

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068399.D
 Acq On : 3 Sep 2021 11:04
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:38:52 PM

9/7/2021 4:38:52 PM

Quant Time: Sep 03 13:01:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	108203	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	564470	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.747	117	485426	30.000	ug/l	# 0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	203685	25.231	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	84.100%	#	
60) 4-Bromofluorobenzene	12.734	95	196591	25.726	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.767%		
63) Toluene-d8	10.443	98	679452	30.645	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.133%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.078	85	24546	4.298	ug/l	97
3) Chloromethane	2.309	50	25550	3.851	ug/l	94
4) Vinyl Chloride	2.451	62	36586	3.598	ug/l	90
5) Bromomethane	2.856	94	39366	4.554	ug/l	92
6) Chloroethane	3.022	64	27506m	3.730	ug/l	
7) Trichlorofluoromethane	3.384	101	53157	2.942	ug/l	93
8) Diethyl Ether	3.837	74	16450m	4.494	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.218	101	29695	5.026	ug/l	68
10) 1,1-Dichloroethene	4.189	96	27646	5.001	ug/l	# 77
11) Methyl Iodide	4.430	142	38828	5.189	ug/l	86
12) Methyl Acetate	4.862	43	30623	4.359	ug/l	# 80
13) Acrolein	4.049	56	14244	17.965	ug/l	99
14) Acrylonitrile	5.559	53	56144	18.696	ug/l	99
15) Acetone	4.291	58	16019	18.923	ug/l	# 60
16) Carbon Disulfide	4.540	76	75414	5.140	ug/l	100
17) Allyl chloride	4.849	41	30351	3.414	ug/l	93
18) Methylene Chloride	5.103	84	33727	4.863	ug/l	# 78
19) trans-1,2-Dichloroethene	5.605	96	31069	4.856	ug/l	# 74
20) Diisopropyl ether	6.498	45	73267	3.537	ug/l	# 93
21) 1,1-Dichloroethane	6.393	63	50094	4.274	ug/l	# 95
22) cis-1,2-Dichloroethene	7.332	96	35520m	4.631	ug/l	
23) tert-Butyl Alcohol	5.361	59	21039	17.999	ug/l	# 100
24) Methyl tert-Butyl Ether	5.621	73	86048	4.047	ug/l	# 71
25) Chloroform	7.817	83	59574	4.553	ug/l	99
26) Cyclohexane	8.096	56	41123	3.989	ug/l	# 78
29) 1,1-Dichloropropene	8.222	75	40472	4.563	ug/l	91
30) 2-Butanone	7.337	43	74314	18.602	ug/l	# 85
31) 2,2-Dichloropropane	7.324	77	46866	4.584	ug/l	# 90
32) 1,1,1-Trichloroethane	8.016	97	52740	4.757	ug/l	94
33) Carbon Tetrachloride	8.209	117	46783	4.874	ug/l	96
34) Benzene	8.461	78	121669	4.578	ug/l	# 94
35) Methacrylonitrile	7.635	41	14763	3.621	ug/l	86
36) 1,2-Dichloroethane	8.528	62	41716	4.379	ug/l	# 94
37) Trichloroethene	9.220	130	37229	5.143	ug/l	# 78
38) Methylcyclohexane	9.462	83	47639	4.641	ug/l	86
39) 1,2-Dichloropropane	9.491	63	29320	4.435	ug/l	94
40) Dibromomethane	9.580	93	22581	4.574	ug/l	78
41) Bromodichloromethane	9.762	83	42171	4.411	ug/l	# 97
42) Vinyl Acetate	6.436	43	262983m	16.403	ug/l	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068399.D
 Acq On : 3 Sep 2021 11:04
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:38:52 PM

9/7/2021 4:38:52 PM

Quant Time: Sep 03 13:01:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	27622	3.317	ug/l #	83
44) Isopropyl Acetate	8.560	43	52669	3.670	ug/l #	85
45) 1,4-Dioxane	9.569	88	8941	78.955	ug/l #	84
46) Methyl methacrylate	9.558	41	19452	3.093	ug/l	83
47) n-amyl Acetate	12.390	43	32088	2.745	ug/l #	88
48) t-1,3-Dichloropropene	10.722	75	38854	3.773	ug/l	95
49) cis-1,3-Dichloropropene	10.191	75	43091	3.969	ug/l #	84
50) 1,1,2-Trichloroethane	10.899	97	31779	4.561	ug/l	97
51) Ethyl methacrylate	10.762	69	36024	3.424	ug/l	78
52) 1,3-Dichloropropane	11.044	76	46882	4.147	ug/l	100
53) Dibromochloromethane	11.240	129	33189	4.341	ug/l	99
54) 1,2-Dibromoethane	11.344	107	31607	4.368	ug/l	100
55) 2-Chloroethyl vinyl ether	10.041	63	11711	5.869	ug/l #	89
56) Bromoform	12.457	173	23022	4.197	ug/l #	99
58) 4-Methyl-2-Pentanone	10.331	43	143081	17.997	ug/l #	90
59) 2-Hexanone	11.087	43	104787	18.685	ug/l	91
61) Tetrachloroethene	10.980	164	38788	5.967	ug/l	91
62) Toluene	10.508	91	138062	4.815	ug/l	99
64) Chlorobenzene	11.771	112	88428	5.049	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	32428	4.844	ug/l	98
66) Ethyl Benzene	11.846	91	139244	4.405	ug/l	90
67) m/p-Xylenes	11.956	106	112065	9.123	ug/l	77
68) o-Xylene	12.283	106	52558	4.345	ug/l	82
69) Styrene	12.296	104	80006	4.074	ug/l #	90
70) Isopropylbenzene	12.581	105	136945	4.391	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.827	83	37446	4.305	ug/l	95
72) 1,2,3-Trichloropropane	12.884	75	35834m	4.905	ug/l	
73) Bromobenzene	12.862	156	38031	5.096	ug/l	54
74) n-propylbenzene	12.924	91	145640	4.153	ug/l	88
75) 2-Chlorotoluene	13.010	91	90549	4.302	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.061	105	112266	4.343	ug/l	93
77) t-1,4-Dichloro-2-butene	12.629	75	7421	3.008	ug/l	94
78) 4-Chlorotoluene	13.106	91	90069	4.349	ug/l	84
79) tert-butylbenzene	13.326	119	99902	4.501	ug/l	83
80) 1,2,4-Trimethylbenzene	13.369	105	106099m	4.184	ug/l	
81) sec-Butylbenzene	13.503	105	134880	4.426	ug/l	91
82) p-Isopropyltoluene	13.619	119	109332	4.255	ug/l	90
83) 1,3-Dichlorobenzene	13.619	146	65285	4.730	ug/l	92
84) 1,4-Dichlorobenzene	13.696	146	63739	4.793	ug/l	92
85) n-Butylbenzene	13.943	91	87680	4.260	ug/l	96
86) Hexachloroethane	14.211	117	18667	4.230	ug/l	82
87) 1,2-Dichlorobenzene	13.991	146	63265	4.850	ug/l	92
88) 1,2-Dibromo-3-Chloropr...	14.606	75	6305	4.059	ug/l #	47
89) 1,2,4-Trichlorobenzene	15.265	180	32099	5.174	ug/l	96
90) Hexachlorobutadiene	15.370	225	19415	6.272	ug/l	99
91) Naphthalene	15.507	128	75967	4.737	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	34147	5.805	ug/l	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090321\
 Data File : VN068399.D
 Acq On : 3 Sep 2021 11:04
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/7/2021 4:38:52 PM

9/7/2021 4:38:52 PM

Quant Time: Sep 03 13:01:47 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 03 13:01:16 2021
 Response via : Initial Calibration

