

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083695.D
 Acq On : 06 Sep 2024 14:35
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090624

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/09/2024
 Supervised By : Mahesh Dadoda 09/09/2024

Quant Time: Sep 06 23:45:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30147	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	175573	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	157735	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83838	30.424	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.400%			
60) 4-Bromofluorobenzene	12.847	95	79825	29.363	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	219216	30.014	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	36955	18.305	ug/l	94
3) Chloromethane	2.360	50	39149	18.663	ug/l	97
4) Vinyl Chloride	2.512	62	40156	18.622	ug/l	96
5) Bromomethane	2.901	94	21581	17.912	ug/l	99
6) Chloroethane	3.071	64	27094	18.763	ug/l	94
7) Trichlorofluoromethane	3.471	101	66776	18.470	ug/l	96
8) Diethyl Ether	3.959	74	23084	18.791	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.365	101	35885	18.479	ug/l	94
10) 1,1-Dichloroethene	4.324	96	34434	18.378	ug/l	89
11) Methyl Iodide	4.571	142	46693	18.347	ug/l	93
12) Methyl Acetate	5.018	43	41127	18.200	ug/l #	77
13) Acrolein	4.177	56	34606	104.937	ug/l	99
14) Acrylonitrile	5.718	53	83024	90.791	ug/l	98
15) Acetone	4.436	58	25862	85.256	ug/l	80
16) Carbon Disulfide	4.701	76	92190	17.410	ug/l	98
17) Allyl chloride	5.018	41	57795	17.590	ug/l	87
18) Methylene Chloride	5.271	84	37276	18.184	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	34945	17.995	ug/l	90
20) Diisopropyl ether	6.665	45	117975	17.779	ug/l	95
21) 1,1-Dichloroethane	6.565	63	69490	18.342	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	42879	18.142	ug/l	94
23) tert-Butyl Alcohol	5.542	59	31493	93.850	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	122458	18.391	ug/l #	87
25) Chloroform	7.965	83	72937	18.167	ug/l	91
26) Cyclohexane	8.253	56	60615	18.166	ug/l #	88
29) 1,1-Dichloropropene	8.371	75	49709	17.850	ug/l	97
30) 2-Butanone	7.477	43	116443	88.703	ug/l	96
31) 2,2-Dichloropropane	7.489	77	64665	18.213	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	67462	18.139	ug/l	97
33) Carbon Tetrachloride	8.359	117	58625	18.202	ug/l	97
34) Benzene	8.600	78	154080	18.440	ug/l #	94
35) Methacrylonitrile	7.777	41	27774	18.821	ug/l	90
36) 1,2-Dichloroethane	8.671	62	58520	18.630	ug/l	95
37) Trichloroethene	9.347	130	35995	18.345	ug/l	96
38) Methylcyclohexane	9.600	83	59506	17.848	ug/l	96
39) 1,2-Dichloropropane	9.618	63	37998	18.895	ug/l	97
40) Dibromomethane	9.706	93	26868	18.272	ug/l	94
41) Bromodichloromethane	9.888	83	56589	18.098	ug/l #	98
42) Vinyl Acetate	6.600	43	447762	82.960	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	48726	18.441	ug/l	99
44) Isopropyl Acetate	8.689	43	83095	18.183	ug/l	91
45) 1,4-Dioxane	9.694	88	13881	389.428	ug/l #	95
46) Methyl methacrylate	9.683	41	41140	18.598	ug/l	80
47) n-amyl Acetate	12.494	43	74413	18.382	ug/l #	88
48) t-1,3-Dichloropropene	10.835	75	55950	17.011	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	60780	17.769	ug/l #	84
50) 1,1,2-Trichloroethane	11.018	97	34549	18.465	ug/l	97
51) Ethyl methacrylate	10.871	69	57196	17.893	ug/l	76
52) 1,3-Dichloropropane	11.159	76	60931	18.033	ug/l	99
53) Dibromochloromethane	11.359	129	40391	17.998	ug/l	97
54) 1,2-Dibromoethane	11.465	107	34942	18.052	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	113687	89.240	ug/l	99
56) Bromoform	12.576	173	24751	17.360	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	234399	93.719	ug/l #	89
59) 2-Hexanone	11.194	43	172578	91.318	ug/l	89
61) Tetrachloroethene	11.100	164	29454	17.644	ug/l	96
62) Toluene	10.630	91	164945	18.193	ug/l	99
64) Chlorobenzene	11.888	112	100355	17.878	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	36551	18.692	ug/l	97
66) Ethyl Benzene	11.965	91	183486	17.796	ug/l	97
67) m/p-Xylenes	12.071	106	136830	36.072	ug/l	98
68) o-Xylene	12.400	106	66805	18.197	ug/l	97
69) Styrene	12.412	104	108426	17.479	ug/l	97
70) Isopropylbenzene	12.694	105	176773	18.246	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	48547	18.347	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	42935m	18.507	ug/l	
73) Bromobenzene	12.982	156	38434	17.272	ug/l	91
74) n-propylbenzene	13.035	91	198876	17.536	ug/l	99
75) 2-Chlorotoluene	13.124	91	127557	18.021	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	145043	17.923	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	16359	16.682	ug/l	88
78) 4-Chlorotoluene	13.224	91	125678	17.508	ug/l	99
79) tert-butylbenzene	13.435	119	124104	17.537	ug/l	95
80) 1,2,4-Trimethylbenzene	13.482	105	145402	17.779	ug/l	99
81) sec-Butylbenzene	13.618	105	171738	17.765	ug/l	100
82) p-Isopropyltoluene	13.729	119	143309	17.619	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	75417	17.609	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	70917	16.562	ug/l	99
85) n-Butylbenzene	14.053	91	119488	16.647	ug/l	99
86) Hexachloroethane	14.335	117	27292	17.706	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	72952	17.551	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	10491	18.041	ug/l	87
89) 1,2,4-Trichlorobenzene	15.841	180	36058	15.835	ug/l	100
90) Hexachlorobutadiene	15.500	225	15748	16.708	ug/l	98
91) Naphthalene	15.641	128	120645	16.206	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	36058	15.835	ug/l	100

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

