

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066672.D
 Acq On : 20 Apr 2021 10:43
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda

4/21/2021 4:34:41 PM

Quant Time: Apr 20 11:44:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 11:43:24 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.111	128	50963	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.516	114	257063	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	242270	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.950	65	111691	25.54	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	85.13%#		
60) 4-Bromofluorobenzene	12.349	95	105163	28.52	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.07%		
63) Toluene-d8	10.029	98	338622	29.45	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.17%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.835	85	11672	3.53	ug/l	99
3) Chloromethane	2.034	50	18744	3.88	ug/l	99
4) Vinyl Chloride	2.163	62	16814	3.81	ug/l	99
5) Bromomethane	2.509	94	10369	3.58	ug/l	93
6) Chloroethane	2.656	64	10139	3.48	ug/l	93
7) Trichlorofluoromethane	2.970	101	18867	3.15	ug/l	98
8) Diethyl Ether	3.353	74	7956	3.45	ug/l	85
9) 1,1,2-Trichlorotrifluo...	3.694	101	12190	3.78	ug/l	85
10) 1,1-Dichloroethene	3.675	96	11708	3.72	ug/l	85
11) Methyl Iodide	3.884	142	16373	4.02	ug/l	96
12) Methyl Acetate	4.252	43	17736	2.90	ug/l	94
13) Acrolein	3.544	56	11215	15.76	ug/l	98
14) Acrylonitrile	4.898	53	33220	18.39	ug/l #	61
15) Acetone	3.758	58	9764	15.45	ug/l	88
16) Carbon Disulfide	3.981	76	35554	3.31	ug/l	99
17) Allyl chloride	4.247	41	22627	2.94	ug/l	93
18) Methylene Chloride	4.469	84	15593	4.11	ug/l	95
19) trans-1,2-Dichloroethene	4.949	96	12976	4.05	ug/l	98
20) Diisopropyl ether	5.858	45	45161	3.62	ug/l #	82
21) 1,1-Dichloroethane	5.754	63	26751	4.00	ug/l	98
22) cis-1,2-Dichloroethene	6.733	96	14645	4.14	ug/l	98
23) tert-Butyl Alcohol	4.700	59	13217m	21.54	ug/l	
24) Methyl tert-Butyl Ether	4.952	73	38016	3.83	ug/l	100
25) Chloroform	7.288	83	25584	3.91	ug/l	100
26) Cyclohexane	7.575	56	19868	3.35	ug/l #	98
29) 1,1-Dichloropropene	7.714	75	16877	3.51	ug/l	98
30) 2-Butanone	6.749	43	43578	16.33	ug/l	96
31) 2,2-Dichloropropane	6.733	77	21783	3.71	ug/l	99
32) 1,1,1-Trichloroethane	7.492	97	21345	3.67	ug/l	98
33) Carbon Tetrachloride	7.696	117	17510	3.59	ug/l	95
34) Benzene	7.966	78	58104	3.93	ug/l #	64
35) Methacrylonitrile	7.095	41	8212	3.06	ug/l	87
36) 1,2-Dichloroethane	8.050	62	20093	3.49	ug/l	100
37) Trichloroethene	8.768	130	13854	4.08	ug/l	96
38) Methylcyclohexane	9.015	83	19202	3.84	ug/l	95
39) 1,2-Dichloropropane	9.050	63	15731	3.77	ug/l	93
40) Dibromomethane	9.141	93	9701	3.75	ug/l	100
41) Bromodichloromethane	9.337	83	19902	3.57	ug/l	98
42) Vinyl Acetate	5.805	43	180831	17.01	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.843	43	18136	2.99	ug/l #	76
44) Isopropyl Acetate	8.095	43	31736	3.42	ug/l #	59
45) 1,4-Dioxane	9.133	88	4629	83.02	ug/l	93
46) Methyl methacrylate	9.136	41	12464	2.94	ug/l	89
48) t-1,3-Dichloropropene	10.324	75	20191	3.65	ug/l	96
49) cis-1,3-Dichloropropene	9.777	75	22763	3.83	ug/l	90
50) 1,1,2-Trichloroethane	10.504	97	14273	3.99	ug/l	97
51) Ethyl methacrylate	10.372	69	16230	3.53	ug/l	95
52) 1,3-Dichloropropane	10.648	76	23449	3.85	ug/l	99
53) Dibromochloromethane	10.841	129	14658	3.77	ug/l	99
54) 1,2-Dibromoethane	10.946	107	13438	3.82	ug/l	98
55) 2-Chloroethyl vinyl ether	9.632	63	11515	23.60	ug/l	94
56) Bromoform	12.078	173	10369	4.00	ug/l #	99
58) 4-Methyl-2-Pentanone	9.922	43	87424	16.32	ug/l	97
59) 2-Hexanone	10.697	43	45597	13.28	ug/l	96
61) Tetrachloroethene	10.573	164	12599	4.30	ug/l	97
62) Toluene	10.093	91	61306	4.15	ug/l	99
64) Chlorobenzene	11.375	112	36232	4.19	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.450	131	13869	3.99	ug/l	94
66) Ethyl Benzene	11.456	91	58825	3.86	ug/l	97
67) m/p-Xylenes	11.566	106	43209	7.62	ug/l	94
68) o-Xylene	11.893	106	21212	4.05	ug/l	100
69) Styrene	11.914	104	29906	3.50	ug/l	97
70) Isopropylbenzene	12.196	105	53857	3.88	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.451	83	20824	4.01	ug/l	94
72) 1,2,3-Trichloropropane	12.504	75	15158m	3.22	ug/l	
73) Bromobenzene	12.472	156	14756	4.30	ug/l	99
74) n-propylbenzene	12.536	91	59346	3.66	ug/l	99
75) 2-Chlorotoluene	12.620	91	35427	3.50	ug/l	95
76) 1,3,5-Trimethylbenzene	12.679	105	45034	3.83	ug/l	98
77) t-1,4-Dichloro-2-butene	12.258	75	3371m	3.11	ug/l	
78) 4-Chlorotoluene	12.724	91	32002	3.41	ug/l	92
79) tert-butylbenzene	12.939	119	38896	4.03	ug/l	96
80) 1,2,4-Trimethylbenzene	12.987	105	39961	3.63	ug/l	100
81) sec-Butylbenzene	13.118	105	46219	3.53	ug/l	98
82) p-Isopropyltoluene	13.236	119	37965	3.50	ug/l	97
83) 1,3-Dichlorobenzene	13.234	146	21654	3.69	ug/l	97
84) 1,4-Dichlorobenzene	13.317	146	17767	2.86	ug/l	98
85) n-Butylbenzene	13.566	91	29491	3.10	ug/l	95
86) Hexachloroethane	13.816	117	9982	3.83	ug/l	94
87) 1,2-Dichlorobenzene	13.604	146	22065	3.84	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.226	75	4505m	5.01	ug/l	
89) 1,2,4-Trichlorobenzene	14.859	180	12050	3.58	ug/l	96
90) Hexachlorobutadiene	14.950	225	8589	4.42	ug/l	96
91) Naphthalene	15.082	128	25586	2.83	ug/l	96
92) 1,2,3-Trichlorobenzene	15.259	180	11329	3.43	ug/l	98

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

