

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017306.D
 Acq On : 09 Jul 2020 14:40
 Operator : JC/SP
 Sample : L3216-07 5.0PPB L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 7/10/2020 12:36:45 PM

Quant Time: Jul 10 07:01:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 10 06:55:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	55257	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	281511	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	269406	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	118739	29.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.67%
60) 4-Bromofluorobenzene	11.12	95	128438	27.95	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.17%
63) Toluene-d8	8.70	98	341136	29.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	13015	5.388	ug/l 99
3) Chloromethane	1.32	50	13019	5.059	ug/l 97
4) Vinyl Chloride	1.39	62	13301	5.016	ug/l 93
5) Bromomethane	1.63	94	9332	5.280	ug/l 91
6) Chloroethane	1.72	64	8406	4.794	ug/l 98
7) Trichlorofluoromethane	1.92	101	23454	4.979	ug/l 89
8) Diethyl Ether	2.17	74	8653	5.178	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	14312	5.557	ug/l 97
10) 1,1-Dichloroethene	2.36	96	13175	5.189	ug/l 97
11) Methyl Iodide	2.50	142	9686	3.239	ug/l 97
12) Methyl Acetate	2.75	43	17368	4.909	ug/l 95
13) Acrolein	2.28	56	10260	22.424	ug/l 95
14) Acrylonitrile	3.12	53	40118	25.131	ug/l 99
15) Acetone	2.42	58	10450	25.956	ug/l 90
16) Carbon Disulfide	2.55	76	29547	4.290	ug/l 99
17) Allyl chloride	2.71	41	22684	4.802	ug/l 92
18) Methylene Chloride	2.84	84	16683	5.334	ug/l 97
19) trans-1,2-Dichloroethene	3.14	96	14529	4.894	ug/l 93
20) Diisopropyl ether	3.82	45	47362	5.015	ug/l 92
21) 1,1-Dichloroethane	3.67	63	26827	5.068	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	17342	5.120	ug/l 100
23) tert-Butyl Alcohol	3.01	59	16949	25.730	ug/l # 99
24) Methyl tert-Butyl Ether	3.17	73	47445	4.894	ug/l 99
25) Chloroform	5.18	83	29691	5.264	ug/l 96
26) Cyclohexane	5.54	56	19298	4.679	ug/l # 99
29) 1,1-Dichloropropene	5.78	75	18883	4.864	ug/l 98
30) 2-Butanone	4.64	43	54268	25.557	ug/l 99
31) 2,2-Dichloropropane	4.54	77	24618	5.062	ug/l # 87
32) 1,1,1-Trichloroethane	5.47	97	26909	5.324	ug/l 96
33) Carbon Tetrachloride	5.76	117	23484	5.039	ug/l 99
34) Benzene	6.12	78	57502	4.978	ug/l 100
35) Methacrylonitrile	5.01	41	12091	5.086	ug/l 94
36) 1,2-Dichloroethane	6.17	62	23782	5.228	ug/l 99
37) Trichloroethene	7.18	130	17056	4.909	ug/l 97
38) Methylcyclohexane	7.44	83	19688	4.813	ug/l 100
39) 1,2-Dichloropropane	7.49	63	15214	5.041	ug/l 98
40) Dibromomethane	7.63	93	11127	5.117	ug/l 98

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

41) Bromodichloromethane	7.87	83	23824	5.250	ug/l	91
42) Vinyl Acetate	3.79	43	195054	24.037	ug/l	100
43) Ethyl Acetate	4.79	43	21717	5.200	ug/l #	84
44) Isopropyl Acetate	6.41	43	33594	4.834	ug/l	98
45) 1,4-Dioxane	7.71	88	6384	96.377	ug/l	97
46) Methyl methacrylate	7.74	41	15633	4.618	ug/l	97
47) n-amyl Acetate	10.88	43	26507	4.308	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	23579	4.707	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	25639	4.891	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	16386	5.087	ug/l	96
51) Ethyl methacrylate	9.16	69	20609	4.391	ug/l	88
52) 1,3-Dichloropropane	9.35	76	26666	5.082	ug/l	98
53) Dibromochloromethane	9.57	129	19633	4.993	ug/l	98
54) 1,2-Dibromoethane	9.65	107	17181	4.988	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	58405	26.748	ug/l	98
56) Bromoform	10.84	173	14237	4.641	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	106129	24.862	ug/l	100
59) 2-Hexanone	9.48	43	77978	23.963	ug/l	99
61) Tetrachloroethene	9.32	164	18327	5.340	ug/l	94
62) Toluene	8.76	91	65191	5.111	ug/l	99
64) Chlorobenzene	10.12	112	42734	5.022	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.20	131	17470	5.025	ug/l	98
66) Ethyl Benzene	10.24	91	68367	4.763	ug/l	100
67) m/p-Xylenes	10.34	106	53099	9.577	ug/l	99
68) o-Xylene	10.68	106	25507	4.841	ug/l	94
69) Styrene	10.70	104	40581	4.343	ug/l	99
70) Isopropylbenzene	11.00	105	67719	4.685	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	23826	5.256	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	19712m	4.427	ug/l	
73) Bromobenzene	11.24	156	21349	5.257	ug/l	93
74) n-propylbenzene	11.34	91	79098	4.724	ug/l	98
75) 2-Chlorotoluene	11.40	91	51018	4.998	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	58245	4.697	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	8069	4.753	ug/l	92
78) 4-Chlorotoluene	11.49	91	57929	4.787	ug/l	100
79) tert-butylbenzene	11.76	119	55201	4.588	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	58510	4.677	ug/l	97
81) sec-Butylbenzene	11.93	105	63941	4.610	ug/l	99
82) p-Isopropyltoluene	12.05	119	59074	4.504	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	34754	4.756	ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	35439	4.793	ug/l	97
85) n-Butylbenzene	12.37	91	49703	4.485	ug/l	99
86) Hexachloroethane	12.58	117	12407	4.890	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	35003	5.009	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.98	75	5889	5.362	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	20785	4.385	ug/l	98
90) Hexachlorobutadiene	13.76	225	9621	5.060	ug/l	98
91) Naphthalene	13.82	128	62056	4.271	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	21449	4.550	ug/l	100

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

