

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050499.D
 Acq On : 9 Aug 2018 21:13
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/10/2018 10:53:00 AM

Quant Time: Aug 10 07:38:01 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	7.20	128	135010	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	727618	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	629648	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	273678	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	289783	29.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.87%
63) Toluene-d8	10.09	98	900052	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	136703	14.69	ug/l	99
3) Chloromethane	2.06	50	171536	17.88	ug/l	97
4) Vinyl Chloride	2.18	62	181423	17.76	ug/l	96
5) Bromomethane	2.56	94	101980	16.38	ug/l	97
6) Chloroethane	2.70	64	113822	18.85	ug/l	98
7) Trichlorofluoromethane	3.01	101	249077	18.66	ug/l	99
8) Diethyl Ether	3.41	74	84273	18.83	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	153046	18.85	ug/l	99
10) 1,1-Dichloroethene	3.74	96	136985	19.03	ug/l	94
11) Methyl Iodide	3.95	142	64189	6.06	ug/l	99
12) Methyl Acetate	4.33	43	142174	17.24	ug/l	100
13) Acrolein	3.61	56	40239	78.96	ug/l	100
14) Acrylonitrile	5.00	53	248934	90.47	ug/l	99
15) Acetone	3.82	58	76090	104.06	ug/l	97
16) Carbon Disulfide	4.05	76	394577	17.91	ug/l	99
17) Allyl chloride	4.33	41	201743	17.75	ug/l	98
18) Methylene Chloride	4.55	84	167437	20.16	ug/l	95
19) trans-1,2-Dichloroethene	5.04	96	146597	19.02	ug/l	96
20) Diisopropyl ether	5.96	45	461949	19.82	ug/l	97
21) 1,1-Dichloroethane	5.85	63	278722	19.02	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	167483	19.60	ug/l	98
23) tert-Butyl Alcohol	4.80	59	52336	85.13	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	375399	19.12	ug/l	99
25) Chloroform	7.37	83	290978	19.61	ug/l	98
26) Cyclohexane	7.66	56	219184	18.82	ug/l #	98
29) 1,1-Dichloropropene	7.80	75	210490	18.64	ug/l	100
30) 2-Butanone	6.84	43	355512	100.33	ug/l	97
31) 2,2-Dichloropropane	6.83	77	203594	16.31	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	245517	18.47	ug/l	99
33) Carbon Tetrachloride	7.78	117	216572	18.28	ug/l	99
34) Benzene	8.04	78	648617	18.91	ug/l	99
35) Methacrylonitrile	7.18	41	66560	16.50	ug/l	98
36) 1,2-Dichloroethane	8.13	62	208537	18.52	ug/l	100
37) Trichloroethene	8.84	130	170719	18.98	ug/l	95
38) Methylcyclohexane	9.08	83	206016	17.31	ug/l	98
39) 1,2-Dichloropropane	9.12	63	170475	18.87	ug/l	99
40) Dibromomethane	9.21	93	103584	18.55	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	215428	18.29	ug/l	98
42) Vinyl Acetate	5.90	43	1466151	87.93	ug/l	100
43) Ethyl Acetate	6.93	43	123905	16.75	ug/l	94
44) Isopropyl Acetate	8.17	43	244032	17.80	ug/l	95
45) 1,4-Dioxane	9.20	88	32128	356.20	ug/l	99
46) Methyl methacrylate	9.20	41	110483	16.63	ug/l	97
47) n-amyl Acetate	12.07	43	175542	16.46	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	198881	17.72	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	236449	17.93	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	150113	18.73	ug/l	99
51) Ethyl methacrylate	10.43	69	170917	17.57	ug/l	100
52) 1,3-Dichloropropane	10.71	76	243481	18.50	ug/l	99
53) Dibromochloromethane	10.90	129	163515	17.98	ug/l	99
54) 1,2-Dibromoethane	11.01	107	143702	18.31	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	427142	97.02	ug/l	99
56) Bromoform	12.13	173	108802	16.94	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	821614	112.14	ug/l	98
59) 2-Hexanone	10.75	43	529734	105.98	ug/l	99
61) Tetrachloroethene	10.63	164	165386	19.39	ug/l	99
62) Toluene	10.16	91	691913	19.26	ug/l	100
64) Chlorobenzene	11.44	112	427320	19.62	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	163555	19.25	ug/l	100
66) Ethyl Benzene	11.51	91	690077	18.80	ug/l	100
67) m/p-Xylenes	11.62	106	552328	39.09	ug/l	98
68) o-Xylene	11.95	106	258177	19.21	ug/l	99
69) Styrene	11.97	104	422350	19.60	ug/l	99
70) Isopropylbenzene	12.25	105	693926	19.38	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	184166	18.74	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	140311m	16.71	ug/l	
73) Bromobenzene	12.53	156	181513	19.03	ug/l	100
74) n-propylbenzene	12.59	91	774397	18.57	ug/l	99
75) 2-Chlorotoluene	12.68	91	479064	19.13	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	568033	19.32	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38045	13.86	ug/l	90
78) 4-Chlorotoluene	12.77	91	470824	18.97	ug/l	98
79) tert-butylbenzene	12.99	119	480317	19.11	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	579642	19.46	ug/l	100
81) sec-Butylbenzene	13.17	105	631156	18.48	ug/l	100
82) p-Isopropyltoluene	13.29	119	539759	18.52	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	313014	18.85	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	298294	19.01	ug/l	98
85) n-Butylbenzene	13.62	91	400577	16.94	ug/l	99
86) Hexachloroethane	13.88	117	92832	15.94	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	311720	19.20	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	26893	17.56	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	134659	17.37	ug/l	99
90) Hexachlorobutadiene	15.01	225	90380	17.68	ug/l	99
91) Naphthalene	15.14	128	281194	19.21	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	136968	17.37	ug/l	98

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

