

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110718\
 Data File : VN052198.D
 Acq On : 7 Nov 2018 10:12
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/8/2018 9:13:46 AM

Quant Time: Nov 07 10:33:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59463	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.58	114	358489	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	315731	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	132500	30.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.07%
60) 4-Bromofluorobenzene	12.40	95	139617	27.64	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.13%
63) Toluene-d8	10.09	98	448144	30.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	86168	21.697 ug/l	97
3) Chloromethane	2.06	50	94564	20.834 ug/l	100
4) Vinyl Chloride	2.19	62	90414	20.306 ug/l	99
5) Bromomethane	2.57	94	58787	19.343 ug/l	96
6) Chloroethane	2.71	64	52305	18.371 ug/l	97
7) Trichlorofluoromethane	3.02	101	122869	20.377 ug/l	97
8) Diethyl Ether	3.41	74	39852	19.575 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.77	101	74568	21.159 ug/l	97
10) 1,1-Dichloroethene	3.74	96	65951	20.056 ug/l	91
11) Methyl Iodide	3.96	142	94020	19.775 ug/l	96
12) Methyl Acetate	4.32	43	54171	19.572 ug/l	100
13) Acrolein	3.61	56	25088	85.456 ug/l	100
14) Acrylonitrile	4.98	53	118243m	96.333 ug/l	
15) Acetone	3.82	58	33907	116.882 ug/l	75
16) Carbon Disulfide	4.06	76	192992	19.877 ug/l	99
17) Allyl chloride	4.32	41	108392	19.414 ug/l	96
18) Methylene Chloride	4.55	84	79300	19.538 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	70001	19.429 ug/l	92
20) Diisopropyl ether	5.95	45	246490	20.317 ug/l	99
21) 1,1-Dichloroethane	5.85	63	140788	19.857 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	84101	19.989 ug/l	100
23) tert-Butyl Alcohol	4.78	59	19516m	102.049 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	175303	18.804 ug/l #	71
25) Chloroform	7.37	83	139856	19.644 ug/l	92
26) Cyclohexane	7.65	56	127090	19.995 ug/l	94
29) 1,1-Dichloropropene	7.79	75	106666	18.741 ug/l	98
30) 2-Butanone	6.83	43	162334m	107.102 ug/l	
31) 2,2-Dichloropropane	6.82	77	108758	18.550 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	118710	18.641 ug/l	98
33) Carbon Tetrachloride	7.78	117	104158	18.391 ug/l	100
34) Benzene	8.04	78	319580	19.177 ug/l	99
35) Methacrylonitrile	7.20	41	50562m	24.321 ug/l	
36) 1,2-Dichloroethane	8.12	62	101986	18.303 ug/l #	90
37) Trichloroethene	8.84	130	82132	19.691 ug/l	95
38) Methylcyclohexane	9.08	83	131014	18.870 ug/l	98
39) 1,2-Dichloropropane	9.12	63	84728	19.099 ug/l	96
40) Dibromomethane	9.21	93	51789	18.940 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	103309	18.465	ug/l	96
42) Vinyl Acetate	5.90	43	809955	91.280	ug/l	99
43) Ethyl Acetate	6.83	43	159359	20.921	ug/l #	86
44) Isopropyl Acetate	8.16	43	116201	18.425	ug/l	96
45) 1,4-Dioxane	9.20	88	11155	387.727	ug/l #	84
46) Methyl methacrylate	9.20	41	56188	17.898	ug/l	94
47) n-amyl Acetate	12.07	43	96146	16.819	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	101119	18.202	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	117808	18.372	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	69255	19.153	ug/l	98
51) Ethyl methacrylate	10.43	69	83562	17.882	ug/l	97
52) 1,3-Dichloropropane	10.71	76	114500	18.180	ug/l	99
53) Dibromochloromethane	10.90	129	74148	18.995	ug/l	95
54) 1,2-Dibromoethane	11.00	107	65642	17.903	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	224203	87.615	ug/l	99
56) Bromoform	12.13	173	36921	16.376	ug/l #	89
58) 4-Methyl-2-Pentanone	9.98	43	309419	91.457	ug/l	99
59) 2-Hexanone	10.75	43	240279	103.148	ug/l	98
61) Tetrachloroethene	10.63	164	72379	21.079	ug/l	92
62) Toluene	10.15	91	345377	19.487	ug/l	99
64) Chlorobenzene	11.43	112	213030	18.965	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	73915	19.333	ug/l	99
66) Ethyl Benzene	11.51	91	379127	19.803	ug/l	98
67) m/p-Xylenes	11.62	106	281407	38.179	ug/l	98
68) o-Xylene	11.95	106	136504	19.425	ug/l	97
69) Styrene	11.96	104	217354	19.194	ug/l	97
70) Isopropylbenzene	12.25	105	361817	19.180	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	77942	18.784	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	59476m	16.302	ug/l	
73) Bromobenzene	12.52	156	83237	19.913	ug/l	87
74) n-propylbenzene	12.59	91	419565	19.099	ug/l	99
75) 2-Chlorotoluene	12.67	91	240462	18.986	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	288498	19.072	ug/l	96
77) t-1,4-Dichloro-2-butene	12.30	75	17822	15.612	ug/l	91
78) 4-Chlorotoluene	12.77	91	241806	18.959	ug/l	97
79) tert-butylbenzene	12.99	119	253777	19.259	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	285389	18.938	ug/l	97
81) sec-Butylbenzene	13.17	105	357636	19.722	ug/l	99
82) p-Isopropyltoluene	13.29	119	303357	19.795	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	148122	20.033	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	142515	19.471	ug/l	96
85) n-Butylbenzene	13.61	91	253011	19.075	ug/l	99
86) Hexachloroethane	13.87	117	47457	18.351	ug/l	90
87) 1,2-Dichlorobenzene	13.65	146	137447	19.566	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10167	17.919	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	56901	19.954	ug/l	99
90) Hexachlorobutadiene	15.01	225	34783	22.295	ug/l	99
91) Naphthalene	15.13	128	123788	18.834	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	50382	20.272	ug/l	96

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

