

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071320\
 Data File : VN062514.D
 Acq On : 13 Jul 2020 14:22
 Operator : JC/MD
 Sample : L3216-07 2.5PPB LOD
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2020

Manual Integrations
 APPROVED

MMDadoda
 7/14/2020 11:36:50 AM

Quant Time: Jul 14 01:14:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	46577	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	260128	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	235845	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	119667	29.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.70%
60) 4-Bromofluorobenzene	12.38	95	110521	27.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.80%
63) Toluene-d8	10.06	98	337804	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	6593	2.398 ug/l	98
3) Chloromethane	2.04	50	9801	2.469 ug/l	92
4) Vinyl Chloride	2.16	62	8702	2.508 ug/l	94
5) Bromomethane	2.54	94	4827	2.804 ug/l	95
6) Chloroethane	2.67	64	4332	2.536 ug/l	93
7) Trichlorofluoromethane	2.98	101	10696	2.630 ug/l	97
8) Diethyl Ether	3.37	74	5205	2.662 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.72	101	6967	2.650 ug/l	92
10) 1,1-Dichloroethene	3.69	96	7301	2.722 ug/l	83
11) Methyl Iodide	3.91	142	5898	1.796 ug/l	98
12) Methyl Acetate	4.28	43	9642m	2.680 ug/l	
13) Acrolein	3.58	56	4643	8.639 ug/l #	55
14) Acrylonitrile	4.94	53	19868	11.876 ug/l	88
15) Acetone	3.78	58	5874	11.438 ug/l	90
16) Carbon Disulfide	4.01	76	24114	2.759 ug/l	99
17) Allyl chloride	4.28	41	14864m	2.606 ug/l	
18) Methylene Chloride	4.49	84	9438m	2.860 ug/l	
19) trans-1,2-Dichloroethene	4.98	96	7785m	2.622 ug/l	
20) Diisopropyl ether	5.90	45	30127	2.569 ug/l	94
21) 1,1-Dichloroethane	5.80	63	16617m	2.680 ug/l	
22) cis-1,2-Dichloroethene	6.78	96	9036m	2.699 ug/l	
23) tert-Butyl Alcohol	4.73	59	7506m	13.407 ug/l	
24) Methyl tert-Butyl Ether	4.99	73	25141	2.542 ug/l #	84
25) Chloroform	7.33	83	14737	2.592 ug/l	100
26) Cyclohexane	7.61	56	13799	2.525 ug/l #	99
29) 1,1-Dichloropropene	7.75	75	10951	2.482 ug/l	96
30) 2-Butanone	6.79	43	28798	12.306 ug/l #	96
31) 2,2-Dichloropropane	6.78	77	14029	2.820 ug/l	99
32) 1,1,1-Trichloroethane	7.53	97	12759	2.690 ug/l	98
33) Carbon Tetrachloride	7.73	117	10586	2.575 ug/l	100
34) Benzene	8.00	78	34483	2.631 ug/l #	29
35) Methacrylonitrile	7.13	41	6423	3.125 ug/l	87
36) 1,2-Dichloroethane	8.09	62	13218	2.805 ug/l	97
37) Trichloroethene	8.80	130	8086	2.746 ug/l	93
38) Methylcyclohexane	9.04	83	12705	2.567 ug/l	99
39) 1,2-Dichloropropane	9.09	63	9692	2.595 ug/l	94
40) Dibromomethane	9.18	93	5840	2.713 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	11642	2.550	ug/l	93
42) Vinyl Acetate	5.85	43	119030	12.241	ug/l	99
43) Ethyl Acetate	6.89	43	10693	2.273	ug/l #	81
44) Isopropyl Acetate	8.13	43	19316	2.447	ug/l	97
45) 1,4-Dioxane	9.17	88	2775	51.393	ug/l	97
46) Methyl methacrylate	9.17	41	9176	2.450	ug/l	88
47) n-amyl Acetate	12.05	43	13254	1.992	ug/l	96
48) t-1,3-Dichloropropene	10.35	75	12878	2.419	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	14408	2.507	ug/l	96
50) 1,1,2-Trichloroethane	10.53	97	8025	2.660	ug/l	93
51) Ethyl methacrylate	10.40	69	11185	2.202	ug/l	96
52) 1,3-Dichloropropane	10.68	76	14096	2.546	ug/l	99
53) Dibromochloromethane	10.87	129	8044	2.447	ug/l	97
54) 1,2-Dibromoethane	10.98	107	7535	2.440	ug/l	94
55) 2-Chloroethyl vinyl ether	9.66	63	16604	10.235	ug/l	99
56) Bromoform	12.10	173	5501	2.450	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	56343	12.262	ug/l	98
59) 2-Hexanone	10.72	43	38843	11.526	ug/l	98
61) Tetrachloroethene	10.60	164	6461	2.675	ug/l	92
62) Toluene	10.12	91	35457	2.650	ug/l	98
64) Chlorobenzene	11.41	112	20759	2.640	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	7554	2.596	ug/l	97
66) Ethyl Benzene	11.48	91	36530	2.466	ug/l	99
67) m/p-Xylenes	11.60	106	25299	4.704	ug/l	98
68) o-Xylene	11.92	106	12381	2.399	ug/l	94
69) Styrene	11.94	104	18600	2.123	ug/l	96
70) Isopropylbenzene	12.22	105	31350	2.263	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.48	83	11818	2.639	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	10388m	2.385	ug/l	
73) Bromobenzene	12.50	156	8172	2.547	ug/l	97
74) n-propylbenzene	12.57	91	37734	2.291	ug/l	99
75) 2-Chlorotoluene	12.65	91	24161	2.437	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	27103	2.296	ug/l	96
77) t-1,4-Dichloro-2-butene	12.28	75	3494	2.145	ug/l	95
78) 4-Chlorotoluene	12.75	91	23594	2.332	ug/l	95
79) tert-butylbenzene	12.97	119	23930	2.448	ug/l	96
80) 1,2,4-Trimethylbenzene	13.02	105	24571	2.116	ug/l	94
81) sec-Butylbenzene	13.15	105	29594	2.254	ug/l	97
82) p-Isopropyltoluene	13.26	119	23451	2.024	ug/l	96
83) 1,3-Dichlorobenzene	13.26	146	11815	2.120	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	12204	2.220	ug/l	94
85) n-Butylbenzene	13.59	91	18690	1.881	ug/l	98
86) Hexachloroethane	13.85	117	5248	2.348	ug/l	98
87) 1,2-Dichlorobenzene	13.63	146	11814	2.205	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.25	75	1783	2.109	ug/l	92
89) 1,2,4-Trichlorobenzene	14.89	180	4008	1.503	ug/l	97
90) Hexachlorobutadiene	14.98	225	3990	2.697	ug/l	99
91) Naphthalene	15.11	128	10801	1.493	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	4360	1.622	ug/l	93

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

