

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007439.D
 Acq On : 08 Feb 2019 13:56
 Operator : JC/SP
 Sample : VX0208WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0208WBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:37:27 AM

Quant Time: Feb 08 23:33:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	79597	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	417508	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	381334	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	152590	29.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.33%
60) 4-Bromofluorobenzene	11.13	95	179109	30.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.43%
63) Toluene-d8	8.71	98	514409	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	61055	17.088	ug/l 99
3) Chloromethane	1.33	50	70922	17.755	ug/l 96
4) Vinyl Chloride	1.41	62	81385	17.955	ug/l 99
5) Bromomethane	1.64	94	86583	18.326	ug/l 100
6) Chloroethane	1.73	64	56168	18.387	ug/l 95
7) Trichlorofluoromethane	1.93	101	137721	17.996	ug/l 99
8) Diethyl Ether	2.19	74	53548	18.511	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.39	101	84474	18.689	ug/l 98
10) 1,1-Dichloroethene	2.37	96	73922	17.994	ug/l 97
11) Methyl Iodide	2.51	142	117462	17.623	ug/l 94
12) Methyl Acetate	2.78	43	138410	19.783	ug/l 95
13) Acrolein	2.30	56	36244	71.556	ug/l 97
14) Acrylonitrile	3.15	53	250810	95.752	ug/l 100
15) Acetone	2.45	58	70861	95.176	ug/l 91
16) Carbon Disulfide	2.57	76	163978	16.554	ug/l 99
17) Allyl chloride	2.73	41	129794	18.171	ug/l 99
18) Methylene Chloride	2.86	84	89228	18.845	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	81613	18.346	ug/l 97
20) Diisopropyl ether	3.87	45	251655	18.924	ug/l 91
21) 1,1-Dichloroethane	3.70	63	139405	18.355	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	92275	18.862	ug/l 98
23) tert-Butyl Alcohol	3.07	59	105511	95.851	ug/l # 100
24) Methyl tert-Butyl Ether	3.21	73	273920	19.036	ug/l 98
25) Chloroform	5.22	83	150451	19.166	ug/l 97
26) Cyclohexane	5.58	56	114631	17.920	ug/l # 100
29) 1,1-Dichloropropene	5.80	75	102939	18.914	ug/l 97
30) 2-Butanone	4.70	43	321713	98.925	ug/l # 98
31) 2,2-Dichloropropane	4.59	77	105261	19.143	ug/l # 79
32) 1,1,1-Trichloroethane	5.50	97	124642	19.378	ug/l 99
33) Carbon Tetrachloride	5.78	117	105210	18.607	ug/l 96
34) Benzene	6.15	78	326705	19.461	ug/l 99
35) Methacrylonitrile	5.06	41	65153	19.627	ug/l 96
36) 1,2-Dichloroethane	6.20	62	113651	19.618	ug/l 100
37) Trichloroethene	7.21	130	96916	19.579	ug/l 98
38) Methylcyclohexane	7.46	83	125105	18.137	ug/l 99
39) 1,2-Dichloropropane	7.52	63	83532	19.840	ug/l 100
40) Dibromomethane	7.66	93	58963	19.442	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	100642	18.909	ug/l	96
42) Vinyl Acetate	3.82	43	1032920	93.678	ug/l	99
43) Ethyl Acetate	4.85	43	113976	18.783	ug/l	100
44) Isopropyl Acetate	6.46	43	184065	19.421	ug/l	99
45) 1,4-Dioxane	7.75	88	44964	391.508	ug/l	98
46) Methyl methacrylate	7.77	41	91268	18.834	ug/l	98
47) n-amyl Acetate	10.90	43	159231	19.108	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	106171	18.289	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	120663	18.711	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	91352	20.070	ug/l	95
51) Ethyl methacrylate	9.18	69	128030	19.685	ug/l	93
52) 1,3-Dichloropropane	9.37	76	143959	19.752	ug/l	98
53) Dibromochloromethane	9.58	129	88054	19.140	ug/l	100
54) 1,2-Dibromoethane	9.67	107	96421	19.677	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	351570	98.261	ug/l	99
56) Bromoform	10.85	173	63613	18.210	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	634129	99.446	ug/l	99
59) 2-Hexanone	9.49	43	486905	98.674	ug/l	99
61) Tetrachloroethene	9.34	164	100826	18.969	ug/l	98
62) Toluene	8.79	91	374231	19.497	ug/l	100
64) Chlorobenzene	10.14	112	246274	19.449	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	86223	19.224	ug/l	97
66) Ethyl Benzene	10.25	91	399932	19.231	ug/l	98
67) m/p-Xylenes	10.36	106	315603	38.428	ug/l	98
68) o-Xylene	10.69	106	156333	19.432	ug/l	96
69) Styrene	10.71	104	247785	19.091	ug/l	98
70) Isopropylbenzene	11.02	105	416716	19.565	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	136265	19.982	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	127568m	19.897	ug/l	
73) Bromobenzene	11.26	156	116405	19.746	ug/l	99
74) n-propylbenzene	11.36	91	459984	19.190	ug/l	99
75) 2-Chlorotoluene	11.42	91	271608	19.107	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	335404	18.868	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	32339	17.361	ug/l	97
78) 4-Chlorotoluene	11.51	91	308642	18.648	ug/l	97
79) tert-butylbenzene	12.06	119	362287	18.836	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	343952	19.109	ug/l	99
81) sec-Butylbenzene	11.94	105	411146	19.181	ug/l	99
82) p-Isopropyltoluene	12.06	119	362287	18.836	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	200856	19.167	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	197993	18.884	ug/l	99
85) n-Butylbenzene	12.38	91	295862	17.924	ug/l	99
86) Hexachloroethane	12.60	117	54435	18.305	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	199887	19.156	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	26218	18.863	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	133640	18.656	ug/l	97
90) Hexachlorobutadiene	13.78	225	65098	19.054	ug/l	100
91) Naphthalene	13.83	128	411446	18.975	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	133846	18.844	ug/l	100

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

