

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021527.D
 Acq On : 26 Mar 2021 11:54
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

SAM
 3/30/2021 7:12:55 PM

Quant Time: Mar 26 12:21:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 26 12:08:31 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.988	128	13521	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	76900	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	71088	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	38125	30.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.80%			
60) 4-Bromofluorobenzene	11.118	95	38724	30.12	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.40%			
63) Toluene-d8	8.694	98	97698	30.30	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	68789	71.87	ug/l	98
3) Chloromethane	1.311	50	59285	61.63	ug/l	97
4) Vinyl Chloride	1.393	62	53971	57.46	ug/l	100
5) Bromomethane	1.623	94	21506	40.69	ug/l	98
6) Chloroethane	1.705	64	31611	54.82	ug/l	94
7) Trichlorofluoromethane	1.911	101	80119	55.06	ug/l	100
8) Diethyl Ether	2.170	74	25884	53.39	ug/l	76
9) 1,1,2-Trichlorotrifluo...	2.358	101	43300	54.90	ug/l	97
10) 1,1-Dichloroethene	2.352	96	41645	54.62	ug/l	90
11) Methyl Iodide	2.487	142	34996	37.60	ug/l	88
12) Methyl Acetate	2.746	43	90479	68.14	ug/l #	87
13) Acrolein	2.276	56	38764	240.51	ug/l	99
14) Acrylonitrile	3.117	53	133058	277.66	ug/l	98
15) Acetone	2.423	58	35034	271.55	ug/l	70
16) Carbon Disulfide	2.546	76	118421	53.62	ug/l	98
17) Allyl chloride	2.705	41	82908	52.11	ug/l	87
18) Methylene Chloride	2.834	84	49220	53.85	ug/l	88
19) trans-1,2-Dichloroethene	3.140	96	45799	54.74	ug/l	88
20) Diisopropyl ether	3.823	45	161979	52.39	ug/l #	93
21) 1,1-Dichloroethane	3.670	63	86964	52.64	ug/l	97
22) cis-1,2-Dichloroethene	4.564	96	51515	53.02	ug/l	89
23) tert-Butyl Alcohol	3.017	59	55499	263.92	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	152557	53.37	ug/l #	88
25) Chloroform	5.176	83	92514	53.49	ug/l	98
26) Cyclohexane	5.547	56	76064	51.88	ug/l #	90
29) 1,1-Dichloropropene	5.770	75	66066	51.40	ug/l	97
30) 2-Butanone	4.635	43	194679	269.96	ug/l	92
31) 2,2-Dichloropropane	4.552	77	75157	52.54	ug/l	95
32) 1,1,1-Trichloroethane	5.458	97	81922	52.14	ug/l	96
33) Carbon Tetrachloride	5.747	117	72732	52.92	ug/l	96
34) Benzene	6.111	78	190735	51.88	ug/l	96
35) Methacrylonitrile	5.005	41	42197	51.92	ug/l	89
36) 1,2-Dichloroethane	6.158	62	82246	52.00	ug/l #	94
37) Trichloroethene	7.188	130	49801	51.79	ug/l	95
38) Methylcyclohexane	7.435	83	74332	51.50	ug/l	93
39) 1,2-Dichloropropane	7.488	63	51049	51.44	ug/l	98
40) Dibromomethane	7.635	93	36586	51.59	ug/l	93
41) Bromodichloromethane	7.876	83	75815	51.53	ug/l	99
42) Vinyl Acetate	3.788	43	670169	250.04	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	74774	52.13	ug/l	100
44) Isopropyl Acetate	6.411	43	123818	51.89	ug/l #	91
45) 1,4-Dioxane	7.712	88	25513	1147.26	ug/l #	91
46) Methyl methacrylate	7.747	41	68547	53.37	ug/l	85
47) n-amyl Acetate	10.883	43	109472	53.17	ug/l	93
48) t-1,3-Dichloropropene	9.023	75	77883	51.72	ug/l	99
49) cis-1,3-Dichloropropene	8.412	75	82962	51.57	ug/l #	85
50) 1,1,2-Trichloroethane	9.194	97	50115	53.16	ug/l	97
51) Ethyl methacrylate	9.159	69	73365	49.95	ug/l	78
52) 1,3-Dichloropropane	9.353	76	84493	51.46	ug/l	99
53) Dibromochloromethane	9.565	129	56791	52.30	ug/l	99
54) 1,2-Dibromoethane	9.653	107	53502	53.35	ug/l	99
55) 2-Chloroethyl vinyl ether	8.288	63	202743	258.73	ug/l	97
56) Bromoform	10.841	173	40200	52.33	ug/l	96
58) 4-Methyl-2-Pentanone	8.618	43	396430	274.23	ug/l #	89
59) 2-Hexanone	9.471	43	302592	278.17	ug/l	88
61) Tetrachloroethene	9.318	164	44553	48.29	ug/l	93
62) Toluene	8.765	91	206420	52.22	ug/l	98
64) Chlorobenzene	10.118	112	126118	51.93	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.206	131	50700	54.95	ug/l	98
66) Ethyl Benzene	10.235	91	236962	52.50	ug/l	96
67) m/p-Xylenes	10.341	106	174386	106.98	ug/l	93
68) o-Xylene	10.683	106	83649	53.08	ug/l	91
69) Styrene	10.694	104	141324	53.05	ug/l	94
70) Isopropylbenzene	11.000	105	228847	53.14	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.253	83	79194	56.91	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	76269m	54.81	ug/l	
73) Bromobenzene	11.236	156	56057	54.69	ug/l	93
74) n-propylbenzene	11.341	91	269316	52.69	ug/l	98
75) 2-Chlorotoluene	11.406	91	165777	53.86	ug/l	97
76) 1,3,5-Trimethylbenzene	11.489	105	198950	54.27	ug/l	99
77) t-1,4-Dichloro-2-butene	11.059	75	24364	53.89	ug/l	87
78) 4-Chlorotoluene	11.494	91	195316	54.50	ug/l	97
79) tert-butylbenzene	11.753	119	186038	54.66	ug/l	95
80) 1,2,4-Trimethylbenzene	11.789	105	193950	52.52	ug/l	100
81) sec-Butylbenzene	11.930	105	219883	54.11	ug/l	99
82) p-Isopropyltoluene	12.047	119	204457	55.16	ug/l	97
83) 1,3-Dichlorobenzene	12.006	146	100041	54.86	ug/l	99
84) 1,4-Dichlorobenzene	12.083	146	100797	55.21	ug/l	98
85) n-Butylbenzene	12.371	91	180787	53.10	ug/l	97
86) Hexachloroethane	12.577	117	35673	53.09	ug/l	90
87) 1,2-Dichlorobenzene	12.377	146	97767	54.49	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.983	75	18310	53.86	ug/l	86
89) 1,2,4-Trichlorobenzene	13.630	180	60703	53.92	ug/l	98
90) Hexachlorobutadiene	13.765	225	26981	54.37	ug/l	94
91) Naphthalene	13.818	128	210709	57.43	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	61346	55.46	ug/l	100

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

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