

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032122\
 Data File : VL038651.D
 Acq On : 21 Mar 2022 14:31
 Operator : SY/AP
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/22/2022
 Supervised By :Mahesh Dadoda 03/24/2022

Quant Time: Mar 21 15:07:44 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 2022

QLast Update : Mon Mar 21 15:04:50 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.661	49	984828	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.169	114	2447127	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.076	117	2170318	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.407 95 1649419 9.996 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.050	85	80728	0.543	ppbv	98
3) Chlorodifluoromethane	2.992	51	53136	0.306	ppbv	98
4) Chloromethane	3.140	50	29204	0.454	ppbv	99
5) Vinyl Chloride	3.256	62	28062	0.434	ppbv	98
6) Bromomethane	3.478	94	15089m	0.435	ppbv	
7) Chloroethane	3.558	64	10406m	0.497	ppbv	
8) Dichlorotetrafluoroethane	3.189	85	71692m	0.497	ppbv	
9) Propene	3.015	41	26497m	0.432	ppbv	
10) Heptane	8.114	43	51799	0.353	ppbv	91
11) Trichlorofluoromethane	3.947	101	60375	0.463	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.481	101	46575m	0.459	ppbv	
13) Ethanol	3.619	45	3488m	0.496	ppbv	
14) Bromoethene	3.742	108	19759m	0.457	ppbv	
15) Acetone	3.864	43	44611m	0.642	ppbv	
16) 1,3-Butadiene	3.333	39	24599m	0.441	ppbv	
17) tert-Butyl alcohol	4.304	59	40051m	0.531	ppbv	
18) 1,1-Dichloroethene	4.288	96	20573m	0.453	ppbv	
19) Isopropyl Alcohol	3.986	45	25822m	0.557	ppbv	
20) Methylene Chloride	4.343	84	19987m	0.478	ppbv	
21) Allyl Chloride	4.410	41	31008m	0.463	ppbv	
22) trans-1,2-Dichloroethene	4.886	96	20979m	0.441	ppbv	
23) Vinyl Acetate	5.079	43	42088m	0.423	ppbv	
24) 1,1-Dichloroethane	5.012	63	41617m	0.460	ppbv	
25) Ethyl Acetate	5.680	43	103892m	0.444	ppbv	
26) Hexane	5.687	57	47112m	0.429	ppbv	
27) Carbon Disulfide	4.549	76	43487m	0.397	ppbv	
28) Methyl tert-Butyl Ether	5.047	73	34454m	0.385	ppbv	
29) Chloroform	5.748	83	78776m	0.461	ppbv	
30) Cyclohexane	7.131	84	41770m	0.440	ppbv	
31) cis-1,2-Dichloroethene	5.549	61	42847m	0.408	ppbv	
32) 1,1,1-Trichloroethane	6.504	97	68839	0.415	ppbv	95
34) 2-Butanone	5.262	43	50539	0.797	ppbv	98
35) Carbon Tetrachloride	7.015	117	69094	0.414	ppbv	99
36) Benzene	6.886	78	90736	0.411	ppbv	96
37) 1,2-Dichloroethane	6.304	62	48006	0.455	ppbv	97
38) Trichloroethene	7.825	130	41268m	0.468	ppbv	
39) 1,2-Dichloropropane	7.606	63	38394	0.452	ppbv	97
40) 1,4-Dioxane	7.870	88	13286m	0.625	ppbv	
41) Tetrahydrofuran	6.073	42	33414m	0.644	ppbv	
42) Bromodichloromethane	7.787	83	70008	0.418	ppbv	94
43) Methyl Methacrylate	8.012	69	30590m	0.404	ppbv	
44) 2,2,4-Trimethylpentane	7.864	57	155233	0.416	ppbv	97
45) t-1,3-Dichloropropene	9.272	75	28371m	0.519	ppbv	

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Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.693	75	39591m	0.530	ppbv	
47) 1,1,2-Trichloroethane	9.468	97	40944m	0.473	ppbv	
48) Dibromochloromethane	10.298	129	54585	0.397	ppbv	98
49) Bromoform	13.031	173	43177m	0.410	ppbv	
50) 4-Methyl-2-Pentanone	8.754	43	80593m	0.620	ppbv	
51) 2-Hexanone	10.150	43	54302m	0.988	ppbv	
52) Tetrachloroethene	11.214	164	33565m	0.415	ppbv	
53) Toluene	9.799	91	87565m	0.371	ppbv	
54) 1,2-Dibromoethane	10.603	107	51709m	0.418	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.121	131	47392m	0.536	ppbv	
57) Chlorobenzene	12.137	112	83352	0.503	ppbv	98
58) Ethyl Benzene	12.703	91	113337m	0.403	ppbv	
59) m/p-Xylene	12.989	91	211111m	0.878	ppbv	
60) o-Xylene	13.687	91	98604m	0.434	ppbv	
61) Styrene	13.513	104	43717	0.391	ppbv	96
62) Isopropylbenzene	14.661	105	152991	0.488	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.667	83	80446m	0.419	ppbv	
64) n-propylbenzene	15.558	120	38881m	0.487	ppbv	
65) tert-Butylbenzene	16.735	119	136451	0.487	ppbv	96
66) Benzyl Chloride	16.976	91	20977m	1.263	ppbv	
67) sec-Butylbenzene	17.288	105	191641	0.481	ppbv	97
69) p-Isopropyltoluene	17.641	119	150594m	0.456	ppbv	
70) n-Butylbenzene	18.542	91	152483	0.434	ppbv	97
71) 2-Chlorotoluene	15.442	91	109802	0.472	ppbv	98
72) 4-Ethyltoluene	15.828	105	109742	0.421	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.986	105	104753m	0.432	ppbv	
74) 1,2,4-Trimethylbenzene	16.751	105	118699m	0.459	ppbv	
75) 1,3-Dichlorobenzene	16.985	146	77818m	0.477	ppbv	
76) 1,4-Dichlorobenzene	17.127	146	74534m	0.461	ppbv	
77) 1,2-Dichlorobenzene	17.809	146	78466m	0.475	ppbv	
78) Hexachloro-1,3-Butadiene	23.368	225	79903m	0.496	ppbv	
79) Naphthalene	22.188	128	73799m	0.317	ppbv	
80) Naphthalene,2-methyl-	24.969	142	16806m	0.409	ppbv	
81) 1,2,4-Trichlorobenzene	21.924	180	55424m	0.373	ppbv	

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

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