

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050719\
 Data File : VX009374.D
 Acq On : 07 May 2019 13:11
 Operator : JC/SP
 Sample : VX0507WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0507WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 10:10:36 AM

Quant Time: May 08 02:24:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	31161	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	174629	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	155007	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74149	28.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.60%
60) 4-Bromofluorobenzene	11.13	95	76553	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	8.71	98	220143	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	30111	18.185	ug/l 100
3) Chloromethane	1.32	50	41510	18.651	ug/l 99
4) Vinyl Chloride	1.40	62	41004	18.468	ug/l 99
5) Bromomethane	1.64	94	24203	17.197	ug/l 99
6) Chloroethane	1.72	64	27941	19.189	ug/l 100
7) Trichlorofluoromethane	1.93	101	53521	19.521	ug/l 97
8) Diethyl Ether	2.19	74	24703	19.404	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	32835	19.344	ug/l 99
10) 1,1-Dichloroethene	2.37	96	32703	19.187	ug/l 95
11) Methyl Iodide	2.51	142	31259	16.871	ug/l 100
12) Methyl Acetate	2.78	43	63340	19.730	ug/l 99
13) Acrolein	2.29	56	35193	79.927	ug/l 100
14) Acrylonitrile	3.14	53	140140	100.587	ug/l 99
15) Acetone	2.44	58	38832	97.077	ug/l 97
16) Carbon Disulfide	2.57	76	82167	17.818	ug/l 99
17) Allyl chloride	2.73	41	76770	18.762	ug/l 99
18) Methylene Chloride	2.85	84	41232	20.017	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	35175	19.356	ug/l 97
20) Diisopropyl ether	3.85	45	160794	19.955	ug/l 96
21) 1,1-Dichloroethane	3.70	63	76293	19.564	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	42711	19.512	ug/l 99
23) tert-Butyl Alcohol	3.04	59	56514	95.930	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	131613	19.732	ug/l 100
25) Chloroform	5.21	83	71394	20.062	ug/l 99
26) Cyclohexane	5.58	56	68981	18.980	ug/l # 99
29) 1,1-Dichloropropene	5.80	75	50841	19.841	ug/l 99
30) 2-Butanone	4.67	43	208382	103.842	ug/l 99
31) 2,2-Dichloropropane	4.58	77	55006	19.472	ug/l 99
32) 1,1,1-Trichloroethane	5.49	97	57573	20.726	ug/l 97
33) Carbon Tetrachloride	5.79	117	47145	20.285	ug/l 97
34) Benzene	6.14	78	163145	20.652	ug/l 97
35) Methacrylonitrile	5.04	41	44177	21.042	ug/l 97
36) 1,2-Dichloroethane	6.20	62	60273	21.027	ug/l 99
37) Trichloroethene	7.21	130	38515	20.253	ug/l 90
38) Methylcyclohexane	7.46	83	61855	19.539	ug/l 100
39) 1,2-Dichloropropane	7.51	63	47264	21.010	ug/l 94
40) Dibromomethane	7.66	93	26771	20.967	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	54254	20.802	ug/l	94
42) Vinyl Acetate	3.81	43	693301	104.679	ug/l	100
43) Ethyl Acetate	4.83	43	76566	21.115	ug/l	97
44) Isopropyl Acetate	6.45	43	121009	20.600	ug/l	99
45) 1,4-Dioxane	7.74	88	23335	404.607	ug/l	96
46) Methyl methacrylate	7.77	41	60958	20.791	ug/l	98
47) n-amyl Acetate	10.90	43	107025	20.225	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	60072	19.741	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	66689	19.963	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	41219	21.071	ug/l	97
51) Ethyl methacrylate	9.18	69	73020	20.199	ug/l	98
52) 1,3-Dichloropropane	9.37	76	73565	21.190	ug/l	99
53) Dibromochloromethane	9.58	129	40169	20.619	ug/l	100
54) 1,2-Dibromoethane	9.67	107	41568	20.719	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	179166	93.011	ug/l	99
56) Bromoform	10.85	173	29626	19.810	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	404910	106.235	ug/l	99
59) 2-Hexanone	9.49	43	311463	104.186	ug/l	99
61) Tetrachloroethene	9.34	164	34567	20.229	ug/l	96
62) Toluene	8.78	91	171311	20.683	ug/l	99
64) Chlorobenzene	10.14	112	103127	20.688	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	37930	20.781	ug/l	99
66) Ethyl Benzene	10.25	91	186661	20.229	ug/l	98
67) m/p-Xylenes	10.36	106	138143	41.005	ug/l	99
68) o-Xylene	10.70	106	67487	20.373	ug/l	99
69) Styrene	10.71	104	119578	20.563	ug/l	100
70) Isopropylbenzene	11.02	105	182249	20.457	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	68704	21.057	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	59530m	21.173	ug/l	
73) Bromobenzene	11.26	156	45096	20.487	ug/l	100
74) n-propylbenzene	11.36	91	208109	20.158	ug/l	100
75) 2-Chlorotoluene	11.42	91	127011	20.511	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	153182	20.298	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	22017	19.413	ug/l	99
78) 4-Chlorotoluene	11.51	91	139962	19.901	ug/l	99
79) tert-butylbenzene	11.77	119	147346	20.197	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	152170	20.119	ug/l	99
81) sec-Butylbenzene	11.94	105	174425	20.124	ug/l	100
82) p-Isopropyltoluene	12.06	119	158324	20.081	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	78661	20.011	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	77804	19.866	ug/l	99
85) n-Butylbenzene	12.38	91	140459	19.469	ug/l	100
86) Hexachloroethane	12.59	117	26923	20.067	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	81143	20.506	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	15778	20.810	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	55656	19.734	ug/l	99
90) Hexachlorobutadiene	13.78	225	28603	20.303	ug/l	98
91) Naphthalene	13.83	128	192955	20.896	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	59600	20.788	ug/l	99

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

