

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072225\
 Data File : VL042729.D
 Acq On : 22 Jul 2025 12:21
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/23/2025
 Supervised By : Mahesh Dadoda 07/23/2025

Quant Time: Jul 23 01:33:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 22 2025

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	99043	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	297051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	269432	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 222970 10.239 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	222638	14.400	ppbv	94
3) Chlorodifluoromethane	1.476	51	242459	13.854	ppbv	100
4) Chloromethane	1.534	50	86649	13.685	ppbv	99
5) Vinyl Chloride	1.580	62	79120	12.651	ppbv	97
6) Bromomethane	1.667	94	33418	13.203	ppbv	89
7) Chloroethane	1.706	64	32400	13.625	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	182429	13.988	ppbv	99
9) Propene	1.482	41	86778	13.949	ppbv	97
10) Heptane	4.978	43	240851	13.894	ppbv	98
11) Trichlorofluoromethane	1.877	101	226391	14.228	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	175363	14.085	ppbv	99
13) Ethanol	1.722	45	9327m	9.319	ppbv	
14) Bromoethene	1.784	108	62800	14.148	ppbv	99
15) Acetone	1.835	43	189421	11.422	ppbv	97
16) 1,3-Butadiene	1.609	39	96247	13.551	ppbv	99
17) tert-Butyl alcohol	2.039	59	212776	13.513	ppbv	98
18) 1,1-Dichloroethene	2.036	96	75311	14.224	ppbv	95
19) Isopropyl Alcohol	1.884	45	117867	13.411	ppbv	100
20) Methylene Chloride	2.062	84	62676	12.023	ppbv #	92
21) Allyl Chloride	2.097	41	151161	14.219	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	85455	14.025	ppbv	94
23) Vinyl Acetate	2.460	43	275470	14.570	ppbv	99
24) 1,1-Dichloroethane	2.408	63	179068	14.742	ppbv	98
25) Ethyl Acetate	2.832	43	434297	14.192	ppbv	99
26) Hexane	2.826	57	187577	13.972	ppbv	98
27) Carbon Disulfide	2.149	76	207684	14.484	ppbv	99
28) Methyl tert-Butyl Ether	2.441	73	110848	14.204	ppbv	99
29) Chloroform	2.848	83	309996	13.984	ppbv	96
30) Cyclohexane	3.855	84	172281	14.707	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	204971	14.180	ppbv	98
32) 1,1,1-Trichloroethane	3.369	97	331907	14.219	ppbv	99
34) 2-Butanone	2.554	43	283055	13.838	ppbv	98
35) Carbon Tetrachloride	3.764	117	342291	14.064	ppbv	95
36) Benzene	3.654	78	396921	14.383	ppbv	97
37) 1,2-Dichloroethane	3.217	62	265316	15.072	ppbv	100
38) Trichloroethene	4.548	130	181288	13.493	ppbv	94
39) 1,2-Dichloropropane	4.311	63	140198	13.644	ppbv	95
40) 1,4-Dioxane	4.577	88	65044m	13.738	ppbv	
41) Tetrahydrofuran	3.052	42	150470	14.393	ppbv	98
42) Bromodichloromethane	4.489	83	349917	15.189	ppbv	100
43) Methyl Methacrylate	4.881	69	155562	14.697	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	644648	14.163	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	200532	15.406	ppbv	100

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Jul 23 01:27:20 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	235485	15.233	ppbv	98
47) 1,1,2-Trichloroethane	6.583	97	158927	14.117	ppbv	94
48) Dibromochloromethane	7.389	129	289101	15.452	ppbv	99
49) Bromoform	9.483	173	254735	15.690	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	397641	14.776	ppbv	100
51) 2-Hexanone	7.435	43	330521	15.351	ppbv	98
52) Tetrachloroethene	8.228	164	155202	13.956	ppbv	98
53) Toluene	6.936	91	460726	14.807	ppbv	100
54) 1,2-Dibromoethane	7.655	107	238272	14.163	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	207220	14.275	ppbv	99
57) Chlorobenzene	8.924	112	357855	13.934	ppbv	99
58) Ethyl Benzene	9.357	91	661380	14.694	ppbv	100
59) m/p-Xylene	9.555	91	1060304m	29.396	ppbv	
60) o-Xylene	9.966	91	525682	14.460	ppbv	99
61) Styrene	9.872	104	238735	15.245	ppbv	99
62) Isopropylbenzene	10.542	105	770252	14.252	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	283603	13.644	ppbv	100
64) n-propylbenzene	10.992	120	201063	14.748	ppbv	96
65) tert-Butylbenzene	11.532	119	682674	14.116	ppbv	99
66) Benzyl Chloride	11.616	91	81061	17.637	ppbv	98
67) sec-Butylbenzene	11.769	105	960046	14.452	ppbv	100
69) p-Isopropyltoluene	11.927	119	823611	14.802	ppbv	99
70) n-Butylbenzene	12.283	91	815822	15.341	ppbv	99
71) 2-Chlorotoluene	10.901	91	598050	14.598	ppbv	99
72) 4-Ethyltoluene	11.128	105	656672	15.147	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	549188	15.316	ppbv	96
74) 1,2,4-Trimethylbenzene	11.539	105	595156	15.128	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	375000	14.254	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	373186	14.665	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	358122	14.199	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	314656	12.817	ppbv	99
79) Naphthalene	13.513	128	622427	21.221	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	328484	34.044	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	337229	18.788	ppbv	99

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

