

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021537.D
 Acq On : 26 Mar 2021 16:58
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

SAM
 3/30/2021 7:15:09 PM

Quant Time: Mar 27 04:53:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Mar 27 04:47:38 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	14253	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.835	114	77848	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	72478	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.035	65	39203	29.45	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.17%		
60) 4-Bromofluorobenzene	11.118	95	37267	29.24	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.47%		
63) Toluene-d8	8.694	98	99694	30.62	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.07%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	24794	18.70	ug/l	96
3) Chloromethane	1.317	50	22023	18.19	ug/l	99
4) Vinyl Chloride	1.393	62	19941	18.53	ug/l	98
5) Bromomethane	1.623	94	8673	20.04	ug/l	98
6) Chloroethane	1.705	64	11309	17.60	ug/l	99
7) Trichlorofluoromethane	1.917	101	29219	18.08	ug/l	99
8) Diethyl Ether	2.170	74	9300	17.50	ug/l	72
9) 1,1,2-Trichlorotrifluo...	2.364	101	16024	17.88	ug/l	97
10) 1,1-Dichloroethene	2.352	96	14503	17.09	ug/l	83
11) Methyl Iodide	2.487	142	12632	17.86	ug/l	86
12) Methyl Acetate	2.752	43	34209	19.71	ug/l #	85
13) Acrolein	2.276	56	13814	84.44	ug/l	99
14) Acrylonitrile	3.117	53	49455	91.42	ug/l	98
15) Acetone	2.423	58	13631	95.11	ug/l #	68
16) Carbon Disulfide	2.552	76	41843	17.63	ug/l	99
17) Allyl chloride	2.705	41	29629	17.99	ug/l	89
18) Methylene Chloride	2.834	84	18158	18.09	ug/l #	84
19) trans-1,2-Dichloroethene	3.140	96	16442	17.93	ug/l	85
20) Diisopropyl ether	3.829	45	58929	17.91	ug/l #	96
21) 1,1-Dichloroethane	3.670	63	31604	17.67	ug/l	97
22) cis-1,2-Dichloroethene	4.570	96	18763	17.69	ug/l	90
23) tert-Butyl Alcohol	3.023	59	20804	90.61	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	55582	17.88	ug/l #	86
25) Chloroform	5.182	83	33740	17.75	ug/l	95
26) Cyclohexane	5.547	56	27246	17.63	ug/l #	89
29) 1,1-Dichloropropene	5.776	75	24005	18.27	ug/l	97
30) 2-Butanone	4.641	43	72352	94.26	ug/l	93
31) 2,2-Dichloropropane	4.558	77	25566	17.45	ug/l	97
32) 1,1,1-Trichloroethane	5.464	97	30025	18.49	ug/l	95
33) Carbon Tetrachloride	5.752	117	26124	18.16	ug/l	96
34) Benzene	6.111	78	68428	18.26	ug/l	97
35) Methacrylonitrile	5.011	41	15751	18.66	ug/l	92
36) 1,2-Dichloroethane	6.164	62	30534	19.03	ug/l #	93
37) Trichloroethene	7.188	130	18174	18.68	ug/l	93
38) Methylcyclohexane	7.441	83	26253	18.04	ug/l	92
39) 1,2-Dichloropropane	7.494	63	18785	18.78	ug/l	96
40) Dibromomethane	7.635	93	13259	18.15	ug/l	93
41) Bromodichloromethane	7.876	83	27096	18.04	ug/l	98
42) Vinyl Acetate	3.788	43	236553	89.73	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.799	43	27416	18.75	ug/l	99
44) Isopropyl Acetate	6.417	43	44976	18.38	ug/l	91
45) 1,4-Dioxane	7.717	88	9265	380.58	ug/l #	86
46) Methyl methacrylate	7.747	41	24388	18.18	ug/l	82
47) n-amyl Acetate	10.883	43	37921	17.92	ug/l	93
48) t-1,3-Dichloropropene	9.023	75	26288	17.36	ug/l	98
49) cis-1,3-Dichloropropene	8.418	75	29031	17.90	ug/l #	86
50) 1,1,2-Trichloroethane	9.194	97	17856	18.21	ug/l	95
51) Ethyl methacrylate	9.159	69	25372m	17.70	ug/l	
52) 1,3-Dichloropropane	9.353	76	31166	18.59	ug/l	98
53) Dibromochloromethane	9.565	129	20133	18.01	ug/l	99
54) 1,2-Dibromoethane	9.653	107	19610	18.62	ug/l	99
55) 2-Chloroethyl vinyl ether	8.294	63	70672	88.64	ug/l	97
56) Bromoform	10.841	173	14009	17.74	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	144719	94.60	ug/l	89
59) 2-Hexanone	9.471	43	110055	95.78	ug/l	87
61) Tetrachloroethene	9.318	164	16594	18.86	ug/l	97
62) Toluene	8.765	91	74300	18.20	ug/l	100
64) Chlorobenzene	10.124	112	45568	18.31	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.206	131	17424	17.70	ug/l	98
66) Ethyl Benzene	10.235	91	83484	18.29	ug/l	99
67) m/p-Xylenes	10.341	106	60059	35.78	ug/l	91
68) o-Xylene	10.683	106	29270	18.05	ug/l	92
69) Styrene	10.694	104	48031	17.72	ug/l	93
70) Isopropylbenzene	11.000	105	79366	17.95	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.253	83	28416	18.77	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	26748m	18.47	ug/l	
73) Bromobenzene	11.236	156	18960	17.78	ug/l	91
74) n-propylbenzene	11.341	91	92083	17.74	ug/l	97
75) 2-Chlorotoluene	11.406	91	56460	17.88	ug/l	97
76) 1,3,5-Trimethylbenzene	11.489	105	69019	18.31	ug/l	95
77) t-1,4-Dichloro-2-butene	11.059	75	7807	16.89	ug/l	89
78) 4-Chlorotoluene	11.494	91	65784	17.86	ug/l	99
79) tert-butylbenzene	11.753	119	64824	18.08	ug/l	94
80) 1,2,4-Trimethylbenzene	11.789	105	68956	18.30	ug/l	98
81) sec-Butylbenzene	11.930	105	76461	18.37	ug/l	98
82) p-Isopropyltoluene	12.047	119	67973	17.89	ug/l	96
83) 1,3-Dichlorobenzene	12.006	146	33561	17.56	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	34719	18.15	ug/l	97
85) n-Butylbenzene	12.371	91	59337	17.53	ug/l	96
86) Hexachloroethane	12.583	117	11252	16.82	ug/l	89
87) 1,2-Dichlorobenzene	12.377	146	33075	17.57	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	6407	18.08	ug/l	81
89) 1,2,4-Trichlorobenzene	13.630	180	20538	17.35	ug/l	97
90) Hexachlorobutadiene	13.765	225	9742	19.46	ug/l	94
91) Naphthalene	13.812	128	69322	17.58	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	21840	18.45	ug/l	97

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

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