

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021952.D
 Acq On : 13 May 2021 01:51
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:45 PM

Quant Time: May 13 06:30:07 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	4.903	128	18243	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	103881	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	92575	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	40853	29.07	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.90%	
60) 4-Bromofluorobenzene	11.085	95	48111	31.32	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	104.40%	
63) Toluene-d8	8.653	98	126881	29.99	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.97%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19405	18.02	ug/l	97
3) Chloromethane	1.294	50	23229	17.96	ug/l	100
4) Vinyl Chloride	1.374	62	24092	17.93	ug/l	97
5) Bromomethane	1.605	94	14591	19.30	ug/l	94
6) Chloroethane	1.685	64	15393	17.80	ug/l	98
7) Trichlorofluoromethane	1.892	101	31648	16.86	ug/l	94
8) Diethyl Ether	2.136	74	14186	17.62	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	18499	17.18	ug/l	98
10) 1,1-Dichloroethene	2.319	96	18645	17.20	ug/l	96
11) Methyl Iodide	2.453	142	20702	19.20	ug/l	90
12) Methyl Acetate	2.709	43	26234	17.50	ug/l	97
13) Acrolein	2.239	56	20949	90.09	ug/l	98
14) Acrylonitrile	3.068	53	53306	87.13	ug/l	96
15) Acetone	2.380	58	16483	90.25	ug/l	77
16) Carbon Disulfide	2.514	76	51373	17.32	ug/l	95
17) Allyl chloride	2.666	41	32261	16.88	ug/l	94
18) Methylene Chloride	2.794	84	21894	16.98	ug/l	96
19) trans-1,2-Dichloroethene	3.099	96	20520	17.41	ug/l	88
20) Diisopropyl ether	3.763	45	62396	17.32	ug/l #	87
21) 1,1-Dichloroethane	3.611	63	37927	17.58	ug/l	97
22) cis-1,2-Dichloroethene	4.501	96	24634	17.79	ug/l	94
23) tert-Butyl Alcohol	2.965	59	25486	85.70	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	62398	17.67	ug/l	98
25) Chloroform	5.105	83	38503	17.61	ug/l	95
26) Cyclohexane	5.477	56	31170	17.51	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	28308	17.41	ug/l	99
30) 2-Butanone	4.562	43	82440	89.58	ug/l	97
31) 2,2-Dichloropropane	4.483	77	28576	14.96	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	33796	17.62	ug/l	99
33) Carbon Tetrachloride	5.690	117	28732	17.65	ug/l	91
34) Benzene	6.044	78	89176	17.98	ug/l	98
35) Methacrylonitrile	4.928	41	17566	17.83	ug/l	94
36) 1,2-Dichloroethane	6.098	62	30450	17.98	ug/l #	87
37) Trichloroethene	7.129	130	21426	17.19	ug/l	93
38) Methylcyclohexane	7.385	83	31689	17.17	ug/l	99
39) 1,2-Dichloropropane	7.440	63	22280	17.99	ug/l	99
40) Dibromomethane	7.586	93	15181	17.61	ug/l	99
41) Bromodichloromethane	7.830	83	30773	17.88	ug/l	98
42) Vinyl Acetate	3.727	43	304356	88.56	ug/l	100

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43) Ethyl Acetate	4.721	43	31323	16.75	ug/l	96
44) Isopropyl Acetate	6.348	43	54637	17.71	ug/l	97
45) 1,4-Dioxane	7.659	88	9402	341.41	ug/l #	100
46) Methyl methacrylate	7.696	41	25978	18.17	ug/l	96
47) n-amyl Acetate	10.848	43	48770	19.01	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	32829	17.00	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	36350	17.53	ug/l	96
50) 1,1,2-Trichloroethane	9.159	97	22011	17.94	ug/l	96
51) Ethyl methacrylate	9.122	69	36545	18.47	ug/l	95
52) 1,3-Dichloropropane	9.311	76	39062	18.26	ug/l	99
53) Dibromochloromethane	9.525	129	21918	17.78	ug/l	98
54) 1,2-Dibromoethane	9.616	107	22577	17.92	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	96161	92.09	ug/l	99
56) Bromoform	10.805	173	14523	18.57	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	164891	88.33	ug/l	100
59) 2-Hexanone	9.433	43	125292	90.62	ug/l	99
61) Tetrachloroethene	9.275	164	18105	17.24	ug/l	89
62) Toluene	8.726	91	93147	17.57	ug/l	99
64) Chlorobenzene	10.079	112	58196	18.36	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	20469	17.70	ug/l	95
66) Ethyl Benzene	10.195	91	105424	18.08	ug/l	100
67) m/p-Xylenes	10.305	106	79809	36.11	ug/l	98
68) o-Xylene	10.646	106	39755	18.47	ug/l	98
69) Styrene	10.659	104	64743	17.98	ug/l	99
70) Isopropylbenzene	10.963	105	101874	18.02	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	34388	18.45	ug/l	95
72) 1,2,3-Trichloropropane	11.244	75	31789m	19.24	ug/l	
73) Bromobenzene	11.201	156	21892	18.28	ug/l	97
74) n-propylbenzene	11.305	91	120455	18.28	ug/l	99
75) 2-Chlorotoluene	11.366	91	73109	18.73	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	87591	18.55	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	11628	17.36	ug/l	92
78) 4-Chlorotoluene	11.457	91	81902	18.23	ug/l	100
79) tert-butylbenzene	11.719	119	83217	18.43	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	87672	18.58	ug/l	96
81) sec-Butylbenzene	11.896	105	104320	18.39	ug/l	100
82) p-Isopropyltoluene	12.012	119	87537	18.40	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	40598	17.88	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	40962	17.98	ug/l	99
85) n-Butylbenzene	12.335	91	78000	17.89	ug/l	98
86) Hexachloroethane	12.542	117	14116	17.86	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	40931	18.61	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7535	18.15	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	23692	17.58	ug/l	94
90) Hexachlorobutadiene	13.731	225	9104	17.46	ug/l	99
91) Naphthalene	13.780	128	94384	17.86	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	24147	18.05	ug/l	97

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

