

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042619\
 Data File : VN055251.D
 Acq On : 25 Apr 2019 18:24
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMdadoda
 4/26/2019 10:52:41 AM

Quant Time: Apr 26 04:50:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N042619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 26 04:33:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	68434	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	366441	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	319147	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	162233	31.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.60%
60) 4-Bromofluorobenzene	12.40	95	142682	28.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.03%
63) Toluene-d8	10.09	98	459886	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	73842	18.799	ug/l 100
3) Chloromethane	2.06	50	101746	18.933	ug/l 100
4) Vinyl Chloride	2.19	62	85261	18.488	ug/l 100
5) Bromomethane	2.56	94	47752	17.938	ug/l 100
6) Chloroethane	2.70	64	46898	18.192	ug/l 100
7) Trichlorofluoromethane	3.02	101	123873	20.583	ug/l 100
8) Diethyl Ether	3.41	74	48603	23.934	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	79373	23.311	ug/l 100
10) 1,1-Dichloroethene	3.73	96	73330	23.218	ug/l 100
11) Methyl Iodide	3.95	142	112578	23.308	ug/l 100
12) Methyl Acetate	4.33	43	108471	26.486	ug/l 100
13) Acrolein	3.61	56	22035	71.447	ug/l 100
14) Acrylonitrile	4.99	53	195389	119.988	ug/l 100
15) Acetone	3.82	58	48588	125.084	ug/l 100
16) Carbon Disulfide	4.05	76	190738	18.736	ug/l 100
17) Allyl chloride	4.33	41	150529	20.019	ug/l 100
18) Methylene Chloride	4.55	84	92808	20.464	ug/l 100
19) trans-1,2-Dichloroethene	5.05	96	80621	20.275	ug/l 100
20) Diisopropyl ether	5.96	45	330251	21.312	ug/l 100
21) 1,1-Dichloroethane	5.85	63	170023	20.767	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	90071	19.591	ug/l 100
23) tert-Butyl Alcohol	4.79	59	36719	134.633	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	236898	22.352	ug/l 100
25) Chloroform	7.37	83	159416	20.428	ug/l 100
26) Cyclohexane	7.66	56	141635	18.995	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	115798	20.129	ug/l 100
30) 2-Butanone	6.84	43	244971	122.302	ug/l 100
31) 2,2-Dichloropropane	6.82	77	111567	20.808	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	129816	21.033	ug/l 100
33) Carbon Tetrachloride	7.78	117	105301	19.906	ug/l 100
34) Benzene	8.04	78	350207	20.430	ug/l 100
35) Methacrylonitrile	7.18	41	62100	25.733	ug/l 100
36) 1,2-Dichloroethane	8.12	62	126332	21.363	ug/l 100
37) Trichloroethene	8.84	130	87919	20.241	ug/l 100
38) Methylcyclohexane	9.08	83	122104	18.640	ug/l 100
39) 1,2-Dichloropropane	9.12	63	101594	21.244	ug/l 100
40) Dibromomethane	9.21	93	59644	21.941	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	115469	20.713	ug/l	100
42) Vinyl Acetate	5.90	43	1111166	110.726	ug/l	100
43) Ethyl Acetate	6.93	43	106417	25.380	ug/l	100
44) Isopropyl Acetate	8.17	43	184682	25.611	ug/l	100
45) 1,4-Dioxane	9.20	88	19903	510.811	ug/l	100
46) Methyl methacrylate	9.20	41	85937	23.589	ug/l	100
47) n-amyl Acetate	12.07	43	119879	23.195	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	109703	20.936	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	130404	20.531	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	80547	21.758	ug/l	100
51) Ethyl methacrylate	10.43	69	100850	22.229	ug/l	100
52) 1,3-Dichloropropane	10.71	76	139725	21.592	ug/l	100
53) Dibromochloromethane	10.90	129	79308	20.801	ug/l	100
54) 1,2-Dibromoethane	11.01	107	74921	21.390	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	149054	85.149	ug/l	100
56) Bromoform	12.13	173	51924	21.272	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	505568	126.378	ug/l	100
59) 2-Hexanone	10.75	43	322912	127.910	ug/l	100
61) Tetrachloroethene	10.63	164	87997	21.004	ug/l	100
62) Toluene	10.16	91	365280	20.549	ug/l	100
64) Chlorobenzene	11.43	112	214268	20.082	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	78987	20.526	ug/l	100
66) Ethyl Benzene	11.51	91	379804	19.996	ug/l	100
67) m/p-Xylenes	11.62	106	285185	40.473	ug/l	100
68) o-Xylene	11.95	106	145031	20.674	ug/l	100
69) Styrene	11.96	104	211792	19.594	ug/l	100
70) Isopropylbenzene	12.25	105	378016	20.298	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	102158	23.056	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	86124m	23.569	ug/l	100
73) Bromobenzene	12.53	156	87010	19.793	ug/l	100
74) n-propylbenzene	12.59	91	413618	19.938	ug/l	100
75) 2-Chlorotoluene	12.67	91	255991	20.357	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	304949	20.307	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	20570	21.802	ug/l	100
78) 4-Chlorotoluene	12.77	91	239473	19.964	ug/l	100
79) tert-butylbenzene	12.99	119	265672	20.397	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	297964	20.114	ug/l	100
81) sec-Butylbenzene	13.17	105	348613	20.127	ug/l	100
82) p-Isopropyltoluene	13.29	119	284485	19.575	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	137121	18.823	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	128162	18.507	ug/l	100
85) n-Butylbenzene	13.61	91	198532	17.347	ug/l	100
86) Hexachloroethane	13.87	117	46512	19.684	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	140002	19.511	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13785	23.137	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	45229	14.438	ug/l	100
90) Hexachlorobutadiene	15.01	225	47256	20.320	ug/l	100
91) Naphthalene	15.13	128	98315	14.707	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	49920	15.830	ug/l	100

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

