

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051309.D
 Acq On : 19 Sep 2018 10:29
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/20/2018 1:42:06 PM

Quant Time: Sep 19 15:39:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	102689	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	551770	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	477043	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	183193	27.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.20%
60) 4-Bromofluorobenzene	12.40	95	206496	29.11	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.03%
63) Toluene-d8	10.09	98	681488	30.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.10%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	114509	17.96	ug/l	100
3) Chloromethane	2.06	50	148731	19.75	ug/l	99
4) Vinyl Chloride	2.18	62	148946	20.02	ug/l	99
5) Bromomethane	2.57	94	85354	18.82	ug/l	100
6) Chloroethane	2.71	64	89111	20.30	ug/l	95
7) Trichlorofluoromethane	3.02	101	208244	21.11	ug/l	97
8) Diethyl Ether	3.41	74	64610	18.58	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	130994	21.45	ug/l	96
10) 1,1-Dichloroethene	3.74	96	112310	20.24	ug/l	98
11) Methyl Iodide	3.95	142	112103	21.65	ug/l	99
12) Methyl Acetate	4.33	43	87640	13.66	ug/l	97
13) Acrolein	3.61	56	31216	219.71	ug/l	96
14) Acrylonitrile	4.99	53	177302	81.73	ug/l	97
15) Acetone	3.82	58	54029	97.33	ug/l	94
16) Carbon Disulfide	4.05	76	343537	20.59	ug/l	99
17) Allyl chloride	4.32	41	164351	18.82	ug/l	95
18) Methylene Chloride	4.55	84	134199	20.61	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	123256	20.85	ug/l	99
20) Diisopropyl ether	5.95	45	355531	19.62	ug/l	98
21) 1,1-Dichloroethane	5.85	63	225805	20.32	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	137497	20.59	ug/l	99
23) tert-Butyl Alcohol	4.79	59	32419	70.27	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	280797	18.50	ug/l	100
25) Chloroform	7.37	83	231901	20.91	ug/l	99
26) Cyclohexane	7.65	56	184795	20.07	ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	173781	21.04	ug/l	99
30) 2-Butanone	6.84	43	196478	77.32	ug/l	# 96
31) 2,2-Dichloropropane	6.82	77	185142	23.03	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	198671	21.21	ug/l	98
33) Carbon Tetrachloride	7.77	117	181865	21.56	ug/l	95
34) Benzene	8.04	78	521701	20.42	ug/l	96
35) Methacrylonitrile	7.18	41	43697	15.70	ug/l	95
36) 1,2-Dichloroethane	8.13	62	153927	19.92	ug/l	99
37) Trichloroethene	8.83	130	144219	21.59	ug/l	97
38) Methylcyclohexane	9.08	83	188743	21.27	ug/l	98
39) 1,2-Dichloropropane	9.12	63	136398	20.44	ug/l	98
40) Dibromomethane	9.21	93	80606	20.05	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	174414	20.58	ug/l	99
42) Vinyl Acetate	5.90	43	1070921	91.49	ug/l	98
43) Ethyl Acetate	6.93	43	79216	15.22	ug/l #	84
44) Isopropyl Acetate	8.16	43	162718	17.71	ug/l	100
45) 1,4-Dioxane	9.20	88	21605	316.61	ug/l	96
46) Methyl methacrylate	9.20	41	70635	15.35	ug/l	97
47) n-amyl Acetate	12.07	43	105870	14.34	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	161668	19.46	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	193857	20.31	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	115687	19.80	ug/l	97
51) Ethyl methacrylate	10.43	69	124298	17.39	ug/l	97
52) 1,3-Dichloropropane	10.71	76	185223	19.14	ug/l	98
53) Dibromochloromethane	10.90	129	135492	20.40	ug/l	99
54) 1,2-Dibromoethane	11.01	107	109087	18.89	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	231831	77.96	ug/l	99
56) Bromoform	12.13	173	90525	19.16	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	415643	76.15	ug/l	98
59) 2-Hexanone	10.75	43	262838	73.67	ug/l	98
61) Tetrachloroethene	10.63	164	135507	22.80	ug/l	98
62) Toluene	10.16	91	574958	21.60	ug/l	99
64) Chlorobenzene	11.43	112	356981	21.64	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	139263	22.36	ug/l	99
66) Ethyl Benzene	11.51	91	579074	21.01	ug/l	100
67) m/p-Xylenes	11.62	106	467726	44.10	ug/l	98
68) o-Xylene	11.95	106	220339	21.74	ug/l	98
69) Styrene	11.96	104	343942	21.34	ug/l	99
70) Isopropylbenzene	12.25	105	583480	21.67	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	131219	18.00	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	96645m	15.36	ug/l	
73) Bromobenzene	12.53	156	148809	21.00	ug/l	93
74) n-propylbenzene	12.59	91	639727	21.01	ug/l	98
75) 2-Chlorotoluene	12.67	91	394885	21.35	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	487028	22.13	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	29266	16.33	ug/l	96
78) 4-Chlorotoluene	12.77	91	376226	20.66	ug/l	98
79) tert-butylbenzene	12.99	119	415770	21.75	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	478856	21.82	ug/l	99
81) sec-Butylbenzene	13.17	105	539926	21.59	ug/l	99
82) p-Isopropyltoluene	13.29	119	467345	21.65	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	244543	20.41	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	230470	20.30	ug/l	100
85) n-Butylbenzene	13.62	91	321024	19.49	ug/l	99
86) Hexachloroethane	13.87	117	91053	21.98	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	239422	20.30	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16705	16.38	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	79389	15.12	ug/l	99
90) Hexachlorobutadiene	15.01	225	88277	24.75	ug/l	98
91) Naphthalene	15.13	128	127357	16.34	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	85450	16.22	ug/l	98

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

