

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079304.D
 Acq On : 19 Sep 2023 17:01
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Sep 20 03:52:42 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	40888	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	225265	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	227036	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	101600	33.073	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.233%#
60) 4-Bromofluorobenzene	12.853	95	91106	27.234	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.767%
63) Toluene-d8	10.571	98	300129	28.287	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	45253	19.844	ug/l	99
3) Chloromethane	2.365	50	54763	23.949	ug/l	100
4) Vinyl Chloride	2.518	62	61898	27.360	ug/l	95
5) Bromomethane	2.953	94	34979	25.192	ug/l	96
6) Chloroethane	3.118	64	42963	31.009	ug/l #	85
7) Trichlorofluoromethane	3.500	101	76653	28.460	ug/l	95
8) Diethyl Ether	3.959	74	27286	27.630	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.377	101	43106	29.042	ug/l	93
10) 1,1-Dichloroethene	4.342	96	38509	26.777	ug/l	97
11) Methyl Iodide	4.595	142	39883	22.016	ug/l	96
12) Methyl Acetate	5.024	43	90422	26.979	ug/l	99
13) Acrolein	4.183	56	29059	95.198	ug/l	98
14) Acrylonitrile	5.724	53	115493	117.457	ug/l	98
15) Acetone	4.436	58	37660	146.822	ug/l	97
16) Carbon Disulfide	4.712	76	109745	25.825	ug/l	98
17) Allyl chloride	5.024	41	60501	26.180	ug/l	96
18) Methylene Chloride	5.277	84	51834	26.872	ug/l	88
19) trans-1,2-Dichloroethene	5.783	96	43867m	24.379	ug/l	
20) Diisopropyl ether	6.671	45	157464	22.824	ug/l #	87
21) 1,1-Dichloroethane	6.571	63	91833	22.722	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	52971	18.824	ug/l	95
23) tert-Butyl Alcohol	5.530	59	32126	84.931	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	138388	24.382	ug/l	94
25) Chloroform	7.965	83	96010	19.700	ug/l	98
26) Cyclohexane	8.265	56	66286	18.086	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	67264	18.624	ug/l	97
30) 2-Butanone	7.488	43	163600	90.058	ug/l	97
31) 2,2-Dichloropropane	7.488	77	74541	20.691	ug/l	99
32) 1,1,1-Trichloroethane	8.171	97	79359	18.651	ug/l	96
33) Carbon Tetrachloride	8.365	117	67055	18.345	ug/l	99
34) Benzene	8.612	78	202857	17.678	ug/l	98
35) Methacrylonitrile	7.777	41	35872	18.340	ug/l	90
36) 1,2-Dichloroethane	8.677	62	73021	19.295	ug/l #	88
37) Trichloroethene	9.353	130	46191	17.030	ug/l	93
38) Methylcyclohexane	9.606	83	64234	17.790	ug/l	97
39) 1,2-Dichloropropane	9.624	63	52359	17.689	ug/l	90
40) Dibromomethane	9.712	93	36151	18.520	ug/l	93
41) Bromodichloromethane	9.888	83	75802	19.480	ug/l #	94
42) Vinyl Acetate	6.606	43	448283	103.908	ug/l	97

09/20/2023
 Supervised By :Mahesh
 adoda

09/20/2023

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.559	43	64169	18.599	ug/l	98	09/20/2023
44) Isopropyl Acetate	8.694	43	106143	17.102	ug/l	99	Supervised By :Mahesh
45) 1,4-Dioxane	9.694	88	16299	263.833	ug/l #	94	Dadoda
46) Methyl methacrylate	9.682	41	48517	17.497	ug/l	91	
47) n-amyl Acetate	12.500	43	87112	19.958	ug/l	100	
48) t-1,3-Dichloropropene	10.841	75	76123	18.082	ug/l	91	
49) cis-1,3-Dichloropropene	10.318	75	80477	18.327	ug/l	93	09/20/2023
50) 1,1,2-Trichloroethane	11.018	97	53775	19.637	ug/l	93	
51) Ethyl methacrylate	10.876	69	70970	16.781	ug/l #	88	
52) 1,3-Dichloropropane	11.165	76	91758	19.627	ug/l	99	
53) Dibromochloromethane	11.359	129	55373	19.279	ug/l	96	
54) 1,2-Dibromoethane	11.476	107	52543	18.895	ug/l	97	
55) 2-Chloroethyl vinyl ether	10.165	63	123454	82.153	ug/l	99	
56) Bromoform	12.582	173	36229	18.102	ug/l	97	
58) 4-Methyl-2-Pentanone	10.447	43	327068	78.504	ug/l	94	
59) 2-Hexanone	11.200	43	248847	85.049	ug/l	94	
61) Tetrachloroethene	11.106	164	44639	18.070	ug/l	96	
62) Toluene	10.635	91	216983	16.414	ug/l	99	
64) Chlorobenzene	11.894	112	139455	18.083	ug/l	96	
65) 1,1,1,2-Tetrachloroethane	11.965	131	53864	18.244	ug/l	98	
66) Ethyl Benzene	11.965	91	250504	18.821	ug/l	96	
67) m/p-Xylenes	12.076	106	188619	37.662	ug/l	99	
68) o-Xylene	12.400	106	88941	18.415	ug/l	99	
69) Styrene	12.418	104	145994	18.951	ug/l	98	
70) Isopropylbenzene	12.700	105	212434	17.304	ug/l	98	
71) 1,1,2,2-Tetrachloroethane	12.941	83	72794	15.850	ug/l	97	
72) 1,2,3-Trichloropropane	13.000	75	57765m	14.949	ug/l		
73) Bromobenzene	12.982	156	47838	15.599	ug/l	97	
74) n-propylbenzene	13.041	91	250033	17.875	ug/l	99	
75) 2-Chlorotoluene	13.129	91	152407	16.992	ug/l	99	
76) 1,3,5-Trimethylbenzene	13.176	105	179733	17.706	ug/l	99	
77) t-1,4-Dichloro-2-butene	12.741	75	19509	14.340	ug/l	89	
78) 4-Chlorotoluene	13.223	91	144239	17.031	ug/l	100	
79) tert-butylbenzene	13.441	119	141551	16.989	ug/l	97	
80) 1,2,4-Trimethylbenzene	13.488	105	172036	17.746	ug/l	99	
81) sec-Butylbenzene	13.617	105	207988	18.244	ug/l	100	
82) p-Isopropyltoluene	13.735	119	167306	18.579	ug/l	98	
83) 1,3-Dichlorobenzene	13.735	146	83354	17.115	ug/l	99	
84) 1,4-Dichlorobenzene	13.817	146	79050	17.306	ug/l	99	
85) n-Butylbenzene	14.059	91	139775	20.380	ug/l	97	
86) Hexachloroethane	14.335	117	32805	18.400	ug/l	87	
87) 1,2-Dichlorobenzene	14.112	146	79988	16.642	ug/l	98	
88) 1,2-Dibromo-3-Chloropr...	14.729	75	11118	14.322	ug/l	90	
89) 1,2,4-Trichlorobenzene	15.847	180	28419	13.818	ug/l	96	
90) Hexachlorobutadiene	15.506	225	21394	17.125	ug/l	93	
91) Naphthalene	15.647	128	60627	11.281	ug/l	99	
92) 1,2,3-Trichlorobenzene	15.847	180	28419	13.818	ug/l	96	

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

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