

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072506.D
 Acq On : 16 May 2022 17:20
 Operator : JC\MD
 Sample : VN0516WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0516WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/17/2022
 Supervised By : Mahesh Dadoda 05/17/2022

Quant Time: May 17 07:18:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	28229	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	146231	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	134997	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	91199	28.711	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	95.700%	
60) 4-Bromofluorobenzene	12.727	95	77615	29.446	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.167%	
63) Toluene-d8	10.439	98	226758	30.771	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.567%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	44308	18.895	ug/l	88
3) Chloromethane	2.298	50	38686	18.266	ug/l	96
4) Vinyl Chloride	2.440	62	32144m	17.979	ug/l	
5) Bromomethane	2.828	94	26078	17.933	ug/l	91
6) Chloroethane	2.998	64	20620	17.661	ug/l	89
7) Trichlorofluoromethane	3.363	101	76125	18.025	ug/l	97
8) Diethyl Ether	3.822	74	22604	17.792	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.204	101	36488	18.337	ug/l #	59
10) 1,1-Dichloroethene	4.175	96	31905	17.781	ug/l	87
11) Methyl Iodide	4.416	142	47317	17.511	ug/l	97
12) Methyl Acetate	4.857	43	54943	18.928	ug/l	97
13) Acrolein	4.034	56	37829	82.942	ug/l	100
14) Acrylonitrile	5.551	53	112873	92.167	ug/l	90
15) Acetone	4.292	58	31168	97.057	ug/l	98
16) Carbon Disulfide	4.528	76	82398	17.704	ug/l #	94
17) Allyl chloride	4.834	41	58755	18.141	ug/l	86
18) Methylene Chloride	5.087	84	40707	19.167	ug/l	96
19) trans-1,2-Dichloroethene	5.592	96	35450	17.988	ug/l	90
20) Diisopropyl ether	6.486	45	121455	18.038	ug/l	96
21) 1,1-Dichloroethane	6.386	63	73702	18.304	ug/l	96
22) cis-1,2-Dichloroethene	7.322	96	42405	18.327	ug/l	95
23) tert-Butyl Alcohol	5.375	59	50242	93.530	ug/l #	100
24) Methyl tert-Butyl Ether	5.622	73	135981	18.473	ug/l #	83
25) Chloroform	7.816	83	81622	18.796	ug/l	99
26) Cyclohexane	8.092	56	59545	18.223	ug/l #	97
29) 1,1-Dichloropropene	8.222	75	55388	19.019	ug/l	95
30) 2-Butanone	7.333	43	162788	96.577	ug/l	97
31) 2,2-Dichloropropane	7.322	77	69064	19.115	ug/l	93
32) 1,1,1-Trichloroethane	8.010	97	76920	18.517	ug/l	98
33) Carbon Tetrachloride	8.204	117	66305	17.961	ug/l	96
34) Benzene	8.457	78	157792	19.068	ug/l	98
35) Methacrylonitrile	7.633	41	33430	18.758	ug/l	96
36) 1,2-Dichloroethane	8.527	62	71423	18.533	ug/l	100
37) Trichloroethene	9.216	130	42247	18.818	ug/l	98
38) Methylcyclohexane	9.457	83	61544	18.278	ug/l	93
39) 1,2-Dichloropropane	9.486	63	39569	18.982	ug/l	95
40) Dibromomethane	9.574	93	29918	18.593	ug/l	91
41) Bromodichloromethane	9.757	83	64664	18.968	ug/l	93
42) Vinyl Acetate	6.433	43	549369	96.834	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	67662	20.555	ug/l	97
44) Isopropyl Acetate	8.557	43	99789	18.938	ug/l	97
45) 1,4-Dioxane	9.569	88	18876	376.114	ug/l	91
46) Methyl methacrylate	9.557	41	46638	18.705	ug/l	85
47) n-amyl Acetate	12.386	43	66739	18.920	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	65003	18.062	ug/l	98
49) cis-1,3-Dichloropropene	10.186	75	66676	18.381	ug/l	97
50) 1,1,2-Trichloroethane	10.892	97	42487	19.143	ug/l	97
51) Ethyl methacrylate	10.757	69	65268	18.858	ug/l	90
52) 1,3-Dichloropropane	11.039	76	71590	18.669	ug/l	98
53) Dibromochloromethane	11.233	129	48999	18.284	ug/l	98
54) 1,2-Dibromoethane	11.345	107	45144	19.121	ug/l	99
55) 2-Chloroethyl vinyl ether	10.039	63	84780	96.544	ug/l	97
56) Bromoform	12.457	173	36916	18.266	ug/l #	98
58) 4-Methyl-2-Pentanone	10.327	43	326585	102.667	ug/l	99
59) 2-Hexanone	11.080	43	238328	101.986	ug/l	98
61) Tetrachloroethene	10.974	164	38685	19.135	ug/l	98
62) Toluene	10.504	91	176614	19.365	ug/l	98
64) Chlorobenzene	11.768	112	108135	19.008	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	47422	20.160	ug/l	97
66) Ethyl Benzene	11.839	91	193497	18.863	ug/l	99
67) m/p-Xylenes	11.951	106	151337	38.912	ug/l	96
68) o-Xylene	12.274	106	72214	18.784	ug/l	91
69) Styrene	12.292	104	115571	18.875	ug/l	94
70) Isopropylbenzene	12.574	105	194195	19.036	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	60997	19.580	ug/l	98
72) 1,2,3-Trichloropropane	12.874	75	52935m	18.117	ug/l	
73) Bromobenzene	12.857	156	47158	19.208	ug/l	97
74) n-propylbenzene	12.915	91	210582	18.857	ug/l	100
75) 2-Chlorotoluene	13.004	91	135256	18.745	ug/l	98
76) 1,3,5-Trimethylbenzene	13.057	105	168630	19.327	ug/l	100
77) t-1,4-Dichloro-2-butene	12.615	75	18289	18.944	ug/l	90
78) 4-Chlorotoluene	13.104	91	129208	19.105	ug/l	94
79) tert-butylbenzene	13.321	119	146845	19.155	ug/l	99
80) 1,2,4-Trimethylbenzene	13.362	105	162777m	19.360	ug/l	
81) sec-Butylbenzene	13.498	105	186130	18.313	ug/l	99
82) p-Isopropyltoluene	13.609	119	155166	18.447	ug/l	99
83) 1,3-Dichlorobenzene	13.615	146	79573	18.986	ug/l	99
84) 1,4-Dichlorobenzene	13.692	146	75757	18.575	ug/l	99
85) n-Butylbenzene	13.939	91	112165	17.994	ug/l	99
86) Hexachloroethane	14.204	117	29825	19.256	ug/l	94
87) 1,2-Dichlorobenzene	13.986	146	80054	19.537	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.604	75	13562	18.494	ug/l	95
89) 1,2,4-Trichlorobenzene	15.262	180	33100	17.846	ug/l	98
90) Hexachlorobutadiene	15.362	225	22795	19.886	ug/l	98
91) Naphthalene	15.503	128	100529	20.504	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	36067	19.103	ug/l	99

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

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