

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092822\
 Data File : VN074649.D
 Acq On : 28 Sep 2022 16:13
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Quant Time: Sep 28 16:32:27 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	7.487	128	102597	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.822	114	606143	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.616	117	564975	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.287	65	304177	31.443	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.800%	
60) 4-Bromofluorobenzene	12.604	95	298045	27.158	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 90.533%	
63) Toluene-d8	10.310	98	966373	30.325	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.067%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.999	85	125307	20.783	ug/l	92
3) Chloromethane	2.216	50	201312	22.736	ug/l	91
4) Vinyl Chloride	2.352	62	298347	26.319	ug/l	99
5) Bromomethane	2.716	94	187281	25.633	ug/l	89
6) Chloroethane	2.881	64	217557	27.152	ug/l	91
7) Trichlorofluoromethane	3.228	101	224916	21.363	ug/l	90
8) Diethyl Ether	3.675	74	114767	20.666	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.040	101	141819	21.011	ug/l	77
10) 1,1-Dichloroethene	4.010	96	141979	20.400	ug/l	91
11) Methyl Iodide	4.252	142	166178	18.642	ug/l	97
12) Methyl Acetate	4.663	43	320960m	21.540	ug/l	
13) Acrolein	3.887	56	93455	77.057	ug/l	93
14) Acrylonitrile	5.357	53	612779	101.456	ug/l	99
15) Acetone	4.122	58	160726	101.318	ug/l	97
16) Carbon Disulfide	4.351	76	394461	20.167	ug/l	97
17) Allyl chloride	4.646	41	326633	23.015	ug/l	91
18) Methylene Chloride	4.893	84	189500	21.358	ug/l	92
19) trans-1,2-Dichloroethene	5.393	96	154381	19.627	ug/l	93
20) Diisopropyl ether	6.298	45	669608	21.569	ug/l	95
21) 1,1-Dichloroethane	6.193	63	340841	21.740	ug/l	99
22) cis-1,2-Dichloroethene	7.145	96	189270	19.944	ug/l	96
23) tert-Butyl Alcohol	5.169	59	237212	95.381	ug/l #	100
24) Methyl tert-Butyl Ether	5.404	73	571807m	19.827	ug/l	
25) Chloroform	7.651	83	308890	19.874	ug/l	98
26) Cyclohexane	7.934	56	312674	22.178	ug/l #	99
29) 1,1-Dichloropropene	8.063	75	241508	21.331	ug/l	92
30) 2-Butanone	7.157	43	870434	100.773	ug/l	97
31) 2,2-Dichloropropane	7.140	77	272066	20.130	ug/l	97
32) 1,1,1-Trichloroethane	7.851	97	262881	19.656	ug/l	95
33) Carbon Tetrachloride	8.045	117	222332	19.876	ug/l	95
34) Benzene	8.304	78	752836	20.087	ug/l	96
35) Methacrylonitrile	7.469	41	183933	22.382	ug/l	87
36) 1,2-Dichloroethane	8.375	62	246522	20.143	ug/l	99
37) Trichloroethene	9.075	130	163511	20.546	ug/l	99
38) Methylcyclohexane	9.322	83	299596	20.446	ug/l	97
39) 1,2-Dichloropropane	9.351	63	209245	21.086	ug/l	98
40) Dibromomethane	9.439	93	122900	19.195	ug/l	98
41) Bromodichloromethane	9.622	83	254498	19.996	ug/l	99
42) Vinyl Acetate	6.240	43	2936055	104.570	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092822\
 Data File : VN074649.D
 Acq On : 28 Sep 2022 16:13
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Sep 28 16:32:27 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)
43) Ethyl Acetate	7.240	43	342684	20.484	ug/l	97
44) Isopropyl Acetate	8.410	43	566007	20.835	ug/l	98
45) 1,4-Dioxane	9.434	88	88706	382.637	ug/l	98
46) Methyl methacrylate	9.428	41	241620	21.354	ug/l	93
47) n-amyl Acetate	12.269	43	482674	19.412	ug/l	99
48) t-1,3-Dichloropropene	10.592	75	295271	19.110	ug/l	94
49) cis-1,3-Dichloropropene	10.057	75	314788	19.578	ug/l	98
50) 1,1,2-Trichloroethane	10.775	97	184509	19.821	ug/l	89
51) Ethyl methacrylate	10.633	69	329765	18.893	ug/l	94
52) 1,3-Dichloropropane	10.916	76	326999	19.819	ug/l	99
53) Dibromochloromethane	11.110	129	180550	18.352	ug/l	97
54) 1,2-Dibromoethane	11.216	107	181153	18.811	ug/l	98
55) 2-Chloroethyl vinyl ether	9.910	63	690147	101.886	ug/l	97
56) Bromoform	12.333	173	120933	15.726	ug/l	99
58) 4-Methyl-2-Pentanone	10.198	43	1808364	103.140	ug/l	98
59) 2-Hexanone	10.957	43	1378225	101.491	ug/l	96
61) Tetrachloroethene	10.845	164	126997	20.150	ug/l #	87
62) Toluene	10.375	91	817397	19.758	ug/l	98
64) Chlorobenzene	11.645	112	467509	19.722	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.716	131	170899	19.187	ug/l	97
66) Ethyl Benzene	11.722	91	882288	20.083	ug/l	99
67) m/p-Xylenes	11.827	106	662121	37.538	ug/l	100
68) o-Xylene	12.157	106	333091	18.548	ug/l	100
69) Styrene	12.169	104	522161	17.282	ug/l	98
70) Isopropylbenzene	12.457	105	851866	18.592	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.704	83	310325	19.080	ug/l	97
72) 1,2,3-Trichloropropane	12.757	75	268193m	21.783	ug/l	
73) Bromobenzene	12.733	156	177727	19.305	ug/l	99
74) n-propylbenzene	12.798	91	992098	19.216	ug/l	98
75) 2-Chlorotoluene	12.880	91	573583	18.315	ug/l	100
76) 1,3,5-Trimethylbenzene	12.933	105	695226	17.996	ug/l	100
77) t-1,4-Dichloro-2-butene	12.504	75	111994	17.561	ug/l	88
78) 4-Chlorotoluene	12.980	91	540430	17.219	ug/l	100
79) tert-butylbenzene	13.198	119	613892	18.163	ug/l	97
80) 1,2,4-Trimethylbenzene	13.245	105	680565	17.836	ug/l	97
81) sec-Butylbenzene	13.380	105	870279	18.189	ug/l	97
82) p-Isopropyltoluene	13.492	119	698343	17.741	ug/l	99
83) 1,3-Dichlorobenzene	13.492	146	323848	17.117	ug/l	99
84) 1,4-Dichlorobenzene	13.569	146	321620	17.092	ug/l	98
85) n-Butylbenzene	13.816	91	591672	17.618	ug/l	100
86) Hexachloroethane	14.080	117	141900	18.715	ug/l	98
87) 1,2-Dichlorobenzene	13.863	146	325954	16.843	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.474	75	57279	16.816	ug/l	98
89) 1,2,4-Trichlorobenzene	15.133	180	149226	18.487	ug/l	98
90) Hexachlorobutadiene	15.233	225	68699	19.317	ug/l	95
91) Naphthalene	15.363	128	572580	16.908	ug/l	99
92) 1,2,3-Trichlorobenzene	15.551	180	149239	18.441	ug/l	99

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

```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092822\  
Data File : VN074649.D  
Acq On    : 28 Sep 2022  16:13  
Operator  : JC\MD  
Sample    : VSTDCCC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 9      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Quant Time: Sep 28 16:32:27 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

