

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031320\
 Data File : VX015277.D
 Acq On : 13 Mar 2020 23:14
 Operator : JC/SP
 Sample : L1161-07 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT1-2020DL

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 2:07:37 PM

Quant Time: Mar 16 09:46:57 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Thu Mar 12 14:12:53 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	50220	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	284924	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	267828	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	105108	31.03	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.43%
60) 4-Bromofluorobenzene	11.13	95	119112	27.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.13%
63) Toluene-d8	8.71	98	340162	29.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	5991	2.372 ug/l	94
3) Chloromethane	1.32	50	8020	2.199 ug/l	95
4) Vinyl Chloride	1.40	62	8319m	2.242 ug/l	
5) Bromomethane	1.64	94	5586	2.311 ug/l	87
6) Chloroethane	1.72	64	5400	2.317 ug/l	94
7) Trichlorofluoromethane	1.93	101	10324	2.182 ug/l	95
8) Diethyl Ether	2.18	74	4953	2.362 ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.38	101	7229	2.492 ug/l	93
10) 1,1-Dichloroethene	2.37	96	6457	2.208 ug/l	97
11) Methyl Iodide	2.50	142	5879	1.954 ug/l	99
12) Methyl Acetate	2.76	43	8285	2.296 ug/l	98
13) Acrolein	2.29	56	6679	11.722 ug/l	97
14) Acrylonitrile	3.14	53	19969	11.927 ug/l	98
15) Acetone	2.44	58	5123	10.428 ug/l	96
16) Carbon Disulfide	2.56	76	20021	2.444 ug/l	99
17) Allyl chloride	2.72	41	11284	2.080 ug/l	96
18) Methylene Chloride	2.84	84	8820	2.668 ug/l	88
19) trans-1,2-Dichloroethene	3.16	96	7568	2.399 ug/l #	90
20) Diisopropyl ether	3.84	45	23928	2.220 ug/l #	86
21) 1,1-Dichloroethane	3.69	63	13979	2.448 ug/l	96
22) cis-1,2-Dichloroethene	4.59	96	9321	2.614 ug/l	93
23) tert-Butyl Alcohol	3.03	59	8755	13.375 ug/l #	98
24) Methyl tert-Butyl Ether	3.19	73	21480	2.273 ug/l	92
25) Chloroform	5.20	83	15105	2.780 ug/l	95
26) Cyclohexane	5.58	56	13200	2.487 ug/l #	93
29) 1,1-Dichloropropene	5.79	75	10990	2.514 ug/l	84
30) 2-Butanone	4.67	43	27010	11.536 ug/l #	59
31) 2,2-Dichloropropane	4.57	77	8936m	1.989 ug/l	
32) 1,1,1-Trichloroethane	5.48	97	11234	2.361 ug/l	95
33) Carbon Tetrachloride	5.78	117	9600m	2.358 ug/l	
34) Benzene	6.13	78	32174	2.428 ug/l	97
35) Methacrylonitrile	5.05	41	7076m	2.795 ug/l	
36) 1,2-Dichloroethane	6.19	62	10686	2.418 ug/l	95
37) Trichloroethene	7.21	130	11459	3.127 ug/l	97
38) Methylcyclohexane	7.45	83	13076	2.461 ug/l	96
39) 1,2-Dichloropropane	7.51	63	8523	2.490 ug/l	94
40) Dibromomethane	7.66	93	6076	2.793 ug/l	95

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

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

41) Bromodichloromethane	7.89	83	10334	2.402	ug/l #	86
42) Vinyl Acetate	3.81	43	97310	10.539	ug/l	98
43) Ethyl Acetate	4.83	43	11668	2.626	ug/l #	72
44) Isopropyl Acetate	6.44	43	18314	2.437	ug/l	98
45) 1,4-Dioxane	7.75	88	3851	52.180	ug/l #	86
46) Methyl methacrylate	7.76	41	7924	2.139	ug/l	89
47) n-amyl Acetate	10.89	43	13321	1.976	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	10149	2.169	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	11682	2.199	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	8493	2.640	ug/l	96
51) Ethyl methacrylate	9.17	69	11173	2.226	ug/l	98
52) 1,3-Dichloropropane	9.37	76	14024	2.576	ug/l	100
53) Dibromochloromethane	9.58	129	7875	2.299	ug/l	96
54) 1,2-Dibromoethane	9.67	107	8824	2.659	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	27502	10.941	ug/l	99
56) Bromoform	10.85	173	5996	2.233	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	52725	11.563	ug/l	99
59) 2-Hexanone	9.49	43	37851	10.983	ug/l	96
61) Tetrachloroethene	9.33	164	9754	2.616	ug/l #	87
62) Toluene	8.78	91	35130	2.479	ug/l	96
64) Chlorobenzene	10.13	112	23635	2.610	ug/l	92
65) 1,1,1,2-Tetrachloroethane	10.21	131	7195	2.157	ug/l	97
66) Ethyl Benzene	10.25	91	35643	2.258	ug/l	98
67) m/p-Xylenes	10.36	106	27352	4.513	ug/l	97
68) o-Xylene	10.70	106	13371	2.301	ug/l	89
69) Styrene	10.71	104	21112	2.088	ug/l	98
70) Isopropylbenzene	11.01	105	33180	2.145	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.26	83	11879	2.366	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	10765m	2.620	ug/l	
73) Bromobenzene	11.25	156	10121	2.400	ug/l	98
74) n-propylbenzene	11.35	91	41278	2.259	ug/l	99
75) 2-Chlorotoluene	11.42	91	25463	2.387	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	28337	2.146	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	2732	1.587	ug/l	93
78) 4-Chlorotoluene	11.51	91	28827	2.347	ug/l	95
79) tert-butylbenzene	11.76	119	27103	2.190	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	27145	2.080	ug/l	97
81) sec-Butylbenzene	11.94	105	33519	2.182	ug/l	97
82) p-Isopropyltoluene	12.06	119	28476	2.016	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	18606	2.497	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	19118	2.565	ug/l	99
85) n-Butylbenzene	12.39	91	25735	2.079	ug/l	97
86) Hexachloroethane	12.59	117	5025	2.032	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	17668	2.431	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.99	75	2536	2.454	ug/l	92
89) 1,2,4-Trichlorobenzene	13.64	180	12336	2.297	ug/l	96
90) Hexachlorobutadiene	13.78	225	6202	2.244	ug/l	97
91) Naphthalene	13.83	128	29912	2.010	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	12491	2.311	ug/l	98

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

