

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020321\
 Data File : VN065696.D
 Acq On : 3 Feb 2021 13:14
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 10:33:11 AM

Quant Time: Feb 03 13:36:59 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 03 13:35:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.151	128	28965	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.547	114	165025	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.376	117	142851	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.987	65	60826	32.96	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.87%			
60) 4-Bromofluorobenzene	12.373	95	69601	31.52	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.07%			
63) Toluene-d8	10.055	98	208214	32.62	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 108.73%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.836	85	30193	20.38	ug/l	93
3) Chloromethane	2.036	50	44381	23.33	ug/l	100
4) Vinyl Chloride	2.167	62	44194	21.48	ug/l	98
5) Bromomethane	2.547	94	26475	18.84	ug/l	99
6) Chloroethane	2.682	64	25355	19.49	ug/l	100
7) Trichlorofluoromethane	2.997	101	45802	17.63	ug/l	96
8) Diethyl Ether	3.380	74	20927	19.44	ug/l	86
9) 1,1,2-Trichlorotrifluo...	3.720	101	28242	18.24	ug/l	92
10) 1,1-Dichloroethene	3.698	96	29785	18.60	ug/l	92
11) Methyl Iodide	3.907	142	41662	16.83	ug/l	98
12) Methyl Acetate	4.286	43	36303	22.26	ug/l	98
13) Acrolein	3.573	56	26693	98.98	ug/l	98
14) Acrylonitrile	4.942	53	80443	109.30	ug/l	97
15) Acetone	3.782	58	28536	122.71	ug/l	91
16) Carbon Disulfide	4.007	76	92053	22.39	ug/l	99
17) Allyl chloride	4.274	41	55396	22.98	ug/l	92
18) Methylene Chloride	4.499	84	35071	19.93	ug/l	95
19) trans-1,2-Dichloroethene	4.987	96	31959	19.59	ug/l	91
20) Diisopropyl ether	5.910	45	115012	22.94	ug/l	93
21) 1,1-Dichloroethane	5.801	63	62765	21.38	ug/l	98
22) cis-1,2-Dichloroethene	6.781	96	37270	19.64	ug/l	94
23) tert-Butyl Alcohol	4.759	59	30193	127.02	ug/l #	100
24) Methyl tert-Butyl Ether	5.000	73	98762	20.50	ug/l	99
25) Chloroform	7.331	83	57349	19.38	ug/l	95
26) Cyclohexane	7.611	56	58834	23.15	ug/l #	89
29) 1,1-Dichloropropene	7.749	75	45797	19.15	ug/l	97
30) 2-Butanone	6.794	43	108819	110.28	ug/l	97
31) 2,2-Dichloropropane	6.775	77	48881	19.74	ug/l	99
32) 1,1,1-Trichloroethane	7.527	97	45641	17.35	ug/l	98
33) Carbon Tetrachloride	7.730	117	37809	16.45	ug/l	95
34) Benzene	8.000	78	142905	19.44	ug/l	99
35) Methacrylonitrile	7.125	41	19907	20.05	ug/l	90
36) 1,2-Dichloroethane	8.084	62	43536	18.35	ug/l	97
37) Trichloroethene	8.801	130	34508	16.35	ug/l	87
38) Methylcyclohexane	9.045	83	54295	19.43	ug/l	94
39) 1,2-Dichloropropane	9.084	63	39068	20.32	ug/l	98
40) Dibromomethane	9.174	93	22323	17.87	ug/l	81
41) Bromodichloromethane	9.367	83	44157	18.09	ug/l #	97
42) Vinyl Acetate	5.849	43	457081	107.06	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.891	43	42851	20.50	ug/l	99
44) Isopropyl Acetate	8.129	43	74345	21.22	ug/l	98
45) 1,4-Dioxane	9.170	88	13021	497.95	ug/l	92
46) Methyl methacrylate	9.167	41	34685	20.20	ug/l	94
47) n-amyl Acetate	12.042	43	58126	19.34	ug/l	97
48) t-1,3-Dichloropropene	10.350	75	51443	18.67	ug/l	99
49) cis-1,3-Dichloropropene	9.804	75	58739	19.37	ug/l	99
50) 1,1,2-Trichloroethane	10.530	97	32102	17.58	ug/l	96
51) Ethyl methacrylate	10.399	69	51131	19.40	ug/l	96
52) 1,3-Dichloropropane	10.675	76	57750	18.78	ug/l	100
53) Dibromochloromethane	10.871	129	31442	15.73	ug/l	100
54) 1,2-Dibromoethane	10.974	107	31769	16.41	ug/l	99
55) 2-Chloroethyl vinyl ether	9.662	63	128264	108.26	ug/l	95
56) Bromoform	12.096	173	19732	13.00	ug/l #	96
58) 4-Methyl-2-Pentanone	9.952	43	215029	109.18	ug/l	98
59) 2-Hexanone	10.720	43	152871	107.29	ug/l	99
61) Tetrachloroethene	10.598	164	33682	15.34	ug/l	92
62) Toluene	10.122	91	145597	19.25	ug/l	100
64) Chlorobenzene	11.402	112	85151	17.62	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.479	131	29882	16.67	ug/l	97
66) Ethyl Benzene	11.479	91	155464	18.82	ug/l	99
67) m/p-Xylenes	11.592	106	116177	36.27	ug/l	97
68) o-Xylene	11.916	106	56703	18.27	ug/l	97
69) Styrene	11.936	104	88839	17.31	ug/l	97
70) Isopropylbenzene	12.219	105	145731	18.03	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.476	83	43365	18.74	ug/l	99
72) 1,2,3-Trichloropropane	12.524	75	44902m	20.11	ug/l	
73) Bromobenzene	12.495	156	32061	14.46	ug/l	68
74) n-propylbenzene	12.563	91	164981	18.16	ug/l	95
75) 2-Chlorotoluene	12.643	91	101901	18.54	ug/l	92
76) 1,3,5-Trimethylbenzene	12.704	105	120891	17.56	ug/l	97
77) t-1,4-Dichloro-2-butene	12.270	75	15543	19.58	ug/l	96
78) 4-Chlorotoluene	12.743	91	98364	17.81	ug/l	94
79) tert-butylbenzene	12.964	119	100018	16.98	ug/l	95
80) 1,2,4-Trimethylbenzene	13.009	105	120305	17.56	ug/l	99
81) sec-Butylbenzene	13.141	105	133992	17.50	ug/l	96
82) p-Isopropyltoluene	13.260	119	117218	16.52	ug/l	98
83) 1,3-Dichlorobenzene	13.254	146	55316	14.89	ug/l	96
84) 1,4-Dichlorobenzene	13.334	146	53293	14.65	ug/l	96
85) n-Butylbenzene	13.585	91	99807	17.47	ug/l	96
86) Hexachloroethane	13.845	117	19902	16.85	ug/l	75
87) 1,2-Dichlorobenzene	13.624	146	56225	15.33	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.241	75	8356	19.71	ug/l #	73
89) 1,2,4-Trichlorobenzene	14.878	180	26488	13.80	ug/l	98
90) Hexachlorobutadiene	14.977	225	13568	11.14	ug/l	97
91) Naphthalene	15.099	128	84214	16.96	ug/l	99
92) 1,2,3-Trichlorobenzene	15.279	180	27579	14.56	ug/l	97

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

