

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011819\
 Data File : VN053459.D
 Acq On : 18 Jan 2019 8:50
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 10:46:24 AM

Quant Time: Jan 18 10:00:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	121876	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	682161	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	622885	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	230057	29.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.03%
60) 4-Bromofluorobenzene	12.40	95	297788	31.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.13%
63) Toluene-d8	10.09	98	839475	29.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	129819	15.987	ug/l 99
3) Chloromethane	2.06	50	168833	17.715	ug/l 98
4) Vinyl Chloride	2.19	62	167624	17.873	ug/l 95
5) Bromomethane	2.58	94	112283	18.569	ug/l 100
6) Chloroethane	2.71	64	99657	18.447	ug/l 96
7) Trichlorofluoromethane	3.03	101	229503	19.815	ug/l 98
8) Diethyl Ether	3.41	74	82946	19.276	ug/l 91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	149252	20.510	ug/l 95
10) 1,1-Dichloroethene	3.74	96	137878	19.416	ug/l 96
11) Methyl Iodide	3.96	142	207447	19.947	ug/l 99
12) Methyl Acetate	4.33	43	114936	20.765	ug/l 96
13) Acrolein	3.61	56	55257	83.617	ug/l 99
14) Acrylonitrile	4.99	53	245505	99.147	ug/l 98
15) Acetone	3.82	58	77982	148.183	ug/l 93
16) Carbon Disulfide	4.06	76	398954	18.262	ug/l 100
17) Allyl chloride	4.33	41	196638	17.602	ug/l 96
18) Methylene Chloride	4.55	84	158528	19.505	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	145315	19.363	ug/l 93
20) Diisopropyl ether	5.95	45	461230	19.278	ug/l 98
21) 1,1-Dichloroethane	5.85	63	272982	19.597	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	167074	19.763	ug/l 97
23) tert-Butyl Alcohol	4.77	59	43252	103.617	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	356421	19.247	ug/l 97
25) Chloroform	7.37	83	271154	20.251	ug/l 96
26) Cyclohexane	7.65	56	246408	18.965	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	210586	20.380	ug/l 99
30) 2-Butanone	6.83	43	308837	119.800	ug/l 98
31) 2,2-Dichloropropane	6.82	77	202311	20.224	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	225896	20.865	ug/l 97
33) Carbon Tetrachloride	7.77	117	200078	21.113	ug/l 99
34) Benzene	8.04	78	628971	20.254	ug/l 97
35) Methacrylonitrile	7.17	41	71289	21.430	ug/l 95
36) 1,2-Dichloroethane	8.12	62	189418	21.011	ug/l 99
37) Trichloroethene	8.84	130	178301	21.195	ug/l 92
38) Methylcyclohexane	9.08	83	257579	21.312	ug/l 97
39) 1,2-Dichloropropane	9.12	63	167435	20.648	ug/l 98
40) Dibromomethane	9.21	93	98240	21.422	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	201288	20.439	ug/l	99
42) Vinyl Acetate	5.90	43	1426732	101.443	ug/l	97
43) Ethyl Acetate	6.93	43	120051	20.853	ug/l #	66
44) Isopropyl Acetate	8.16	43	216785	20.214	ug/l #	77
45) 1,4-Dioxane	9.20	88	27175	414.382	ug/l	95
46) Methyl methacrylate	9.20	41	108183	19.968	ug/l	95
47) n-amyl Acetate	12.07	43	192459	20.435	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	203822	20.277	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	240326	20.305	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	139620	21.234	ug/l	99
51) Ethyl methacrylate	10.43	69	173428	20.237	ug/l	91
52) 1,3-Dichloropropane	10.71	76	236937	20.918	ug/l	100
53) Dibromochloromethane	10.90	129	156426	21.182	ug/l	98
54) 1,2-Dibromoethane	11.01	107	135992	20.502	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	459497	93.431	ug/l	98
56) Bromoform	12.13	173	108279	21.433	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	616922	103.939	ug/l	97
59) 2-Hexanone	10.75	43	465801	113.676	ug/l	97
61) Tetrachloroethene	10.63	164	206435	22.427	ug/l	93
62) Toluene	10.16	91	690608	20.216	ug/l	100
64) Chlorobenzene	11.43	112	440191	20.534	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	155897	20.732	ug/l	99
66) Ethyl Benzene	11.51	91	746023	20.138	ug/l	99
67) m/p-Xylenes	11.62	106	587916	41.962	ug/l	97
68) o-Xylene	11.95	106	281099	20.704	ug/l	97
69) Styrene	11.96	104	465579	21.009	ug/l	99
70) Isopropylbenzene	12.25	105	753502	21.094	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	155615	20.695	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	146105m	22.188	ug/l	
73) Bromobenzene	12.53	156	197317	21.489	ug/l	92
74) n-propylbenzene	12.59	91	887678	21.952	ug/l	98
75) 2-Chlorotoluene	12.68	91	515551	21.528	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	634038	22.376	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	46469	20.084	ug/l	95
78) 4-Chlorotoluene	12.77	91	535003	21.946	ug/l	98
79) tert-butylbenzene	12.99	119	547446	22.152	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	633106	22.292	ug/l	99
81) sec-Butylbenzene	13.17	105	770102	23.533	ug/l	100
82) p-Isopropyltoluene	13.29	119	675291	23.881	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	358995	22.962	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	348708	22.881	ug/l	98
85) n-Butylbenzene	13.62	91	568707	24.731	ug/l	99
86) Hexachloroethane	13.88	117	103598	22.946	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	337164	23.209	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22415	20.844	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	146337	20.754	ug/l	99
90) Hexachlorobutadiene	15.01	225	121804	28.539	ug/l	98
91) Naphthalene	15.13	128	228486	15.273	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	108692	17.278	ug/l	97

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

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