

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073602.D
 Acq On : 27 Jul 2022 12:43
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 27 13:12:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 13:09:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	58747	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	321302	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	313708	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	152138	27.363	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.200%		
60) 4-Bromofluorobenzene	12.674	95	173856	29.287	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.633%		
63) Toluene-d8	10.381	98	514709	29.912	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.700%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	421777	94.827	ug/l	99
3) Chloromethane	2.269	50	529616	114.730	ug/l	98
4) Vinyl Chloride	2.405	62	678272	153.266	ug/l	99
5) Bromomethane	2.781	94	360050	207.720	ug/l	99
6) Chloroethane	2.952	64	436761	155.570	ug/l	99
7) Trichlorofluoromethane	3.310	101	653682	93.554	ug/l	99
8) Diethyl Ether	3.763	74	274858	97.598	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.140	101	396356	101.221	ug/l #	66
10) 1,1-Dichloroethene	4.110	96	392770	99.570	ug/l	98
11) Methyl Iodide	4.346	142	503488	128.101	ug/l	88
12) Methyl Acetate	4.775	43	660112	82.639	ug/l	99
13) Acrolein	3.975	56	584687	654.888	ug/l	97
14) Acrylonitrile	5.469	53	1565868	497.428	ug/l	98
15) Acetone	4.216	58	413374	480.546	ug/l	87
16) Carbon Disulfide	4.457	76	1071676	101.575	ug/l	98
17) Allyl chloride	4.757	41	657937	89.298	ug/l	86
18) Methylene Chloride	5.010	84	472214	98.990	ug/l	99
19) trans-1,2-Dichloroethene	5.510	96	436075	103.535	ug/l	97
20) Diisopropyl ether	6.410	45	1442670	92.503	ug/l	94
21) 1,1-Dichloroethane	6.304	63	825705	98.934	ug/l	97
22) cis-1,2-Dichloroethene	7.245	96	534099	106.741	ug/l	94
23) tert-Butyl Alcohol	5.293	59	559263	445.866	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	1426035	98.087	ug/l	92
25) Chloroform	7.745	83	854501	101.917	ug/l	99
26) Cyclohexane	8.022	56	739651	101.882	ug/l #	99
29) 1,1-Dichloropropene	8.151	75	638004	108.637	ug/l	99
30) 2-Butanone	7.257	43	2157004	488.796	ug/l	99
31) 2,2-Dichloropropane	7.245	77	648385	185.567	ug/l	99
32) 1,1,1-Trichloroethane	7.939	97	727065	101.726	ug/l	99
33) Carbon Tetrachloride	8.134	117	628138	104.225	ug/l	99
34) Benzene	8.387	78	2007559	109.232	ug/l	97
35) Methacrylonitrile	7.563	41	356540	90.642	ug/l	96
36) 1,2-Dichloroethane	8.463	62	648922	97.022	ug/l #	95
37) Trichloroethene	9.151	130	508190	111.383	ug/l	96
38) Methylcyclohexane	9.392	83	817705	117.621	ug/l	98
39) 1,2-Dichloropropane	9.428	63	504065	106.145	ug/l	99
40) Dibromomethane	9.516	93	343137	107.026	ug/l	89
41) Bromodichloromethane	9.698	83	674946	104.663	ug/l	95
42) Vinyl Acetate	6.351	43	6463619	478.911	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.340	43	827049	101.889	ug/l	97
44) Isopropyl Acetate	8.492	43	1183268	93.389	ug/l	95
45) 1,4-Dioxane	9.504	88	282884	2373.034	ug/l	97
46) Methyl methacrylate	9.498	41	531117	92.324	ug/l	85
47) n-amyl Acetate	12.327	43	1011948	99.984	ug/l	98
48) t-1,3-Dichloropropene	10.657	75	750378	123.556	ug/l	99
49) cis-1,3-Dichloropropene	10.128	75	816177	122.807	ug/l #	88
50) 1,1,2-Trichloroethane	10.839	97	520128	111.782	ug/l	99
51) Ethyl methacrylate	10.704	69	840562	109.597	ug/l	86
52) 1,3-Dichloropropane	10.986	76	879687	109.926	ug/l	100
53) Dibromochloromethane	11.180	129	557611	114.990	ug/l	99
54) 1,2-Dibromoethane	11.286	107	549613	112.942	ug/l	96
55) 2-Chloroethyl vinyl ether	9.981	63	1924076	583.658	ug/l	100
56) Bromoform	12.398	173	456055	127.709	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	4254552	476.197	ug/l	95
59) 2-Hexanone	11.028	43	3293329	482.098	ug/l	93
61) Tetrachloroethene	10.916	164	494634	117.187	ug/l	91
62) Toluene	10.445	91	2254675	107.181	ug/l	98
64) Chlorobenzene	11.710	112	1383650	109.900	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	521106	109.289	ug/l	99
66) Ethyl Benzene	11.786	91	2542382	110.483	ug/l	98
67) m/p-Xylenes	11.892	106	1955362	225.625	ug/l	97
68) o-Xylene	12.222	106	977682	112.661	ug/l	97
69) Styrene	12.233	104	1639284	116.883	ug/l	96
70) Isopropylbenzene	12.522	105	2505852	112.444	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	827301	106.511	ug/l	98
72) 1,2,3-Trichloropropane	12.822	75	738479m	121.158	ug/l	
73) Bromobenzene	12.798	156	622162	118.466	ug/l	97
74) n-propylbenzene	12.863	91	2938703	115.329	ug/l	98
75) 2-Chlorotoluene	12.945	91	1716834	108.600	ug/l	100
76) 1,3,5-Trimethylbenzene	12.998	105	2082142	111.681	ug/l	95
77) t-1,4-Dichloro-2-butene	12.569	75	284267	144.591	ug/l	92
78) 4-Chlorotoluene	13.045	91	1679292	110.612	ug/l	100
79) tert-butylbenzene	13.263	119	1841137	112.964	ug/l	94
80) 1,2,4-Trimethylbenzene	13.310	105	2090821m	114.370	ug/l	
81) sec-Butylbenzene	13.439	105	2651789	119.032	ug/l	97
82) p-Isopropyltoluene	13.557	119	2260525	125.085	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	1145838	123.170	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	1125671	121.605	ug/l	97
85) n-Butylbenzene	13.880	91	1883854	127.806	ug/l	96
86) Hexachloroethane	14.151	117	395910	112.412	ug/l	79
87) 1,2-Dichlorobenzene	13.927	146	1133743	116.364	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.545	75	188757	98.404	ug/l #	74
89) 1,2,4-Trichlorobenzene	15.198	180	705177	138.755	ug/l	96
90) Hexachlorobutadiene	15.304	225	328681	150.930	ug/l	98
91) Naphthalene	15.433	128	2339461	121.677	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	707159	135.626	ug/l	98

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

