

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111125\
 Data File : VL043187.D
 Acq On : 11 Nov 2025 12:44
 Operator : SY/MD
 Sample : Q3530-15 0.40 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT4-2025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2025
 Supervised By :Mahesh Dadoda 11/13/2025

Quant Time: Nov 12 00:19:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.800	49	140266	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	380377	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.895	117	320917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	245506	9.842	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	9570	0.480	ppbv	98
3) Chlorodifluoromethane	1.483	51	9818	0.455	ppbv	99
4) Chloromethane	1.541	50	3489	0.442	ppbv	93
5) Vinyl Chloride	1.586	62	2927	0.378	ppbv	97
6) Bromomethane	1.677	94	1777	0.418	ppbv	91
7) Chloroethane	1.712	64	1416	0.447	ppbv #	85
8) Dichlorotetrafluoroethane	1.560	85	6771	0.420	ppbv #	80
9) Propene	1.489	41	3325	0.347	ppbv	100
10) Heptane	4.998	43	8020m	0.291	ppbv	
11) Trichlorofluoromethane	1.887	101	9738	0.499	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	7542	0.480	ppbv	94
13) Ethanol	1.729	45	1780	0.503	ppbv	89
14) Bromoethene	1.790	108	2791	0.478	ppbv #	91
15) Acetone	1.842	43	11108	0.588	ppbv	96
16) 1,3-Butadiene	1.615	39	3076	0.341	ppbv	95
17) tert-Butyl alcohol	2.049	59	10444	0.402	ppbv #	93
18) 1,1-Dichloroethene	2.046	96	3172	0.463	ppbv #	65
19) Isopropyl Alcohol	1.894	45	4905	0.417	ppbv #	40
20) Methylene Chloride	2.072	84	4475	0.599	ppbv #	87
21) Allyl Chloride	2.107	41	5671	0.407	ppbv	96
22) trans-1,2-Dichloroethene	2.353	96	3747	0.458	ppbv	86
23) Vinyl Acetate	2.473	43	12963	0.468	ppbv #	90
24) 1,1-Dichloroethane	2.421	63	6967	0.441	ppbv #	91
25) Ethyl Acetate	2.848	43	18408	0.393	ppbv	98
26) Hexane	2.842	57	7568	0.350	ppbv	85
27) Carbon Disulfide	2.162	76	8478	0.428	ppbv #	1
28) Methyl tert-Butyl Ether	2.454	73	3886	0.395	ppbv	95
29) Chloroform	2.861	83	14041	0.449	ppbv	97
30) Cyclohexane	3.874	84	5082	0.270	ppbv	90
31) cis-1,2-Dichloroethene	2.732	61	8290	0.402	ppbv	93
32) 1,1,1-Trichloroethane	3.379	97	12676	0.389	ppbv	97
34) 2-Butanone	2.570	43	12933	0.506	ppbv	98
35) Carbon Tetrachloride	3.781	117	13417	0.491	ppbv	95
36) Benzene	3.671	78	15702	0.438	ppbv	97
37) 1,2-Dichloroethane	3.234	62	9814	0.476	ppbv #	92
38) Trichloroethene	4.567	130	6497	0.434	ppbv	89
39) 1,2-Dichloropropane	4.337	63	6645	0.507	ppbv #	90
40) 1,4-Dioxane	4.616	88	1974m	0.337	ppbv	
41) Tetrahydrofuran	3.072	42	5706m	0.399	ppbv	
42) Bromodichloromethane	4.506	83	13725m	0.480	ppbv	
43) Methyl Methacrylate	4.897	69	5608m	0.308	ppbv	
44) 2,2,4-Trimethylpentane	4.664	57	22123	0.366	ppbv #	90
45) t-1,3-Dichloropropene	6.441	75	5812m	0.318	ppbv	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	6746m	0.309	ppbv	
47) 1,1,2-Trichloroethane	6.600	97	6704m	0.474	ppbv	
48) Dibromochloromethane	7.406	129	10914	0.462	ppbv	91
49) Bromoform	9.493	173	8544	0.444	ppbv	97
50) 4-Methyl-2-Pentanone	5.787	43	12158m	0.345	ppbv	
51) 2-Hexanone	7.461	43	7167m	0.271	ppbv	
52) Tetrachloroethene	8.247	164	5803m	0.449	ppbv	
53) Toluene	6.953	91	12313	0.290	ppbv	99
54) 1,2-Dibromoethane	7.671	107	9170	0.414	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.940	131	10992	0.543	ppbv #	1
57) Chlorobenzene	8.933	112	14668	0.489	ppbv	95
58) Ethyl Benzene	9.367	91	16450	0.299	ppbv	98
59) m/p-Xylene	9.568	91	25479m	0.580	ppbv	
60) o-Xylene	9.976	91	12447	0.287	ppbv	98
61) Styrene	9.882	104	4400m	0.225	ppbv	
62) Isopropylbenzene	10.548	105	26984	0.344	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.979	83	13994	0.482	ppbv	93
64) n-propylbenzene	10.998	120	6486	0.312	ppbv	97
65) tert-Butylbenzene	11.542	119	20472	0.296	ppbv	97
66) Benzyl Chloride	11.626	91	1924m	0.250	ppbv	
67) sec-Butylbenzene	11.775	105	32393	0.330	ppbv	100
69) p-Isopropyltoluene	11.937	119	23487	0.281	ppbv	94
70) n-Butylbenzene	12.293	91	21963	0.267	ppbv	98
71) 2-Chlorotoluene	10.914	91	18155	0.304	ppbv	96
72) 4-Ethyltoluene	11.134	105	14989	0.281	ppbv #	98
73) 1,3,5-Trimethylbenzene	11.215	105	12747	0.290	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	15274	0.310	ppbv	93
75) 1,3-Dichlorobenzene	11.617	146	12941	0.453	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	11333	0.394	ppbv	96
77) 1,2-Dichlorobenzene	11.956	146	13460	0.487	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	10223	0.478	ppbv	95
79) Naphthalene	13.526	128	9166	0.178	ppbv #	87
80) Naphthalene,2-methyl-	14.474	142	1088	0.081	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	4454	0.209	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

