

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

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