

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021938.D
 Acq On : 12 May 2021 19:43
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX051321

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:21 PM

Quant Time: May 13 06:16:00 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	4.910	128	19482	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	109955	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	97925	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44273	29.50	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.33%		
60) 4-Bromofluorobenzene	11.085	95	48110	29.60	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.67%		
63) Toluene-d8	8.653	98	133164	29.76	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.20%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21206	18.44	ug/l	93
3) Chloromethane	1.294	50	24534	17.76	ug/l	99
4) Vinyl Chloride	1.374	62	26038	18.15	ug/l	97
5) Bromomethane	1.611	94	14283	17.69	ug/l	99
6) Chloroethane	1.691	64	16518	17.88	ug/l	95
7) Trichlorofluoromethane	1.892	101	34926	17.42	ug/l	98
8) Diethyl Ether	2.136	74	14932	17.37	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	20047	17.44	ug/l	95
10) 1,1-Dichloroethene	2.325	96	19720	17.03	ug/l	95
11) Methyl Iodide	2.453	142	22533	19.57	ug/l	95
12) Methyl Acetate	2.709	43	29005	18.11	ug/l	97
13) Acrolein	2.239	56	24132	97.18	ug/l	95
14) Acrylonitrile	3.069	53	57969	88.73	ug/l	97
15) Acetone	2.386	58	17228	88.33	ug/l	90
16) Carbon Disulfide	2.514	76	56792	17.93	ug/l	97
17) Allyl chloride	2.666	41	35594	17.44	ug/l	99
18) Methylene Chloride	2.794	84	24051	17.47	ug/l	94
19) trans-1,2-Dichloroethene	3.099	96	22337	17.75	ug/l	98
20) Diisopropyl ether	3.770	45	66513	17.29	ug/l	93
21) 1,1-Dichloroethane	3.617	63	41094	17.83	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	26329	17.80	ug/l	97
23) tert-Butyl Alcohol	2.977	59	27053	85.18	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	67674	17.95	ug/l	99
25) Chloroform	5.105	83	41529	17.78	ug/l	98
26) Cyclohexane	5.483	56	33232	17.48	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	31113	18.08	ug/l	98
30) 2-Butanone	4.562	43	87860	90.19	ug/l	100
31) 2,2-Dichloropropane	4.489	77	35191	17.40	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	36129	17.79	ug/l	98
33) Carbon Tetrachloride	5.684	117	31453	18.25	ug/l	91
34) Benzene	6.044	78	94578	18.01	ug/l	98
35) Methacrylonitrile	4.928	41	18680	17.91	ug/l	95
36) 1,2-Dichloroethane	6.092	62	32638	18.21	ug/l #	88
37) Trichloroethene	7.135	130	23279	17.64	ug/l	99
38) Methylcyclohexane	7.391	83	34784	17.80	ug/l	99
39) 1,2-Dichloropropane	7.434	63	23173	17.68	ug/l	92
40) Dibromomethane	7.586	93	16574	18.17	ug/l	95
41) Bromodichloromethane	7.830	83	32974	18.10	ug/l	97
42) Vinyl Acetate	3.727	43	328483	90.30	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	37059	18.72	ug/l	100
44) Isopropyl Acetate	6.348	43	59127	18.11	ug/l	100
45) 1,4-Dioxane	7.677	88	10181	349.28	ug/l #	100
46) Methyl methacrylate	7.696	41	27914	18.44	ug/l	93
47) n-amyl Acetate	10.848	43	48414	17.83	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	36859	18.03	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	40139	18.29	ug/l	98
50) 1,1,2-Trichloroethane	9.159	97	23420	18.04	ug/l	96
51) Ethyl methacrylate	9.122	69	37440	17.88	ug/l	97
52) 1,3-Dichloropropane	9.311	76	40602	17.94	ug/l	98
53) Dibromochloromethane	9.525	129	24186	18.54	ug/l	97
54) 1,2-Dibromoethane	9.616	107	24696	18.52	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	103898	94.00	ug/l	99
56) Bromoform	10.805	173	14903	18.01	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	178103	90.19	ug/l	99
59) 2-Hexanone	9.433	43	132682	90.72	ug/l	98
61) Tetrachloroethene	9.275	164	19690	17.73	ug/l	85
62) Toluene	8.726	91	99848	17.81	ug/l	99
64) Chlorobenzene	10.086	112	61809	18.44	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	21708	17.74	ug/l	97
66) Ethyl Benzene	10.195	91	111914	18.14	ug/l	100
67) m/p-Xylenes	10.305	106	83292	35.63	ug/l	98
68) o-Xylene	10.646	106	41688	18.31	ug/l	99
69) Styrene	10.659	104	67543	17.73	ug/l	99
70) Isopropylbenzene	10.963	105	105799	17.69	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	34784	17.64	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	31275m	17.90	ug/l	
73) Bromobenzene	11.201	156	21907	17.29	ug/l	94
74) n-propylbenzene	11.305	91	123364	17.70	ug/l	100
75) 2-Chlorotoluene	11.366	91	74083	17.94	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	89390	17.90	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	12800	18.07	ug/l	93
78) 4-Chlorotoluene	11.457	91	83674	17.61	ug/l	98
79) tert-butylbenzene	11.719	119	86143	18.04	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	88713	17.78	ug/l	99
81) sec-Butylbenzene	11.896	105	105444	17.57	ug/l	100
82) p-Isopropyltoluene	12.012	119	88105	17.51	ug/l	98
83) 1,3-Dichlorobenzene	11.975	146	41566	17.31	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	42443	17.62	ug/l	98
85) n-Butylbenzene	12.335	91	78695	17.06	ug/l	99
86) Hexachloroethane	12.542	117	15161	18.13	ug/l	98
87) 1,2-Dichlorobenzene	12.341	146	41132	17.68	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7529	17.15	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	24109	16.92	ug/l	96
90) Hexachlorobutadiene	13.731	225	9892	17.94	ug/l	94
91) Naphthalene	13.780	128	98807	17.68	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	25010	17.68	ug/l	98

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

