

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092722\
 Data File : VN074628.D
 Acq On : 27 Sep 2022 14:49
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN092722

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/28/2022
 Supervised By : Mahesh Dadoda 09/28/2022

Quant Time: Sep 28 07:55:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N092722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 28 07:48:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.492	128	130842	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.828	114	746727	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.622	117	679196	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.286	65	362754	29.404	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.000%	
60) 4-Bromofluorobenzene	12.604	95	352782	26.740	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	89.133%	
63) Toluene-d8	10.310	98	1161534	30.319	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.999	85	149375	19.426	ug/l	94
3) Chloromethane	2.216	50	241835	21.417	ug/l	95
4) Vinyl Chloride	2.357	62	304252	21.046	ug/l	91
5) Bromomethane	2.734	94	219909	23.601	ug/l	99
6) Chloroethane	2.899	64	206268	20.186	ug/l	95
7) Trichlorofluoromethane	3.246	101	262444	19.546	ug/l	97
8) Diethyl Ether	3.687	74	140758	19.874	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.046	101	171187	19.887	ug/l	74
10) 1,1-Dichloroethene	4.022	96	170004	19.153	ug/l	87
11) Methyl Iodide	4.251	142	215753	18.979	ug/l	95
12) Methyl Acetate	4.663	43	381266	20.064	ug/l	95
13) Acrolein	3.893	56	149835	96.874	ug/l	99
14) Acrylonitrile	5.357	53	785090	101.925	ug/l	99
15) Acetone	4.116	58	199594	98.658	ug/l	98
16) Carbon Disulfide	4.357	76	491760	19.714	ug/l	97
17) Allyl chloride	4.651	41	372374	20.574	ug/l	92
18) Methylene Chloride	4.893	84	237322	20.974	ug/l	99
19) trans-1,2-Dichloroethene	5.404	96	196205	19.560	ug/l	98
20) Diisopropyl ether	6.304	45	788714	19.922	ug/l	96
21) 1,1-Dichloroethane	6.192	63	404648	20.238	ug/l	99
22) cis-1,2-Dichloroethene	7.151	96	240416	19.864	ug/l	98
23) tert-Butyl Alcohol	5.169	59	309543	97.596	ug/l #	100
24) Methyl tert-Butyl Ether	5.422	73	732300	19.911	ug/l	100
25) Chloroform	7.657	83	381786	19.262	ug/l	97
26) Cyclohexane	7.934	56	338143	18.807	ug/l #	98
29) 1,1-Dichloropropene	8.069	75	277990	19.931	ug/l	97
30) 2-Butanone	7.163	43	1089439	102.382	ug/l	99
31) 2,2-Dichloropropane	7.151	77	313869	18.851	ug/l	99
32) 1,1,1-Trichloroethane	7.851	97	320440	19.449	ug/l	98
33) Carbon Tetrachloride	8.051	117	264776	19.214	ug/l	90
34) Benzene	8.304	78	918308	19.889	ug/l	97
35) Methacrylonitrile	7.469	41	179818	17.762	ug/l	97
36) 1,2-Dichloroethane	8.381	62	301264	19.982	ug/l	98
37) Trichloroethene	9.075	130	195403	19.930	ug/l	92
38) Methylcyclohexane	9.316	83	330559	18.312	ug/l	99
39) 1,2-Dichloropropane	9.351	63	248524	20.330	ug/l	94
40) Dibromomethane	9.439	93	159376	20.205	ug/l	99
41) Bromodichloromethane	9.628	83	312467	19.928	ug/l #	97
42) Vinyl Acetate	6.240	43	3563306	103.017	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.239	43	454283	22.043	ug/l	93
44) Isopropyl Acetate	8.416	43	684214	20.444	ug/l	100
45) 1,4-Dioxane	9.428	88	115208	403.394	ug/l	98
46) Methyl methacrylate	9.428	41	283953	20.371	ug/l	98
47) n-amyl Acetate	12.269	43	585953	19.129	ug/l	99
48) t-1,3-Dichloropropene	10.592	75	358830	18.851	ug/l	99
49) cis-1,3-Dichloropropene	10.057	75	380213	19.195	ug/l	98
50) 1,1,2-Trichloroethane	10.775	97	225735	19.684	ug/l	97
51) Ethyl methacrylate	10.639	69	405296	18.848	ug/l	98
52) 1,3-Dichloropropane	10.916	76	407720	20.060	ug/l	97
53) Dibromochloromethane	11.110	129	221889	18.308	ug/l	100
54) 1,2-Dibromoethane	11.216	107	232878	19.630	ug/l	97
55) 2-Chloroethyl vinyl ether	9.910	63	861854	103.280	ug/l	99
56) Bromoform	12.333	173	163552	17.264	ug/l	98
58) 4-Methyl-2-Pentanone	10.204	43	2232965	105.939	ug/l	99
59) 2-Hexanone	10.963	43	1689876	103.513	ug/l	99
61) Tetrachloroethene	10.845	164	143918	18.995	ug/l	95
62) Toluene	10.375	91	958391	19.270	ug/l	100
64) Chlorobenzene	11.645	112	552580	19.390	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.716	131	210562	19.665	ug/l	97
66) Ethyl Benzene	11.722	91	1018783	19.290	ug/l	99
67) m/p-Xylenes	11.827	106	776115	36.601	ug/l	97
68) o-Xylene	12.157	106	387409	17.944	ug/l	98
69) Styrene	12.169	104	641877	17.672	ug/l	99
70) Isopropylbenzene	12.457	105	962479	17.474	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.704	83	395300	20.217	ug/l	99
72) 1,2,3-Trichloropropane	12.757	75	271369m	18.334	ug/l	
73) Bromobenzene	12.733	156	201969	18.249	ug/l	92
74) n-propylbenzene	12.798	91	1126862	18.156	ug/l	98
75) 2-Chlorotoluene	12.880	91	666238	17.696	ug/l	99
76) 1,3,5-Trimethylbenzene	12.939	105	774169	16.669	ug/l	97
77) t-1,4-Dichloro-2-butene	12.504	75	143094	18.665	ug/l	90
78) 4-Chlorotoluene	12.980	91	651484	17.267	ug/l	99
79) tert-butylbenzene	13.198	119	682812	16.804	ug/l	98
80) 1,2,4-Trimethylbenzene	13.245	105	779515	16.994	ug/l	100
81) sec-Butylbenzene	13.380	105	975420	16.958	ug/l	99
82) p-Isopropyltoluene	13.492	119	771775	16.310	ug/l	99
83) 1,3-Dichlorobenzene	13.492	146	381250	16.762	ug/l	99
84) 1,4-Dichlorobenzene	13.568	146	366739	16.212	ug/l	98
85) n-Butylbenzene	13.821	91	660601	16.363	ug/l	99
86) Hexachloroethane	14.086	117	159972	17.551	ug/l	97
87) 1,2-Dichlorobenzene	13.863	146	388815	16.712	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.474	75	82051	20.038	ug/l	93
89) 1,2,4-Trichlorobenzene	15.133	180	180876	18.640	ug/l	97
90) Hexachlorobutadiene	15.239	225	76935	17.995	ug/l	96
91) Naphthalene	15.362	128	799162	19.631	ug/l	100
92) 1,2,3-Trichlorobenzene	15.551	180	185091	19.025	ug/l	98

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

