

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041724\
 Data File : VN081767.D
 Acq On : 17 Apr 2024 11:28
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Apr 18 01:08:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 04/18/2024

Supervised By :Mahesh
 Dadoda
 04/18/2024

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

Internal Standards						
1) Bromochloromethane	7.818	128	16222	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	115228	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	153707	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	71294	35.775	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 119.233%#			
60) 4-Bromofluorobenzene	12.853	95	99096	32.792	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.300%			
63) Toluene-d8	10.565	98	199941	32.429	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 108.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	33076	14.592	ug/l	98
3) Chloromethane	2.365	50	56563	28.762	ug/l	94
4) Vinyl Chloride	2.518	62	59776	29.560	ug/l	98
5) Bromomethane	2.965	94	39222	22.902	ug/l	89
6) Chloroethane	3.124	64	40729	25.733	ug/l	95
7) Trichlorofluoromethane	3.501	101	73346	22.092	ug/l	97
8) Diethyl Ether	3.959	74	20935	16.907	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.371	101	43263	18.994	ug/l	97
10) 1,1-Dichloroethene	4.348	96	37555	17.978	ug/l	95
11) Methyl Iodide	4.589	142	33842	14.305	ug/l	90
12) Methyl Acetate	5.024	43	39990	20.848	ug/l #	80
13) Acrolein	4.177	56	27396m	108.445	ug/l	
14) Acrylonitrile	5.712	53	91739	96.081	ug/l	96
15) Acetone	4.424	58	21603m	102.871	ug/l	
16) Carbon Disulfide	4.718	76	108295	18.231	ug/l #	95
17) Allyl chloride	5.024	41	48437	19.168	ug/l	83
18) Methylene Chloride	5.271	84	47714	19.836	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	42903	18.729	ug/l	90
20) Diisopropyl ether	6.671	45	124399	20.677	ug/l #	88
21) 1,1-Dichloroethane	6.571	63	84252	21.004	ug/l	99
22) cis-1,2-Dichloroethene	7.483	96	51649	18.671	ug/l	98
23) tert-Butyl Alcohol	5.512	59	32717m	96.525	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	122562	18.760	ug/l #	91
25) Chloroform	7.965	83	96237	21.086	ug/l	99
26) Cyclohexane	8.259	56	62672	19.490	ug/l #	86
29) 1,1-Dichloropropene	8.371	75	59999	19.806	ug/l	99
30) 2-Butanone	7.483	43	118329	102.278	ug/l #	98
31) 2,2-Dichloropropane	7.494	77	72596	19.239	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	84908	20.337	ug/l	98
33) Carbon Tetrachloride	8.365	117	74792	19.763	ug/l	97
34) Benzene	8.606	78	196122	20.097	ug/l	97
35) Methacrylonitrile	7.771	41	27682	21.124	ug/l	89
36) 1,2-Dichloroethane	8.671	62	71210	22.247	ug/l #	86
37) Trichloroethene	9.353	130	47904	18.551	ug/l	99
38) Methylcyclohexane	9.600	83	63160	17.058	ug/l	96
39) 1,2-Dichloropropane	9.618	63	49107	21.570	ug/l	98
40) Dibromomethane	9.706	93	38182	21.054	ug/l	93
41) Bromodichloromethane	9.888	83	79276	21.437	ug/l #	97
42) Vinyl Acetate	6.600	43	480523	99.702	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	53364	20.929	ug/l	98
44) Isopropyl Acetate	8.688	43	91830	21.494	ug/l	95
45) 1,4-Dioxane	9.694	88	18743	397.421	ug/l #	95
46) Methyl methacrylate	9.683	41	40259	20.955	ug/l	87
47) n-amyl Acetate	12.494	43	81160	21.171	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	72364	20.539	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	75984	20.026	ug/l #	88
50) 1,1,2-Trichloroethane	11.012	97	48888	20.133	ug/l	96
51) Ethyl methacrylate	10.877	69	63339	18.733	ug/l	79
52) 1,3-Dichloropropane	11.165	76	84991	21.353	ug/l	99
53) Dibromochloromethane	11.359	129	59938	20.663	ug/l	99
54) 1,2-Dibromoethane	11.471	107	50244	20.017	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	186975	112.610	ug/l	98
56) Bromoform	12.576	173	37649	20.298	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	292931	110.820	ug/l #	91
59) 2-Hexanone	11.194	43	219712	110.678	ug/l #	89
61) Tetrachloroethene	11.106	164	55313	19.421	ug/l	98
62) Toluene	10.630	91	225933	20.204	ug/l	98
64) Chlorobenzene	11.894	112	135319	19.084	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	52324	20.314	ug/l	97
66) Ethyl Benzene	11.965	91	225843	18.995	ug/l	96
67) m/p-Xylenes	12.071	106	189769	40.295	ug/l	91
68) o-Xylene	12.400	106	85717	19.172	ug/l	98
69) Styrene	12.412	104	144799	19.017	ug/l	99
70) Isopropylbenzene	12.700	105	222926	19.328	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.941	83	64286	21.337	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	64568m	23.148	ug/l	
73) Bromobenzene	12.982	156	55175	19.305	ug/l	98
74) n-propylbenzene	13.035	91	274309	19.868	ug/l	100
75) 2-Chlorotoluene	13.129	91	165944	20.175	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	193065	19.721	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	23418	20.272	ug/l	93
78) 4-Chlorotoluene	13.223	91	167920	20.583	ug/l	98
79) tert-butylbenzene	13.441	119	164968	19.807	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	196710	20.148	ug/l	97
81) sec-Butylbenzene	13.618	105	234189	19.497	ug/l	99
82) p-Isopropyltoluene	13.729	119	186978	18.561	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	106113	19.867	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	105123	20.332	ug/l	98
85) n-Butylbenzene	14.059	91	156176	18.406	ug/l	98
86) Hexachloroethane	14.335	117	39234	20.387	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	100460	19.759	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13908	21.175	ug/l	94
89) 1,2,4-Trichlorobenzene	15.841	180	52585	18.870	ug/l	98
90) Hexachlorobutadiene	15.500	225	22077	19.769	ug/l	99
91) Naphthalene	15.641	128	156037	17.416	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	52585	18.870	ug/l	98

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

