

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008177.D
 Acq On : 18 Mar 2019 20:14
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:36:39 AM

Quant Time: Mar 19 03:35:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	49858	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	273684	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	240702	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	126279	30.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.50%
60) 4-Bromofluorobenzene	11.13	95	120180	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	8.71	98	354426	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	43307	19.385	ug/l 97
3) Chloromethane	1.33	50	55704	19.781	ug/l 98
4) Vinyl Chloride	1.41	62	55199	19.009	ug/l 99
5) Bromomethane	1.65	94	34096	14.745	ug/l 99
6) Chloroethane	1.73	64	35648	19.638	ug/l 99
7) Trichlorofluoromethane	1.93	101	70860	19.380	ug/l 93
8) Diethyl Ether	2.19	74	41306	20.923	ug/l 82
9) 1,1,2-Trichlorotrifluoroet	2.39	101	49938	20.136	ug/l 92
10) 1,1-Dichloroethene	2.38	96	49033	20.929	ug/l 88
11) Methyl Iodide	2.51	142	61067	20.479	ug/l 100
12) Methyl Acetate	2.78	43	81625	21.287	ug/l 92
13) Acrolein	2.29	56	52454	88.954	ug/l 99
14) Acrylonitrile	3.14	53	171678	100.899	ug/l 97
15) Acetone	2.45	58	50448	92.278	ug/l 95
16) Carbon Disulfide	2.57	76	147355	19.729	ug/l 98
17) Allyl chloride	2.73	41	102998	20.115	ug/l 97
18) Methylene Chloride	2.86	84	56325	20.633	ug/l 84
19) trans-1,2-Dichloroethene	3.17	96	50867	20.210	ug/l 86
20) Diisopropyl ether	3.85	45	210354	20.976	ug/l # 79
21) 1,1-Dichloroethane	3.70	63	107820	21.068	ug/l 97
22) cis-1,2-Dichloroethene	4.60	96	58574	20.414	ug/l # 83
23) tert-Butyl Alcohol	3.04	59	64139	102.317	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	178581	21.012	ug/l 98
25) Chloroform	5.21	83	100455	20.807	ug/l 95
26) Cyclohexane	5.59	56	98337	20.155	ug/l # 84
29) 1,1-Dichloropropene	5.81	75	74944	20.575	ug/l 93
30) 2-Butanone	4.67	43	247828	97.060	ug/l 94
31) 2,2-Dichloropropane	4.59	77	68579m	18.668	ug/l
32) 1,1,1-Trichloroethane	5.50	97	80598	20.890	ug/l # 94
33) Carbon Tetrachloride	5.79	117	66514	20.542	ug/l 97
34) Benzene	6.15	78	229532	21.073	ug/l 97
35) Methacrylonitrile	5.04	41	52813	21.260	ug/l 87
36) 1,2-Dichloroethane	6.20	62	85455	21.616	ug/l 97
37) Trichloroethene	7.21	130	52924	20.390	ug/l 85
38) Methylcyclohexane	7.46	83	85356	19.292	ug/l 88
39) 1,2-Dichloropropane	7.51	63	62321	21.009	ug/l 98
40) Dibromomethane	7.66	93	38626	21.268	ug/l 88

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

41) Bromodichloromethane	7.90	83	71295	20.301	ug/l	99
42) Vinyl Acetate	3.82	43	910376	106.016	ug/l #	94
43) Ethyl Acetate	4.84	43	98083m	21.667	ug/l	
44) Isopropyl Acetate	6.45	43	149004	21.221	ug/l	97
45) 1,4-Dioxane	7.74	88	26651	406.324	ug/l #	85
46) Methyl methacrylate	7.77	41	77147	20.824	ug/l	91
47) n-amyl Acetate	10.90	43	123838	20.640	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	75170	19.366	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	84714	19.617	ug/l	92
50) 1,1,2-Trichloroethane	9.21	97	55483	21.278	ug/l	97
51) Ethyl methacrylate	9.18	69	88144	20.852	ug/l	93
52) 1,3-Dichloropropane	9.37	76	98783	21.158	ug/l	99
53) Dibromochloromethane	9.58	129	50997	20.226	ug/l	98
54) 1,2-Dibromoethane	9.67	107	56963	20.931	ug/l	97
55) 2-Chloroethyl vinyl ether	8.31	63	323083	107.354	ug/l	95
56) Bromoform	10.85	173	34937	19.260	ug/l #	97
58) 4-Methyl-2-Pentanone	8.64	43	488562	106.129	ug/l	96
59) 2-Hexanone	9.49	43	369695	101.787	ug/l	96
61) Tetrachloroethene	9.34	164	50675	20.904	ug/l	97
62) Toluene	8.79	91	234762	20.623	ug/l	99
64) Chlorobenzene	10.13	112	140204	20.694	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.22	131	48406	20.376	ug/l	96
66) Ethyl Benzene	10.25	91	245190	20.166	ug/l	95
67) m/p-Xylenes	10.36	106	179699	40.007	ug/l	91
68) o-Xylene	10.69	106	88454	20.494	ug/l	92
69) Styrene	10.71	104	142602	20.283	ug/l	96
70) Isopropylbenzene	11.02	105	235396	20.226	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.27	83	86949	21.329	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	86617m	24.639	ug/l	
73) Bromobenzene	11.26	156	55530	20.156	ug/l	78
74) n-propylbenzene	11.36	91	270076	19.600	ug/l	95
75) 2-Chlorotoluene	11.42	91	165574	20.454	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	192750	20.028	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	23425	18.544	ug/l	97
78) 4-Chlorotoluene	11.51	91	184720	19.810	ug/l	91
79) tert-butylbenzene	12.06	119	192566	19.649	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	195672	20.143	ug/l	97
81) sec-Butylbenzene	11.94	105	226258	19.686	ug/l	97
82) p-Isopropyltoluene	12.06	119	192566	19.649	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	96790	19.604	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	96852	19.765	ug/l	96
85) n-Butylbenzene	12.38	91	170031	18.399	ug/l	96
86) Hexachloroethane	12.60	117	32234	19.187	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	99368	20.198	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17620	19.518	ug/l #	75
89) 1,2,4-Trichlorobenzene	13.65	180	61139	19.078	ug/l	99
90) Hexachlorobutadiene	13.78	225	31068	18.682	ug/l	99
91) Naphthalene	13.83	128	204122	19.666	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	62500	19.527	ug/l	98

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

