

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052622\
 Data File : VN072635.D
 Acq On : 26 May 2022 16:46
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN052622

Manual Integrations
 APPROVED

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

Quant Time: May 27 05:49:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N052622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 27 05:07:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	32515	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	183830	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	140214	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	90305	29.025	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.733%	
60) 4-Bromofluorobenzene	12.727	95	75503	30.662	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.200%	
63) Toluene-d8	10.439	98	253889	31.845	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	106.167%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	45306	20.391	ug/l	99
3) Chloromethane	2.299	50	52183	17.515	ug/l	99
4) Vinyl Chloride	2.440	62	44476	17.855	ug/l	95
5) Bromomethane	2.857	94	21770	17.973	ug/l	97
6) Chloroethane	3.016	64	27377	17.567	ug/l	96
7) Trichlorofluoromethane	3.375	101	74460	20.860	ug/l	96
8) Diethyl Ether	3.822	74	30632	20.452	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.204	101	43444	21.787	ug/l #	69
10) 1,1-Dichloroethene	4.181	96	41356	21.121	ug/l	95
11) Methyl Iodide	4.416	142	35269	18.813	ug/l	98
12) Methyl Acetate	4.851	43	81673	21.254	ug/l	96
13) Acrolein	4.040	56	42520	96.619	ug/l	99
14) Acrylonitrile	5.551	53	176826	106.826	ug/l	97
15) Acetone	4.281	58	48230	113.187	ug/l	89
16) Carbon Disulfide	4.528	76	113778	21.185	ug/l	100
17) Allyl chloride	4.834	41	86247	21.201	ug/l	80
18) Methylene Chloride	5.098	84	52959	20.573	ug/l	95
19) trans-1,2-Dichloroethene	5.587	96	45000	21.012	ug/l	97
20) Diisopropyl ether	6.487	45	181292	19.437	ug/l	90
21) 1,1-Dichloroethane	6.381	63	92749	19.535	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	56234	20.674	ug/l	98
23) tert-Butyl Alcohol	5.357	59	57545	103.573	ug/l #	100
24) Methyl tert-Butyl Ether	5.610	73	156540	20.810	ug/l	93
25) Chloroform	7.816	83	91844	19.040	ug/l	100
26) Cyclohexane	8.086	56	82445	18.411	ug/l #	94
29) 1,1-Dichloropropene	8.216	75	67158	19.318	ug/l	97
30) 2-Butanone	7.328	43	250647	107.066	ug/l	94
31) 2,2-Dichloropropane	7.322	77	74771	21.235	ug/l	99
32) 1,1,1-Trichloroethane	8.010	97	76771	19.906	ug/l	97
33) Carbon Tetrachloride	8.198	117	64115	18.723	ug/l	92
34) Benzene	8.457	78	212207	19.418	ug/l	98
35) Methacrylonitrile	7.628	41	44710	18.724	ug/l	93
36) 1,2-Dichloroethane	8.522	62	70780	19.932	ug/l	96
37) Trichloroethene	9.210	130	48918	18.807	ug/l	99
38) Methylcyclohexane	9.451	83	78654	18.318	ug/l	92
39) 1,2-Dichloropropane	9.486	63	53421	18.330	ug/l	97
40) Dibromomethane	9.575	93	34771	18.815	ug/l	97
41) Bromodichloromethane	9.757	83	65084	17.570	ug/l	93
42) Vinyl Acetate	6.428	43	785293	102.780	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	87691	19.534	ug/l	100
44) Isopropyl Acetate	8.557	43	139770	19.982	ug/l	98
45) 1,4-Dioxane	9.563	88	22894	390.371	ug/l	92
46) Methyl methacrylate	9.557	41	59811	18.148	ug/l	82
47) n-amyl Acetate	12.386	43	87112	17.093	ug/l	99
48) t-1,3-Dichloropropene	10.716	75	71579	17.889	ug/l	91
49) cis-1,3-Dichloropropene	10.186	75	75366	17.095	ug/l	96
50) 1,1,2-Trichloroethane	10.892	97	47189	17.370	ug/l	95
51) Ethyl methacrylate	10.757	69	82242	17.954	ug/l	87
52) 1,3-Dichloropropane	11.039	76	83731	17.478	ug/l	98
53) Dibromochloromethane	11.233	129	46535	16.661	ug/l	99
54) 1,2-Dibromoethane	11.345	107	45662	16.369	ug/l	93
55) 2-Chloroethyl vinyl ether	10.039	63	170201	84.944	ug/l	96
56) Bromoform	12.451	173	33043	16.387	ug/l #	99
58) 4-Methyl-2-Pentanone	10.328	43	463102	114.344	ug/l	97
59) 2-Hexanone	11.080	43	339325	117.479	ug/l	98
61) Tetrachloroethene	10.975	164	35749	19.265	ug/l	91
62) Toluene	10.498	91	203453	20.669	ug/l	99
64) Chlorobenzene	11.769	112	110787	19.369	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.839	131	42403	18.826	ug/l	98
66) Ethyl Benzene	11.839	91	208850	19.234	ug/l	97
67) m/p-Xylenes	11.945	106	157325	39.864	ug/l	100
68) o-Xylene	12.274	106	78283	19.937	ug/l	97
69) Styrene	12.292	104	117545	18.895	ug/l	99
70) Isopropylbenzene	12.574	105	217581	21.689	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.821	83	71641	20.801	ug/l	97
72) 1,2,3-Trichloropropane	12.874	75	63728m	21.928	ug/l	
73) Bromobenzene	12.857	156	43150	19.580	ug/l	85
74) n-propylbenzene	12.916	91	226780	19.993	ug/l	98
75) 2-Chlorotoluene	13.004	91	132822	19.306	ug/l	94
76) 1,3,5-Trimethylbenzene	13.057	105	151941	19.192	ug/l	99
77) t-1,4-Dichloro-2-butene	12.621	75	22947	20.205	ug/l	99
78) 4-Chlorotoluene	13.098	91	122993	19.635	ug/l	95
79) tert-butylbenzene	13.316	119	136506	19.704	ug/l	96
80) 1,2,4-Trimethylbenzene	13.363	105	149217m	19.529	ug/l	
81) sec-Butylbenzene	13.498	105	197907	19.746	ug/l	99
82) p-Isopropyltoluene	13.610	119	146795	18.893	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	70929	18.545	ug/l	100
84) 1,4-Dichlorobenzene	13.692	146	69211	18.626	ug/l	99
85) n-Butylbenzene	13.939	91	135177	21.172	ug/l	98
86) Hexachloroethane	14.204	117	30555	19.745	ug/l	98
87) 1,2-Dichlorobenzene	13.980	146	79615	21.075	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.604	75	13979	20.892	ug/l	90
89) 1,2,4-Trichlorobenzene	15.257	180	33406	17.923	ug/l	98
90) Hexachlorobutadiene	15.368	225	17179	18.378	ug/l	97
91) Naphthalene	15.504	128	149329	22.831	ug/l	99
92) 1,2,3-Trichlorobenzene	15.692	180	43440	22.829	ug/l	99

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

