

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050821\
 Data File : VN067048.D
 Acq On : 7 May 2021 13:37
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/10/2021 2:24:06 PM

Quant Time: May 07 18:46:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 07:26:20 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.109	128	83803	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.518	114	443071	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.350	117	402325	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.952	65	214425	29.20	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.33%		
60) 4-Bromofluorobenzene	12.347	95	205132	30.65	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.17%		
63) Toluene-d8	10.027	98	605938	30.41	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.37%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.839	85	125223	21.84	ug/l	98
3) Chloromethane	2.038	50	171170	19.58	ug/l	99
4) Vinyl Chloride	2.164	62	168162	19.89	ug/l	99
5) Bromomethane	2.539	94	93382	19.80	ug/l	95
6) Chloroethane	2.671	64	97170	19.94	ug/l	94
7) Trichlorofluoromethane	2.979	101	202579	19.73	ug/l	98
8) Diethyl Ether	3.360	74	66248	19.10	ug/l	92
9) 1,1,2-Trichlorotrifluo...	3.701	101	98869	19.89	ug/l	98
10) 1,1-Dichloroethene	3.677	96	96710	20.27	ug/l	94
11) Methyl Iodide	3.886	142	91641	14.12	ug/l	98
12) Methyl Acetate	4.250	43	110090	16.24	ug/l	98
13) Acrolein	3.545	56	129816	117.15	ug/l	98
14) Acrylonitrile	4.897	53	230460	85.97	ug/l	97
15) Acetone	3.752	58	81330	104.52	ug/l	99
16) Carbon Disulfide	3.988	76	315565	20.00	ug/l	98
17) Allyl chloride	4.248	41	182314	19.57	ug/l	99
18) Methylene Chloride	4.468	84	118169	18.25	ug/l	98
19) trans-1,2-Dichloroethene	4.953	96	105102	20.01	ug/l	99
20) Diisopropyl ether	5.862	45	335256	19.49	ug/l	96
21) 1,1-Dichloroethane	5.760	63	221761	19.39	ug/l	100
22) cis-1,2-Dichloroethene	6.742	96	117998	19.59	ug/l	100
23) tert-Butyl Alcohol	4.693	59	79339	74.30	ug/l #	100
24) Methyl tert-Butyl Ether	4.956	73	303915	19.22	ug/l	99
25) Chloroform	7.286	83	212002	19.22	ug/l	96
26) Cyclohexane	7.576	56	162373	20.44	ug/l #	97
29) 1,1-Dichloropropene	7.718	75	156851	20.25	ug/l	99
30) 2-Butanone	6.745	43	321089	86.42	ug/l	100
31) 2,2-Dichloropropane	6.731	77	197710	21.14	ug/l	99
32) 1,1,1-Trichloroethane	7.490	97	186423	18.53	ug/l	99
33) Carbon Tetrachloride	7.697	117	164017	18.73	ug/l	97
34) Benzene	7.968	78	472847	18.82	ug/l	96
35) Methacrylonitrile	7.085	41	57984	16.69	ug/l	96
36) 1,2-Dichloroethane	8.051	62	172196	18.39	ug/l	100
37) Trichloroethene	8.770	130	106959	19.67	ug/l	99
38) Methylcyclohexane	9.014	83	160286	20.78	ug/l	99
39) 1,2-Dichloropropane	9.051	63	129146	18.53	ug/l	99
40) Dibromomethane	9.142	93	76288	17.70	ug/l	98
41) Bromodichloromethane	9.338	83	167225	18.38	ug/l	97
42) Vinyl Acetate	5.806	43	1476214	92.19	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.841	43	141567	16.17	ug/l	98
44) Isopropyl Acetate	8.094	43	230070	17.30	ug/l	98
45) 1,4-Dioxane	9.134	88	22930	269.91	ug/l	97
46) Methyl methacrylate	9.137	41	94543	16.89	ug/l	96
48) t-1,3-Dichloropropene	10.322	75	178627	19.15	ug/l	93
49) cis-1,3-Dichloropropene	9.775	75	199352	19.50	ug/l	98
50) 1,1,2-Trichloroethane	10.502	97	106711	17.90	ug/l	98
51) Ethyl methacrylate	10.373	69	137037	17.59	ug/l	97
52) 1,3-Dichloropropane	10.647	76	189000	18.26	ug/l	100
53) Dibromochloromethane	10.843	129	118912	18.15	ug/l	100
54) 1,2-Dibromoethane	10.947	107	100869	17.70	ug/l	98
55) 2-Chloroethyl vinyl ether	9.633	63	179109	120.07	ug/l	98
56) Bromoform	12.076	173	73589	16.91	ug/l #	99
58) 4-Methyl-2-Pentanone	9.920	43	665132	88.31	ug/l	99
59) 2-Hexanone	10.695	43	390676	87.95	ug/l	99
61) Tetrachloroethene	10.572	164	93464	20.50	ug/l	98
62) Toluene	10.092	91	485304	19.56	ug/l	99
64) Chlorobenzene	11.377	112	280319	19.34	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.452	131	108269	18.72	ug/l	98
66) Ethyl Benzene	11.454	91	510247	20.25	ug/l	100
67) m/p-Xylenes	11.564	106	383711	40.56	ug/l	98
68) o-Xylene	11.891	106	178643	19.13	ug/l	99
69) Styrene	11.910	104	291999	20.35	ug/l	99
70) Isopropylbenzene	12.195	105	487015	20.11	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.449	83	151433	17.18	ug/l	99
72) 1,2,3-Trichloropropane	12.500	75	143752m	17.99	ug/l	
73) Bromobenzene	12.471	156	111325	19.04	ug/l	98
74) n-propylbenzene	12.535	91	598326	21.56	ug/l	99
75) 2-Chlorotoluene	12.618	91	362900	20.34	ug/l	98
76) 1,3,5-Trimethylbenzene	12.677	105	435620	20.35	ug/l	99
77) t-1,4-Dichloro-2-butene	12.251	75	31876	17.42	ug/l	92
78) 4-Chlorotoluene	12.720	91	359825	22.48	ug/l	100
79) tert-butylbenzene	12.937	119	361046	19.91	ug/l	99
80) 1,2,4-Trimethylbenzene	12.986	105	413189	20.59	ug/l	99
81) sec-Butylbenzene	13.117	105	503407	21.00	ug/l	99
82) p-Isopropyltoluene	13.235	119	424326	22.25	ug/l	100
83) 1,3-Dichlorobenzene	13.230	146	208496	21.49	ug/l	99
84) 1,4-Dichlorobenzene	13.310	146	194146	19.32	ug/l	95
85) n-Butylbenzene	13.562	91	357458	23.28	ug/l	97
86) Hexachloroethane	13.817	117	75720	17.93	ug/l	98
87) 1,2-Dichlorobenzene	13.600	146	205999	20.47	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.227	75	25573	14.97	ug/l	98
89) 1,2,4-Trichlorobenzene	14.858	180	118356	23.31	ug/l	98
90) Hexachlorobutadiene	14.949	225	74302	21.68	ug/l	95
91) Naphthalene	15.075	128	295385	21.22	ug/l	99
92) 1,2,3-Trichlorobenzene	15.252	180	115711	21.76	ug/l	98

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

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