

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

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

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

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