

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102620\
 Data File : VX019118.D
 Acq On : 26 Oct 2020 13:20
 Operator : JC/SP
 Sample : L4214-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2020

Manual Integrations
 APPROVED

MMDadoda
 10/27/2020 6:55:09 PM

Quant Time: Oct 27 05:30:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Oct 26 11:58:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	43600	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.82	114	249044	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	221518	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	89387	30.78	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.60%
60) 4-Bromofluorobenzene	11.12	95	100366	30.19	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.63%
63) Toluene-d8	8.70	98	295224	30.19	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	5280	2.410 ug/l	98
3) Chloromethane	1.31	50	5255	2.654 ug/l	99
4) Vinyl Chloride	1.39	62	6187	2.384 ug/l	100
5) Bromomethane	1.64	94	7276	3.647 ug/l	99
6) Chloroethane	1.72	64	4474	2.544 ug/l	93
7) Trichlorofluoromethane	1.92	101	11006	2.436 ug/l	95
8) Diethyl Ether	2.17	74	4353	2.570 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	5604	2.596 ug/l	97
10) 1,1-Dichloroethene	2.36	96	5279	2.405 ug/l	88
11) Methyl Iodide	2.50	142	4616	8.942 ug/l	92
12) Methyl Acetate	2.75	43	5204	2.395 ug/l	97
13) Acrolein	2.27	56	3795	18.969 ug/l	97
14) Acrylonitrile	3.12	53	12660	12.403 ug/l	98
15) Acetone	2.42	58	4340	14.842 ug/l	96
16) Carbon Disulfide	2.55	76	14511	2.379 ug/l	97
17) Allyl chloride	2.71	41	6862	2.503 ug/l	95
18) Methylene Chloride	2.83	84	8363	3.341 ug/l	99
19) trans-1,2-Dichloroethene	3.14	96	6388	2.492 ug/l	97
20) Diisopropyl ether	3.82	45	14036	2.527 ug/l #	84
21) 1,1-Dichloroethane	3.67	63	10274	2.520 ug/l	99
22) cis-1,2-Dichloroethene	4.56	96	7465	2.514 ug/l	97
23) tert-Butyl Alcohol	3.02	59	7127	14.402 ug/l #	100
24) Methyl tert-Butyl Ether	3.16	73	16986	2.448 ug/l	97
25) Chloroform	5.18	83	11109	2.459 ug/l	98
26) Cyclohexane	5.55	56	7766m	2.451 ug/l	
29) 1,1-Dichloropropene	5.77	75	8463	2.409 ug/l	99
30) 2-Butanone	4.64	43	17755	12.685 ug/l	96
31) 2,2-Dichloropropane	4.54	77	9585	2.384 ug/l	99
32) 1,1,1-Trichloroethane	5.46	97	10051	2.380 ug/l	96
33) Carbon Tetrachloride	5.74	117	8349m	2.278 ug/l	
34) Benzene	6.11	78	24548	2.375 ug/l	98
35) Methacrylonitrile	5.00	41	3695	2.439 ug/l	93
36) 1,2-Dichloroethane	6.16	62	8504	2.398 ug/l	97
37) Trichloroethene	7.19	130	7156	2.408 ug/l	99
38) Methylcyclohexane	7.43	83	9374	2.380 ug/l	96
39) 1,2-Dichloropropane	7.49	63	5979	2.492 ug/l	96
40) Dibromomethane	7.64	93	4419	2.373 ug/l	98

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

41) Bromodichloromethane	7.87	83	8446	2.294	ug/l	96
42) Vinyl Acetate	3.78	43	62459	11.469	ug/l	100
43) Ethyl Acetate	4.79	43	6306	2.148	ug/l #	81
44) Isopropyl Acetate	6.40	43	11865	2.413	ug/l	96
45) 1,4-Dioxane	7.74	88	2620m	50.696	ug/l	
46) Methyl methacrylate	7.74	41	5383	2.313	ug/l	92
47) n-amyl Acetate	10.88	43	8436	2.139	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	8964	2.175	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	9735	2.219	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	6395	2.371	ug/l	98
51) Ethyl methacrylate	9.16	69	8225	2.090	ug/l	98
52) 1,3-Dichloropropane	9.35	76	10704	2.436	ug/l	100
53) Dibromochloromethane	9.56	129	6613	2.202	ug/l	98
54) 1,2-Dibromoethane	9.65	107	6786	2.315	ug/l	98
55) 2-Chloroethyl vinyl ether	8.29	63	22561	10.726	ug/l	97
56) Bromoform	10.84	173	4330	2.063	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	33759	12.085	ug/l	98
59) 2-Hexanone	9.47	43	25180	12.096	ug/l	99
61) Tetrachloroethene	9.32	164	7166	2.727	ug/l	91
62) Toluene	8.76	91	27734	2.382	ug/l	98
64) Chlorobenzene	10.12	112	17981	2.485	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.20	131	6122	2.326	ug/l	98
66) Ethyl Benzene	10.23	91	30214	2.367	ug/l	97
67) m/p-Xylenes	10.34	106	22696	4.663	ug/l	99
68) o-Xylene	10.68	106	11097	2.390	ug/l	98
69) Styrene	10.70	104	17306	2.212	ug/l	98
70) Isopropylbenzene	11.00	105	29358	2.352	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.25	83	8841	2.453	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	8300m	2.561	ug/l	
73) Bromobenzene	11.24	156	7186	2.355	ug/l	98
74) n-propylbenzene	11.34	91	32374	2.290	ug/l	98
75) 2-Chlorotoluene	11.40	91	19336	2.418	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	23235	2.294	ug/l	99
77) t-1,4-Dichloro-2-butene	11.05	75	2628	2.042	ug/l	76
78) 4-Chlorotoluene	11.49	91	22450	2.390	ug/l	100
79) tert-butylbenzene	11.76	119	23606	2.367	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	23075	2.292	ug/l	99
81) sec-Butylbenzene	11.93	105	27640	2.342	ug/l	100
82) p-Isopropyltoluene	12.05	119	24062	2.212	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	13118	2.406	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	13122	2.370	ug/l	98
85) n-Butylbenzene	12.37	91	21760	2.234	ug/l	98
86) Hexachloroethane	12.58	117	3308	1.980	ug/l	88
87) 1,2-Dichlorobenzene	12.38	146	12734	2.439	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	12.98	75	1981	2.429	ug/l #	83
89) 1,2,4-Trichlorobenzene	13.63	180	8100	2.156	ug/l	98
90) Hexachlorobutadiene	13.77	225	3796	2.383	ug/l	98
91) Naphthalene	13.82	128	24694	2.008	ug/l	98
92) 1,2,3-Trichlorobenzene	14.00	180	8288	2.294	ug/l	98

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

