

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111822\
 Data File : VL039898.D
 Acq On : 18 Nov 2022 10:04
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2022
 Supervised By :Mahesh Dadoda 11/21/2022

Quant Time: Nov 18 11:20:13 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Fri Nov 18 11:17:48 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1264089	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3877471	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3619963	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.777 95 2753157 10.161 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.710	85	198450	0.930	ppbv	96
3) Chlorodifluoromethane	2.655	51	183052	1.215	ppbv	98
4) Chloromethane	2.793	50	115326	1.229	ppbv	94
5) Vinyl Chloride	2.899	62	90347	1.189	ppbv	97
6) Bromomethane	3.099	94	30229	1.115	ppbv	85
7) Chloroethane	3.179	64	33941	1.192	ppbv	99
8) Dichlorotetrafluoroethane	2.835	85	218128	1.199	ppbv	97
9) Propene	2.674	41	85769	1.092	ppbv	98
10) Heptane	7.568	43	209295	1.113	ppbv	98
11) Trichlorofluoromethane	3.546	101	228396	1.312	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.050	101	173781	1.382	ppbv	99
13) Ethanol	3.243	45	6869m	1.238	ppbv	
14) Bromoethene	3.346	108	62176	1.105	ppbv	88
15) Acetone	3.459	43	183670	1.194	ppbv	100
16) 1,3-Butadiene	2.967	39	83374	1.165	ppbv	90
17) tert-Butyl alcohol	3.870	59	205565	1.403	ppbv	98
18) 1,1-Dichloroethene	3.861	96	75895	1.317	ppbv	96
19) Isopropyl Alcohol	3.574	45	90284	1.186	ppbv #	36
20) Methylene Chloride	3.915	84	95168	1.729	ppbv	92
21) Allyl Chloride	3.980	41	115920	1.191	ppbv	95
22) trans-1,2-Dichloroethene	4.430	96	75639	1.293	ppbv	89
23) Vinyl Acetate	4.610	43	66352	1.082	ppbv #	97
24) 1,1-Dichloroethane	4.545	63	167353	1.337	ppbv	96
25) Ethyl Acetate	5.195	43	323207	1.020	ppbv	98
26) Hexane	5.198	57	140257	0.993	ppbv	94
27) Carbon Disulfide	4.108	76	151576	1.021	ppbv #	85
28) Methyl tert-Butyl Ether	4.578	73	175092	1.369	ppbv	100
29) Chloroform	5.256	83	188863	0.950	ppbv	93
30) Cyclohexane	6.590	84	132352	1.120	ppbv	93
31) cis-1,2-Dichloroethene	5.063	61	121377	0.942	ppbv	96
32) 1,1,1-Trichloroethane	5.989	97	223654	1.131	ppbv	95
34) 2-Butanone	4.783	43	174623	1.092	ppbv	94
35) Carbon Tetrachloride	6.481	117	221153	0.978	ppbv	98
36) Benzene	6.356	78	340911	1.042	ppbv	94
37) 1,2-Dichloroethane	5.790	62	178150	1.135	ppbv	97
38) Trichloroethene	7.282	130	189372	1.082	ppbv	98
39) 1,2-Dichloropropane	7.060	63	129316	1.015	ppbv	95
40) 1,4-Dioxane	7.311	88	52650m	1.079	ppbv	
41) Tetrahydrofuran	5.562	42	127753	0.956	ppbv	98
42) Bromodichloromethane	7.237	83	236310	0.943	ppbv	98
43) Methyl Methacrylate	7.465	69	127029	0.983	ppbv	99
44) 2,2,4-Trimethylpentane	7.314	57	563140	1.020	ppbv	98
45) t-1,3-Dichloropropene	8.703	75	101727	0.822	ppbv	95

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 19 2022

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.134	75	153271	0.907	ppbv	97
47) 1,1,2-Trichloroethane	8.893	97	133305m	1.033	ppbv	
48) Dibromochloromethane	9.706	129	177653	0.808	ppbv	98
49) Bromoform	12.404	173	134160	0.759	ppbv	99
50) 4-Methyl-2-Pentanone	8.185	43	331627	1.013	ppbv	100
51) 2-Hexanone	9.565	43	247614	0.970	ppbv #	99
52) Tetrachloroethene	10.610	164	123206	1.005	ppbv	95
53) Toluene	9.208	91	387454	1.033	ppbv	99
54) 1,2-Dibromoethane	10.002	107	143459	1.002	ppbv	88
56) 1,1,1,2-Tetrachloroethane	11.503	131	142740	0.922	ppbv #	1
57) Chlorobenzene	11.519	112	289037	1.053	ppbv	96
58) Ethyl Benzene	12.082	91	515690	1.054	ppbv	95
59) m/p-Xylene	12.365	91	859711m	2.104	ppbv	
60) o-Xylene	13.053	91	417092	1.078	ppbv	99
61) Styrene	12.896	104	235356	0.988	ppbv	98
62) Isopropylbenzene	14.031	105	589027	1.043	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.044	83	100207	0.695	ppbv	75
64) n-propylbenzene	14.921	120	152717	1.011	ppbv	88
65) tert-Butylbenzene	16.095	119	526594m	1.062	ppbv	
66) Benzyl Chloride	16.333	91	35003m	0.607	ppbv	
67) sec-Butylbenzene	16.645	105	724390	1.073	ppbv	97
69) p-Isopropyltoluene	17.002	119	589311	1.053	ppbv	99
70) n-Butylbenzene	17.895	91	572010	1.057	ppbv	99
71) 2-Chlorotoluene	14.799	91	438197	1.033	ppbv	100
72) 4-Ethyltoluene	15.198	105	455201	1.044	ppbv	98
73) 1,3,5-Trimethylbenzene	15.355	105	403479	1.044	ppbv	99
74) 1,2,4-Trimethylbenzene	16.114	105	453555	1.105	ppbv	97
75) 1,3-Dichlorobenzene	16.339	146	246369	1.028	ppbv	99
76) 1,4-Dichlorobenzene	16.481	146	238694	1.015	ppbv	99
77) 1,2-Dichlorobenzene	17.153	146	230135	1.018	ppbv	95
78) Hexachloro-1,3-Butadiene	22.654	225	172579	1.031	ppbv	96
79) Naphthalene	21.400	128	260634	0.873	ppbv	98
80) Naphthalene,2-methyl-	24.394	142	60403	0.477	ppbv	95
81) 1,2,4-Trichlorobenzene	21.156	180	161756m	0.969	ppbv	

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

