

Cover Page

Order ID : Q2359

Project ID : Air - TO-15

Client : Water Resource Technologies, Inc.

Lab Sample Number

Q2359-01

Client Sample Number

SS-1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 6/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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CASE NARRATIVE

Water Resource Technologies, Inc.

Project Name: Air - TO-15

Project # N/A

Order ID # Q2359

Test Name: TO-15

A. Number of Samples and Date of Receipt:

1 Air sample was received on 06/19/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample SS-1 was diluted due to high concentration.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Sample #SS-1 and SS-1DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings.

Manual Integration Report

Sequence	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDado da	5/30/2025 12:25:20 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDado da	5/30/2025 12:25:20 PM	Peak Integrated by Software incorrectly
VSTDICCC02	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC02	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC02	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly
VSTDICCC02	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDado da	5/30/2025 12:25:22 PM	Peak Integrated by Software incorrectly

VSTDICCO 02	VL04258 0.D	t-1,3- Dichloropropene	SAM	5/30/20 25 7:47:04 AM	MMDado da	5/30/20 25 12:25:2 2 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	1,1,2- Trichloroethane	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	1,4-Dioxane	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	2,2,4- Trimethylpentane	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	cis-1,3- Dichloropropene	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	Heptane	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04258 1.D	m/p-Xylene	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDICCO 01	VL04258 1.D	t-1,3- Dichloropropene	SAM	5/30/20 25 7:47:55 AM	MMDado da	5/30/20 25 12:25:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	1,1,2- Trichloroethane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	1,2- Dichloropropane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	1,4-Dioxane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	4-Methyl-2- Pentanone	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	Benzyl Chloride	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 5	VL04258 2.D	cis-1,3- Dichloropropene	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:2 6 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDICCO.5	VL04258 2.D	Cyclohexane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04258 2.D	Dibromochloromethane	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04258 2.D	Ethanol	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04258 2.D	m/p-Xylene	SAM	5/30/20 25 7:48:07 AM	MMDado da	5/30/20 25 12:25:26 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04258 3.D	1,2-Dibromoethane	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04258 3.D	Naphthalene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04258 3.D	Tetrachloroethene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly

VSTDICCO.1	VL04258 3.D	Trichloroethene	SAM	5/30/20 25 7:48:14 AM	MMDado da	5/30/20 25 12:25:28 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	1,1,1-Trichloroethane	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Carbon Tetrachloride	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Tetrachloroethene	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04258 4.D	Trichloroethene	SAM	5/30/20 25 7:47:15 AM	MMDado da	5/30/20 25 12:25:30 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04258 5.D	Ethanol	SAM	5/30/20 25 7:48:19 AM	MMDado da	5/30/20 25 12:25:32 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04258 5.D	m/p-Xylene	SAM	5/30/20 25 7:48:19 AM	MMDado da	5/30/20 25 12:25:32 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDado da	5/30/2025 12:25:34 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL061925	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
STDCCC010	VL042647.D	m/p-Xylene	SAM	6/23/2025 7:55:57 AM	MMDado da	6/23/2025 1:16:41 PM	Peak Integrated by Software incorrectly
VL0619AB S01	VL042649.D	m/p-Xylene	SAM	6/23/2025 7:56:11 AM	MMDado da	6/23/2025 1:16:45 PM	Peak Integrated by Software incorrectly
Q2359-01DL	VL042650.D	Chloromethane	SAM	6/23/2025 7:56:55 AM	MMDado da	6/23/2025 1:16:48 PM	Peak Integrated by Software

							incorrectly
Q2359-01DL	VL04265 0.D	Heptane	SAM	6/23/2025 7:56:55 AM	MMDado da	6/23/2025 1:16:48 PM	Peak Integrated by Software incorrectly
Q2359-01DL	VL04265 0.D	m/p-Xylene	SAM	6/23/2025 7:56:55 AM	MMDado da	6/23/2025 1:16:48 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	2,2,4-Trimethylpentane	SAM	6/23/2025 7:56:21 AM	MMDado da	6/23/2025 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Chlorodifluoromethane	SAM	6/23/2025 7:56:21 AM	MMDado da	6/23/2025 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	n-Butylbenzene	SAM	6/23/2025 7:56:21 AM	MMDado da	6/23/2025 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Vinyl Acetate	SAM	6/23/2025 7:56:21 AM	MMDado da	6/23/2025 1:16:50 PM	Peak Integrated by Software incorrectly
Q2359-01	VL04265 1.D	Vinyl Chloride	SAM	6/23/2025 7:56:21 AM	MMDado da	6/23/2025 1:16:50 PM	Peak Integrated by Software

							e incorec tly
Q2359- 01DUP	VL04265 2.D	2,2,4- Trimethylpentane	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	Carbon Tetrachloride	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	Chlorodifluoromet hane	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	Ethyl Benzene	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	n-Butylbenzene	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	Naphthalene,2- methyl-	SAM	6/23/20 25 7:57:00 AM	MMDado da	6/23/20 25 1:16:54 PM	Peak Integrat ed by Softwar e incorrec tly
Q2359- 01DUP	VL04265 2.D	Vinyl Acetate	SAM	6/23/20 25 7:57:00	MMDado da	6/23/20 25 1:16:54	Peak Integrat ed by



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				AM		PM	Software incorrectly
Q2359-01DUP	VL04265 2.D	Vinyl Chloride	SAM	6/23/2025 7:57:00 AM	MMDado da	6/23/2025 1:16:54 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2359

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/25/2025