

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076678.D
 Acq On : 15 Feb 2023 11:11
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC050

Quant Time: Feb 15 11:41:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 15 11:41:11 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	36978	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	261648	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	297726	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	100453	23.049	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	76.833%	#	
60) 4-Bromofluorobenzene	12.854	95	161443	24.019	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	80.067%		
63) Toluene-d8	10.572	98	306315	28.020	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	93.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	189262	36.979	ug/l	96
3) Chloromethane	2.378	50	230720	37.491	ug/l	96
4) Vinyl Chloride	2.525	62	249336	46.403	ug/l	95
5) Bromomethane	2.954	94	145265	53.849	ug/l	94
6) Chloroethane	3.125	64	157741	50.961	ug/l	96
7) Trichlorofluoromethane	3.507	101	304725	33.398	ug/l	98
8) Diethyl Ether	3.972	74	125744	43.450	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	187830	42.765	ug/l	84
10) 1,1-Dichloroethene	4.354	96	176382	42.734	ug/l	94
11) Methyl Iodide	4.601	142	274882	45.840	ug/l	92
12) Methyl Acetate	5.037	43	366919	42.362	ug/l	94
13) Acrolein	4.196	56	204924	184.717	ug/l	97
14) Acrylonitrile	5.731	53	566251	223.147	ug/l	98
15) Acetone	4.437	58	181978	248.371	ug/l	96
16) Carbon Disulfide	4.725	76	502923	44.336	ug/l	98
17) Allyl chloride	5.037	41	325035	40.849	ug/l	98
18) Methylene Chloride	5.290	84	217551	44.543	ug/l	90
19) trans-1,2-Dichloroethene	5.801	96	202657	47.796	ug/l	92
20) Diisopropyl ether	6.684	45	778024	42.836	ug/l	98
21) 1,1-Dichloroethane	6.584	63	400854	40.472	ug/l	97
22) cis-1,2-Dichloroethene	7.495	96	241597	47.554	ug/l	96
23) tert-Butyl Alcohol	5.525	59	166941	196.051	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	638706	42.968	ug/l	98
25) Chloroform	7.972	83	402983	41.118	ug/l	99
26) Cyclohexane	8.260	56	368379	41.913	ug/l #	93
29) 1,1-Dichloropropene	8.378	75	307362	45.383	ug/l	98
30) 2-Butanone	7.489	43	878794	240.391	ug/l	98
31) 2,2-Dichloropropane	7.495	77	307608	43.745	ug/l #	62
32) 1,1,1-Trichloroethane	8.172	97	344419	40.989	ug/l	98
33) Carbon Tetrachloride	8.372	117	298993	41.246	ug/l	97
34) Benzene	8.613	78	934694	44.917	ug/l	99
35) Methacrylonitrile	7.784	41	189537	45.092	ug/l	95
36) 1,2-Dichloroethane	8.678	62	309137	38.739	ug/l	99
37) Trichloroethene	9.354	130	222343	52.185	ug/l	96
38) Methylcyclohexane	9.607	83	377715	50.388	ug/l	99
39) 1,2-Dichloropropane	9.625	63	242746	48.881	ug/l	96
40) Dibromomethane	9.713	93	156194	47.809	ug/l	95
41) Bromodichloromethane	9.889	83	318030	46.298	ug/l	98
42) Vinyl Acetate	6.613	43	2608444	219.365	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	329762	44.238	ug/l	99
44) Isopropyl Acetate	8.695	43	546838	44.597	ug/l	99
45) 1,4-Dioxane	9.695	88	91131	911.712	ug/l	95
46) Methyl methacrylate	9.683	41	255561	43.227	ug/l	100
47) n-amyl Acetate	12.495	43	514464	49.361	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	335559	48.528	ug/l	96
49) cis-1,3-Dichloropropene	10.313	75	369429	48.330	ug/l	98
50) 1,1,2-Trichloroethane	11.019	97	225961	50.928	ug/l	99
51) Ethyl methacrylate	10.878	69	356569	50.612	ug/l	97
52) 1,3-Dichloropropane	11.166	76	393124	47.533	ug/l	98
53) Dibromochloromethane	11.360	129	245919	53.340	ug/l	98
54) 1,2-Dibromoethane	11.472	107	231061	51.465	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	779260	242.156	ug/l	99
56) Bromoform	12.577	173	176153	59.325	ug/l	96
58) 4-Methyl-2-Pentanone	10.448	43	1738241	208.851	ug/l	98
59) 2-Hexanone	11.195	43	1306210	215.853	ug/l	99
61) Tetrachloroethene	11.107	164	186847	49.096	ug/l	96
62) Toluene	10.630	91	1013483	45.914	ug/l	100
64) Chlorobenzene	11.895	112	624881	48.868	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.966	131	225747	46.567	ug/l	97
66) Ethyl Benzene	11.966	91	1127619	46.598	ug/l	97
67) m/p-Xylenes	12.072	106	892191	98.265	ug/l	99
68) o-Xylene	12.401	106	440464	49.242	ug/l	95
69) Styrene	12.413	104	727553	51.243	ug/l	98
70) Isopropylbenzene	12.695	105	1139240	47.526	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	352972	42.235	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	292157m	38.276	ug/l	
73) Bromobenzene	12.983	156	264483	46.499	ug/l	97
74) n-propylbenzene	13.036	91	1352459	43.991	ug/l	97
75) 2-Chlorotoluene	13.124	91	782648	40.469	ug/l	97
76) 1,3,5-Trimethylbenzene	13.177	105	949828	42.433	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	104450	45.368	ug/l	97
78) 4-Chlorotoluene	13.224	91	763147	39.246	ug/l	98
79) tert-butylbenzene	13.442	119	863237	45.434	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	964641	43.698	ug/l	99
81) sec-Butylbenzene	13.619	105	1228256	46.168	ug/l	98
82) p-Isopropyltoluene	13.730	119	1013739	47.423	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	507439	48.233	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	490337	46.715	ug/l	96
85) n-Butylbenzene	14.060	91	877806	44.220	ug/l	97
86) Hexachloroethane	14.336	117	187141	45.087	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	515090	44.601	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	66614	39.105	ug/l	86
89) 1,2,4-Trichlorobenzene	15.395	180	279782	58.088	ug/l	99
90) Hexachlorobutadiene	15.501	225	128186	55.091	ug/l	97
91) Naphthalene	15.642	128	914424	55.644	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	274931	57.191	ug/l	99

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

