

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007929.D
 Acq On : 08 Mar 2019 14:16
 Operator : JC/SP
 Sample : K1560-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:01:51 PM

Quant Time: Mar 09 05:09:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	45056	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	236597	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	205012	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	88404	29.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.50%
60) 4-Bromofluorobenzene	11.13	95	96823	29.59	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.63%
63) Toluene-d8	8.71	98	288754	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	23100	8.636 ug/l	99
3) Chloromethane	1.33	50	29127	9.793 ug/l	100
4) Vinyl Chloride	1.41	62	29770	10.104 ug/l	100
5) Bromomethane	1.64	94	14511	9.879 ug/l	99
6) Chloroethane	1.71	64	18957	11.017 ug/l	96
7) Trichlorofluoromethane	1.93	101	38975	10.623 ug/l	98
8) Diethyl Ether	2.19	74	16996	8.995 ug/l	88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	24203	8.775 ug/l	99
10) 1,1-Dichloroethene	2.37	96	22928	8.770 ug/l	86
11) Methyl Iodide	2.51	142	32416	7.920 ug/l	92
12) Methyl Acetate	2.78	43	44274	10.707 ug/l	95
13) Acrolein	2.30	56	24277	50.046 ug/l	100
14) Acrylonitrile	3.15	53	80351	45.778 ug/l	100
15) Acetone	2.45	58	23841	37.621 ug/l	98
16) Carbon Disulfide	2.57	76	69196	8.436 ug/l	99
17) Allyl chloride	2.73	41	46843	8.739 ug/l	88
18) Methylene Chloride	2.85	84	26527	8.906 ug/l	93
19) trans-1,2-Dichloroethene	3.17	96	25225	9.119 ug/l	98
20) Diisopropyl ether	3.87	45	90133	9.192 ug/l	95
21) 1,1-Dichloroethane	3.70	63	47871	8.976 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	28706	8.996 ug/l	89
23) tert-Butyl Alcohol	3.07	59	31070	43.877 ug/l	100
24) Methyl tert-Butyl Ether	3.21	73	81235	9.037 ug/l	95
25) Chloroform	5.21	83	46231	9.184 ug/l	97
26) Cyclohexane	5.57	56	43209	8.768 ug/l	# 90
29) 1,1-Dichloropropene	5.80	75	34529	9.204 ug/l	96
30) 2-Butanone	4.70	43	109184	43.152 ug/l	98
31) 2,2-Dichloropropane	4.59	77	29546	8.527 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	36986	9.118 ug/l	98
33) Carbon Tetrachloride	5.78	117	32114	8.925 ug/l	97
34) Benzene	6.14	78	108223	9.414 ug/l	99
35) Methacrylonitrile	5.06	41	23222	9.418 ug/l	89
36) 1,2-Dichloroethane	6.20	62	35840	9.582 ug/l	98
37) Trichloroethene	7.21	130	28927	9.287 ug/l	91
38) Methylcyclohexane	7.46	83	41585	8.719 ug/l	94
39) 1,2-Dichloropropane	7.51	63	28871	9.629 ug/l	97
40) Dibromomethane	7.66	93	17786	9.352 ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	32937	9.163	ug/l	99
42) Vinyl Acetate	3.82	43	362416	44.249	ug/l	97
43) Ethyl Acetate	4.85	43	40897	9.280	ug/l	97
44) Isopropyl Acetate	6.46	43	61973	9.216	ug/l	100
45) 1,4-Dioxane	7.75	88	13187	187.435	ug/l	90
46) Methyl methacrylate	7.77	41	32003	9.049	ug/l	90
47) n-amyl Acetate	10.90	43	49263	8.502	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	31666	8.134	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	36584	8.299	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	27193	9.381	ug/l	97
51) Ethyl methacrylate	9.18	69	38701	8.803	ug/l	94
52) 1,3-Dichloropropane	9.37	76	44707	9.334	ug/l	99
53) Dibromochloromethane	9.58	129	25943	8.700	ug/l	100
54) 1,2-Dibromoethane	9.67	107	27827	9.182	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	108403	53.016	ug/l	98
56) Bromoform	10.85	173	19384	8.150	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	192376	45.577	ug/l	99
59) 2-Hexanone	9.49	43	145396	43.638	ug/l	99
61) Tetrachloroethene	9.34	164	29151	9.748	ug/l	94
62) Toluene	8.79	91	113141	9.451	ug/l	99
64) Chlorobenzene	10.14	112	71537	9.376	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	25316	9.267	ug/l	97
66) Ethyl Benzene	10.25	91	116649	9.072	ug/l	98
67) m/p-Xylenes	10.36	106	90924	18.441	ug/l	97
68) o-Xylene	10.69	106	43880	9.165	ug/l	98
69) Styrene	10.71	104	71346	9.044	ug/l	99
70) Isopropylbenzene	11.02	105	119590	9.348	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	39571	9.365	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	36952m	9.278	ug/l	
73) Bromobenzene	11.26	156	31894	9.377	ug/l	96
74) n-propylbenzene	11.36	91	131941	9.143	ug/l	98
75) 2-Chlorotoluene	11.42	91	81816	9.459	ug/l	94
76) 1,3,5-Trimethylbenzene	11.51	105	97678	9.213	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	9094	7.390	ug/l	91
78) 4-Chlorotoluene	11.51	91	89479	9.150	ug/l	97
79) tert-butylbenzene	12.06	119	101954	8.961	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	99126	9.212	ug/l	98
81) sec-Butylbenzene	11.94	105	115954	9.099	ug/l	99
82) p-Isopropyltoluene	12.06	119	101954	8.961	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	55339	9.139	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	55188	9.109	ug/l	98
85) n-Butylbenzene	12.38	91	81478	8.373	ug/l	99
86) Hexachloroethane	12.60	117	15206	8.202	ug/l	86
87) 1,2-Dichlorobenzene	12.39	146	55680	9.304	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	7430	8.609	ug/l	100
89) 1,2,4-Trichlorobenzene	13.65	180	36794	8.555	ug/l	100
90) Hexachlorobutadiene	13.78	225	20447	8.620	ug/l	98
91) Naphthalene	13.83	128	107983	8.759	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	37835	8.850	ug/l	99

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

