

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021319\
 Data File : VX007509.D
 Acq On : 13 Feb 2019 03:28
 Operator : JC/SP
 Sample : VX0213WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0213WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/13/2019 11:53:17 AM

Quant Time: Feb 13 08:11:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	79537	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	407686	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	365124	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	152060	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%
60) 4-Bromofluorobenzene	11.13	95	168288	30.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.10%
63) Toluene-d8	8.71	98	492518	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	73558	18.263	ug/l 99
3) Chloromethane	1.33	50	83213	18.799	ug/l 96
4) Vinyl Chloride	1.41	62	91958	18.469	ug/l 98
5) Bromomethane	1.64	94	80207	18.039	ug/l 99
6) Chloroethane	1.73	64	59351	17.536	ug/l 91
7) Trichlorofluoromethane	1.93	101	144451	18.508	ug/l 98
8) Diethyl Ether	2.19	74	57742	18.520	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	78892	17.915	ug/l 100
10) 1,1-Dichloroethene	2.38	96	81530	18.658	ug/l 94
11) Methyl Iodide	2.51	142	105942	16.869	ug/l 97
12) Methyl Acetate	2.78	43	105084	17.438	ug/l 100
13) Acrolein	2.30	56	93982	89.407	ug/l 96
14) Acrylonitrile	3.15	53	248884	89.637	ug/l 97
15) Acetone	2.45	58	71498	94.884	ug/l 93
16) Carbon Disulfide	2.57	76	210439	18.161	ug/l 100
17) Allyl chloride	2.73	41	133628	17.849	ug/l 97
18) Methylene Chloride	2.86	84	91147	18.549	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	85690	18.335	ug/l 96
20) Diisopropyl ether	3.87	45	263120	18.597	ug/l 95
21) 1,1-Dichloroethane	3.70	63	148961	18.780	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	98309	18.902	ug/l 98
23) tert-Butyl Alcohol	3.07	59	111311	95.380	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	275155	18.145	ug/l 99
25) Chloroform	5.21	83	156393	18.668	ug/l 99
26) Cyclohexane	5.57	56	121718	18.300	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	109149	19.194	ug/l 99
30) 2-Butanone	4.70	43	330237	98.127	ug/l 98
31) 2,2-Dichloropropane	4.59	77	79046	17.109	ug/l 98
32) 1,1,1-Trichloroethane	5.50	97	130069	19.136	ug/l 99
33) Carbon Tetrachloride	5.78	117	113152	18.831	ug/l 95
34) Benzene	6.14	78	349072	19.471	ug/l 99
35) Methacrylonitrile	5.06	41	68120	19.468	ug/l 97
36) 1,2-Dichloroethane	6.20	62	118568	19.434	ug/l 98
37) Trichloroethene	7.21	130	98643	19.138	ug/l 94
38) Methylcyclohexane	7.46	83	117855	17.903	ug/l 99
39) 1,2-Dichloropropane	7.52	63	87095	19.532	ug/l 100
40) Dibromomethane	7.66	93	62174	19.306	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	105314	18.427	ug/l	99
42) Vinyl Acetate	3.82	43	1146253	97.307	ug/l	100
43) Ethyl Acetate	4.85	43	128781m	19.982	ug/l	
44) Isopropyl Acetate	6.46	43	188104	18.904	ug/l	98
45) 1,4-Dioxane	7.75	88	46020	391.873	ug/l	97
46) Methyl methacrylate	7.77	41	96240	19.100	ug/l	99
47) n-amyl Acetate	10.90	43	164547	18.761	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	106264	18.011	ug/l	97
49) cis-1,3-Dichloropropene	8.44	75	121855	18.547	ug/l	94
50) 1,1,2-Trichloroethane	9.21	97	91290	19.441	ug/l	97
51) Ethyl methacrylate	9.18	69	127474	18.725	ug/l	97
52) 1,3-Dichloropropane	9.37	76	146313	19.317	ug/l	100
53) Dibromochloromethane	9.58	129	90201	18.468	ug/l	99
54) 1,2-Dibromoethane	9.67	107	99668	19.384	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	339110	97.978	ug/l	100
56) Bromoform	10.86	173	65835	17.871	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	637625	97.088	ug/l	99
59) 2-Hexanone	9.49	43	484880	97.201	ug/l	100
61) Tetrachloroethene	9.34	164	100674	19.423	ug/l	99
62) Toluene	8.78	91	378174	19.018	ug/l	100
64) Chlorobenzene	10.14	112	248180	19.205	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	88641	18.938	ug/l	99
66) Ethyl Benzene	10.25	91	399514	18.933	ug/l	100
67) m/p-Xylenes	10.36	106	312629	37.773	ug/l	99
68) o-Xylene	10.69	106	154298	19.115	ug/l	97
69) Styrene	10.71	104	246273	18.906	ug/l	100
70) Isopropylbenzene	11.02	105	403397	18.942	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	137041	19.467	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	125777m	19.541	ug/l	
73) Bromobenzene	11.26	156	109955	18.911	ug/l	100
74) n-propylbenzene	11.36	91	436790	18.472	ug/l	100
75) 2-Chlorotoluene	11.42	91	268184	18.969	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	325654	18.733	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	30986	16.677	ug/l	97
78) 4-Chlorotoluene	11.51	91	304291	18.856	ug/l	98
79) tert-butylbenzene	12.06	119	339393	18.386	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	332361	18.834	ug/l	99
81) sec-Butylbenzene	11.94	105	378097	18.213	ug/l	99
82) p-Isopropyltoluene	12.06	119	339393	18.386	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	191209	18.707	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	187898	18.422	ug/l	97
85) n-Butylbenzene	12.39	91	266450	17.395	ug/l	100
86) Hexachloroethane	12.60	117	54307	17.720	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	194196	18.929	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	27449	18.684	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	120507	17.885	ug/l	98
90) Hexachlorobutadiene	13.78	225	55421	17.604	ug/l	99
91) Naphthalene	13.83	128	402323	18.722	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	126516	18.471	ug/l	99

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

