

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110118\
 Data File : VN052091.D
 Acq On : 1 Nov 2018 8:49
 Operator : MD\SY
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 11/2/2018 9:21:01 AM

Quant Time: Nov 02 05:25:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:15:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	60783	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	351493	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	317995	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	143361	31.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.93%
60) 4-Bromofluorobenzene	12.40	95	153500	30.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.57%
63) Toluene-d8	10.09	98	456338	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	83403	20.545	ug/l 100
3) Chloromethane	2.06	50	96160	20.725	ug/l 100
4) Vinyl Chloride	2.19	62	96585	21.221	ug/l 100
5) Bromomethane	2.57	94	62428	20.095	ug/l 100
6) Chloroethane	2.71	64	59472	20.435	ug/l 100
7) Trichlorofluoromethane	3.02	101	125099	20.297	ug/l 100
8) Diethyl Ether	3.42	74	42759	20.546	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.77	101	71782	19.926	ug/l 100
10) 1,1-Dichloroethene	3.74	96	66147	19.679	ug/l 100
11) Methyl Iodide	3.96	142	92110	18.953	ug/l 100
12) Methyl Acetate	4.33	43	57324	19.631	ug/l 100
13) Acrolein	3.61	56	29501	97.201	ug/l 100
14) Acrylonitrile	4.99	53	129346	103.092	ug/l 100
15) Acetone	3.82	58	31217	105.272	ug/l 100
16) Carbon Disulfide	4.06	76	192747	19.420	ug/l 100
17) Allyl chloride	4.33	41	113408	19.871	ug/l 100
18) Methylene Chloride	4.55	84	82733	19.941	ug/l 100
19) trans-1,2-Dichloroethene	5.05	96	73669	20.003	ug/l 100
20) Diisopropyl ether	5.96	45	252471	20.346	ug/l 100
21) 1,1-Dichloroethane	5.85	63	148678	20.514	ug/l 100
22) cis-1,2-Dichloroethene	6.84	96	87414	20.326	ug/l 100
23) tert-Butyl Alcohol	4.78	59	23189	117.146	ug/l 100
24) Methyl tert-Butyl Ether	5.05	73	196604	20.631	ug/l 100
25) Chloroform	7.37	83	149778	20.581	ug/l 100
26) Cyclohexane	7.65	56	128331	19.752	ug/l 100
29) 1,1-Dichloropropene	7.79	75	114170	20.459	ug/l 100
30) 2-Butanone	6.84	43	157912	106.258	ug/l 100
31) 2,2-Dichloropropane	6.83	77	115560	20.092	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	123749	19.819	ug/l 100
33) Carbon Tetrachloride	7.78	117	108594	19.556	ug/l 100
34) Benzene	8.04	78	331106	20.264	ug/l 100
35) Methacrylonitrile	7.19	41	44682m	14.859	ug/l
36) 1,2-Dichloroethane	8.13	62	110192	20.170	ug/l 100
37) Trichloroethene	8.84	130	78322	19.151	ug/l 100
38) Methylcyclohexane	9.08	83	134830	19.806	ug/l 100
39) 1,2-Dichloropropane	9.12	63	90842	20.885	ug/l 100
40) Dibromomethane	9.21	93	54605	20.367	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	109710	20.000	ug/l	100
42) Vinyl Acetate	5.90	43	892680	102.606	ug/l	100
43) Ethyl Acetate	6.84	43	157912	15.265	ug/l #	86
44) Isopropyl Acetate	8.17	43	125271	20.259	ug/l	100
45) 1,4-Dioxane	9.20	88	12820	454.468	ug/l	100
46) Methyl methacrylate	9.20	41	65012	21.121	ug/l	100
47) n-amyl Acetate	12.07	43	110795	19.751	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	107614	19.756	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	127974	20.355	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	70984	20.022	ug/l	100
51) Ethyl methacrylate	10.43	69	91700	20.014	ug/l	100
52) 1,3-Dichloropropane	10.71	76	124708	20.195	ug/l	100
53) Dibromochloromethane	10.90	129	74728	19.525	ug/l	100
54) 1,2-Dibromoethane	11.00	107	70135	19.509	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	261120	104.072	ug/l	100
56) Bromoform	12.13	173	41021	18.557	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	355677	104.381	ug/l	100
59) 2-Hexanone	10.75	43	244191	104.081	ug/l	100
61) Tetrachloroethene	10.63	164	66524	19.236	ug/l	100
62) Toluene	10.16	91	360184	20.177	ug/l	100
64) Chlorobenzene	11.43	112	221433	19.572	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	75469	19.599	ug/l	100
66) Ethyl Benzene	11.51	91	377482	19.577	ug/l	100
67) m/p-Xylenes	11.62	106	290066	39.074	ug/l	100
68) o-Xylene	11.95	106	139169	19.663	ug/l	100
69) Styrene	11.96	104	227674	19.962	ug/l	100
70) Isopropylbenzene	12.25	105	368134	19.376	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	83454	19.969	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	75630m	21.764	ug/l	
73) Bromobenzene	12.53	156	79474	18.877	ug/l	100
74) n-propylbenzene	12.59	91	431237	19.491	ug/l	100
75) 2-Chlorotoluene	12.67	91	251520	19.718	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	297557	19.531	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	20241	17.605	ug/l	100
78) 4-Chlorotoluene	12.77	91	251200	19.556	ug/l	100
79) tert-butylbenzene	12.99	119	263869	19.883	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	300989	19.831	ug/l	100
81) sec-Butylbenzene	13.17	105	355818	19.482	ug/l	100
82) p-Isopropyltoluene	13.29	119	297382	19.267	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	141389	18.987	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	136643	18.536	ug/l	100
85) n-Butylbenzene	13.62	91	254350	19.040	ug/l	100
86) Hexachloroethane	13.88	117	49236	18.903	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	135482	19.149	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11881	20.791	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	53704	18.699	ug/l	100
90) Hexachlorobutadiene	15.01	225	29820	18.978	ug/l	100
91) Naphthalene	15.13	128	126198	19.064	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	46020	18.385	ug/l	100

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

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