

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007933.D
 Acq On : 08 Mar 2019 16:02
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 12:02:07 PM

Quant Time: Mar 09 04:39:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	45073	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	241727	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	212880	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	89293	30.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.47%
60) 4-Bromofluorobenzene	11.13	95	102058	30.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.13%
63) Toluene-d8	8.71	98	297688	30.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	52277	19.537 ug/l	100
3) Chloromethane	1.33	50	58089	19.522 ug/l	96
4) Vinyl Chloride	1.41	62	56848	19.288 ug/l	98
5) Bromomethane	1.64	94	29692	20.207 ug/l	99
6) Chloroethane	1.73	64	32610	18.945 ug/l	96
7) Trichlorofluoromethane	1.93	101	69462	18.926 ug/l	96
8) Diethyl Ether	2.19	74	39102	20.688 ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.38	101	54364	19.702 ug/l	97
10) 1,1-Dichloroethene	2.38	96	53542	20.472 ug/l	97
11) Methyl Iodide	2.51	142	80909	19.762 ug/l	94
12) Methyl Acetate	2.78	43	81977	19.818 ug/l	95
13) Acrolein	2.30	56	44779	92.274 ug/l	97
14) Acrylonitrile	3.15	53	182633	104.011 ug/l	100
15) Acetone	2.45	58	51348	80.997 ug/l	95
16) Carbon Disulfide	2.57	76	165928	20.221 ug/l	99
17) Allyl chloride	2.73	41	108047	20.150 ug/l	89
18) Methylene Chloride	2.86	84	60208	20.207 ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	56671	20.479 ug/l	97
20) Diisopropyl ether	3.87	45	204908	20.889 ug/l	92
21) 1,1-Dichloroethane	3.70	63	107984	20.240 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	64978	20.355 ug/l	92
23) tert-Butyl Alcohol	3.07	59	75072	105.976 ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	184742	20.544 ug/l	96
25) Chloroform	5.22	83	103029	20.460 ug/l	97
26) Cyclohexane	5.58	56	99948	20.274 ug/l #	91
29) 1,1-Dichloropropene	5.80	75	78220	20.408 ug/l	97
30) 2-Butanone	4.70	43	255354	98.780 ug/l	97
31) 2,2-Dichloropropane	4.59	77	66759	18.858 ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	85055	20.522 ug/l	98
33) Carbon Tetrachloride	5.79	117	74031	20.138 ug/l	97
34) Benzene	6.15	78	244278	20.797 ug/l	98
35) Methacrylonitrile	5.06	41	53133	21.093 ug/l	96
36) 1,2-Dichloroethane	6.20	62	79171	20.718 ug/l	99
37) Trichloroethene	7.21	130	65425	20.559 ug/l	96
38) Methylcyclohexane	7.46	83	96594	19.822 ug/l	94
39) 1,2-Dichloropropane	7.52	63	64129	20.935 ug/l	97
40) Dibromomethane	7.66	93	40451	20.819 ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	74364	20.248	ug/l	100
42) Vinyl Acetate	3.82	43	889141	106.256	ug/l	97
43) Ethyl Acetate	4.85	43	95330	21.171	ug/l #	81
44) Isopropyl Acetate	6.46	43	143308	20.859	ug/l	100
45) 1,4-Dioxane	7.75	88	30750	427.794	ug/l	90
46) Methyl methacrylate	7.77	41	74750	20.687	ug/l	90
47) n-amyl Acetate	10.90	43	119647	20.211	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	77397	19.458	ug/l	96
49) cis-1,3-Dichloropropene	8.44	75	89897	19.959	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	61419	20.738	ug/l	97
51) Ethyl methacrylate	9.18	69	92510	20.596	ug/l	92
52) 1,3-Dichloropropane	9.37	76	102091	20.862	ug/l	99
53) Dibromochloromethane	9.58	129	61669	20.243	ug/l	99
54) 1,2-Dibromoethane	9.67	107	64342	20.780	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	207007	99.092	ug/l	98
56) Bromoform	10.86	173	47188	19.419	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	474969	108.369	ug/l	99
59) 2-Hexanone	9.49	43	359486	103.905	ug/l	100
61) Tetrachloroethene	9.33	164	64884	20.894	ug/l	97
62) Toluene	8.79	91	256162	20.607	ug/l	100
64) Chlorobenzene	10.14	112	160530	20.262	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	58913	20.769	ug/l	98
66) Ethyl Benzene	10.25	91	268733	20.127	ug/l	98
67) m/p-Xylenes	10.36	106	208449	40.715	ug/l	96
68) o-Xylene	10.70	106	101422	20.401	ug/l	99
69) Styrene	10.71	104	164940	20.136	ug/l	99
70) Isopropylbenzene	11.02	105	270320	20.349	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	91788	20.921	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	87025m	21.043	ug/l	
73) Bromobenzene	11.26	156	71203	20.161	ug/l	95
74) n-propylbenzene	11.36	91	299157	19.964	ug/l	98
75) 2-Chlorotoluene	11.42	91	181276	20.183	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	223516	20.302	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	23440	18.345	ug/l	92
78) 4-Chlorotoluene	11.51	91	205399	20.227	ug/l	96
79) tert-butylbenzene	12.06	119	235711	19.951	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	226001	20.226	ug/l	98
81) sec-Butylbenzene	11.94	105	263431	19.907	ug/l	99
82) p-Isopropyltoluene	12.06	119	235711	19.951	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	124429	19.789	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	124054	19.719	ug/l	98
85) n-Butylbenzene	12.38	91	192108	19.013	ug/l	99
86) Hexachloroethane	12.60	117	37396	19.427	ug/l	83
87) 1,2-Dichlorobenzene	12.39	146	126091	20.291	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18048	20.139	ug/l	97
89) 1,2,4-Trichlorobenzene	13.65	180	85230	19.084	ug/l	98
90) Hexachlorobutadiene	13.78	225	46925	19.051	ug/l	97
91) Naphthalene	13.83	128	257926	20.148	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	86910	19.578	ug/l	99

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

