

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008161.D
 Acq On : 18 Mar 2019 11:42
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:37:00 AM

Quant Time: Mar 18 12:05:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 11:50:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	56148	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	317056	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	273802	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	137429	28.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.37%
60) 4-Bromofluorobenzene	11.13	95	137157	29.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.30%
63) Toluene-d8	8.71	98	400387	29.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	232713	94.928	ug/l 97
3) Chloromethane	1.32	50	274924	90.673	ug/l 96
4) Vinyl Chloride	1.41	62	285869	91.008	ug/l 98
5) Bromomethane	1.64	94	256156	123.351	ug/l 100
6) Chloroethane	1.71	64	172884	91.362	ug/l 99
7) Trichlorofluoromethane	1.93	101	359877	94.102	ug/l 98
8) Diethyl Ether	2.19	74	207539	94.069	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	259058	94.997	ug/l 92
10) 1,1-Dichloroethene	2.37	96	250576	96.998	ug/l 85
11) Methyl Iodide	2.51	142	342043	112.100	ug/l 98
12) Methyl Acetate	2.78	43	417960	97.214	ug/l 93
13) Acrolein	2.29	56	292246	480.959	ug/l 98
14) Acrylonitrile	3.15	53	906836	480.794	ug/l 99
15) Acetone	2.45	58	279009	419.364	ug/l 89
16) Carbon Disulfide	2.57	76	800541	98.362	ug/l 99
17) Allyl chloride	2.73	41	560178	102.397	ug/l 93
18) Methylene Chloride	2.85	84	282945	93.130	ug/l 86
19) trans-1,2-Dichloroethene	3.17	96	268877	96.864	ug/l 89
20) Diisopropyl ether	3.86	45	1075146	97.701	ug/l # 95
21) 1,1-Dichloroethane	3.70	63	549500	97.174	ug/l 96
22) cis-1,2-Dichloroethene	4.60	96	308730m	97.447	ug/l
23) tert-Butyl Alcohol	3.06	59	336392	483.178	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	920573	98.643	ug/l 98
25) Chloroform	5.21	83	512618	94.822	ug/l 96
26) Cyclohexane	5.58	56	531465	101.147	ug/l # 85
29) 1,1-Dichloropropene	5.81	75	407615	100.744	ug/l 93
30) 2-Butanone	4.68	43	1372959	448.682	ug/l 95
31) 2,2-Dichloropropane	4.59	77	420602	104.067	ug/l 93
32) 1,1,1-Trichloroethane	5.49	97	431207	99.460	ug/l 96
33) Carbon Tetrachloride	5.79	117	365900	103.349	ug/l 96
34) Benzene	6.14	78	1199101	97.312	ug/l # 96
35) Methacrylonitrile	5.04	41	279753	100.257	ug/l 93
36) 1,2-Dichloroethane	6.20	62	427808	94.378	ug/l 97
37) Trichloroethene	7.21	130	286340	98.689	ug/l 87
38) Methylcyclohexane	7.46	83	495033	101.384	ug/l 90
39) 1,2-Dichloropropane	7.51	63	328179	97.946	ug/l 100
40) Dibromomethane	7.66	93	198503	96.924	ug/l 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	394187	100.160	ug/l	99
42) Vinyl Acetate	3.82	43	4842739	503.405	ug/l #	94
43) Ethyl Acetate	4.84	43	502754	95.972	ug/l #	83
44) Isopropyl Acetate	6.45	43	794420	102.074	ug/l	97
45) 1,4-Dioxane	7.74	88	142683	1925.603	ug/l #	86
46) Methyl methacrylate	7.77	41	417595	101.071	ug/l	88
47) n-amyl Acetate	10.90	43	688637	102.111	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	459115	109.907	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	500683	106.633	ug/l	93
50) 1,1,2-Trichloroethane	9.21	97	284464	96.512	ug/l	96
51) Ethyl methacrylate	9.18	69	476307	101.176	ug/l	91
52) 1,3-Dichloropropane	9.37	76	510907	95.269	ug/l	99
53) Dibromochloromethane	9.58	129	286831	101.926	ug/l	98
54) 1,2-Dibromoethane	9.67	107	300650	95.241	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	1850601	526.814	ug/l	95
56) Bromoform	10.85	173	209566	105.019	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	2519558	483.415	ug/l	96
59) 2-Hexanone	9.49	43	1966716	463.085	ug/l	97
61) Tetrachloroethene	9.34	164	261309	96.897	ug/l	97
62) Toluene	8.79	91	1233158	98.040	ug/l	99
64) Chlorobenzene	10.14	112	737702	98.035	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	269218	104.186	ug/l	97
66) Ethyl Benzene	10.25	91	1345685	101.663	ug/l	96
67) m/p-Xylenes	10.36	106	996649	203.682	ug/l	91
68) o-Xylene	10.69	106	481023	101.867	ug/l	92
69) Styrene	10.71	104	785570	102.460	ug/l	96
70) Isopropylbenzene	11.02	105	1275452	100.122	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	438502	94.393	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	375403m	92.306	ug/l	
73) Bromobenzene	11.26	156	298480	99.305	ug/l	80
74) n-propylbenzene	11.36	91	1541630	103.773	ug/l	95
75) 2-Chlorotoluene	11.42	91	881437	98.734	ug/l	91
76) 1,3,5-Trimethylbenzene	11.51	105	1073048	101.994	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	152182	114.544	ug/l	90
78) 4-Chlorotoluene	11.51	91	1033492	102.190	ug/l	91
79) tert-butylbenzene	12.06	119	1093278	103.832	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	1070383	101.134	ug/l	95
81) sec-Butylbenzene	11.94	105	1268773	101.693	ug/l	96
82) p-Isopropyltoluene	12.06	119	1093278	103.832	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	538253	99.435	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	537093	102.327	ug/l	96
85) n-Butylbenzene	12.39	91	1059746	111.019	ug/l	97
86) Hexachloroethane	12.60	117	189370	106.404	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	538756	100.092	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	103166	106.272	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	366974	109.023	ug/l	99
90) Hexachlorobutadiene	13.78	225	180652	104.203	ug/l	99
91) Naphthalene	13.83	128	1205803	109.104	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	362644	107.630	ug/l	99

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

