

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032520\
 Data File : VX015346.D
 Acq On : 25 Mar 2020 17:46
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 3/26/2020 11:01:08 AM

Quant Time: Mar 26 02:22:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:14:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	196844	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	1101495	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	983654	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	462846	34.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	113.47%
60) 4-Bromofluorobenzene	11.12	95	507375	31.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.10%
63) Toluene-d8	8.70	98	1286976	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	54966	5.670 ug/l	98
3) Chloromethane	1.31	50	62061	4.611 ug/l	98
4) Vinyl Chloride	1.39	62	59471	4.355 ug/l	94
5) Bromomethane	1.63	94	36627	4.085 ug/l	91
6) Chloroethane	1.72	64	37137	4.319 ug/l	98
7) Trichlorofluoromethane	1.92	101	84455	4.752 ug/l	95
8) Diethyl Ether	2.17	74	31319	4.072 ug/l	89
9) 1,1,2-Trichlorotrifluoroet	2.37	101	55593	5.004 ug/l	100
10) 1,1-Dichloroethene	2.36	96	57006	5.088 ug/l	98
11) Methyl Iodide	2.49	142	45592	3.687 ug/l	98
12) Methyl Acetate	2.75	43	82327	5.710 ug/l	95
13) Acrolein	2.28	56	46822	21.298 ug/l	90
14) Acrylonitrile	3.12	53	171512	25.879 ug/l	99
15) Acetone	2.42	58	42541	23.267 ug/l	100
16) Carbon Disulfide	2.55	76	162712	5.058 ug/l	100
17) Allyl chloride	2.71	41	129760	5.933 ug/l	98
18) Methylene Chloride	2.84	84	63163	4.938 ug/l	97
19) trans-1,2-Dichloroethene	3.14	96	60665	4.932 ug/l	96
20) Diisopropyl ether	3.83	45	228902	5.373 ug/l	89
21) 1,1-Dichloroethane	3.67	63	112242	5.011 ug/l	99
22) cis-1,2-Dichloroethene	4.56	96	68041	4.931 ug/l	100
23) tert-Butyl Alcohol	3.02	59	86380	31.495 ug/l	# 100
24) Methyl tert-Butyl Ether	3.17	73	208427	5.526 ug/l	97
25) Chloroform	5.18	83	114767	5.412 ug/l	100
26) Cyclohexane	5.56	56	114619	5.515 ug/l	# 93
29) 1,1-Dichloropropene	5.77	75	86688	5.160 ug/l	98
30) 2-Butanone	4.64	43	261889	28.434 ug/l	98
31) 2,2-Dichloropropane	4.56	77	107512	5.965 ug/l	100
32) 1,1,1-Trichloroethane	5.47	97	104872	5.606 ug/l	98
33) Carbon Tetrachloride	5.76	117	97046	5.973 ug/l	95
34) Benzene	6.12	78	249125	4.949 ug/l	99
35) Methacrylonitrile	5.01	41	58121	5.727 ug/l	97
36) 1,2-Dichloroethane	6.17	62	91131	5.265 ug/l	97
37) Trichloroethene	7.19	130	69448	4.933 ug/l	97
38) Methylcyclohexane	7.45	83	103335	4.987 ug/l	96
39) 1,2-Dichloropropane	7.50	63	66631	5.043 ug/l	95
40) Dibromomethane	7.64	93	45163	5.346 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	98766	5.761	ug/l	99
42) Vinyl Acetate	3.79	43	1035579	28.230	ug/l	99
43) Ethyl Acetate	4.80	43	146919m	8.241	ug/l	
44) Isopropyl Acetate	6.42	43	180778	6.003	ug/l	99
45) 1,4-Dioxane	7.73	88	32138	108.325	ug/l	94
46) Methyl methacrylate	7.75	41	88985	5.932	ug/l	97
47) n-amyl Acetate	10.88	43	150332	5.608	ug/l	96
48) t-1,3-Dichloropropene	9.03	75	109101	5.776	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	114293	5.464	ug/l	96
50) 1,1,2-Trichloroethane	9.20	97	64588	5.195	ug/l	96
51) Ethyl methacrylate	9.16	69	107832	5.450	ug/l	99
52) 1,3-Dichloropropane	9.36	76	109567	5.179	ug/l	99
53) Dibromochloromethane	9.57	129	78070	5.704	ug/l	98
54) 1,2-Dibromoethane	9.65	107	67858	5.253	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	261142	26.465	ug/l	99
56) Bromoform	10.84	173	62086	5.778	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	522363	29.974	ug/l	99
59) 2-Hexanone	9.48	43	386823	29.399	ug/l	100
61) Tetrachloroethene	9.32	164	67693	5.004	ug/l	98
62) Toluene	8.77	91	265239	5.090	ug/l	98
64) Chlorobenzene	10.12	112	167615	5.096	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	68561	5.553	ug/l	96
66) Ethyl Benzene	10.24	91	299019	5.161	ug/l	99
67) m/p-Xylenes	10.34	106	227780	10.290	ug/l	99
68) o-Xylene	10.68	106	109501	5.132	ug/l	98
69) Styrene	10.70	104	190291	5.129	ug/l	99
70) Isopropylbenzene	11.00	105	296823	5.240	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	96620	5.261	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	89703m	5.815	ug/l	
73) Bromobenzene	11.24	156	75020	4.886	ug/l	98
74) n-propylbenzene	11.34	91	338655	5.051	ug/l	99
75) 2-Chlorotoluene	11.40	91	203620	5.172	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	254266	5.227	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	37155	5.644	ug/l	99
78) 4-Chlorotoluene	11.50	91	234926	5.189	ug/l	99
79) tert-butylbenzene	11.76	119	252714	5.426	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	256269	5.261	ug/l	98
81) sec-Butylbenzene	11.93	105	287324	5.044	ug/l	99
82) p-Isopropyltoluene	12.05	119	270768	5.168	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	138087	5.036	ug/l	98
84) 1,4-Dichlorobenzene	12.08	146	133401	4.848	ug/l	98
85) n-Butylbenzene	12.37	91	234695	5.083	ug/l	100
86) Hexachloroethane	12.58	117	50463	5.390	ug/l	99
87) 1,2-Dichlorobenzene	12.38	146	132961	4.961	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	24110	5.959	ug/l	96
89) 1,2,4-Trichlorobenzene	13.63	180	99182	4.948	ug/l	98
90) Hexachlorobutadiene	13.76	225	51031	4.985	ug/l	99
91) Naphthalene	13.82	128	312483	5.503	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	99351	4.923	ug/l	100

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

