

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061122\
 Data File : VN072780.D
 Acq On : 11 Jun 2022 10:43
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2022

Supervised By :Mahesh Dadoda 06/13/2022

Quant Time: Jun 13 01:17:58 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Mon Jun 06 14:10:15 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	32943	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	206487	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	184468	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	122336	32.562	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.533%			
60) 4-Bromofluorobenzene	12.727	95	107701	28.387	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.633%			
63) Toluene-d8	10.439	98	314185	30.746	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.500%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.069	85	47626	19.299	ug/l	97
3) Chloromethane	2.299	50	52094	19.412	ug/l	95
4) Vinyl Chloride	2.440	62	52890	21.858	ug/l	95
5) Bromomethane	2.846	94	24978	19.962	ug/l	94
6) Chloroethane	3.016	64	41893	25.966	ug/l	97
7) Trichlorofluoromethane	3.369	101	88572	20.248	ug/l	100
8) Diethyl Ether	3.816	74	35376	20.859	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.204	101	49085	21.300	ug/l	77
10) 1,1-Dichloroethene	4.175	96	41966	19.281	ug/l	83
11) Methyl Iodide	4.416	142	34387	15.780	ug/l	88
12) Methyl Acetate	4.851	43	95657	21.301	ug/l	96
13) Acrolein	4.034	56	42632	108.453	ug/l	100
14) Acrylonitrile	5.545	53	192241	105.022	ug/l	99
15) Acetone	4.281	58	51110	103.126	ug/l	100
16) Carbon Disulfide	4.528	76	87725	15.988	ug/l	99
17) Allyl chloride	4.834	41	95534	20.318	ug/l	88
18) Methylene Chloride	5.093	84	54886	20.083	ug/l #	84
19) trans-1,2-Dichloroethene	5.598	96	46310	19.661	ug/l	94
20) Diisopropyl ether	6.487	45	212191	22.787	ug/l #	96
21) 1,1-Dichloroethane	6.375	63	108235	20.921	ug/l	99
22) cis-1,2-Dichloroethene	7.316	96	61387	20.807	ug/l	88
23) tert-Butyl Alcohol	5.357	59	79807	93.689	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	201256	20.792	ug/l	95
25) Chloroform	7.810	83	115381	21.711	ug/l	98
26) Cyclohexane	8.086	56	85832	19.899	ug/l #	93
29) 1,1-Dichloropropene	8.216	75	76928	19.544	ug/l	94
30) 2-Butanone	7.328	43	288513	101.283	ug/l	92
31) 2,2-Dichloropropane	7.316	77	94195	17.679	ug/l	94
32) 1,1,1-Trichloroethane	8.010	97	98875	19.198	ug/l	95
33) Carbon Tetrachloride	8.204	117	80883	18.211	ug/l	97
34) Benzene	8.457	78	231332	19.866	ug/l	97
35) Methacrylonitrile	7.634	41	52840	18.918	ug/l	94
36) 1,2-Dichloroethane	8.522	62	100174	20.362	ug/l	98
37) Trichloroethene	9.210	130	54245	19.323	ug/l	93
38) Methylcyclohexane	9.457	83	89191	18.981	ug/l	91
39) 1,2-Dichloropropane	9.486	63	64019	20.011	ug/l	94
40) Dibromomethane	9.575	93	44372	20.205	ug/l	93
41) Bromodichloromethane	9.757	83	92562	19.704	ug/l #	94
42) Vinyl Acetate	6.428	43	935792	100.908	ug/l	98

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Reviewed By : John Carlone 06/13/2022

Supervised By : Mahesh Dadoda 06/13/2022

Quant Time: Jun 13 01:17:58 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Mon Jun 06 14:10:15 2022

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	108260	19.836	ug/l #	85
44) Isopropyl Acetate	8.557	43	183310	20.248	ug/l	97
45) 1,4-Dioxane	9.563	88	28104	377.758	ug/l #	82
46) Methyl methacrylate	9.557	41	86477	21.363	ug/l	83
47) n-amyl Acetate	12.386	43	129836	18.732	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	100118	18.671	ug/l	95
49) cis-1,3-Dichloropropene	10.186	75	105976	19.463	ug/l	95
50) 1,1,2-Trichloroethane	10.898	97	64586	20.801	ug/l	96
51) Ethyl methacrylate	10.757	69	111489	19.823	ug/l	94
52) 1,3-Dichloropropane	11.039	76	115632	20.927	ug/l	99
53) Dibromochloromethane	11.233	129	66990	19.555	ug/l	99
54) 1,2-Dibromoethane	11.339	107	64838	19.860	ug/l	100
55) 2-Chloroethyl vinyl ether	10.039	63	211791	96.150	ug/l	98
56) Bromoform	12.451	173	41361	17.328	ug/l #	98
58) 4-Methyl-2-Pentanone	10.328	43	604387	109.236	ug/l	96
59) 2-Hexanone	11.080	43	438339	104.498	ug/l	98
61) Tetrachloroethene	10.975	164	49399	21.639	ug/l	93
62) Toluene	10.504	91	260859	20.855	ug/l	97
64) Chlorobenzene	11.769	112	157100	20.630	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.839	131	61005	20.319	ug/l	97
66) Ethyl Benzene	11.839	91	294852	20.533	ug/l	99
67) m/p-Xylenes	11.951	106	211889	40.454	ug/l	92
68) o-Xylene	12.274	106	109795	20.548	ug/l	94
69) Styrene	12.292	104	165770	19.543	ug/l	94
70) Isopropylbenzene	12.574	105	286070	20.488	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	96990	20.521	ug/l	99
72) 1,2,3-Trichloropropane	12.874	75	80065m	19.411	ug/l	
73) Bromobenzene	12.857	156	54119	19.067	ug/l	71
74) n-propylbenzene	12.916	91	320733	20.074	ug/l	97
75) 2-Chlorotoluene	13.004	91	196964	19.888	ug/l	93
76) 1,3,5-Trimethylbenzene	13.057	105	234067	20.424	ug/l	100
77) t-1,4-Dichloro-2-butene	12.621	75	28360	16.313	ug/l	94
78) 4-Chlorotoluene	13.104	91	180235	19.264	ug/l	93
79) tert-butylbenzene	13.321	119	204427	19.980	ug/l	96
80) 1,2,4-Trimethylbenzene	13.498	105	280832	20.323	ug/l	100
81) sec-Butylbenzene	13.498	105	280832	20.323	ug/l	98
82) p-Isopropyltoluene	13.610	119	220166	19.959	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	95288	19.177	ug/l	96
84) 1,4-Dichlorobenzene	13.692	146	92023	19.073	ug/l	97
85) n-Butylbenzene	13.939	91	184331	19.708	ug/l	97
86) Hexachloroethane	14.210	117	45378	18.590	ug/l	86
87) 1,2-Dichlorobenzene	13.986	146	97372	19.801	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.604	75	21381	18.042	ug/l	85
89) 1,2,4-Trichlorobenzene	15.262	180	44827	18.089	ug/l	95
90) Hexachlorobutadiene	15.362	225	21448	19.292	ug/l	98
91) Naphthalene	15.504	128	164553	16.642	ug/l	99
92) 1,2,3-Trichlorobenzene	15.698	180	44863	17.795	ug/l	97

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

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