

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111822\
 Data File : VL039899.D
 Acq On : 18 Nov 2022 10:40
 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 11/21/2022
 Supervised By :Mahesh Dadoda 11/21/2022

Quant Time: Nov 18 11:22:26 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 19 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	1246207	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3828387	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3506226	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2675324 10.194 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.709	85	132483	0.630	ppbv	98
3) Chlorodifluoromethane	2.655	51	88993	0.599	ppbv	99
4) Chloromethane	2.796	50	55795	0.603	ppbv #	85
5) Vinyl Chloride	2.902	62	42053	0.562	ppbv #	71
6) Bromomethane	3.102	94	13065	0.489	ppbv	96
7) Chloroethane	3.179	64	18112	0.645	ppbv	92
8) Dichlorotetrafluoroethane	2.838	85	107059	0.597	ppbv	99
9) Propene	2.674	41	44435	0.574	ppbv	95
10) Heptane	7.571	43	92988	0.501	ppbv	92
11) Trichlorofluoromethane	3.545	101	108909	0.635	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.047	101	81205	0.655	ppbv	99
13) Ethanol	3.240	45	3293m	0.602	ppbv	
14) Bromoethene	3.346	108	30334	0.547	ppbv #	88
15) Acetone	3.465	43	80160	0.528	ppbv #	87
16) 1,3-Butadiene	2.967	39	36581	0.519	ppbv	89
17) tert-Butyl alcohol	3.883	59	93891	0.650	ppbv	95
18) 1,1-Dichloroethene	3.861	96	37296	0.656	ppbv	97
19) Isopropyl Alcohol	3.584	45	45570	0.607	ppbv #	32
20) Methylene Chloride	3.912	84	45165m	0.832	ppbv	
21) Allyl Chloride	3.976	41	51702	0.539	ppbv	94
22) trans-1,2-Dichloroethene	4.430	96	38085	0.660	ppbv	92
23) Vinyl Acetate	4.619	43	34582m	0.572	ppbv	
24) 1,1-Dichloroethane	4.545	63	83450m	0.676	ppbv	
25) Ethyl Acetate	5.198	43	148642	0.476	ppbv	96
26) Hexane	5.198	57	64690	0.464	ppbv	95
27) Carbon Disulfide	4.108	76	65346	0.447	ppbv #	58
28) Methyl tert-Butyl Ether	4.587	73	80751	0.640	ppbv	98
29) Chloroform	5.259	83	102419	0.523	ppbv	93
30) Cyclohexane	6.587	84	66969m	0.575	ppbv	
31) cis-1,2-Dichloroethene	5.063	61	58263	0.459	ppbv	96
32) 1,1,1-Trichloroethane	5.989	97	105044	0.539	ppbv	95
34) 2-Butanone	4.790	43	84684	0.536	ppbv	94
35) Carbon Tetrachloride	6.481	117	100534	0.451	ppbv	91
36) Benzene	6.359	78	155349m	0.481	ppbv	
37) 1,2-Dichloroethane	5.790	62	85523	0.552	ppbv	99
38) Trichloroethene	7.278	130	87245	0.505	ppbv	93
39) 1,2-Dichloropropane	7.060	63	62707	0.498	ppbv #	84
40) 1,4-Dioxane	7.311	88	24506m	0.509	ppbv	
41) Tetrahydrofuran	5.574	42	59074	0.448	ppbv	98
42) Bromodichloromethane	7.240	83	102973	0.416	ppbv #	88
43) Methyl Methacrylate	7.468	69	56930m	0.446	ppbv	
44) 2,2,4-Trimethylpentane	7.314	57	273881	0.502	ppbv	98
45) t-1,3-Dichloropropene	8.703	75	46489m	0.380	ppbv	

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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	70145	0.420	ppbv	91
47) 1,1,2-Trichloroethane	8.889	97	64017m	0.502	ppbv	
48) Dibromochloromethane	9.703	129	69332	0.319	ppbv	95
49) Bromoform	12.404	173	53473m	0.306	ppbv	
50) 4-Methyl-2-Pentanone	8.195	43	150029	0.464	ppbv	98
51) 2-Hexanone	9.574	43	116170m	0.461	ppbv	
52) Tetrachloroethene	10.609	164	56484m	0.467	ppbv	
53) Toluene	9.211	91	176647	0.477	ppbv	97
54) 1,2-Dibromoethane	10.002	107	62721	0.444	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.507	131	68271m	0.455	ppbv	
57) Chlorobenzene	11.516	112	133737	0.503	ppbv #	84
58) Ethyl Benzene	12.089	91	241695	0.510	ppbv	99
59) m/p-Xylene	12.349	91	404555m	1.022	ppbv	
60) o-Xylene	13.063	91	188295	0.502	ppbv	97
61) Styrene	12.899	104	103997	0.451	ppbv	96
62) Isopropylbenzene	14.031	105	281586m	0.515	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.053	83	60367	0.432	ppbv	100
64) n-propylbenzene	14.924	120	71396m	0.488	ppbv	
65) tert-Butylbenzene	16.098	119	242668	0.505	ppbv	97
66) Benzyl Chloride	16.339	91	15308m	0.274	ppbv	
67) sec-Butylbenzene	16.641	105	334517	0.512	ppbv	99
69) p-Isopropyltoluene	17.008	119	274815m	0.507	ppbv	
70) n-Butylbenzene	17.899	91	268962m	0.513	ppbv	
71) 2-Chlorotoluene	14.809	91	215943m	0.525	ppbv	
72) 4-Ethyltoluene	15.198	105	199830	0.473	ppbv	97
73) 1,3,5-Trimethylbenzene	15.355	105	202488m	0.541	ppbv	
74) 1,2,4-Trimethylbenzene	16.108	105	203687	0.512	ppbv #	82
75) 1,3-Dichlorobenzene	16.339	146	107528	0.463	ppbv	94
76) 1,4-Dichlorobenzene	16.484	146	116601m	0.512	ppbv	
77) 1,2-Dichlorobenzene	17.149	146	115006m	0.525	ppbv	
78) Hexachloro-1,3-Butadiene	22.657	225	83445m	0.515	ppbv	
79) Naphthalene	21.410	128	112673m	0.390	ppbv	
80) Naphthalene,2-methyl-	24.406	142	26514m	0.216	ppbv	
81) 1,2,4-Trichlorobenzene	21.165	180	70655m	0.437	ppbv	

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

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