

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070160.D
 Acq On : 17 Dec 2021 13:25
 Operator : JC/MD
 Sample : VN1217WBSD01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1217WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/18/2021
 Supervised By : Mahesh Dadoda 12/23/2021

Quant Time: Dec 18 05:29:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	185437	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1036885	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	955304	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	507295	30.870	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.900%			
60) 4-Bromofluorobenzene	12.731	95	459912	29.258	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.533%			
63) Toluene-d8	10.443	98	1338936	30.329	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.073	85	256139	19.034	ug/l	97
3) Chloromethane	2.303	50	300861	19.519	ug/l	97
4) Vinyl Chloride	2.446	62	269160	18.558	ug/l	100
5) Bromomethane	2.856	94	151121	19.061	ug/l	94
6) Chloroethane	3.019	64	156112	18.746	ug/l	99
7) Trichlorofluoromethane	3.373	101	332879	17.580	ug/l	97
8) Diethyl Ether	3.827	74	144678	19.256	ug/l	72
9) 1,1,2-Trichlorotrifluo...	4.205	101	206417	18.559	ug/l	# 70
10) 1,1-Dichloroethene	4.173	96	191742	18.125	ug/l	88
11) Methyl Iodide	4.417	142	273578	18.481	ug/l	95
12) Methyl Acetate	4.862	43	589066m	22.606	ug/l	
13) Acrolein	4.041	56	213947	101.430	ug/l	97
14) Acrylonitrile	5.562	53	821078	109.128	ug/l	100
15) Acetone	4.293	58	242085	88.670	ug/l	82
16) Carbon Disulfide	4.524	76	489441	15.354	ug/l	98
17) Allyl chloride	4.838	41	440644	18.521	ug/l	87
18) Methylene Chloride	5.093	84	252773	19.822	ug/l	# 87
19) trans-1,2-Dichloroethene	5.597	96	210704	18.752	ug/l	# 82
20) Diisopropyl ether	6.501	45	935118	20.522	ug/l	# 93
21) 1,1-Dichloroethane	6.388	63	458806	19.100	ug/l	99
22) cis-1,2-Dichloroethene	7.327	96	253386	19.052	ug/l	90
23) tert-Butyl Alcohol	5.388	59	285127	119.880	ug/l	# 100
24) Methyl tert-Butyl Ether	5.621	73	788138	20.980	ug/l	96
25) Chloroform	7.818	83	455792	19.098	ug/l	99
26) Cyclohexane	8.096	56	419920	18.886	ug/l	# 83
29) 1,1-Dichloropropene	8.223	75	330583	18.517	ug/l	94
30) 2-Butanone	7.340	43	1264891	102.976	ug/l	# 91
31) 2,2-Dichloropropane	7.327	77	334394	17.911	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	367089	17.753	ug/l	95
33) Carbon Tetrachloride	8.206	117	299847	16.314	ug/l	97
34) Benzene	8.461	78	1007503	19.088	ug/l	# 95
35) Methacrylonitrile	7.641	41	249647	21.971	ug/l	90
36) 1,2-Dichloroethane	8.531	62	404231	19.401	ug/l	98
37) Trichloroethene	9.217	130	228263	18.182	ug/l	90
38) Methylcyclohexane	9.459	83	389271	18.343	ug/l	87
39) 1,2-Dichloropropane	9.491	63	271768	19.313	ug/l	98
40) Dibromomethane	9.580	93	177384	19.110	ug/l	95
41) Bromodichloromethane	9.762	83	328370	16.730	ug/l	95
42) Vinyl Acetate	6.436	43	3724879m	103.231	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.418	43	474895	22.258	ug/l	98
44) Isopropyl Acetate	8.563	43	725033	21.112	ug/l	96
45) 1,4-Dioxane	9.572	88	126066	518.734	ug/l #	85
46) Methyl methacrylate	9.561	41	339932	20.900	ug/l	80
47) n-amyl Acetate	12.390	43	480510	20.064	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	350090	17.734	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	384841	17.963	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	248149	19.668	ug/l	97
51) Ethyl methacrylate	10.762	69	411763	20.419	ug/l	88
52) 1,3-Dichloropropane	11.044	76	439068	19.654	ug/l	99
53) Dibromochloromethane	11.240	129	224443	15.836	ug/l	100
54) 1,2-Dibromoethane	11.347	107	246999	19.214	ug/l	95
55) 2-Chloroethyl vinyl ether	10.044	63	483062	122.196	ug/l	96
56) Bromoform	12.460	173	158947	14.730	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	2432940	110.960	ug/l	95
59) 2-Hexanone	11.087	43	1766896	109.001	ug/l	95
61) Tetrachloroethene	10.977	164	210004	18.822	ug/l	97
62) Toluene	10.505	91	1074639	19.128	ug/l	98
64) Chlorobenzene	11.771	112	629982	18.894	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.843	131	219672	17.492	ug/l	99
66) Ethyl Benzene	11.846	91	1180688	18.903	ug/l	100
67) m/p-Xylenes	11.953	106	868154	38.044	ug/l	95
68) o-Xylene	12.280	106	426482	18.889	ug/l	95
69) Styrene	12.296	104	675415	18.353	ug/l	97
70) Isopropylbenzene	12.581	105	1112879	18.786	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	387901	19.965	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	472620	26.141	ug/l	56
73) Bromobenzene	12.862	156	256555	18.661	ug/l	90
74) n-propylbenzene	12.921	91	1250309	18.209	ug/l	98
75) 2-Chlorotoluene	13.007	91	795405	18.931	ug/l	94
76) 1,3,5-Trimethylbenzene	13.061	105	902974	18.553	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	92336	16.241	ug/l	83
78) 4-Chlorotoluene	13.106	91	742952	18.439	ug/l	93
79) tert-butylbenzene	13.324	119	780782	18.484	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	885036m	18.804	ug/l	
81) sec-Butylbenzene	13.503	105	1069427	18.144	ug/l	99
82) p-Isopropyltoluene	13.616	119	849917	18.099	ug/l	99
83) 1,3-Dichlorobenzene	13.616	146	429318	18.464	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	412533	18.445	ug/l	99
85) n-Butylbenzene	13.943	91	664682	16.943	ug/l	98
86) Hexachloroethane	14.211	117	128599	13.727	ug/l	85
87) 1,2-Dichlorobenzene	13.989	146	421583	18.874	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	69539	18.710	ug/l	92
89) 1,2,4-Trichlorobenzene	15.265	180	194751	18.741	ug/l	97
90) Hexachlorobutadiene	15.370	225	115101	18.610	ug/l	99
91) Naphthalene	15.507	128	548008	22.296	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	193066	19.664	ug/l	100

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

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