

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067019.D
 Acq On : 6 May 2021 19:12
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda

5/7/2021 6:23:24 PM

Quant Time: May 07 06:09:42 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 06:08:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.115	128	77973	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.518	114	391005	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	349475	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	206813	13.17	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	43.90%#		
60) 4-Bromofluorobenzene	12.353	95	147561	11.05	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	36.83%#		
63) Toluene-d8	10.030	98	538931	13.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	45.13%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.837	85	22757	2.83	ug/l	96
3) Chloromethane	2.035	50	40111	3.49	ug/l	95
4) Vinyl Chloride	2.161	62	37484	3.40	ug/l	93
5) Bromomethane	2.510	94	21463	3.52	ug/l	97
6) Chloroethane	2.652	64	23235	3.71	ug/l	97
7) Trichlorofluoromethane	2.969	101	47075	3.46	ug/l	93
8) Diethyl Ether	3.357	74	15902	3.66	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.690	101	23387	3.56	ug/l	91
10) 1,1-Dichloroethene	3.674	96	22150	3.57	ug/l	95
11) Methyl Iodide	3.886	142	27027	3.23	ug/l	100
12) Methyl Acetate	4.256	43	33070	3.87	ug/l	96
13) Acrolein	3.550	56	26192	19.07	ug/l	97
14) Acrylonitrile	4.902	53	58252	16.79	ug/l	97
15) Acetone	3.754	58	18650	18.68	ug/l	100
16) Carbon Disulfide	3.982	76	73078	3.54	ug/l	99
17) Allyl chloride	4.250	41	42387m	3.80	ug/l	
18) Methylene Chloride	4.468	84	33276	4.00	ug/l	96
19) trans-1,2-Dichloroethene	4.953	96	23822	3.50	ug/l	86
20) Diisopropyl ether	5.870	45	71445	3.15	ug/l	97
21) 1,1-Dichloroethane	5.760	63	53171	3.59	ug/l	97
22) cis-1,2-Dichloroethene	6.745	96	26145	3.35	ug/l #	84
23) tert-Butyl Alcohol	4.712	59	26350m	20.02	ug/l	
24) Methyl tert-Butyl Ether	4.959	73	67683	3.30	ug/l #	73
25) Chloroform	7.295	83	52645	3.73	ug/l	91
26) Cyclohexane	7.579	56	32331m	3.16	ug/l	
29) 1,1-Dichloropropene	7.718	75	30234	3.15	ug/l	97
30) 2-Butanone	6.755	43	74240	16.44	ug/l #	76
31) 2,2-Dichloropropane	6.734	77	43470	3.83	ug/l #	79
32) 1,1,1-Trichloroethane	7.488	97	45560	3.68	ug/l	99
33) Carbon Tetrachloride	7.699	117	39352	3.66	ug/l	98
34) Benzene	7.970	78	110442	3.57	ug/l #	71
35) Methacrylonitrile	7.107	41	17055m	4.36	ug/l	
36) 1,2-Dichloroethane	8.054	62	43445	3.76	ug/l #	77
37) Trichloroethene	8.770	130	23734	3.56	ug/l	97
38) Methylcyclohexane	9.016	83	31155	3.37	ug/l	99
39) 1,2-Dichloropropane	9.051	63	31342	3.62	ug/l	93
40) Dibromomethane	9.145	93	19733	3.77	ug/l	99
41) Bromodichloromethane	9.338	83	41320	3.78	ug/l	92
42) Vinyl Acetate	5.809	43	317069m	16.00	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.849	43	43875m	4.45	ug/l	
44) Isopropyl Acetate	8.096	43	55190	3.44	ug/l #	91
45) 1,4-Dioxane	9.140	88	6175	61.43	ug/l #	87
46) Methyl methacrylate	9.142	41	21585	3.26	ug/l	99
48) t-1,3-Dichloropropene	10.328	75	37519	3.33	ug/l	91
49) cis-1,3-Dichloropropene	9.781	75	42380	3.39	ug/l	95
50) 1,1,2-Trichloroethane	10.505	97	26405	3.61	ug/l	96
51) Ethyl methacrylate	10.379	69	25870m	2.80	ug/l	
52) 1,3-Dichloropropane	10.650	76	44748	3.56	ug/l	99
53) Dibromochloromethane	10.843	129	28231	3.53	ug/l	99
54) 1,2-Dibromoethane	10.950	107	22698	3.22	ug/l	95
55) 2-Chloroethyl vinyl ether	9.639	63	23078	13.50	ug/l	100
56) Bromoform	12.079	173	16643	3.27	ug/l #	98
58) 4-Methyl-2-Pentanone	9.923	43	146830	16.00	ug/l	100
59) 2-Hexanone	10.703	43	63088	11.77	ug/l	92
61) Tetrachloroethene	10.572	164	20918	3.78	ug/l	99
62) Toluene	10.095	91	110168	3.69	ug/l	99
64) Chlorobenzene	11.376	112	62734	3.57	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.452	131	26157	3.79	ug/l	95
66) Ethyl Benzene	11.460	91	95838	3.15	ug/l	99
67) m/p-Xylenes	11.570	106	69453	6.12	ug/l	94
68) o-Xylene	11.897	106	34378	3.11	ug/l	96
69) Styrene	11.924	104	47017	2.73	ug/l	96
70) Isopropylbenzene	12.197	105	87149	3.01	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.452	83	35296	3.19	ug/l	94
72) 1,2,3-Trichloropropane	12.508	75	23855	2.48	ug/l	70
73) Bromobenzene	12.476	156	22590	3.19	ug/l	95
74) n-propylbenzene	12.543	91	90567	2.70	ug/l	99
75) 2-Chlorotoluene	12.624	91	57671	2.60	ug/l	88
76) 1,3,5-Trimethylbenzene	12.683	105	75330	2.91	ug/l	97
77) t-1,4-Dichloro-2-butene	12.280	75	3289m	1.59	ug/l	
78) 4-Chlorotoluene	12.728	91	35180	1.71	ug/l	80
79) tert-butylbenzene	12.940	119	66949	3.09	ug/l	97
80) 1,2,4-Trimethylbenzene	12.991	105	62586	2.57	ug/l	94
81) sec-Butylbenzene	13.120	105	81166	2.85	ug/l	98
82) p-Isopropyltoluene	13.240	119	54357	2.41	ug/l	100
83) 1,3-Dichlorobenzene	13.238	146	31031	2.71	ug/l	97
84) 1,4-Dichlorobenzene	13.324	146	47832m	4.42	ug/l	
85) n-Butylbenzene	13.581	91	51604m	3.07	ug/l	
86) Hexachloroethane	13.817	117	17737	3.60	ug/l	97
87) 1,2-Dichlorobenzene	13.608	146	33610	2.77	ug/l	85
88) 1,2-Dibromo-3-Chloropr...	14.235	75	9000m	5.38	ug/l	
89) 1,2,4-Trichlorobenzene	14.868	180	17985m	3.20	ug/l	
90) Hexachlorobutadiene	14.952	225	14813	3.81	ug/l	95
91) Naphthalene	15.086	128	48768m	3.11	ug/l	
92) 1,2,3-Trichlorobenzene	15.265	180	20417m	3.36	ug/l	

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

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