

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075052.D
 Acq On : 28 Oct 2022 10:25
 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

Quant Time: Oct 31 01:49:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	16183	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	93529	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	87019	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	48387	32.701	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.000%
60) 4-Bromofluorobenzene	12.847	95	49500	28.951	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.500%
63) Toluene-d8	10.571	98	148711	30.555	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.867%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.136	85	16178	20.536	ug/l	98
3) Chloromethane	2.377	50	23303	22.487	ug/l	97
4) Vinyl Chloride	2.524	62	34361	21.928	ug/l	97
5) Bromomethane	2.947	94	27496	22.194	ug/l	96
6) Chloroethane	3.118	64	27112	22.431	ug/l	98
7) Trichlorofluoromethane	3.512	101	37930	22.494	ug/l	100
8) Diethyl Ether	3.971	74	14738	21.256	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.383	101	23362	23.634	ug/l	78
10) 1,1-Dichloroethene	4.347	96	20618m	22.238	ug/l	
11) Methyl Iodide	4.600	142	30907	21.368	ug/l	93
12) Methyl Acetate	5.036	43	32524	20.708	ug/l	91
13) Acrolein	4.189	56	16338	84.930	ug/l	100
14) Acrylonitrile	5.730	53	65984	101.688	ug/l	98
15) Acetone	4.441	58	29262	161.410	ug/l	94
16) Carbon Disulfide	4.724	76	43621	21.372	ug/l	97
17) Allyl chloride	5.041	41	28075	22.599	ug/l	92
18) Methylene Chloride	5.289	84	25728	22.150	ug/l	93
19) trans-1,2-Dichloroethene	5.800	96	22064	21.405	ug/l	89
20) Diisopropyl ether	6.683	45	71025	22.027	ug/l #	92
21) 1,1-Dichloroethane	6.583	63	45191	22.566	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	28600	21.959	ug/l	97
23) tert-Butyl Alcohol	5.536	59	28198	93.874	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	83530	22.028	ug/l #	73
25) Chloroform	7.971	83	49026	22.159	ug/l	98
26) Cyclohexane	8.259	56	35192	21.875	ug/l #	91
29) 1,1-Dichloropropene	8.377	75	34442	21.469	ug/l	96
30) 2-Butanone	7.488	43	107835	116.602	ug/l	97
31) 2,2-Dichloropropane	7.494	77	42994	21.939	ug/l #	81
32) 1,1,1-Trichloroethane	8.177	97	44693	21.510	ug/l	100
33) Carbon Tetrachloride	8.365	117	37844	20.685	ug/l	95
34) Benzene	8.612	78	104226	21.251	ug/l	95
35) Methacrylonitrile	7.788	41	17713	19.983	ug/l	95
36) 1,2-Dichloroethane	8.671	62	40968	22.543	ug/l	98
37) Trichloroethene	9.353	130	26484	21.730	ug/l	97
38) Methylcyclohexane	9.600	83	41740	20.984	ug/l	96
39) 1,2-Dichloropropane	9.624	63	26770	21.682	ug/l	95
40) Dibromomethane	9.706	93	19850	21.191	ug/l	97
41) Bromodichloromethane	9.888	83	40158	22.020	ug/l	93
42) Vinyl Acetate	6.612	43	303416m	116.476	ug/l	

10/31/2022
 Supervised By :Mahesh
 Kadoda

10/31/2022

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075052.D
 Acq On : 28 Oct 2022 10:25
 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

Quant Time: Oct 31 01:49:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.565	43	36503	19.972	ug/l	98	10/31/2022
44) Isopropyl Acetate	8.694	43	59531	20.306	ug/l	96	Supervised By :Mahesh Dadoda
45) 1,4-Dioxane	9.700	88	13177	365.167	ug/l #	86	
46) Methyl methacrylate	9.682	41	26014	19.780	ug/l	94	
47) n-amyl Acetate	12.494	43	49687	19.728	ug/l	98	
48) t-1,3-Dichloropropene	10.835	75	40195	20.174	ug/l	99	
49) cis-1,3-Dichloropropene	10.318	75	43167	20.614	ug/l	90	10/31/2022
50) 1,1,2-Trichloroethane	11.018	97	28019	20.417	ug/l	95	
51) Ethyl methacrylate	10.876	69	42693	19.967	ug/l	93	
52) 1,3-Dichloropropane	11.165	76	49286	21.473	ug/l	100	
53) Dibromochloromethane	11.359	129	28608	19.273	ug/l	95	
54) 1,2-Dibromoethane	11.470	107	28289	19.924	ug/l	96	
55) 2-Chloroethyl vinyl ether	10.159	63	78983	90.414	ug/l	99	
56) Bromoform	12.582	173	19093	17.520	ug/l #	97	
58) 4-Methyl-2-Pentanone	10.447	43	191136	101.831	ug/l	93	
59) 2-Hexanone	11.200	43	157718	109.535	ug/l	93	
61) Tetrachloroethene	11.106	164	23234	24.008	ug/l	88	
62) Toluene	10.629	91	121782	21.616	ug/l	97	
64) Chlorobenzene	11.894	112	73375	21.016	ug/l	97	
65) 1,1,1,2-Tetrachloroethane	11.965	131	28611	21.452	ug/l	98	
66) Ethyl Benzene	11.965	91	135642	21.362	ug/l	98	
67) m/p-Xylenes	12.070	106	106818	41.947	ug/l	97	
68) o-Xylene	12.400	106	52843	20.644	ug/l	100	
69) Styrene	12.412	104	84691	20.232	ug/l	98	
70) Isopropylbenzene	12.694	105	138069	20.702	ug/l	100	
71) 1,1,2,2-Tetrachloroethane	12.941	83	43940	20.225	ug/l	99	
72) 1,2,3-Trichloropropane	12.994	75	39529m	20.037	ug/l		
73) Bromobenzene	12.982	156	29264	19.713	ug/l	93	
74) n-propylbenzene	13.035	91	159375	21.339	ug/l	98	
75) 2-Chlorotoluene	13.129	91	93979	20.677	ug/l	98	
76) 1,3,5-Trimethylbenzene	13.176	105	115294	20.407	ug/l	98	
77) t-1,4-Dichloro-2-butene	12.735	75	13536	19.643	ug/l	92	
78) 4-Chlorotoluene	13.223	91	92062	20.853	ug/l	97	
79) tert-butylbenzene	13.441	119	101413	20.103	ug/l	99	
80) 1,2,4-Trimethylbenzene	13.482	105	116104m	20.203	ug/l		
81) sec-Butylbenzene	13.617	105	145159	20.469	ug/l	100	
82) p-Isopropyltoluene	13.729	119	115970	19.384	ug/l	100	
83) 1,3-Dichlorobenzene	13.735	146	56963	19.404	ug/l	99	
84) 1,4-Dichlorobenzene	13.811	146	55796	19.700	ug/l	100	
85) n-Butylbenzene	14.059	91	97031	20.221	ug/l	98	
86) Hexachloroethane	14.335	117	21086	19.019	ug/l	91	
87) 1,2-Dichlorobenzene	14.106	146	57174	19.689	ug/l	98	
88) 1,2-Dibromo-3-Chloropr...	14.717	75	8860	19.402	ug/l	98	
89) 1,2,4-Trichlorobenzene	15.394	180	25657	20.004	ug/l	99	
90) Hexachlorobutadiene	15.505	225	11817	20.033	ug/l	95	
91) Naphthalene	15.641	128	92803	18.257	ug/l	99	
92) 1,2,3-Trichlorobenzene	15.841	180	24887	19.169	ug/l	98	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102822\
 Data File : VN075052.D
 Acq On : 28 Oct 2022 10:25
 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

Quant Time: Oct 31 01:49:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102522W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 27 10:19:47 2022
 Response via : Initial Calibration

