

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041024\
 Data File : VN081678.D
 Acq On : 10 Apr 2024 13:13
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

04/11/2024
 Supervised By :Mahesh
 Dadoda

Quant Time: Apr 11 09:07:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:07:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	25057	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	169513	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	231241	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	99650	32.372	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.900%
60) 4-Bromofluorobenzene	12.853	95	128916	28.356	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.533%
63) Toluene-d8	10.571	98	283250	30.537	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	18304	5.228	ug/l	93
3) Chloromethane	2.359	50	17387	5.724	ug/l	99
4) Vinyl Chloride	2.518	62	15751	5.043	ug/l	94
5) Bromomethane	2.959	94	16013	6.053	ug/l	83
6) Chloroethane	3.118	64	14320	5.857	ug/l	97
7) Trichlorofluoromethane	3.512	101	19218m	3.746	ug/l	
8) Diethyl Ether	3.959	74	9068	4.741	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	18886	5.368	ug/l	76
10) 1,1-Dichloroethene	4.336	96	15575m	5.066	ug/l	
11) Methyl Iodide	4.583	142	14874m	4.068	ug/l	
12) Methyl Acetate	5.030	43	16497m	5.574	ug/l	
13) Acrolein	4.183	56	11420m	29.266	ug/l	
14) Acrylonitrile	5.718	53	37796	25.627	ug/l #	87
15) Acetone	4.418	58	9152m	28.145	ug/l	
16) Carbon Disulfide	4.712	76	49071	5.348	ug/l #	90
17) Allyl chloride	5.018	41	19340	4.955	ug/l	67
18) Methylene Chloride	5.277	84	19539	5.259	ug/l #	87
19) trans-1,2-Dichloroethene	5.789	96	17845	5.043	ug/l #	87
20) Diisopropyl ether	6.683	45	41713m	4.474	ug/l	
21) 1,1-Dichloroethane	6.577	63	32202	5.197	ug/l	92
22) cis-1,2-Dichloroethene	7.483	96	21155	4.951	ug/l #	77
23) tert-Butyl Alcohol	5.524	59	12897	24.633	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	45182	4.477	ug/l #	81
25) Chloroform	7.965	83	36889	5.233	ug/l	98
26) Cyclohexane	8.259	56	22449	4.520	ug/l #	85
29) 1,1-Dichloropropene	8.382	75	21757	4.882	ug/l	94
30) 2-Butanone	7.483	43	45820	26.922	ug/l	99
31) 2,2-Dichloropropane	7.483	77	28368	5.110	ug/l #	66
32) 1,1,1-Trichloroethane	8.171	97	32265	5.253	ug/l	96
33) Carbon Tetrachloride	8.371	117	30581	5.493	ug/l #	80
34) Benzene	8.606	78	76587	5.335	ug/l #	90
35) Methacrylonitrile	7.782	41	9416	4.884	ug/l	92
36) 1,2-Dichloroethane	8.671	62	27468	5.833	ug/l	97
37) Trichloroethene	9.359	130	20541	5.407	ug/l	86
38) Methylcyclohexane	9.606	83	25167	4.620	ug/l	89
39) 1,2-Dichloropropane	9.624	63	18395	5.492	ug/l #	88
40) Dibromomethane	9.712	93	14332	5.372	ug/l	95
41) Bromodichloromethane	9.888	83	29577	5.437	ug/l	97
42) Vinyl Acetate	6.600	43	159442	22.488	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	20464	5.439	ug/l	97
44) Isopropyl Acetate	8.694	43	32833	5.224	ug/l	95
45) 1,4-Dioxane	9.700	88	6320	91.093	ug/l #	83
46) Methyl methacrylate	9.682	41	14586	5.161	ug/l	93
47) n-amyl Acetate	12.500	43	25931	4.598	ug/l	98
48) t-1,3-Dichloropropene	10.841	75	24139	4.657	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	27070	4.850	ug/l	99
50) 1,1,2-Trichloroethane	11.023	97	19367	5.421	ug/l	91
51) Ethyl methacrylate	10.882	69	20965	4.215	ug/l	92
52) 1,3-Dichloropropane	11.171	76	31334	5.351	ug/l	99
53) Dibromochloromethane	11.365	129	21250	4.980	ug/l	98
54) 1,2-Dibromoethane	11.470	107	19201	5.200	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	48141	19.709	ug/l	98
56) Bromoform	12.582	173	12823	4.699	ug/l #	36
58) 4-Methyl-2-Pentanone	10.447	43	98816	24.849	ug/l	91
59) 2-Hexanone	11.200	43	73328	24.553	ug/l	88
61) Tetrachloroethene	11.106	164	22119	5.162	ug/l #	82
62) Toluene	10.629	91	85113	5.059	ug/l	96
64) Chlorobenzene	11.894	112	53132	4.981	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	19898	5.135	ug/l	94
66) Ethyl Benzene	11.970	91	75521	4.222	ug/l	97
67) m/p-Xylenes	12.076	106	59784	8.438	ug/l	92
68) o-Xylene	12.400	106	27282	4.056	ug/l	97
69) Styrene	12.412	104	46291	4.041	ug/l	94
70) Isopropylbenzene	12.700	105	69982	4.033	ug/l	94
71) 1,1,2,2-Tetrachloroethane	12.941	83	24909	5.495	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	22004m	3.442	ug/l	
73) Bromobenzene	12.976	156	20608	4.793	ug/l	95
74) n-propylbenzene	13.041	91	89398	4.302	ug/l	99
75) 2-Chlorotoluene	13.129	91	55121	4.454	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	60135	4.083	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	7851	4.518	ug/l	96
78) 4-Chlorotoluene	13.223	91	53808	4.384	ug/l	95
79) tert-butylbenzene	13.447	119	49401	3.943	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	59160	4.028	ug/l	96
81) sec-Butylbenzene	13.617	105	72210	3.996	ug/l	97
82) p-Isopropyltoluene	13.735	119	56945	3.757	ug/l	96
83) 1,3-Dichlorobenzene	13.741	146	37402	4.655	ug/l	98
84) 1,4-Dichlorobenzene	13.817	146	34504	4.436	ug/l	99
85) n-Butylbenzene	14.059	91	47457	3.718	ug/l	98
86) Hexachloroethane	14.335	117	13610	4.701	ug/l	84
87) 1,2-Dichlorobenzene	14.111	146	34589	4.522	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.723	75	5132	5.194	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	16315m	3.865	ug/l	
90) Hexachlorobutadiene	15.506	225	8101	4.822	ug/l	77
91) Naphthalene	15.641	128	45960	3.410	ug/l #	95
92) 1,2,3-Trichlorobenzene	15.841	180	16314	3.891	ug/l	77

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

