

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067721.D
 Acq On : 13 Jul 2021 16:59
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:30 AM

Quant Time: Jul 14 01:08:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:07:13 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	79959	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	470230	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	457894	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	197009	30.832	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	12.733	95	229053	31.120	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.733%			
63) Toluene-d8	10.443	98	632071	30.134	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.433%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.070	85	197291	48.085	ug/l	97
3) Chloromethane	2.301	50	245076	47.858	ug/l	99
4) Vinyl Chloride	2.443	62	389890	49.482	ug/l	99
5) Bromomethane	2.848	94	311903	47.127	ug/l	96
6) Chloroethane	3.014	64	298254	51.313	ug/l	99
7) Trichlorofluoromethane	3.371	101	730382	49.253	ug/l	98
8) Diethyl Ether	3.819	74	138478	50.529	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.205	101	200068m	46.759	ug/l	
10) 1,1-Dichloroethene	4.173	96	184805	46.364	ug/l	95
11) Methyl Iodide	4.411	142	250693	48.599	ug/l	98
12) Methyl Acetate	4.857	43	256057	47.982	ug/l	100
13) Acrolein	4.039	56	125861	203.951	ug/l #	46
14) Acrylonitrile	5.554	53	577381	250.486	ug/l	99
15) Acetone	4.288	58	137508	221.005	ug/l	90
16) Carbon Disulfide	4.524	76	490039	46.475	ug/l	98
17) Allyl chloride	4.835	41	336098	49.438	ug/l	97
18) Methylene Chloride	5.098	84	237121	45.676	ug/l	96
19) trans-1,2-Dichloroethene	5.594	96	222286	47.633	ug/l	97
20) Diisopropyl ether	6.501	45	823040	51.526	ug/l	95
21) 1,1-Dichloroethane	6.385	63	439471	49.742	ug/l	100
22) cis-1,2-Dichloroethene	7.327	96	283427	50.144	ug/l	96
23) tert-Butyl Alcohol	5.388	59	207220	229.031	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	782707	49.051	ug/l	98
25) Chloroform	7.817	83	498566	50.930	ug/l	99
26) Cyclohexane	8.096	56	386199	49.982	ug/l #	97
29) 1,1-Dichloropropene	8.222	75	361377	49.501	ug/l	98
30) 2-Butanone	7.340	43	834475	244.228	ug/l	99
31) 2,2-Dichloropropane	7.327	77	403360	48.246	ug/l	99
32) 1,1,1-Trichloroethane	8.013	97	444669	49.539	ug/l	98
33) Carbon Tetrachloride	8.206	117	386284	50.457	ug/l	98
34) Benzene	8.461	78	1087499	49.567	ug/l	96
35) Methacrylonitrile	7.638	41	173942	49.831	ug/l	99
36) 1,2-Dichloroethane	8.531	62	403688	50.040	ug/l	99
37) Trichloroethene	9.217	130	277859	48.414	ug/l	99
38) Methylcyclohexane	9.461	83	400869	48.970	ug/l	98
39) 1,2-Dichloropropane	9.491	63	274986	49.772	ug/l	98
40) Dibromomethane	9.579	93	199851	49.256	ug/l	98
41) Bromodichloromethane	9.765	83	397321	50.542	ug/l	98
42) Vinyl Acetate	6.434	43	3474452	254.105	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067721.D
 Acq On : 13 Jul 2021 16:59
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:30 AM

Quant Time: Jul 14 01:08:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:07:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	346889	48.627	ug/l	99
44) Isopropyl Acetate	8.566	43	623632	50.603	ug/l	98
45) 1,4-Dioxane	9.571	88	94179	985.135	ug/l	96
46) Methyl methacrylate	9.561	41	268604	50.001	ug/l	98
47) n-amyl Acetate	12.390	43	538224	52.560	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	439584	51.349	ug/l	96
49) cis-1,3-Dichloropropene	10.191	75	453938	50.457	ug/l	96
50) 1,1,2-Trichloroethane	10.902	97	286339	50.253	ug/l	98
51) Ethyl methacrylate	10.765	69	458258	51.562	ug/l	95
52) 1,3-Dichloropropane	11.047	76	481337	51.180	ug/l	98
53) Dibromochloromethane	11.240	129	313857	51.882	ug/l	97
54) 1,2-Dibromoethane	11.347	107	303127	51.168	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	423942	228.337	ug/l	98
56) Bromoform	12.460	173	215847	50.974	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	1966429	253.418	ug/l	98
59) 2-Hexanone	11.087	43	1395464	255.023	ug/l	98
61) Tetrachloroethene	10.979	164	275729	48.711	ug/l	98
62) Toluene	10.507	91	1320209	49.666	ug/l	99
64) Chlorobenzene	11.773	112	791693	49.390	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	300719	50.439	ug/l	99
66) Ethyl Benzene	11.848	91	1491356	50.690	ug/l	99
67) m/p-Xylenes	11.956	106	1147131	101.928	ug/l	98
68) o-Xylene	12.283	106	564738	50.756	ug/l	98
69) Styrene	12.296	104	948520	51.977	ug/l	99
70) Isopropylbenzene	12.581	105	1476253	51.448	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.830	83	421188	51.810	ug/l	100
72) 1,2,3-Trichloropropane	12.881	75	334712m	48.184	ug/l	
73) Bromobenzene	12.865	156	332396	50.400	ug/l	97
74) n-propylbenzene	12.924	91	1700451	52.006	ug/l	98
75) 2-Chlorotoluene	13.010	91	1015826	51.737	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	1230240	51.838	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	121731	51.811	ug/l	89
78) 4-Chlorotoluene	13.106	91	1021867	52.505	ug/l	98
79) tert-butylbenzene	13.326	119	1051186	52.263	ug/l	97
80) 1,2,4-Trimethylbenzene	13.369	105	1216511m	52.077	ug/l	
81) sec-Butylbenzene	13.503	105	1463203	52.406	ug/l	99
82) p-Isopropyltoluene	13.619	119	1218643	52.376	ug/l	98
83) 1,3-Dichlorobenzene	13.619	146	642516	52.155	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	626631	52.527	ug/l	99
85) n-Butylbenzene	13.946	91	990421	51.372	ug/l	99
86) Hexachloroethane	14.214	117	203639	51.257	ug/l	94
87) 1,2-Dichlorobenzene	13.989	146	617856	53.004	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	77697	52.636	ug/l	92
89) 1,2,4-Trichlorobenzene	15.265	180	271144	49.382	ug/l	98
90) Hexachlorobutadiene	15.373	225	131928	50.481	ug/l	96
91) Naphthalene	15.507	128	776958	51.701	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	257947	49.373	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067721.D
 Acq On : 13 Jul 2021 16:59
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:30 AM

Quant Time: Jul 14 01:08:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:07:13 2021
 Response via : Initial Calibration

