

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042868.D
 Acq On : 21 Aug 2025 16:24
 Operator : SY/MD
 Sample : VL0821ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0821ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:23:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:23:56 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	129175	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	381111	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	329136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 259863 10.527 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	187648	9.912	ppbv	98
3) Chlorodifluoromethane	1.479	51	207312	9.907	ppbv	98
4) Chloromethane	1.534	50	71720	9.388	ppbv	99
5) Vinyl Chloride	1.583	62	66037	8.777	ppbv	99
6) Bromomethane	1.670	94	28024	9.315	ppbv	92
7) Chloroethane	1.706	64	27369	9.315	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	153444	9.905	ppbv	98
9) Propene	1.486	41	78912	8.732	ppbv	96
10) Heptane	4.991	43	219797	9.081	ppbv	99
11) Trichlorofluoromethane	1.881	101	187585	10.043	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	145290	9.759	ppbv	99
13) Ethanol	1.725	45	6500	7.866	ppbv	96
14) Bromoethene	1.784	108	54170	10.051	ppbv	100
15) Acetone	1.839	43	142967	8.367	ppbv	99
16) 1,3-Butadiene	1.612	39	69767	9.006	ppbv	96
17) tert-Butyl alcohol	2.043	59	177633	8.766	ppbv	99
18) 1,1-Dichloroethene	2.039	96	66095	10.099	ppbv	98
19) Isopropyl Alcohol	1.887	45	91925	9.007	ppbv	97
20) Methylene Chloride	2.065	84	56441	7.885	ppbv	91
21) Allyl Chloride	2.101	41	116767	9.673	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	75407	9.959	ppbv	99
23) Vinyl Acetate	2.467	43	217643	9.263	ppbv	99
24) 1,1-Dichloroethane	2.415	63	147252	9.738	ppbv	97
25) Ethyl Acetate	2.839	43	391006	9.455	ppbv	99
26) Hexane	2.832	57	180474	9.454	ppbv	96
27) Carbon Disulfide	2.156	76	182512	9.825	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	91041	9.353	ppbv	92
29) Chloroform	2.855	83	272966	10.015	ppbv	98
30) Cyclohexane	3.865	84	156618	9.358	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	181954	9.543	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	276651	9.605	ppbv	99
34) 2-Butanone	2.560	43	256883	9.982	ppbv	100
35) Carbon Tetrachloride	3.771	117	269164	10.245	ppbv	96
36) Benzene	3.664	78	370291	10.146	ppbv	99
37) 1,2-Dichloroethane	3.224	62	210547	11.043	ppbv	97
38) Trichloroethene	4.557	130	162981	9.779	ppbv	98
39) 1,2-Dichloropropane	4.321	63	134416	10.085	ppbv	96
40) 1,4-Dioxane	4.590	88	58064	9.161	ppbv #	91
41) Tetrahydrofuran	3.059	42	142741	9.949	ppbv	99
42) Bromodichloromethane	4.499	83	302898	10.661	ppbv	96
43) Methyl Methacrylate	4.888	69	141681	9.424	ppbv	97
44) 2,2,4-Trimethylpentane	4.651	57	606952	9.799	ppbv	99
45) t-1,3-Dichloropropene	6.431	75	169529	9.992	ppbv	94

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208849	9.879	ppbv	96
47) 1,1,2-Trichloroethane	6.597	97	140526	9.951	ppbv	94
48) Dibromochloromethane	7.396	129	234624	10.267	ppbv	100
49) Bromoform	9.493	173	185144	9.824	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	342721	9.853	ppbv	98
51) 2-Hexanone	7.445	43	272084	9.940	ppbv #	98
52) Tetrachloroethene	8.234	164	115888	8.778	ppbv	92
53) Toluene	6.946	91	418783	9.652	ppbv	100
54) 1,2-Dibromoethane	7.665	107	206148	9.989	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	170516	10.018	ppbv	99
57) Chlorobenzene	8.930	112	310343	9.917	ppbv	97
58) Ethyl Benzene	9.364	91	582812	10.034	ppbv	100
59) m/p-Xylene	9.561	91	926444m	20.350	ppbv	
60) o-Xylene	9.972	91	461704	10.082	ppbv	99
61) Styrene	9.878	104	208048	9.696	ppbv	98
62) Isopropylbenzene	10.545	105	670006	10.011	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	252269	10.017	ppbv	100
64) n-propylbenzene	10.995	120	167934	9.834	ppbv	92
65) tert-Butylbenzene	11.539	119	571246	9.682	ppbv	96
66) Benzyl Chloride	11.623	91	57933	7.735	ppbv	99
67) sec-Butylbenzene	11.775	105	817985	9.877	ppbv	99
69) p-Isopropyltoluene	11.931	119	680571	9.572	ppbv	98
70) n-Butylbenzene	12.287	91	715452	10.146	ppbv	98
71) 2-Chlorotoluene	10.908	91	515189	9.913	ppbv	98
72) 4-Ethyltoluene	11.131	105	564628	10.170	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	467427	9.901	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	509797	9.838	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	290683	9.867	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	289000	9.700	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	277898	9.634	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	189465	8.014	ppbv	98
79) Naphthalene	13.520	128	462417	9.843	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	143032	8.148	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	225714	9.559	ppbv	98

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

