

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN082418\
 Data File : VN050861.D
 Acq On : 24 Aug 2018 8:04
 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
 8/25/2018 1:18:16 PM

Quant Time: Aug 24 14:09:29 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	103344	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	548745	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	487391	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	202357	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%
60) 4-Bromofluorobenzene	12.40	95	222353	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	10.09	98	700819	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	146785	20.611 ug/l	99
3) Chloromethane	2.06	50	160214	21.820 ug/l	99
4) Vinyl Chloride	2.18	62	155280	19.864 ug/l	98
5) Bromomethane	2.57	94	90710	19.035 ug/l	98
6) Chloroethane	2.70	64	89147	19.282 ug/l	96
7) Trichlorofluoromethane	3.01	101	201284	19.705 ug/l	100
8) Diethyl Ether	3.41	74	66363	19.368 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	126487	20.354 ug/l	99
10) 1,1-Dichloroethene	3.74	96	108124	19.624 ug/l	97
11) Methyl Iodide	3.95	142	83738	10.329 ug/l	99
12) Methyl Acetate	4.33	43	111279	17.631 ug/l	98
13) Acrolein	3.61	56	12807	32.833 ug/l	100
14) Acrylonitrile	4.99	53	183161	86.966 ug/l	98
15) Acetone	3.82	58	49565	88.552 ug/l	89
16) Carbon Disulfide	4.05	76	338074	20.049 ug/l	100
17) Allyl chloride	4.32	41	167895	19.295 ug/l	94
18) Methylene Chloride	4.55	84	129356	20.345 ug/l	96
19) trans-1,2-Dichloroethene	5.04	96	115634	19.602 ug/l	98
20) Diisopropyl ether	5.95	45	355485	19.924 ug/l	96
21) 1,1-Dichloroethane	5.85	63	219382	19.555 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	128246	19.604 ug/l	99
23) tert-Butyl Alcohol	4.79	59	35729m	75.920 ug/l	
24) Methyl tert-Butyl Ether	5.04	73	274774	18.286 ug/l	100
25) Chloroform	7.37	83	219906	19.363 ug/l	99
26) Cyclohexane	7.65	56	178475	20.019 ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	162240	19.051 ug/l	100
30) 2-Butanone	6.83	43	211342	79.085 ug/l	97
31) 2,2-Dichloropropane	6.82	77	179391	19.057 ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	184185	18.375 ug/l	98
33) Carbon Tetrachloride	7.77	117	163911	18.344 ug/l	98
34) Benzene	8.04	78	504692	19.514 ug/l	97
35) Methacrylonitrile	7.18	41	48480	15.933 ug/l	88
36) 1,2-Dichloroethane	8.12	62	150295	17.699 ug/l	99
37) Trichloroethene	8.83	130	130619	19.256 ug/l	95
38) Methylcyclohexane	9.08	83	171649	19.119 ug/l	99
39) 1,2-Dichloropropane	9.12	63	131288	19.270 ug/l	98
40) Dibromomethane	9.21	93	76179	18.091 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	161833	18.220	ug/l	95
42) Vinyl Acetate	5.90	43	1054721	83.872	ug/l	100
43) Ethyl Acetate	6.93	43	88268	15.818	ug/l #	90
44) Isopropyl Acetate	8.16	43	160936	15.569	ug/l	95
45) 1,4-Dioxane	9.20	88	21905	322.022	ug/l	92
46) Methyl methacrylate	9.20	41	77066	15.379	ug/l	97
47) n-amyl Acetate	12.07	43	120602	14.993	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	153504	18.131	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	184069	18.503	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	107221	17.739	ug/l	98
51) Ethyl methacrylate	10.43	69	117535	16.021	ug/l	95
52) 1,3-Dichloropropane	10.71	76	179881	18.123	ug/l	99
53) Dibromochloromethane	10.90	129	122121	17.803	ug/l	99
54) 1,2-Dibromoethane	11.00	107	104024	17.573	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	245928	74.069	ug/l	99
56) Bromoform	12.13	173	80668	16.655	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	451037	79.530	ug/l	97
59) 2-Hexanone	10.75	43	296968	76.755	ug/l	99
61) Tetrachloroethene	10.63	164	119315	18.073	ug/l	98
62) Toluene	10.16	91	528387	19.002	ug/l	100
64) Chlorobenzene	11.43	112	325134	19.282	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	120416	18.308	ug/l	97
66) Ethyl Benzene	11.51	91	522395	18.383	ug/l	100
67) m/p-Xylenes	11.62	106	416234	38.060	ug/l	100
68) o-Xylene	11.95	106	196311	18.867	ug/l	98
69) Styrene	11.96	104	305739	18.329	ug/l	99
70) Isopropylbenzene	12.25	105	524475	18.926	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	133373	17.530	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	107001m	16.466	ug/l	
73) Bromobenzene	12.53	156	136763	18.526	ug/l	98
74) n-propylbenzene	12.59	91	594517	18.421	ug/l	100
75) 2-Chlorotoluene	12.67	91	368796	19.025	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	437156	19.206	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31120	14.647	ug/l	96
78) 4-Chlorotoluene	12.77	91	355594	18.511	ug/l	98
79) tert-butylbenzene	12.99	119	368606	18.942	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	435600	18.889	ug/l	99
81) sec-Butylbenzene	13.17	105	495649	18.750	ug/l	100
82) p-Isopropyltoluene	13.29	119	419522	18.600	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	228391	17.768	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	213956	17.614	ug/l	99
85) n-Butylbenzene	13.61	91	308525	16.855	ug/l	99
86) Hexachloroethane	13.87	117	79663	17.674	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	224372	17.858	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17349	14.637	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	84375	14.060	ug/l	99
90) Hexachlorobutadiene	15.01	225	75812	19.160	ug/l	97
91) Naphthalene	15.13	128	146806	15.445	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	88390	14.482	ug/l	99

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

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