

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064412.D
 Acq On : 2 Nov 2020 13:50
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/3/2020 2:20:41 PM

Quant Time: Nov 03 01:50:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 02 15:04:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.14	128	53740	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	294845	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	262114	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.98	65	132676	27.93	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.10%
60) 4-Bromofluorobenzene	12.37	95	130415	28.36	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.53%
63) Toluene-d8	10.05	98	355309	30.50	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	17336	4.104 ug/l	93
3) Chloromethane	2.04	50	18144	4.521 ug/l	99
4) Vinyl Chloride	2.16	62	18840	4.774 ug/l	98
5) Bromomethane	2.53	94	13206	5.382 ug/l	96
6) Chloroethane	2.68	64	10567	4.747 ug/l	99
7) Trichlorofluoromethane	2.98	101	32014	5.192 ug/l	99
8) Diethyl Ether	3.37	74	9865	5.083 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	16641	5.297 ug/l	79
10) 1,1-Dichloroethene	3.70	96	15486	5.180 ug/l	97
11) Methyl Iodide	3.90	142	17522	4.130 ug/l	96
12) Methyl Acetate	4.28	43	14946	4.266 ug/l #	84
13) Acrolein	3.57	56	4565m	17.706 ug/l	
14) Acrylonitrile	4.93	53	31083	20.287 ug/l	98
15) Acetone	3.77	58	11127m	24.180 ug/l	
16) Carbon Disulfide	4.01	76	42289	4.759 ug/l #	95
17) Allyl chloride	4.28	41	25716	4.550 ug/l	80
18) Methylene Chloride	4.51	84	18282	5.338 ug/l	97
19) trans-1,2-Dichloroethene	4.98	96	16556	5.030 ug/l #	85
20) Diisopropyl ether	5.90	45	51260	4.451 ug/l #	88
21) 1,1-Dichloroethane	5.79	63	32448	5.024 ug/l	98
22) cis-1,2-Dichloroethene	6.78	96	19971	5.270 ug/l	99
23) tert-Butyl Alcohol	4.72	59	11757	17.164 ug/l #	100
24) Methyl tert-Butyl Ether	4.98	73	52577	4.688 ug/l #	91
25) Chloroform	7.32	83	34753	5.185 ug/l	92
26) Cyclohexane	7.61	56	24214	4.610 ug/l #	99
29) 1,1-Dichloropropene	7.75	75	23296	4.661 ug/l	96
30) 2-Butanone	6.78	43	47862	20.192 ug/l #	74
31) 2,2-Dichloropropane	6.77	77	30632	5.081 ug/l #	59
32) 1,1,1-Trichloroethane	7.53	97	32409	5.119 ug/l	97
33) Carbon Tetrachloride	7.73	117	28144	4.868 ug/l #	92
34) Benzene	8.00	78	68557	5.049 ug/l #	75
35) Methacrylonitrile	7.14	41	12590m	5.221 ug/l	
36) 1,2-Dichloroethane	8.08	62	30381	5.102 ug/l	99
37) Trichloroethene	8.80	130	19705	5.304 ug/l	99
38) Methylcyclohexane	9.05	83	21250	4.416 ug/l	92
39) 1,2-Dichloropropane	9.08	63	17111	4.746 ug/l	96
40) Dibromomethane	9.17	93	12833	5.059 ug/l	94

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
 Data File : VN064412.D
 Acq On : 2 Nov 2020 13:50
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 11/3/2020 2:20:41 PM

Quant Time: Nov 03 01:50:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 02 15:04:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.37	83	26447	4.835	ug/l	98
42) Vinyl Acetate	5.84	43	212727m	21.332	ug/l	
43) Ethyl Acetate	6.87	43	20707m	4.461	ug/l	
44) Isopropyl Acetate	8.12	43	34022	3.932	ug/l #	80
45) 1,4-Dioxane	9.16	88	4775	72.738	ug/l	96
46) Methyl methacrylate	9.16	41	16325	3.873	ug/l	94
47) n-amyl Acetate	12.05	43	24412	3.351	ug/l #	80
48) t-1,3-Dichloropropene	10.35	75	28997	4.776	ug/l	99
49) cis-1,3-Dichloropropene	9.80	75	29652	4.734	ug/l	95
50) 1,1,2-Trichloroethane	10.52	97	16761	4.942	ug/l	97
51) Ethyl methacrylate	10.40	69	21323	4.097	ug/l	91
52) 1,3-Dichloropropane	10.68	76	26443	4.455	ug/l	98
53) Dibromochloromethane	10.87	129	19727	4.770	ug/l	97
54) 1,2-Dibromoethane	10.98	107	17880	4.939	ug/l	99
55) 2-Chloroethyl vinyl ether	9.66	63	72432	27.813	ug/l	98
56) Bromoform	12.10	173	12994	4.439	ug/l #	96
58) 4-Methyl-2-Pentanone	9.95	43	101276	21.574	ug/l	99
59) 2-Hexanone	10.72	43	69205	19.575	ug/l	98
61) Tetrachloroethene	10.60	164	18994	5.414	ug/l	96
62) Toluene	10.12	91	78946	5.454	ug/l	100
64) Chlorobenzene	11.40	112	47914	5.302	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	17025	4.775	ug/l	95
66) Ethyl Benzene	11.48	91	82030	5.009	ug/l	98
67) m/p-Xylenes	11.59	106	59165	9.755	ug/l	99
68) o-Xylene	11.92	106	29337	4.928	ug/l	97
69) Styrene	11.94	104	45132	4.583	ug/l	98
70) Isopropylbenzene	12.22	105	76106	4.857	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.48	83	20173	4.560	ug/l	98
72) 1,2,3-Trichloropropane	12.52	75	21743m	4.748	ug/l	
73) Bromobenzene	12.50	156	18415	4.736	ug/l	92
74) n-propylbenzene	12.56	91	77053	4.343	ug/l	97
75) 2-Chlorotoluene	12.64	91	49902	4.529	ug/l	99
76) 1,3,5-Trimethylbenzene	12.70	105	60254	4.578	ug/l	96
77) t-1,4-Dichloro-2-butene	12.27	75	5962	3.466	ug/l	88
78) 4-Chlorotoluene	12.75	91	49897	4.339	ug/l	98
79) tert-butylbenzene	12.96	119	46435	4.270	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	60764	4.570	ug/l	99
81) sec-Butylbenzene	13.14	105	59815	4.270	ug/l	96
82) p-Isopropyltoluene	13.26	119	52449	4.085	ug/l	100
83) 1,3-Dichlorobenzene	13.25	146	31106	4.635	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	31228	4.622	ug/l	96
85) n-Butylbenzene	13.59	91	38218	3.442	ug/l	95
86) Hexachloroethane	13.85	117	9419	3.959	ug/l	93
87) 1,2-Dichlorobenzene	13.63	146	28294	4.279	ug/l	90
88) 1,2-Dibromo-3-Chloropropan	14.24	75	3621	3.335	ug/l #	84
89) 1,2,4-Trichlorobenzene	14.88	180	11411	3.125	ug/l	93
90) Hexachlorobutadiene	14.98	225	8456	4.295	ug/l	91
91) Naphthalene	15.10	128	32008	2.963	ug/l	98
92) 1,2,3-Trichlorobenzene	15.28	180	12743	3.644	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110220\
Data File : VN064412.D
Acq On : 2 Nov 2020 13:50
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

MMDadoda
11/3/2020 2:20:41 PM

Quant Time: Nov 03 01:50:49 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110220W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 02 15:04:18 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

