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CASE NARRATIVE

Tetra Tech, EMI

Project Name: R36900

Project # N/A

Order ID # Q1927

Test Name: TO-15

A. Number of Samples and Date of Receipt:

6 Air samples were received on 04/30/2025.

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 for {Q1927-01DUP} with File ID: VL042477.D met criteria except for Chloromethane[26.9%], Methylene Chloride[26.7%] due to difference in results of original and DUP.

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 except for Naphthalene have more than 30% RSD in the Initial Calibration with dated 05/01/2025 with L Instrument but as per method two compounds as allowed to be fail.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample EBR-P03-SC-SS01-20250428 was diluted due to high concentration.

E. Additional Comments:

The Sample # EBR-P03-SC-IA01-20250428, EBR-P04-SC-SS01-20250428, EBR-P03-SC-SS01-20250428DL and EBR-P07-SC-IA01-20250428 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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 Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL050125	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042458.D	1,4-Dioxane	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL042458.D	m/p-Xylene	SAM	5/2/2025 7:56:35 AM	MMDadoda	5/5/2025 2:55:42 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	1,4-Dioxane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Heptane	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	m/p-Xylene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Methyl Methacrylate	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by

							Software incorrectly
VSTDICC002	VL042459.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Tetrahydrofuran	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL042459.D	Trichloroethene	SAM	5/2/2025 7:56:42 AM	MMDadoda	5/5/2025 2:55:44 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	Trichloroethene	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL042460.D	Trichlorofluoromethane	SAM	5/2/2025 7:58:04 AM	MMDadoda	5/5/2025 2:55:47 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,1,2-Trichloroethane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,2-Dichloropropane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	1,4-Dioxane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	2,2,4-Trimethylpentane	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by

							Software incorrectly
VSTDICC0.5	VL042461.D	2-Hexanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	4-Methyl-2-Pentanone	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Benzyl Chloride	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	cis-1,2-Dichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Tetrahydrofuran	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Toluene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042461.D	Trichloroethene	SAM	5/2/2025 7:56:59 AM	MMDadoda	5/5/2025 2:55:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	1,2-Dibromoethane	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	Naphthalene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by

							Software incorrectly
VSTDICC0.1	VL042462.D	Tetrachloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042462.D	Trichloroethene	SAM	5/2/2025 7:58:46 AM	MMDadoda	5/5/2025 2:55:52 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042465.D	cis-1,3-Dichloropropene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL042465.D	m/p-Xylene	SAM	5/2/2025 7:58:52 AM	MMDadoda	5/5/2025 2:56:22 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	1,1,1-Trichloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	1,1,2,2-Tetrachloroethane	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	Carbon Tetrachloride	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL042466.D	Tetrachloroethene	SAM	5/2/2025 7:58:22 AM	MMDadoda	5/5/2025 2:56:24 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	1,4-Dioxane	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	m/p-Xylene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042467.D	t-1,3-Dichloropropene	SAM	5/2/2025 7:56:48 AM	MMDadoda	5/5/2025 2:56:26 PM	Peak Integrated by

							Software incorrectly
Sequence		VL050525	Instrument				MSVOA_I
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042469.D	m/p-Xylene	SAM	5/6/2025 10:20:33 AM	MMDadoda	5/6/2025 12:41:48 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	Heptane	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	m/p-Xylene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
VL0505ABS01	VL042471.D	Trichloroethene	SAM	5/6/2025 10:20:39 AM	MMDadoda	5/6/2025 12:41:46 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	Heptane	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	m/p-Xylene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-04DL	VL042473.D	Propene	SAM	5/6/2025 10:20:43 AM	MMDadoda	5/6/2025 12:41:44 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	1,1,1-Trichloroethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Benzene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Hexane	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly

Q1927-03	VL042474.D	m/p-Xylene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-03	VL042474.D	Toluene	SAM	5/6/2025 10:21:15 AM	MMDadoda	5/6/2025 12:41:42 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Carbon Tetrachloride	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Chlorodifluoromethane	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Chloroform	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-04	VL042475.D	Toluene	SAM	5/6/2025 10:20:48 AM	MMDadoda	5/6/2025 12:42:07 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Ethyl Benzene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Hexane	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	m/p-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	o-Xylene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Propene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Styrene	SAM	5/6/2025 10:21:10	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by

				AM			Software incorrectly
Q1927-01	VL042476.D	Tetrachloroethene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01	VL042476.D	Toluene	SAM	5/6/2025 10:21:10 AM	MMDadoda	5/6/2025 12:42:09 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Chlorodifluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Ethyl Benzene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	m/p-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	o-Xylene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Propene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Tetrachloroethene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Toluene	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-01DUP	VL042477.D	Trichlorofluoromethane	SAM	5/6/2025 10:22:09 AM	MMDadoda	5/6/2025 12:42:10 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly

Q1927-02	VL042479.D	Ethyl Benzene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Hexane	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Isopropyl Alcohol	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	m/p-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	o-Xylene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Propene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-02	VL042479.D	Toluene	SAM	5/6/2025 10:21:44 AM	MMDadoda	5/6/2025 12:42:14 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Benzene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Hexane	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	m/p-Xylene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Propene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-05	VL042481.D	Tetrahydrofuran	SAM	5/6/2025 10:21:49	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by

				AM			Software incorrectly
Q1927-05	VL042481.D	Toluene	SAM	5/6/2025 10:21:49 AM	MMDadoda	5/6/2025 12:42:17 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Benzene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Carbon Tetrachloride	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Chlorodifluoromethane	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Propene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 PM	Peak Integrated by Software incorrectly
Q1927-06	VL042483.D	Toluene	SAM	5/6/2025 10:21:20 AM	MMDadoda	5/6/2025 12:42:21 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_____