

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056584.D
 Acq On : 3 Jul 2019 13:25
 Operator : JC/SP
 Sample : K3591-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:15 AM

Quant Time: Jul 03 22:29:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	49168	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	268764	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	225401	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	105060	30.99	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.30%
60) 4-Bromofluorobenzene	12.40	95	92894	26.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.40%
63) Toluene-d8	10.09	98	326218	31.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	6081m	2.466 ug/l	
3) Chloromethane	2.06	50	9077	2.536 ug/l	99
4) Vinyl Chloride	2.18	62	8762m	2.601 ug/l	
5) Bromomethane	2.53	94	6277m	3.493 ug/l	
6) Chloroethane	2.69	64	4510	2.418 ug/l	98
7) Trichlorofluoromethane	3.00	101	11417	2.641 ug/l	93
8) Diethyl Ether	3.41	74	4671	2.547 ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.76	101	7054	2.575 ug/l	84
10) 1,1-Dichloroethene	3.73	96	6825	2.539 ug/l	97
11) Methyl Iodide	3.95	142	9146m	2.380 ug/l	
12) Methyl Acetate	4.33	43	13319	3.675 ug/l	94
13) Acrolein	3.61	56	5365	15.160 ug/l	92
14) Acrylonitrile	5.00	53	19994	12.563 ug/l #	61
15) Acetone	3.82	58	5458	12.291 ug/l	94
16) Carbon Disulfide	4.05	76	15223	2.356 ug/l	98
17) Allyl chloride	4.32	41	11182	2.377 ug/l	96
18) Methylene Chloride	4.56	84	9026	2.840 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	7411	2.542 ug/l	90
20) Diisopropyl ether	5.96	45	24699	2.542 ug/l	93
21) 1,1-Dichloroethane	5.85	63	13870	2.530 ug/l #	93
22) cis-1,2-Dichloroethene	6.83	96	8740	2.550 ug/l	92
23) tert-Butyl Alcohol	4.80	59	12209m	20.508 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	22412m	2.521 ug/l	
25) Chloroform	7.37	83	14026	2.611 ug/l	94
26) Cyclohexane	7.65	56	12547	2.485 ug/l #	94
29) 1,1-Dichloropropene	7.80	75	9631	2.427 ug/l	84
30) 2-Butanone	6.85	43	25990	11.813 ug/l #	97
31) 2,2-Dichloropropane	6.83	77	9297m	2.436 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	10227	2.417 ug/l	97
33) Carbon Tetrachloride	7.78	117	8306	2.316 ug/l	96
34) Benzene	8.04	78	32684	2.634 ug/l #	22
35) Methacrylonitrile	7.18	41	4004	2.049 ug/l	94
36) 1,2-Dichloroethane	8.13	62	10356	2.567 ug/l	96
37) Trichloroethene	8.83	130	8528	2.635 ug/l	99
38) Methylcyclohexane	9.08	83	12058	2.424 ug/l	96
39) 1,2-Dichloropropane	9.12	63	8319	2.490 ug/l	98
40) Dibromomethane	9.21	93	5114	2.476 ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	9387	2.453	ug/l	97
42) Vinyl Acetate	5.90	43	88563	11.305	ug/l	96
43) Ethyl Acetate	6.93	43	9546	2.243	ug/l	94
44) Isopropyl Acetate	8.17	43	16005	2.410	ug/l	100
45) 1,4-Dioxane	9.20	88	3194m	49.159	ug/l	
46) Methyl methacrylate	9.20	41	8347	2.558	ug/l	100
47) n-amyl Acetate	12.07	43	11646	2.110	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	8591	2.094	ug/l	91
49) cis-1,3-Dichloropropene	9.84	75	9878	2.088	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	7935	2.608	ug/l	96
51) Ethyl methacrylate	10.43	69	10367	2.164	ug/l	97
52) 1,3-Dichloropropane	10.71	76	13258	2.565	ug/l	97
53) Dibromochloromethane	10.90	129	6159	2.065	ug/l	98
54) 1,2-Dibromoethane	11.00	107	7591	2.395	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	27452	11.244	ug/l	96
56) Bromoform	12.13	173	4181	1.930	ug/l #	94
58) 4-Methyl-2-Pentanone	9.99	43	53270	13.144	ug/l	97
59) 2-Hexanone	10.75	43	37313	12.408	ug/l	95
61) Tetrachloroethene	10.63	164	8179	2.891	ug/l	96
62) Toluene	10.16	91	34155	2.715	ug/l	98
64) Chlorobenzene	11.43	112	19637	2.591	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	6596	2.417	ug/l	99
66) Ethyl Benzene	11.51	91	33992	2.492	ug/l	98
67) m/p-Xylenes	11.62	106	24398	4.847	ug/l	92
68) o-Xylene	11.95	106	12757	2.563	ug/l	100
69) Styrene	11.96	104	18799	2.270	ug/l	95
70) Isopropylbenzene	12.25	105	32447	2.498	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.50	83	10559	2.459	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	9953m	2.756	ug/l	
73) Bromobenzene	12.53	156	7741	2.311	ug/l	80
74) n-propylbenzene	12.59	91	34367	2.332	ug/l	95
75) 2-Chlorotoluene	12.67	91	22011	2.498	ug/l	95
76) 1,3,5-Trimethylbenzene	12.73	105	25484	2.317	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	1836	1.587	ug/l	79
78) 4-Chlorotoluene	12.77	91	18332	2.139	ug/l	100
79) tert-butylbenzene	12.99	119	22965	2.444	ug/l	95
80) 1,2,4-Trimethylbenzene	13.04	105	25132	2.314	ug/l	100
81) sec-Butylbenzene	13.17	105	28035	2.250	ug/l	100
82) p-Isopropyltoluene	13.29	119	25420	2.269	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	12541	2.254	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	11458	2.135	ug/l	96
85) n-Butylbenzene	13.61	91	18696	1.986	ug/l	94
86) Hexachloroethane	13.87	117	3332	1.972	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	12501	2.213	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1442	1.874	ug/l	87
89) 1,2,4-Trichlorobenzene	14.91	180	4591	1.470	ug/l	99
90) Hexachlorobutadiene	15.01	225	4655	2.400	ug/l	94
91) Naphthalene	15.13	128	13051	1.489	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	6263	1.911	ug/l	98

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

