

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007931.D
 Acq On : 08 Mar 2019 15:09
 Operator : JC/SP
 Sample : VX0308WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0308WBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:02:02 PM

Quant Time: Mar 11 09:43:53 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	5.03	128	45169	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	243184	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	214814	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	89809	30.25	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.83%
60) 4-Bromofluorobenzene	11.13	95	104002	30.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.10%
63) Toluene-d8	8.71	98	296517	30.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.53%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	49449	18.441	ug/l 98
3) Chloromethane	1.33	50	54077	18.135	ug/l 97
4) Vinyl Chloride	1.41	62	53829	18.225	ug/l 99
5) Bromomethane	1.64	94	30124	20.457	ug/l 97
6) Chloroethane	1.73	64	31051	18.001	ug/l 97
7) Trichlorofluoromethane	1.93	101	65168	17.718	ug/l 98
8) Diethyl Ether	2.19	74	35958	18.984	ug/l 87
9) 1,1,2-Trichlorotrifluoroet	2.39	101	50583	18.292	ug/l 98
10) 1,1-Dichloroethene	2.38	96	50207	19.156	ug/l 98
11) Methyl Iodide	2.51	142	75815	18.478	ug/l 94
12) Methyl Acetate	2.78	43	76317	18.411	ug/l 94
13) Acrolein	2.30	56	47483	97.638	ug/l 97
14) Acrylonitrile	3.15	53	170529	96.911	ug/l 100
15) Acetone	2.45	58	50522	79.525	ug/l 97
16) Carbon Disulfide	2.57	76	156328	19.010	ug/l 100
17) Allyl chloride	2.73	41	100143	18.636	ug/l 90
18) Methylene Chloride	2.86	84	55959	18.741	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	52136	18.800	ug/l 94
20) Diisopropyl ether	3.87	45	188910	19.217	ug/l 93
21) 1,1-Dichloroethane	3.70	63	100069	18.717	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	60400	18.881	ug/l 92
23) tert-Butyl Alcohol	3.07	59	71267	100.391	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	171068	18.983	ug/l 96
25) Chloroform	5.21	83	95392	18.903	ug/l 99
26) Cyclohexane	5.58	56	94020	19.031	ug/l # 89
29) 1,1-Dichloropropene	5.80	75	72843	18.891	ug/l 97
30) 2-Butanone	4.70	43	243607	93.672	ug/l 97
31) 2,2-Dichloropropane	4.59	77	62719	17.610	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	78792	18.897	ug/l 99
33) Carbon Tetrachloride	5.78	117	69181	18.706	ug/l 96
34) Benzene	6.15	78	225223	19.060	ug/l 98
35) Methacrylonitrile	5.06	41	48781	19.249	ug/l 95
36) 1,2-Dichloroethane	6.20	62	73639	19.155	ug/l 99
37) Trichloroethene	7.21	130	60864	19.011	ug/l 95
38) Methylcyclohexane	7.46	83	89945	18.347	ug/l 94
39) 1,2-Dichloropropane	7.52	63	58884	19.108	ug/l 99
40) Dibromomethane	7.66	93	37311	19.087	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	68891	18.645	ug/l	99
42) Vinyl Acetate	3.82	43	826465	98.174	ug/l	97
43) Ethyl Acetate	4.85	43	88508m	19.539	ug/l	
44) Isopropyl Acetate	6.46	43	131905	19.084	ug/l	99
45) 1,4-Dioxane	7.75	88	29757	411.499	ug/l	93
46) Methyl methacrylate	7.77	41	71014	19.536	ug/l	92
47) n-amyl Acetate	10.90	43	112622	18.911	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	71521	17.873	ug/l	98
49) cis-1,3-Dichloropropene	8.44	75	82929	18.302	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	56594	18.994	ug/l	97
51) Ethyl methacrylate	9.18	69	86966	19.246	ug/l	94
52) 1,3-Dichloropropane	9.37	76	95575	19.413	ug/l	98
53) Dibromochloromethane	9.58	129	56791	18.530	ug/l	100
54) 1,2-Dibromoethane	9.67	107	60335	19.369	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	205765	97.907	ug/l	98
56) Bromoform	10.86	173	44802	18.327	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	447288	101.134	ug/l	99
59) 2-Hexanone	9.49	43	342373	98.068	ug/l	100
61) Tetrachloroethene	9.34	164	60710	19.374	ug/l	97
62) Toluene	8.79	91	238651	19.026	ug/l	99
64) Chlorobenzene	10.14	112	151799	18.988	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	55215	19.290	ug/l	99
66) Ethyl Benzene	10.25	91	252586	18.747	ug/l	98
67) m/p-Xylenes	10.36	106	195600	37.861	ug/l	98
68) o-Xylene	10.69	106	95382	19.013	ug/l	96
69) Styrene	10.71	104	155620	18.827	ug/l	99
70) Isopropylbenzene	11.02	105	254920	19.017	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	85744	19.368	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	83334m	19.969	ug/l	
73) Bromobenzene	11.26	156	68525	19.228	ug/l	97
74) n-propylbenzene	11.36	91	283434	18.745	ug/l	99
75) 2-Chlorotoluene	11.42	91	172338	19.015	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	209742	18.880	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	22448	17.410	ug/l	96
78) 4-Chlorotoluene	11.51	91	193031	18.838	ug/l	97
79) tert-butylbenzene	12.06	119	222687	18.679	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	212656	18.860	ug/l	97
81) sec-Butylbenzene	11.94	105	247369	18.525	ug/l	100
82) p-Isopropyltoluene	12.06	119	222687	18.679	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	118541	18.683	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	117001	18.430	ug/l	98
85) n-Butylbenzene	12.38	91	182193	17.870	ug/l	99
86) Hexachloroethane	12.60	117	34910	17.972	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	119202	19.010	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17250	19.075	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	82152	18.230	ug/l	99
90) Hexachlorobutadiene	13.78	225	44522	17.913	ug/l	99
91) Naphthalene	13.83	128	243454	18.846	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	82769	18.478	ug/l	99

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

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