

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112718\
 Data File : VN052492.D
 Acq On : 27 Nov 2018 21:39
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/28/2018 9:32:26 AM

Quant Time: Nov 28 07:10:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	190481	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1113008	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	962132	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	381179	29.37	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.90%
60) 4-Bromofluorobenzene	12.40	95	436903	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	10.09	98	1331894	29.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	189441	17.46	ug/l	97
3) Chloromethane	2.06	50	254272	17.67	ug/l	100
4) Vinyl Chloride	2.19	62	267469	18.42	ug/l	98
5) Bromomethane	2.58	94	166676	20.13	ug/l	99
6) Chloroethane	2.71	64	159151	18.43	ug/l	100
7) Trichlorofluoromethane	3.02	101	332631	18.56	ug/l	98
8) Diethyl Ether	3.41	74	123346	18.64	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	203020	17.87	ug/l	98
10) 1,1-Dichloroethene	3.74	96	200888	18.81	ug/l	99
11) Methyl Iodide	3.96	142	281306	18.97	ug/l	100
12) Methyl Acetate	4.33	43	162575	17.91	ug/l	96
13) Acrolein	3.61	56	86890	81.50	ug/l	97
14) Acrylonitrile	4.99	53	354440	91.66	ug/l	99
15) Acetone	3.82	58	80969	80.85	ug/l	96
16) Carbon Disulfide	4.06	76	582460	17.22	ug/l	99
17) Allyl chloride	4.33	41	335170	17.99	ug/l	97
18) Methylene Chloride	4.55	84	230129	18.61	ug/l	96
19) trans-1,2-Dichloroethene	5.05	96	216897	18.87	ug/l	92
20) Diisopropyl ether	5.95	45	721962	18.44	ug/l	99
21) 1,1-Dichloroethane	5.85	63	416291	18.66	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	249194	18.91	ug/l	99
23) tert-Butyl Alcohol	4.78	59	50717	88.16	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	544467	19.43	ug/l	99
25) Chloroform	7.37	83	405061	18.82	ug/l	99
26) Cyclohexane	7.65	56	375815	17.86	ug/l #	99
29) 1,1-Dichloropropene	7.80	75	313280	18.43	ug/l	99
30) 2-Butanone	6.83	43	386309	84.94	ug/l	98
31) 2,2-Dichloropropane	6.83	77	263975	16.87	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	330287	18.68	ug/l	97
33) Carbon Tetrachloride	7.77	117	279572	18.07	ug/l	98
34) Benzene	8.04	78	948992	18.57	ug/l	99
35) Methacrylonitrile	7.17	41	100173	17.75	ug/l	95
36) 1,2-Dichloroethane	8.12	62	285269	18.42	ug/l	99
37) Trichloroethene	8.83	130	242083	18.68	ug/l	99
38) Methylcyclohexane	9.08	83	370798	17.62	ug/l	97
39) 1,2-Dichloropropane	9.12	63	250161	18.26	ug/l	99
40) Dibromomethane	9.21	93	139459	18.84	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	294015	17.98	ug/l	100
42) Vinyl Acetate	5.90	43	2205370	89.62	ug/l	99
43) Ethyl Acetate	6.93	43	179139	18.52	ug/l #	71
44) Isopropyl Acetate	8.16	43	317233	18.70	ug/l #	77
45) 1,4-Dioxane	9.20	88	31264	336.94	ug/l	97
46) Methyl methacrylate	9.20	41	163857	18.61	ug/l	96
47) n-amyl Acetate	12.07	43	245211	17.44	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	280412	17.68	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	342623	17.73	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	200991	19.16	ug/l	98
51) Ethyl methacrylate	10.43	69	242951	18.44	ug/l	97
52) 1,3-Dichloropropane	10.71	76	341536	18.29	ug/l	100
53) Dibromochloromethane	10.90	129	209019	18.09	ug/l	98
54) 1,2-Dibromoethane	11.01	107	193128	18.84	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	720505	93.40	ug/l	99
56) Bromoform	12.13	173	133801	17.72	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	871902	93.48	ug/l	99
59) 2-Hexanone	10.75	43	562767	88.32	ug/l	98
61) Tetrachloroethene	10.63	164	234140	19.76	ug/l	97
62) Toluene	10.16	91	1041155	19.63	ug/l	100
64) Chlorobenzene	11.43	112	618574	19.11	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	210889	18.77	ug/l	99
66) Ethyl Benzene	11.51	91	1078558	18.87	ug/l	99
67) m/p-Xylenes	11.62	106	821951	38.59	ug/l	100
68) o-Xylene	11.95	106	402325	19.46	ug/l	98
69) Styrene	11.96	104	630731	18.90	ug/l	100
70) Isopropylbenzene	12.25	105	1045572	19.01	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	227648	19.03	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	194985m	18.99	ug/l	
73) Bromobenzene	12.53	156	258191	19.41	ug/l	95
74) n-propylbenzene	12.59	91	1182628	18.46	ug/l	100
75) 2-Chlorotoluene	12.68	91	712826	19.16	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	851383	19.17	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	54354	16.75	ug/l	95
78) 4-Chlorotoluene	12.77	91	688429	18.53	ug/l	99
79) tert-butylbenzene	12.99	119	747729	19.33	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	855791	19.25	ug/l	99
81) sec-Butylbenzene	13.17	105	1010580	18.75	ug/l	100
82) p-Isopropyltoluene	13.29	119	855263	18.64	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	435441	18.61	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	421373	18.64	ug/l	100
85) n-Butylbenzene	13.62	91	692163	17.56	ug/l	100
86) Hexachloroethane	13.88	117	137508	17.69	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	426097	19.14	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	31808	18.98	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	199159	18.16	ug/l	98
90) Hexachlorobutadiene	15.01	225	136687	19.00	ug/l	99
91) Naphthalene	15.14	128	410833	18.55	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	188103	18.61	ug/l	98

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

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