

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050202.D
 Acq On : 31 Jul 2018 8:17
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/1/2018 11:13:50 AM

Quant Time: Jul 31 17:40:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	130362	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	727741	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	623920	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	272822	30.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.63%
60) 4-Bromofluorobenzene	12.40	95	278716	29.08	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.93%
63) Toluene-d8	10.09	98	907583	30.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	185712	20.672	ug/l 98
3) Chloromethane	2.06	50	170246	18.381	ug/l 100
4) Vinyl Chloride	2.18	62	186257	18.888	ug/l 99
5) Bromomethane	2.57	94	44620	7.423	ug/l 99
6) Chloroethane	2.70	64	114109	19.566	ug/l 98
7) Trichlorofluoromethane	3.01	101	260213	20.194	ug/l 100
8) Diethyl Ether	3.41	74	83007	19.204	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	164550	20.992	ug/l 98
10) 1,1-Dichloroethene	3.74	96	136566	19.649	ug/l 94
11) Methyl Iodide	3.95	142	52836	5.166	ug/l 98
12) Methyl Acetate	4.33	43	165411	20.776	ug/l 98
13) Acrolein	3.61	56	13592	27.623	ug/l 100
14) Acrylonitrile	4.99	53	227047	85.461	ug/l # 89
15) Acetone	3.82	58	66134	93.666	ug/l 97
16) Carbon Disulfide	4.05	76	395107	18.575	ug/l 99
17) Allyl chloride	4.32	41	215809	19.661	ug/l 99
18) Methylene Chloride	4.55	84	159865	19.932	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	148058	19.897	ug/l 98
20) Diisopropyl ether	5.95	45	458043	20.351	ug/l 97
21) 1,1-Dichloroethane	5.85	63	283008	19.998	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	164989	19.993	ug/l 100
23) tert-Butyl Alcohol	4.79	59	42655	71.853	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	353727	18.661	ug/l 100
25) Chloroform	7.37	83	291314	20.334	ug/l 98
26) Cyclohexane	7.65	56	223143	19.842	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	212181	18.787	ug/l 99
30) 2-Butanone	6.84	43	274126	77.349	ug/l 99
31) 2,2-Dichloropropane	6.83	77	237647	19.036	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	248239	18.674	ug/l 98
33) Carbon Tetrachloride	7.77	117	218842	18.468	ug/l 97
34) Benzene	8.04	78	643251	18.754	ug/l 99
35) Methacrylonitrile	7.18	41	62272	15.432	ug/l 94
36) 1,2-Dichloroethane	8.13	62	201092	17.856	ug/l 100
37) Trichloroethene	8.83	130	169222	18.811	ug/l 98
38) Methylcyclohexane	9.08	83	219096	18.402	ug/l 99
39) 1,2-Dichloropropane	9.12	63	169543	18.764	ug/l 98
40) Dibromomethane	9.21	93	99720	17.857	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050202.D
 Acq On : 31 Jul 2018 8:17
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/1/2018 11:13:50 AM

Quant Time: Jul 31 17:40:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	225027	19.103	ug/l	98
42) Vinyl Acetate	5.90	43	1384351	83.008	ug/l	99
43) Ethyl Acetate	6.93	43	115677	15.631	ug/l	94
44) Isopropyl Acetate	8.17	43	240586	17.549	ug/l	94
45) 1,4-Dioxane	9.20	88	27337	303.030	ug/l	96
46) Methyl methacrylate	9.20	41	103655	15.597	ug/l	98
47) n-amyl Acetate	12.07	43	153190	14.360	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	202252	18.013	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	239592	18.161	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	143681	17.925	ug/l	99
51) Ethyl methacrylate	10.43	69	155485	15.981	ug/l	99
52) 1,3-Dichloropropane	10.71	76	235112	17.862	ug/l	99
53) Dibromochloromethane	10.90	129	162893	17.906	ug/l	99
54) 1,2-Dibromoethane	11.00	107	134146	17.087	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	350672	79.638	ug/l	100
56) Bromoform	12.13	173	103020	16.038	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	589293	81.171	ug/l	99
59) 2-Hexanone	10.75	43	386934	78.123	ug/l	99
61) Tetrachloroethene	10.63	164	160399	18.980	ug/l	96
62) Toluene	10.16	91	687705	19.319	ug/l	100
64) Chlorobenzene	11.44	112	417841	19.357	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	161321	19.160	ug/l	98
66) Ethyl Benzene	11.51	91	691513	19.009	ug/l	99
67) m/p-Xylenes	11.62	106	540965	38.641	ug/l	100
68) o-Xylene	11.95	106	253125	19.004	ug/l	100
69) Styrene	11.96	104	404881	18.961	ug/l	99
70) Isopropylbenzene	12.25	105	687169	19.371	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	167575	17.205	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	138856m	16.692	ug/l	
73) Bromobenzene	12.53	156	172563	18.261	ug/l	99
74) n-propylbenzene	12.59	91	787431	19.059	ug/l	98
75) 2-Chlorotoluene	12.67	91	473568	19.084	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	565650	19.414	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	39858	14.655	ug/l	94
78) 4-Chlorotoluene	12.77	91	473988	19.275	ug/l	100
79) tert-butylbenzene	12.99	119	474402	19.044	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	567401	19.221	ug/l	98
81) sec-Butylbenzene	13.17	105	650969	19.237	ug/l	100
82) p-Isopropyltoluene	13.29	119	555697	19.246	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	303765	18.461	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	282122	18.143	ug/l	99
85) n-Butylbenzene	13.62	91	421789	18.000	ug/l	99
86) Hexachloroethane	13.88	117	104039	18.031	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	300619	18.691	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21992	14.494	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	119584	15.566	ug/l	99
90) Hexachlorobutadiene	15.01	225	96851	19.121	ug/l	99
91) Naphthalene	15.14	128	213761	16.517	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	123829	15.849	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
Data File : VN050202.D
Acq On : 31 Jul 2018 8:17
Operator : MD\SY
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Manual Integrations
APPROVED

MMDadoda
8/1/2018 11:13:50 AM

Quant Time: Jul 31 17:40:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration

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

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

