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CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ AIR PT

Project # N/A

Order ID # Q2727

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Air sample was received on 07/30/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

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 VOCMS Group3 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD for {VL0731ABSD01} with File ID: VL042794.D met criteria except for Propene[28%] due to difference in results of BS and BSD.

The Blank Spike for {VL0731ABS01} with File ID: VL042790.D met requirements for all compounds except for Benzyl Chloride[134%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VL0731ABSD01} with File ID: VL042794.D met requirements for all compounds except for Benzyl Chloride[136%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The %RSD is greater than 30% in the Initial Calibration method (VL072325AIR.M) for Ethanol, Naphthalene, and 1,2,4-Trichlorobenzene these compounds are passing on Linear Regression.

The Continuous Calibration File ID VL042788.D met the requirements except for Benzyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples AE073-1100, AE073-1100DL were diluted due to high concentrations.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

The Manual Integrations are performed for the followings.

Manual Integration Report			
Sequence	VL072325	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDado da	7/24/2025 2:20:57 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly

VSTDICCO02	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDado da	7/24/2025 2:20:59 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly

VSTDICCO01	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly

VSTDICCO01	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDado da	7/24/2025 2:21:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly

VSTDIC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly

VSTDIC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDado da	7/24/2025 2:21:04 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDIC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDado da	7/24/2025 2:21:09 PM	Peak Integrated by Software incorrectly

VSTDICCO.03	VL04275 2.D	Trichloroethene	SAM	7/24/20 25 9:03:05 AM	MMDado da	7/24/20 25 2:21:09 PM	Peak Integrated by Software incorrectly
VSTDICCO 15	VL04275 3.D	m/p-Xylene	SAM	7/24/20 25 9:03:41 AM	MMDado da	7/24/20 25 2:21:10 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	1,1,2,2-Tetrachloroethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	1,2-Dibromoethane	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Carbon Tetrachloride	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Tetrachloroethene	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly
VSTDICCO.1	VL04275 4.D	Trichloroethene	SAM	7/24/20 25 9:03:10 AM	MMDado da	7/24/20 25 2:21:12 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software incorrectly

Sequence		VL073125	Instrument			MSVOA_I	
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042788.D	m/p-Xylene	SAM	8/1/2025 10:51:05 AM	MMDadoda	8/1/2025 4:16:30 PM	Peak Integrated by Software incorrectly
VL0731ABS01	VL042790.D	m/p-Xylene	SAM	8/1/2025 10:51:10 AM	MMDadoda	8/1/2025 4:16:31 PM	Peak Integrated by Software incorrectly
VL0731ABSD01	VL042794.D	m/p-Xylene	SAM	8/1/2025 10:51:25 AM	MMDadoda	8/1/2025 4:16:38 PM	Peak Integrated by Software incorrectly

Manual Integration Report							
Sequence		VL081325	Instrument			MSVOA_I	

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042843.	1,1,2-	SAM	8/14/202	MMDadoda	8/18/2025	Peak

	D	Trichloroethane		5 7:48:12 AM		8:42:11 AM	Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	1,4-Dioxane	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	cis-1,3- Dichloropropene	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	Ethanol	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	m/p-Xylene	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC002	VL042843. D	Methyl Methacrylate	SAM	8/14/202 5 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	1,2- Dichloropropane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	1,4-Dioxane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	2,2,4- Trimethylpentan e	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDICC001	VL042844. D	Ethanol	SAM	8/14/202 5 7:48:18	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by

				AM			Software incorrectl y
VSTDIC001	VL042844. D	Heptane	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	m/p-Xylene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	Methyl Methacrylate	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	t-1,3- Dichloropropene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC001	VL042844. D	trans-1,2- Dichloroethene	SAM	8/14/202 5 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	1,1,2- Trichloroethane	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	1,4-Dioxane	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	2,2,4- Trimethylpentan e	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.5	VL042845. D	4-Methyl-2- Pentanone	SAM	8/14/202 5 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrate d by Software incorrectl

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VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025	MMDadoda	8/18/2025	Peak

	D			5 7:48:23 AM		8:42:18 AM	Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	1,1,1- Trichloroethane	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	1,1,2,2- Tetrachloroetha ne	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Carbon Tetrachloride	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Tetrachloroethe ne	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC0.0 3	VL042847. D	Trichloroethene	SAM	8/14/202 5 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrate d by Software incorrectl y
VSTDIC015	VL042848. D	m/p-Xylene	SAM	8/14/202 5 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrate d by Software incorrectl y
VSTDICV010	VL042849. D	cis-1,3- Dichloropropene	SAM	8/14/202 5 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrate d by Software incorrectl y
VSTDICV010	VL042849. D	m/p-Xylene	SAM	8/14/202 5 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrate d by Software incorrectl y
VL0813ABS0 1	VL042851. D	1,4-Dioxane	SAM	8/14/202 5 7:49:08	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrate d by



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				AM			Software incorrectl y
VL0813ABS0 1	VL042851. D	m/p-Xylene	SAM	8/14/202 5 7:49:08 AM	MMDadoda	8/18/2025 8:42:38 AM	Peak Integrate d by Software incorrectl y

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_____