

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032919\
 Data File : VX008535.D
 Acq On : 29 Mar 2019 09:30
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDado
 da
 3/30/2019 9:50:11 AM

Quant Time: Mar 29 14:45:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	45414	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	265553	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	234653	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	113661	29.92	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.73%
60) 4-Bromofluorobenzene	11.13	95	123230	30.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.47%
63) Toluene-d8	8.71	98	337544	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	64779	20.860	ug/l 98
3) Chloromethane	1.32	50	80136	19.696	ug/l 98
4) Vinyl Chloride	1.40	62	81469	19.865	ug/l 97
5) Bromomethane	1.64	94	33322	15.681	ug/l 99
6) Chloroethane	1.71	64	48176	17.948	ug/l 97
7) Trichlorofluoromethane	1.93	101	92286	20.274	ug/l 99
8) Diethyl Ether	2.18	74	41528	19.345	ug/l 77
9) 1,1,2-Trichlorotrifluoroet	2.38	101	57629	20.329	ug/l 93
10) 1,1-Dichloroethene	2.37	96	57578	20.021	ug/l 86
11) Methyl Iodide	2.51	142	39966	13.421	ug/l 95
12) Methyl Acetate	3.19	43	46504	19.951	ug/l 93
13) Acrolein	2.29	56	49786	74.453	ug/l 96
14) Acrylonitrile	3.14	53	214483	99.528	ug/l 99
15) Acetone	2.44	58	71441	107.504	ug/l 94
16) Carbon Disulfide	2.57	76	177014	19.786	ug/l 100
17) Allyl chloride	2.73	41	129505	20.037	ug/l 91
18) Methylene Chloride	2.85	84	69099	20.100	ug/l 89
19) trans-1,2-Dichloroethene	3.16	96	61444	19.998	ug/l 87
20) Diisopropyl ether	3.85	45	253228	20.129	ug/l # 86
21) 1,1-Dichloroethane	3.69	63	127002	20.112	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	70962	19.986	ug/l # 80
23) tert-Butyl Alcohol	3.04	59	83632	96.107	ug/l 100
24) Methyl tert-Butyl Ether	3.19	73	209608	19.832	ug/l 98
25) Chloroform	5.20	83	115748	20.236	ug/l 96
26) Cyclohexane	5.57	56	125871	20.518	ug/l # 82
29) 1,1-Dichloropropene	5.79	75	90760	20.315	ug/l 93
30) 2-Butanone	4.67	43	336105	102.309	ug/l 94
31) 2,2-Dichloropropane	4.58	77	89326	20.019	ug/l 94
32) 1,1,1-Trichloroethane	5.49	97	93103	20.068	ug/l 94
33) Carbon Tetrachloride	5.78	117	76761	19.776	ug/l 97
34) Benzene	6.14	78	273456	20.024	ug/l # 95
35) Methacrylonitrile	5.04	41	65535	19.616	ug/l 94
36) 1,2-Dichloroethane	6.19	62	97919	20.111	ug/l 97
37) Trichloroethene	7.21	130	63206	20.126	ug/l 82
38) Methylcyclohexane	7.46	83	117162	20.812	ug/l 89
39) 1,2-Dichloropropane	7.51	63	75792	19.567	ug/l 97
40) Dibromomethane	7.66	93	44318	19.751	ug/l 89

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

41) Bromodichloromethane	7.89	83	86886	19.694	ug/l	99
42) Vinyl Acetate	3.81	43	1119998	100.570	ug/l #	94
43) Ethyl Acetate	4.82	43	116555	19.712	ug/l #	83
44) Isopropyl Acetate	6.44	43	185204	19.371	ug/l	99
45) 1,4-Dioxane	7.74	88	37319	392.095	ug/l #	82
46) Methyl methacrylate	7.76	41	94707	19.504	ug/l	87
47) n-amyl Acetate	10.90	43	171352	19.730	ug/l	95
48) t-1,3-Dichloropropene	9.04	75	96514	19.368	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	109869	19.711	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	64882	19.474	ug/l	96
51) Ethyl methacrylate	9.18	69	119220	19.229	ug/l	91
52) 1,3-Dichloropropane	9.37	76	117753	19.866	ug/l	100
53) Dibromochloromethane	9.58	129	62719	19.130	ug/l	100
54) 1,2-Dibromoethane	9.67	107	68387	19.912	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	320131	102.349	ug/l	95
56) Bromoform	10.85	173	44818	18.757	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	612729	98.978	ug/l	96
59) 2-Hexanone	9.49	43	512015	104.689	ug/l	97
61) Tetrachloroethene	9.34	164	54988	21.424	ug/l	98
62) Toluene	8.78	91	285046	20.064	ug/l	100
64) Chlorobenzene	10.13	112	168176	20.202	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	57578	19.617	ug/l	98
66) Ethyl Benzene	10.25	91	320438	20.320	ug/l	95
67) m/p-Xylenes	10.35	106	231780	40.297	ug/l	90
68) o-Xylene	10.69	106	113087	20.092	ug/l	91
69) Styrene	10.71	104	196880	20.102	ug/l	96
70) Isopropylbenzene	11.02	105	300343	20.229	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	111531	20.108	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	96637m	20.612	ug/l	
73) Bromobenzene	11.26	156	70957	20.088	ug/l	78
74) n-propylbenzene	11.36	91	359764	20.340	ug/l	94
75) 2-Chlorotoluene	11.42	91	213331	20.273	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	254641	20.061	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	34609	19.245	ug/l	94
78) 4-Chlorotoluene	11.51	91	243760	20.127	ug/l	91
79) tert-butylbenzene	12.06	119	263102	20.282	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	255610	20.196	ug/l	96
81) sec-Butylbenzene	11.94	105	295255	20.358	ug/l	96
82) p-Isopropyltoluene	12.06	119	263102	20.282	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	128432	20.480	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	127737	20.383	ug/l	96
85) n-Butylbenzene	12.38	91	249634	20.254	ug/l	97
86) Hexachloroethane	12.60	117	42303	19.518	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	129054	20.424	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	24237	19.715	ug/l #	74
89) 1,2,4-Trichlorobenzene	13.65	180	89822	20.608	ug/l	99
90) Hexachlorobutadiene	13.78	225	43855	20.885	ug/l	99
91) Naphthalene	13.83	128	296682	19.867	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	88398	20.134	ug/l	99

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

