

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050119\
 Data File : VX009252.D
 Acq On : 01 May 2019 11:53
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/2/2019 10:53:12 AM

Quant Time: May 02 06:42:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:30:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32338	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	186332	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	167425	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	78353	29.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.13%
60) 4-Bromofluorobenzene	11.13	95	84632	29.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.20%
63) Toluene-d8	8.71	98	236443	29.22	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	84701	49.685	ug/l 99
3) Chloromethane	1.32	50	111072	48.998	ug/l 100
4) Vinyl Chloride	1.41	62	111286	48.683	ug/l 99
5) Bromomethane	1.64	94	66114	50.991	ug/l 97
6) Chloroethane	1.71	64	72650	47.370	ug/l 99
7) Trichlorofluoromethane	1.92	101	137648	49.493	ug/l 100
8) Diethyl Ether	2.18	74	63227	48.921	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.38	101	85545	49.135	ug/l 100
10) 1,1-Dichloroethene	2.37	96	85976	49.167	ug/l 98
11) Methyl Iodide	2.51	142	101932	57.799	ug/l 99
12) Methyl Acetate	2.78	43	155513	48.679	ug/l 98
13) Acrolein	2.29	56	103447	247.744	ug/l 99
14) Acrylonitrile	3.14	53	350785	248.704	ug/l 100
15) Acetone	2.45	58	100696	240.316	ug/l 98
16) Carbon Disulfide	2.57	76	234550	50.010	ug/l 100
17) Allyl chloride	2.73	41	206918	50.190	ug/l 98
18) Methylene Chloride	2.85	84	103420	49.635	ug/l 97
19) trans-1,2-Dichloroethene	3.17	96	92828	50.347	ug/l 99
20) Diisopropyl ether	3.85	45	404008	49.273	ug/l 98
21) 1,1-Dichloroethane	3.70	63	195130	49.731	ug/l 98
22) cis-1,2-Dichloroethene	4.59	96	109717	49.381	ug/l 99
23) tert-Butyl Alcohol	3.05	59	147280	256.182	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	336284	50.464	ug/l 99
25) Chloroform	5.21	83	178732	49.284	ug/l 99
26) Cyclohexane	5.58	56	184166	49.260	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	137865	50.941	ug/l 99
30) 2-Butanone	4.67	43	535050	252.590	ug/l 100
31) 2,2-Dichloropropane	4.58	77	151255	51.203	ug/l 100
32) 1,1,1-Trichloroethane	5.49	97	149360	52.543	ug/l 97
33) Carbon Tetrachloride	5.78	117	123882	51.263	ug/l 99
34) Benzene	6.14	78	422422	50.342	ug/l 99
35) Methacrylonitrile	5.04	41	113221	50.999	ug/l 95
36) 1,2-Dichloroethane	6.19	62	151429	50.095	ug/l 99
37) Trichloroethene	7.21	130	100468	51.114	ug/l 93
38) Methylcyclohexane	7.46	83	170270	51.468	ug/l 99
39) 1,2-Dichloropropane	7.51	63	119422	50.693	ug/l 98
40) Dibromomethane	7.66	93	67988	50.668	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	139672	51.981	ug/l	97
42) Vinyl Acetate	3.81	43	1788764	254.775	ug/l	100
43) Ethyl Acetate	4.83	43	193476	49.370	ug/l	99
44) Isopropyl Acetate	6.45	43	310155	51.437	ug/l	100
45) 1,4-Dioxane	7.74	88	61845	1031.710	ug/l	100
46) Methyl methacrylate	7.77	41	155829	51.122	ug/l	97
47) n-amyl Acetate	10.90	43	285705	53.065	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	165106	53.735	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	179478	52.468	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	103262	50.129	ug/l	97
51) Ethyl methacrylate	9.18	69	190917	51.033	ug/l	99
52) 1,3-Dichloropropane	9.37	76	183004	50.012	ug/l	99
53) Dibromochloromethane	9.58	129	104942	52.986	ug/l	100
54) 1,2-Dibromoethane	9.67	107	107054	51.153	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	519708	246.601	ug/l	100
56) Bromoform	10.85	173	78986	53.664	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	1011123	246.981	ug/l	100
59) 2-Hexanone	9.49	43	803231	248.767	ug/l	99
61) Tetrachloroethene	9.34	164	92822	50.346	ug/l	97
62) Toluene	8.79	91	442673	49.221	ug/l	99
64) Chlorobenzene	10.13	112	263444	49.653	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	96874	50.452	ug/l	99
66) Ethyl Benzene	10.25	91	494319	49.821	ug/l	98
67) m/p-Xylenes	10.36	106	363145	100.508	ug/l	99
68) o-Xylene	10.69	106	176091	50.131	ug/l	100
69) Styrene	10.71	104	311833	50.529	ug/l	100
70) Isopropylbenzene	11.02	105	477570	49.888	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	176498	51.289	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	152431m	50.224	ug/l	
73) Bromobenzene	11.26	156	116053	49.277	ug/l	99
74) n-propylbenzene	11.36	91	555606	50.547	ug/l	100
75) 2-Chlorotoluene	11.42	91	328364	49.610	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	402775	50.103	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	60594	54.102	ug/l	98
78) 4-Chlorotoluene	11.51	91	372689	50.303	ug/l	99
79) tert-butylbenzene	11.77	119	387704	49.928	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	405448	50.505	ug/l	99
81) sec-Butylbenzene	11.94	105	465736	50.635	ug/l	100
82) p-Isopropyltoluene	12.06	119	425227	50.949	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	207126	50.728	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	206869	51.437	ug/l	100
85) n-Butylbenzene	12.38	91	389640	52.600	ug/l	100
86) Hexachloroethane	12.59	117	70488	49.749	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	209792	50.277	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	42392	53.365	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	154808	54.181	ug/l	100
90) Hexachlorobutadiene	13.78	225	78178	53.973	ug/l	97
91) Naphthalene	13.83	128	509771	52.085	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	155912	51.870	ug/l	99

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

