

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021959.D
 Acq On : 13 May 2021 12:04
 Operator : JC/MD
 Sample : VX0513WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0513WBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/14/2021 6:48:15 PM

Quant Time: May 14 03:45:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	18968	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	105658	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98948	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	42662	29.20	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.33%	
60) 4-Bromofluorobenzene	11.085	95	49308	30.03	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.10%	
63) Toluene-d8	8.653	98	130308	28.82	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.07%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21127	18.87	ug/l	97
3) Chloromethane	1.294	50	23860	17.74	ug/l	98
4) Vinyl Chloride	1.374	62	25040	17.93	ug/l	97
5) Bromomethane	1.611	94	13564	17.25	ug/l	100
6) Chloroethane	1.691	64	15733	17.50	ug/l	99
7) Trichlorofluoromethane	1.892	101	34685	17.77	ug/l	95
8) Diethyl Ether	2.136	74	15362	18.35	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	20167	18.02	ug/l	99
10) 1,1-Dichloroethene	2.325	96	18766	16.65	ug/l	95
11) Methyl Iodide	2.459	142	22763	20.30	ug/l	98
12) Methyl Acetate	2.709	43	28832	18.49	ug/l	97
13) Acrolein	2.239	56	26471	109.49	ug/l	100
14) Acrylonitrile	3.068	53	58430	91.86	ug/l	96
15) Acetone	2.386	58	17108	90.09	ug/l	97
16) Carbon Disulfide	2.514	76	56286	18.25	ug/l	97
17) Allyl chloride	2.666	41	34815	17.52	ug/l	97
18) Methylene Chloride	2.794	84	23375	17.44	ug/l	95
19) trans-1,2-Dichloroethene	3.099	96	22226	18.14	ug/l	92
20) Diisopropyl ether	3.763	45	67637	18.06	ug/l	95
21) 1,1-Dichloroethane	3.617	63	40445	18.03	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	25948	18.02	ug/l	98
23) tert-Butyl Alcohol	2.977	59	27715	89.63	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	68185	18.57	ug/l	99
25) Chloroform	5.099	83	41077	18.06	ug/l	96
26) Cyclohexane	5.477	56	33471	18.08	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	30848	18.65	ug/l	98
30) 2-Butanone	4.562	43	88677	94.74	ug/l	99
31) 2,2-Dichloropropane	4.483	77	35370	18.20	ug/l	96
32) 1,1,1-Trichloroethane	5.385	97	36035	18.47	ug/l	98
33) Carbon Tetrachloride	5.678	117	30398	18.36	ug/l	98
34) Benzene	6.044	78	94354	18.70	ug/l	98
35) Methacrylonitrile	4.922	41	18667m	18.63	ug/l	
36) 1,2-Dichloroethane	6.092	62	32928	19.12	ug/l #	86
37) Trichloroethene	7.129	130	23238	18.33	ug/l	98
38) Methylcyclohexane	7.385	83	35490	18.90	ug/l	98
39) 1,2-Dichloropropane	7.434	63	24247	19.25	ug/l	95
40) Dibromomethane	7.586	93	16562	18.89	ug/l	98
41) Bromodichloromethane	7.824	83	32868	18.78	ug/l	99
42) Vinyl Acetate	3.727	43	332663	95.16	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	34709	18.25	ug/l	94
44) Isopropyl Acetate	6.348	43	60207	19.19	ug/l	98
45) 1,4-Dioxane	7.671	88	10756	384.01	ug/l #	100
46) Methyl methacrylate	7.696	41	27833	19.14	ug/l	92
47) n-amyl Acetate	10.841	43	50805	19.47	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	38033	19.36	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	40927	19.41	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	24310	19.48	ug/l	98
51) Ethyl methacrylate	9.116	69	38945	19.35	ug/l	98
52) 1,3-Dichloropropane	9.311	76	41378	19.02	ug/l	99
53) Dibromochloromethane	9.525	129	24037	19.17	ug/l	99
54) 1,2-Dibromoethane	9.610	107	24615	19.21	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	101642	95.70	ug/l	99
56) Bromoform	10.799	173	15653	19.68	ug/l	96
58) 4-Methyl-2-Pentanone	8.574	43	179327	89.87	ug/l	100
59) 2-Hexanone	9.433	43	134891	91.28	ug/l	99
61) Tetrachloroethene	9.275	164	20577	18.33	ug/l	91
62) Toluene	8.720	91	98614	17.41	ug/l	100
64) Chlorobenzene	10.079	112	62377	18.41	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	22631	18.31	ug/l	99
66) Ethyl Benzene	10.195	91	112548	18.06	ug/l	99
67) m/p-Xylenes	10.305	106	85092	36.02	ug/l	98
68) o-Xylene	10.646	106	42119	18.31	ug/l	98
69) Styrene	10.659	104	70187	18.23	ug/l	98
70) Isopropylbenzene	10.963	105	108568	17.97	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	36307	18.22	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	32598m	18.46	ug/l	
73) Bromobenzene	11.201	156	23151	18.08	ug/l	96
74) n-propylbenzene	11.305	91	128603	18.26	ug/l	99
75) 2-Chlorotoluene	11.366	91	76136	18.25	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	92164	18.27	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	13147	18.37	ug/l	91
78) 4-Chlorotoluene	11.457	91	86826	18.08	ug/l	98
79) tert-butylbenzene	11.719	119	86688	17.97	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	92417	18.33	ug/l	99
81) sec-Butylbenzene	11.896	105	107725	17.76	ug/l	99
82) p-Isopropyltoluene	12.012	119	93344	18.36	ug/l	98
83) 1,3-Dichlorobenzene	11.975	146	43976	18.12	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	44294	18.19	ug/l	98
85) n-Butylbenzene	12.335	91	85786	18.41	ug/l	98
86) Hexachloroethane	12.542	117	15027	17.79	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	42387	18.03	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7950	17.92	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	25868	17.96	ug/l	96
90) Hexachlorobutadiene	13.731	225	10253	18.40	ug/l	100
91) Naphthalene	13.780	128	100046	17.71	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	25738	18.00	ug/l	97

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

