

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX031119\
 Data File : VX007960.D
 Acq On : 11 Mar 2019 09:41
 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

MMDadoda
 3/12/2019 1:09:48 PM

Quant Time: Mar 12 08:15:20 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	47190	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	254334	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	226138	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	92102	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	11.13	95	109556	30.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.17%
63) Toluene-d8	8.71	98	314469	30.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.30%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	53010	18.922	ug/l 99
3) Chloromethane	1.33	50	54833	17.601	ug/l 96
4) Vinyl Chloride	1.41	62	54802	17.759	ug/l 100
5) Bromomethane	1.64	94	28071	18.246	ug/l 97
6) Chloroethane	1.73	64	31857	17.677	ug/l 97
7) Trichlorofluoromethane	1.93	101	70366	18.312	ug/l 98
8) Diethyl Ether	2.19	74	37846	19.125	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	57612	19.942	ug/l 97
10) 1,1-Dichloroethene	2.38	96	53136	19.405	ug/l 98
11) Methyl Iodide	2.51	142	82405	19.224	ug/l 93
12) Methyl Acetate	2.78	43	78868	18.211	ug/l 97
13) Acrolein	2.29	56	43848	86.302	ug/l 100
14) Acrylonitrile	3.15	53	175084	95.238	ug/l 100
15) Acetone	2.45	58	66017	99.464	ug/l 97
16) Carbon Disulfide	2.57	76	163235	19.000	ug/l 98
17) Allyl chloride	2.73	41	106515	18.973	ug/l 89
18) Methylene Chloride	2.86	84	58265	18.677	ug/l 93
19) trans-1,2-Dichloroethene	3.17	96	56754	19.589	ug/l 98
20) Diisopropyl ether	3.87	45	202363	19.704	ug/l 95
21) 1,1-Dichloroethane	3.70	63	105981	18.974	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	63199	18.910	ug/l 93
23) tert-Butyl Alcohol	3.06	59	73175	98.664	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	183946	19.538	ug/l 94
25) Chloroform	5.21	83	100239	19.013	ug/l 97
26) Cyclohexane	5.57	56	97770	18.942	ug/l # 92
29) 1,1-Dichloropropene	5.79	75	77382	19.189	ug/l 97
30) 2-Butanone	4.70	43	262747	96.602	ug/l 98
31) 2,2-Dichloropropane	4.59	77	76823	20.625	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	86052	19.734	ug/l 100
33) Carbon Tetrachloride	5.78	117	76705	19.831	ug/l 97
34) Benzene	6.14	78	231894	18.764	ug/l 98
35) Methacrylonitrile	5.06	41	48481	18.292	ug/l 95
36) 1,2-Dichloroethane	6.20	62	75634	18.811	ug/l 99
37) Trichloroethene	7.21	130	65446	19.546	ug/l 98
38) Methylcyclohexane	7.46	83	99338	19.375	ug/l 95
39) 1,2-Dichloropropane	7.51	63	60354	18.726	ug/l 99
40) Dibromomethane	7.66	93	38889	19.023	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	73388	18.992	ug/l	97
42) Vinyl Acetate	3.82	43	885110	100.531	ug/l	97
43) Ethyl Acetate	4.85	43	87338	18.435	ug/l #	83
44) Isopropyl Acetate	6.46	43	134725	18.637	ug/l	98
45) 1,4-Dioxane	7.74	88	29106	384.851	ug/l	92
46) Methyl methacrylate	7.77	41	70660	18.586	ug/l	92
47) n-amyl Acetate	10.90	43	113173	18.170	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	80121	19.144	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	90566	19.111	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	59494	19.092	ug/l	97
51) Ethyl methacrylate	9.18	69	87978	18.617	ug/l	93
52) 1,3-Dichloropropane	9.37	76	97871	19.008	ug/l	99
53) Dibromochloromethane	9.58	129	62225	19.413	ug/l	99
54) 1,2-Dibromoethane	9.67	107	62710	19.249	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	209757	95.431	ug/l	99
56) Bromoform	10.85	173	49323	19.291	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	444803	95.536	ug/l	99
59) 2-Hexanone	9.49	43	353408	96.160	ug/l	99
61) Tetrachloroethene	9.34	164	68726	20.834	ug/l	96
62) Toluene	8.78	91	250367	18.960	ug/l	100
64) Chlorobenzene	10.14	112	160637	19.087	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	59890	19.876	ug/l	99
66) Ethyl Benzene	10.25	91	267521	18.862	ug/l	99
67) m/p-Xylenes	10.36	106	207675	38.186	ug/l	95
68) o-Xylene	10.69	106	100833	19.093	ug/l	98
69) Styrene	10.71	104	166335	19.116	ug/l	99
70) Isopropylbenzene	11.02	105	274976	19.486	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	87122	18.693	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	85685m	19.505	ug/l	
73) Bromobenzene	11.26	156	72857	19.420	ug/l	97
74) n-propylbenzene	11.36	91	308632	19.389	ug/l	99
75) 2-Chlorotoluene	11.42	91	182987	19.179	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	228566	19.544	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	26462	19.496	ug/l	86
78) 4-Chlorotoluene	11.51	91	209574	19.428	ug/l	97
79) tert-butylbenzene	12.06	119	247580	19.727	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	232482	19.586	ug/l	97
81) sec-Butylbenzene	11.94	105	273127	19.429	ug/l	99
82) p-Isopropyltoluene	12.06	119	247580	19.727	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	129917	19.450	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	128415	19.215	ug/l	98
85) n-Butylbenzene	12.38	91	204834	19.084	ug/l	99
86) Hexachloroethane	12.59	117	40658	19.883	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	128386	19.449	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18062	18.973	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	92584	19.516	ug/l	98
90) Hexachlorobutadiene	13.78	225	50792	19.412	ug/l	98
91) Naphthalene	13.83	128	259784	19.103	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	92056	19.522	ug/l	99

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

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