

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112918\
 Data File : VN052591.D
 Acq On : 30 Nov 2018 3:43
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 11:04:37 AM

Quant Time: Nov 30 04:35:01 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	162753	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	946136	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	823680	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	330246	29.78	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.27%
60) 4-Bromofluorobenzene	12.40	95	373958	29.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.97%
63) Toluene-d8	10.09	98	1140324	29.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.53%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	168255	18.152	ug/l 100
3) Chloromethane	2.06	50	226341	18.412	ug/l 99
4) Vinyl Chloride	2.19	62	239141	19.274	ug/l 98
5) Bromomethane	2.58	94	139329	19.695	ug/l 96
6) Chloroethane	2.71	64	141512	19.179	ug/l 99
7) Trichlorofluoromethane	3.02	101	293689	19.180	ug/l 98
8) Diethyl Ether	3.41	74	112875	19.963	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	178096	18.347	ug/l 96
10) 1,1-Dichloroethene	3.74	96	179333	19.649	ug/l 99
11) Methyl Iodide	3.96	142	253358	19.994	ug/l 99
12) Methyl Acetate	4.33	43	150711	19.435	ug/l 100
13) Acrolein	3.61	56	85045	93.362	ug/l 98
14) Acrylonitrile	4.99	53	323862	98.016	ug/l 98
15) Acetone	3.82	58	69598	81.334	ug/l 98
16) Carbon Disulfide	4.06	76	518483	17.943	ug/l 98
17) Allyl chloride	4.33	41	293495	18.439	ug/l 98
18) Methylene Chloride	4.55	84	204937	19.393	ug/l 98
19) trans-1,2-Dichloroethene	5.05	96	187258	19.065	ug/l 97
20) Diisopropyl ether	5.95	45	635577	19.001	ug/l 99
21) 1,1-Dichloroethane	5.85	63	367300	19.266	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	217831	19.351	ug/l 98
23) tert-Butyl Alcohol	4.78	59	53883m	109.624	ug/l
24) Methyl tert-Butyl Ether	5.05	73	489058	20.426	ug/l 99
25) Chloroform	7.37	83	361702	19.666	ug/l 99
26) Cyclohexane	7.65	56	328306	18.259	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	270619	18.730	ug/l 99
30) 2-Butanone	6.83	43	358506	92.729	ug/l 99
31) 2,2-Dichloropropane	6.83	77	204620	15.383	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	294025	19.557	ug/l 98
33) Carbon Tetrachloride	7.78	117	251619	19.128	ug/l 99
34) Benzene	8.04	78	840898	19.358	ug/l 99
35) Methacrylonitrile	7.18	41	88961	18.546	ug/l 98
36) 1,2-Dichloroethane	8.12	62	254645	19.345	ug/l 99
37) Trichloroethene	8.83	130	216643	19.667	ug/l 96
38) Methylcyclohexane	9.08	83	316035	17.670	ug/l 98
39) 1,2-Dichloropropane	9.12	63	223269	19.174	ug/l 96
40) Dibromomethane	9.21	93	127547	20.270	ug/l 97

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

41) Bromodichloromethane	9.40	83	266879	19.196	ug/l	98
42) Vinyl Acetate	5.90	43	1981494	94.725	ug/l	99
43) Ethyl Acetate	6.93	43	163419	19.878	ug/l #	85
44) Isopropyl Acetate	8.17	43	293900	20.384	ug/l	98
45) 1,4-Dioxane	9.20	88	36187	458.783	ug/l	91
46) Methyl methacrylate	9.20	41	149319	19.946	ug/l	97
47) n-amyl Acetate	12.07	43	224810	18.806	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	248729	18.452	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	300160	18.276	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	179074	20.076	ug/l	99
51) Ethyl methacrylate	10.43	69	219858	19.626	ug/l	99
52) 1,3-Dichloropropane	10.71	76	311278	19.606	ug/l	98
53) Dibromochloromethane	10.90	129	188802	19.226	ug/l	96
54) 1,2-Dibromoethane	11.01	107	175126	20.092	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	643671	98.158	ug/l	99
56) Bromoform	12.13	173	124314	19.367	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	822637	103.018	ug/l	99
59) 2-Hexanone	10.75	43	526319	96.485	ug/l	98
61) Tetrachloroethene	10.63	164	214753	21.169	ug/l	96
62) Toluene	10.16	91	883348	19.454	ug/l	99
64) Chlorobenzene	11.43	112	539607	19.470	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	189622	19.711	ug/l	98
66) Ethyl Benzene	11.51	91	946882	19.348	ug/l	99
67) m/p-Xylenes	11.62	106	713665	39.143	ug/l	99
68) o-Xylene	11.95	106	347917	19.661	ug/l	100
69) Styrene	11.96	104	552152	19.331	ug/l	100
70) Isopropylbenzene	12.25	105	915187	19.437	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	206584	20.170	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	174948m	19.898	ug/l	
73) Bromobenzene	12.53	156	227957	20.018	ug/l	95
74) n-propylbenzene	12.59	91	1031741	18.807	ug/l	99
75) 2-Chlorotoluene	12.68	91	621579	19.520	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	743614	19.553	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	46228	16.644	ug/l	97
78) 4-Chlorotoluene	12.77	91	609565	19.169	ug/l	99
79) tert-butylbenzene	12.99	119	657431	19.850	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	751979	19.761	ug/l	100
81) sec-Butylbenzene	13.17	105	879955	19.075	ug/l	99
82) p-Isopropyltoluene	13.29	119	738345	18.796	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	385864	19.266	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	372805	19.266	ug/l	98
85) n-Butylbenzene	13.62	91	593419	17.587	ug/l	99
86) Hexachloroethane	13.88	117	123048	18.488	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	381576	20.021	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29972	20.891	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	180233	19.194	ug/l	99
90) Hexachlorobutadiene	15.01	225	122310	19.856	ug/l	99
91) Naphthalene	15.13	128	381807	20.135	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	175485	20.279	ug/l	96

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

