

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052622\
 Data File : VN072631.D
 Acq On : 26 May 2022 15:08
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/27/2022
 Supervised By : Mahesh Dadoda 05/27/2022

Quant Time: May 26 15:53:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 26 15:53:28 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.651	128	30347	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	173728	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	163749	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	83156	25.718	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery	=	85.733%	#
60) 4-Bromofluorobenzene	12.727	95	83701	26.577	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery	=	88.600%	
63) Toluene-d8	10.439	98	272078	30.220	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery	=	100.733%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.063	85	103692	42.485	ug/l	97
3) Chloromethane	2.293	50	129243	55.347	ug/l	94
4) Vinyl Chloride	2.434	62	106627	53.784	ug/l	99
5) Bromomethane	2.834	94	53267	35.804	ug/l	98
6) Chloroethane	3.004	64	70008	53.772	ug/l	99
7) Trichlorofluoromethane	3.363	101	176362	40.930	ug/l	99
8) Diethyl Ether	3.822	74	73106	52.028	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.204	101	100549	47.673	ug/l	69
10) 1,1-Dichloroethene	4.181	96	99345	50.758	ug/l	99
11) Methyl Iodide	4.422	142	103672	38.331	ug/l	91
12) Methyl Acetate	4.851	43	186584	57.793	ug/l	95
13) Acrolein	4.034	56	105015	222.793	ug/l	96
14) Acrylonitrile	5.545	53	424363	304.655	ug/l	96
15) Acetone	4.281	58	106162	291.246	ug/l	84
16) Carbon Disulfide	4.528	76	267792	52.743	ug/l	97
17) Allyl chloride	4.834	41	204467	56.606	ug/l	79
18) Methylene Chloride	5.093	84	127041	53.640	ug/l	95
19) trans-1,2-Dichloroethene	5.592	96	110161	51.276	ug/l	96
20) Diisopropyl ether	6.487	45	435566	57.513	ug/l	92
21) 1,1-Dichloroethane	6.381	63	223289	51.045	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	133637	52.613	ug/l	99
23) tert-Butyl Alcohol	5.357	59	130719	229.853	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	376134	48.025	ug/l	91
25) Chloroform	7.816	83	220335	47.667	ug/l	100
26) Cyclohexane	8.092	56	201525	55.654	ug/l #	90
29) 1,1-Dichloropropene	8.216	75	160359	45.803	ug/l	98
30) 2-Butanone	7.322	43	581667	276.730	ug/l	95
31) 2,2-Dichloropropane	7.322	77	174030	41.190	ug/l #	75
32) 1,1,1-Trichloroethane	8.010	97	186474	39.074	ug/l	99
33) Carbon Tetrachloride	8.198	117	157037	37.456	ug/l	98
34) Benzene	8.451	78	511019	50.444	ug/l	98
35) Methacrylonitrile	7.628	41	113271	52.316	ug/l	89
36) 1,2-Dichloroethane	8.522	62	166085	37.893	ug/l	96
37) Trichloroethene	9.210	130	119039	44.621	ug/l	98
38) Methylcyclohexane	9.457	83	202100	49.659	ug/l	95
39) 1,2-Dichloropropane	9.486	63	136053	52.863	ug/l	97
40) Dibromomethane	9.575	93	87332	45.839	ug/l	95
41) Bromodichloromethane	9.757	83	174107	43.360	ug/l	94
42) Vinyl Acetate	6.428	43	1902722	272.285	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	222564	54.599	ug/l	98
44) Isopropyl Acetate	8.557	43	332506	51.573	ug/l	99
45) 1,4-Dioxane	9.563	88	59488	996.845	ug/l	93
46) Methyl methacrylate	9.557	41	167233	54.728	ug/l	85
47) n-amyl Acetate	12.380	43	270352	61.094	ug/l	98
48) t-1,3-Dichloropropene	10.716	75	193696	45.507	ug/l	99
49) cis-1,3-Dichloropropene	10.186	75	213423	48.821	ug/l #	89
50) 1,1,2-Trichloroethane	10.892	97	130776	48.649	ug/l	97
51) Ethyl methacrylate	10.757	69	227745	53.526	ug/l	88
52) 1,3-Dichloropropane	11.039	76	231952	49.867	ug/l	99
53) Dibromochloromethane	11.233	129	134396	43.063	ug/l	99
54) 1,2-Dibromoethane	11.339	107	133916	47.022	ug/l	96
55) 2-Chloroethyl vinyl ether	10.033	63	499565	405.613	ug/l	98
56) Bromoform	12.457	173	91308	38.515	ug/l #	100
58) 4-Methyl-2-Pentanone	10.327	43	1174212	288.554	ug/l	96
59) 2-Hexanone	11.080	43	881105	296.704	ug/l	97
61) Tetrachloroethene	10.974	164	104556	43.128	ug/l	93
62) Toluene	10.498	91	563970	49.695	ug/l	98
64) Chlorobenzene	11.763	112	331650	47.518	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	124435	44.019	ug/l	98
66) Ethyl Benzene	11.839	91	624068	49.606	ug/l	99
67) m/p-Xylenes	11.945	106	465100	97.533	ug/l	100
68) o-Xylene	12.274	106	221089	46.816	ug/l	100
69) Styrene	12.286	104	362841	48.402	ug/l	98
70) Isopropylbenzene	12.574	105	567291	45.606	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.821	83	196765	50.767	ug/l	96
72) 1,2,3-Trichloropropane	12.874	75	173516m	48.688	ug/l	
73) Bromobenzene	12.857	156	123690	41.891	ug/l	87
74) n-propylbenzene	12.916	91	649630	47.368	ug/l	98
75) 2-Chlorotoluene	13.004	91	380047	43.783	ug/l	95
76) 1,3,5-Trimethylbenzene	13.051	105	441978	42.290	ug/l	98
77) t-1,4-Dichloro-2-butene	12.621	75	66678	54.057	ug/l	93
78) 4-Chlorotoluene	13.098	91	353934	43.359	ug/l	96
79) tert-butylbenzene	13.316	119	393498	42.613	ug/l	97
80) 1,2,4-Trimethylbenzene	13.363	105	430365m	42.574	ug/l	
81) sec-Butylbenzene	13.498	105	558720	45.274	ug/l	99
82) p-Isopropyltoluene	13.610	119	417364	41.367	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	201836	40.183	ug/l	99
84) 1,4-Dichlorobenzene	13.686	146	197588	40.400	ug/l	99
85) n-Butylbenzene	13.939	91	356875	46.650	ug/l	97
86) Hexachloroethane	14.204	117	82106	43.188	ug/l	100
87) 1,2-Dichlorobenzene	13.980	146	196779	39.945	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.598	75	35510	40.704	ug/l	98
89) 1,2,4-Trichlorobenzene	15.257	180	93303	40.650	ug/l	97
90) Hexachlorobutadiene	15.368	225	45115	33.540	ug/l	97
91) Naphthalene	15.498	128	368162	51.669	ug/l	99
92) 1,2,3-Trichlorobenzene	15.692	180	96880	41.558	ug/l	98

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

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