

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031221\
 Data File : VX021175.D
 Acq On : 12 Mar 2021 11:26
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 3/15/2021 3:18:43 PM

Quant Time: Mar 12 11:51:48 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 11:46:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.988	128	14233	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	80782	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	76825	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	40183	37.95	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 126.50%#			
60) 4-Bromofluorobenzene	11.118	95	41380	31.81	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.03%			
63) Toluene-d8	8.694	98	102059	29.13	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	48104	60.10	ug/l	100
3) Chloromethane	1.311	50	50856	59.53	ug/l	98
4) Vinyl Chloride	1.393	62	50309	51.75	ug/l	99
5) Bromomethane	1.623	94	29395	70.54	ug/l	96
6) Chloroethane	1.711	64	30910	50.40	ug/l	95
7) Trichlorofluoromethane	1.917	101	77641	59.36	ug/l	100
8) Diethyl Ether	2.170	74	26830	48.14	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.364	101	41441	52.87	ug/l	96
10) 1,1-Dichloroethene	2.358	96	41376	51.79	ug/l	86
11) Methyl Iodide	2.493	142	56659	55.34	ug/l	85
12) Methyl Acetate	2.746	43	71936	72.90	ug/l #	88
13) Acrolein	2.270	56	42963	317.48	ug/l	99
14) Acrylonitrile	3.117	53	135128	294.00	ug/l	99
15) Acetone	2.417	58	34502	261.97	ug/l #	54
16) Carbon Disulfide	2.552	76	119391	52.49	ug/l	100
17) Allyl chloride	2.705	41	86953	64.64	ug/l	86
18) Methylene Chloride	2.835	84	49931	54.24	ug/l #	85
19) trans-1,2-Dichloroethene	3.140	96	45211	50.79	ug/l #	80
20) Diisopropyl ether	3.823	45	171643	63.19	ug/l #	91
21) 1,1-Dichloroethane	3.670	63	91011	57.91	ug/l	97
22) cis-1,2-Dichloroethene	4.564	96	53811	52.65	ug/l	88
23) tert-Butyl Alcohol	3.011	59	56308	270.85	ug/l #	100
24) Methyl tert-Butyl Ether	3.164	73	159642	55.70	ug/l #	84
25) Chloroform	5.176	83	95695	59.15	ug/l	98
26) Cyclohexane	5.553	56	79903	56.52	ug/l #	89
29) 1,1-Dichloropropene	5.770	75	69017	55.49	ug/l	96
30) 2-Butanone	4.629	43	196132	309.12	ug/l	92
31) 2,2-Dichloropropane	4.552	77	77195	54.03	ug/l #	78
32) 1,1,1-Trichloroethane	5.464	97	84139	59.11	ug/l	95
33) Carbon Tetrachloride	5.758	117	73975	59.73	ug/l	98
34) Benzene	6.111	78	198360	53.38	ug/l	97
35) Methacrylonitrile	5.000	41	44176	63.78	ug/l	89
36) 1,2-Dichloroethane	6.164	62	84247	63.47	ug/l #	93
37) Trichloroethene	7.188	130	50924	51.20	ug/l	98
38) Methylcyclohexane	7.441	83	78114	50.82	ug/l	92
39) 1,2-Dichloropropane	7.488	63	53061	56.43	ug/l	98
40) Dibromomethane	7.635	93	37746	58.20	ug/l	89
41) Bromodichloromethane	7.876	83	79121	58.37	ug/l	97
42) Vinyl Acetate	3.788	43	740188	311.88	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	75559	61.72	ug/l	99
44) Isopropyl Acetate	6.411	43	130303	63.33	ug/l #	90
45) 1,4-Dioxane	7.712	88	24120	1051.12	ug/l #	86
46) Methyl methacrylate	7.747	41	70447	67.72	ug/l	85
47) n-amyl Acetate	10.883	43	116323	67.22	ug/l	92
48) t-1,3-Dichloropropene	9.024	75	83772	56.43	ug/l	99
49) cis-1,3-Dichloropropene	8.418	75	88285	54.84	ug/l #	84
50) 1,1,2-Trichloroethane	9.194	97	51564	55.41	ug/l	96
51) Ethyl methacrylate	9.159	69	83655	56.77	ug/l #	76
52) 1,3-Dichloropropane	9.353	76	89090	56.11	ug/l	100
53) Dibromochloromethane	9.565	129	59961	59.47	ug/l	98
54) 1,2-Dibromoethane	9.653	107	55142	56.43	ug/l	98
55) 2-Chloroethyl vinyl ether	8.288	63	216390	303.26	ug/l	96
56) Bromoform	10.841	173	43643	61.92	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	406981	314.15	ug/l #	89
59) 2-Hexanone	9.471	43	308674	315.71	ug/l	87
61) Tetrachloroethene	9.318	164	52206	56.57	ug/l	97
62) Toluene	8.765	91	217525	50.93	ug/l	97
64) Chlorobenzene	10.124	112	136440	52.01	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.206	131	51705	53.19	ug/l	99
66) Ethyl Benzene	10.236	91	252374	52.93	ug/l	98
67) m/p-Xylenes	10.341	106	182136	103.23	ug/l	92
68) o-Xylene	10.683	106	89769	53.34	ug/l	93
69) Styrene	10.694	104	153117	52.51	ug/l	93
70) Isopropylbenzene	11.000	105	243091	53.43	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.253	83	75968	53.25	ug/l	100
72) 1,2,3-Trichloropropane	11.277	75	77289m	59.21	ug/l	
73) Bromobenzene	11.236	156	58440	54.62	ug/l	92
74) n-propylbenzene	11.342	91	291620	55.84	ug/l	97
75) 2-Chlorotoluene	11.406	91	175046	55.95	ug/l	98
76) 1,3,5-Trimethylbenzene	11.489	105	206941	55.00	ug/l	99
77) t-1,4-Dichloro-2-butene	11.059	75	26218	49.73	ug/l	90
78) 4-Chlorotoluene	11.495	91	202293	56.18	ug/l	97
79) tert-butylbenzene	11.753	119	191962	53.38	ug/l	92
80) 1,2,4-Trimethylbenzene	11.789	105	206750	54.33	ug/l	98
81) sec-Butylbenzene	11.930	105	230070	53.12	ug/l	100
82) p-Isopropyltoluene	12.048	119	214626	54.74	ug/l	95
83) 1,3-Dichlorobenzene	12.006	146	103307	53.06	ug/l	99
84) 1,4-Dichlorobenzene	12.083	146	104582	54.57	ug/l	98
85) n-Butylbenzene	12.371	91	197945	55.78	ug/l	96
86) Hexachloroethane	12.577	117	38264	51.94	ug/l	93
87) 1,2-Dichlorobenzene	12.377	146	98603	53.52	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	19132	57.77	ug/l	83
89) 1,2,4-Trichlorobenzene	13.630	180	61775	50.98	ug/l	96
90) Hexachlorobutadiene	13.765	225	28897	58.73	ug/l	93
91) Naphthalene	13.818	128	214623	51.64	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	62043	52.08	ug/l	97

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

