094	0.63	0.8650	0.1427	0.77
AYAG76		0.975	-0.031	-0.20	0.6950	-0.0273	-0.15
BAZZUA		1.100	0.094	0.63	0.7000	-0.0223	-0.12
DJYAD4		0.965	-0.041	-0.27	0.7100	-0.0123	-0.07
FA8DP9		1.105	0.099	0.66	0.8050	0.0827	0.45
H2AKBY		0.940	-0.066	-0.44	0.7500	0.0277	0.15
HC8KN3		1.225	0.219	1.46	0.9150	0.1927	1.04
MHG9QU		1.025	0.019	0.13	0.7900	0.0677	0.37
N4RUKX		1.271	0.265	1.77	0.9650	0.2427	1.31
N9PACU		1.015	0.009	0.06	0.7500	0.0277	0.15
NLTHCW		0.895	-0.111	-0.74	0.6500	-0.0723	-0.39
QAAZCP		1.020	0.014	0.10	0.7600	0.0377	0.20
TZH2YN		0.898	-0.108	-0.72	0.6550	-0.0673	-0.36
XZ4BVL	*	0.650	-0.356	-2.37	0.1450	-0.5773	-3.13

Research Property Consensus Value

Consensus Average

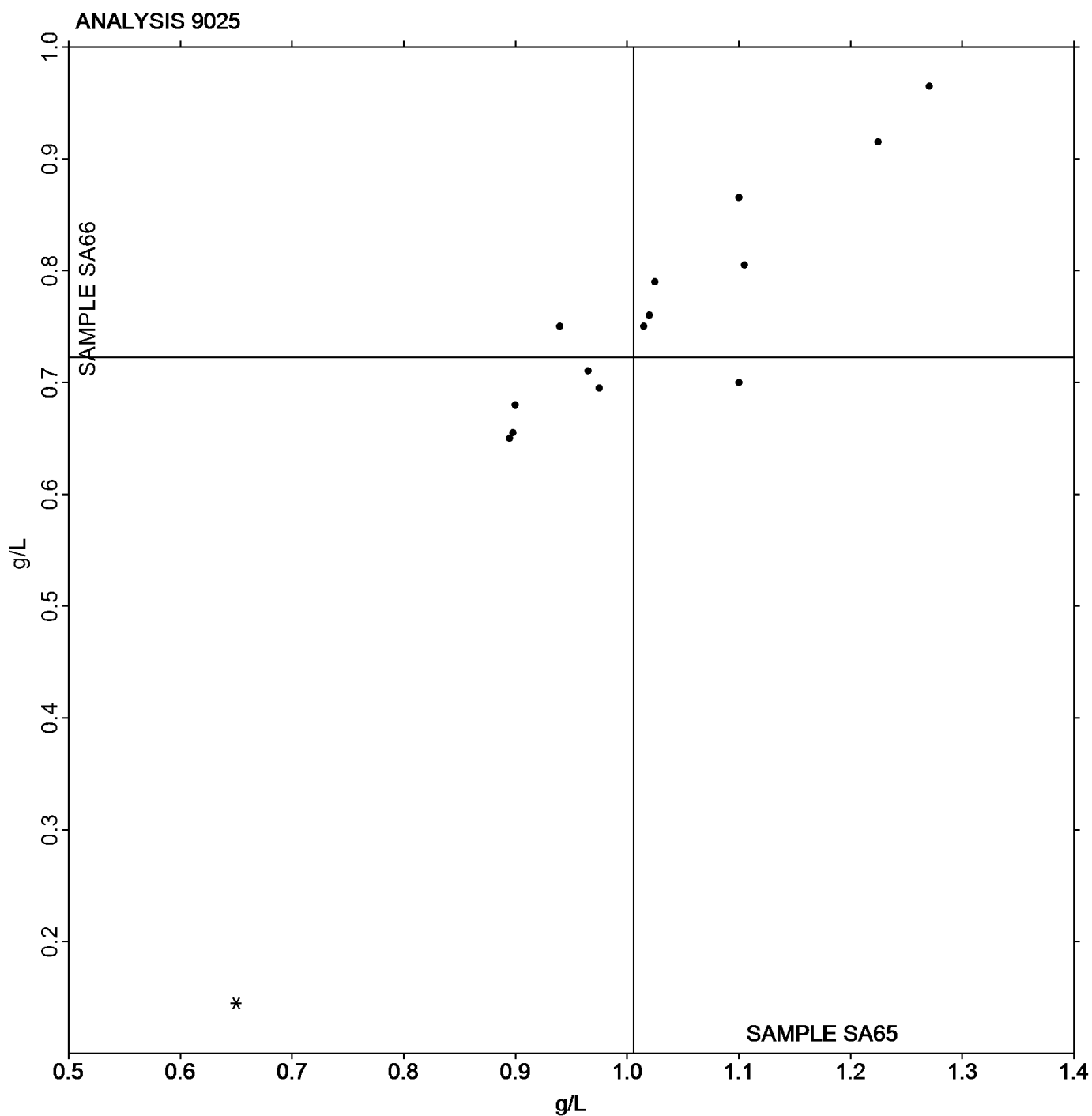
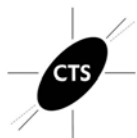
1.0056 g/L

0.72233 g/L

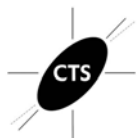
Note: This is a research test. As a result participants should use caution when evaluating data.

This consensus average is based on 15 reporting participants.

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot



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 9042
Research: Total Dry Extract

Report #083
Summer 2026

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
6UTPMG	X	46.00	8.90	15.56	44.90	7.55	18.71
8LQFB9	*	38.52	1.42	2.48	36.98	-0.37	-0.92
8WRMBE	*	35.70	-1.40	-2.45	37.68	0.33	0.81
AUC3EA		36.60	-0.50	-0.88	37.65	0.30	0.73
AYAG76		36.75	-0.35	-0.61	36.95	-0.40	-1.00
BAZZUA	X	31.80	-5.30	-9.27	34.90	-2.45	-6.08
ERF6X6		37.30	0.20	0.35	37.55	0.20	0.49
FA8DP9		37.05	-0.05	-0.09	37.25	-0.10	-0.26
GK32Z2		37.30	0.20	0.35	37.60	0.25	0.61
H2AKBY		36.42	-0.68	-1.18	36.74	-0.61	-1.52
HC8KN3		36.70	-0.40	-0.70	36.50	-0.85	-2.12
JQHLXY		37.40	0.30	0.52	37.70	0.35	0.86
LTJ9QT		36.81	-0.29	-0.52	36.80	-0.55	-1.37
M8HG32		37.55	0.45	0.79	37.70	0.35	0.86
MHG9QU		37.10	0.00	0.00	37.40	0.05	0.12
N4RUKX		37.35	0.25	0.44	37.60	0.25	0.61
N9PACU		37.30	0.20	0.35	37.70	0.35	0.86
NLTHCW		37.78	0.67	1.18	38.07	0.71	1.76
QAAZCP		36.75	-0.35	-0.61	37.10	-0.25	-0.63
TJ9JLV		37.20	0.10	0.17	37.20	-0.15	-0.38
X9UTAU		37.04	-0.06	-0.11	37.30	-0.05	-0.13
XCZE4L		37.40	0.30	0.52	37.60	0.25	0.61

Research Property Consensus Value

Consensus Average

37.101 g/L

37.354 g/L

Note: This is a research test. As a result participants should use caution when evaluating data.

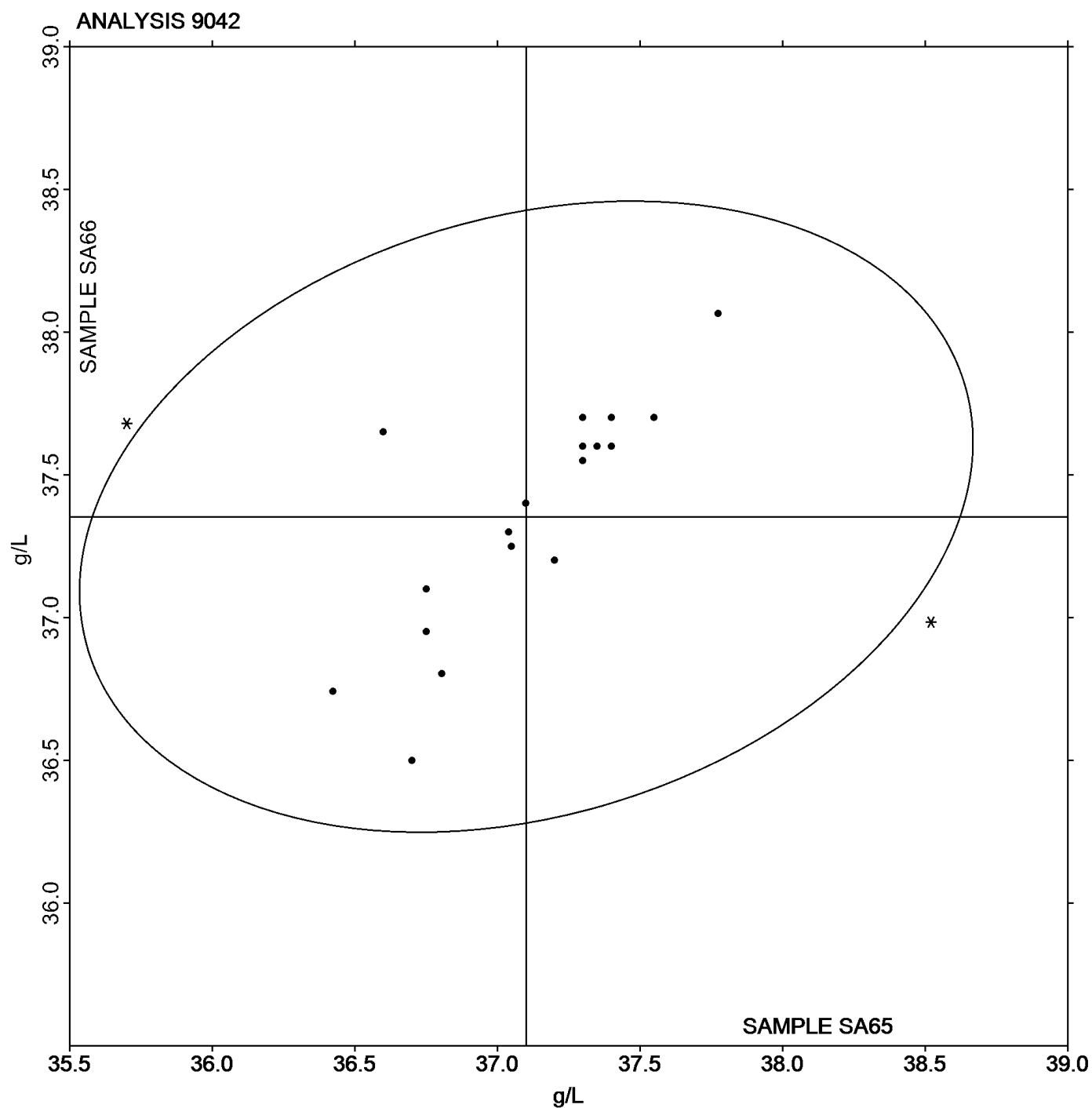
This consensus average is based on 20 reporting participants.

Wines tested: SA65: Cabernet Sauvignon; SA66: Merlot

Comments on Assigned Data Flags for Test #9042

6UTPMG (X) - Data for both samples are high.

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



-End of Report-