

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056323.D
 Acq On : 14 Jun 2019 19:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59309	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	317039	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	278278	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	120083	32.60	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.67%
60) 4-Bromofluorobenzene	12.40	95	121809	29.53	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.43%
63) Toluene-d8	10.09	98	391505	31.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	72646	21.778	ug/l 98
3) Chloromethane	2.06	50	84152	21.591	ug/l 99
4) Vinyl Chloride	2.18	62	85478	21.511	ug/l 99
5) Bromomethane	2.54	94	48298	19.340	ug/l 97
6) Chloroethane	2.69	64	47980	21.347	ug/l 95
7) Trichlorofluoromethane	3.01	101	103069	20.963	ug/l 97
8) Diethyl Ether	3.40	74	41601	19.950	ug/l 94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	64323	21.194	ug/l 98
10) 1,1-Dichloroethene	3.72	96	62743	20.266	ug/l 95
11) Methyl Iodide	3.94	142	80234	16.426	ug/l 99
12) Methyl Acetate	4.33	43	83593	22.470	ug/l 94
13) Acrolein	3.60	56	19998	110.285	ug/l 98
14) Acrylonitrile	4.99	53	181779	109.567	ug/l 99
15) Acetone	3.82	58	55959	103.012	ug/l 95
16) Carbon Disulfide	4.04	76	145970	19.816	ug/l 99
17) Allyl chloride	4.32	41	100905	21.036	ug/l 99
18) Methylene Chloride	4.54	84	77549	21.637	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	66678	20.177	ug/l 89
20) Diisopropyl ether	5.96	45	217305	21.865	ug/l 98
21) 1,1-Dichloroethane	5.85	63	124955	21.635	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	80386	20.841	ug/l 97
23) tert-Butyl Alcohol	4.81	59	56815	87.980	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	202700	20.544	ug/l 98
25) Chloroform	7.37	83	125695	21.794	ug/l 100
26) Cyclohexane	7.65	56	109655	20.464	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	89701	20.917	ug/l 99
30) 2-Butanone	6.85	43	247603	109.672	ug/l 98
31) 2,2-Dichloropropane	6.82	77	80260	20.118	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	101587	21.440	ug/l 98
33) Carbon Tetrachloride	7.77	117	87056	21.687	ug/l 98
34) Benzene	8.04	78	286505	20.968	ug/l 97
35) Methacrylonitrile	7.18	41	42757	22.427	ug/l 95
36) 1,2-Dichloroethane	8.13	62	95616	22.340	ug/l 95
37) Trichloroethene	8.83	130	76287	19.952	ug/l 94
38) Methylcyclohexane	9.08	83	107955	19.857	ug/l 98
39) 1,2-Dichloropropane	9.12	63	77140	22.043	ug/l 91
40) Dibromomethane	9.21	93	50844	21.912	ug/l 95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
 Data File : VN056323.D
 Acq On : 14 Jun 2019 19:37
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	94931	22.848	ug/l	100
42) Vinyl Acetate	5.90	43	878656	109.164	ug/l	98
43) Ethyl Acetate	6.94	43	87523	20.256	ug/l	96
44) Isopropyl Acetate	8.17	43	137232	20.456	ug/l	99
45) 1,4-Dioxane	9.21	88	28012	390.323	ug/l	93
46) Methyl methacrylate	9.20	41	72077	21.627	ug/l	95
47) n-amyl Acetate	12.07	43	111748	20.142	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	87922	20.107	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	107039	20.905	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	72664	21.084	ug/l	98
51) Ethyl methacrylate	10.43	69	102989	19.752	ug/l	97
52) 1,3-Dichloropropane	10.71	76	121468	21.740	ug/l	99
53) Dibromochloromethane	10.90	129	72597	21.518	ug/l	99
54) 1,2-Dibromoethane	11.00	107	75184	20.905	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	158626	86.856	ug/l	98
56) Bromoform	12.13	173	51630	21.154	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	464539	110.242	ug/l	97
59) 2-Hexanone	10.75	43	328186	108.966	ug/l	99
61) Tetrachloroethene	10.63	164	74992	19.336	ug/l	99
62) Toluene	10.16	91	309540	20.605	ug/l	99
64) Chlorobenzene	11.43	112	189624	20.810	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	71381	21.724	ug/l	98
66) Ethyl Benzene	11.51	91	326617	20.413	ug/l	97
67) m/p-Xylenes	11.62	106	241100	39.367	ug/l	94
68) o-Xylene	11.95	106	120670	20.126	ug/l	98
69) Styrene	11.96	104	190531	19.559	ug/l	98
70) Isopropylbenzene	12.25	105	316244	20.188	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	103129	21.836	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	83969m	20.537	ug/l	
73) Bromobenzene	12.53	156	81035	19.489	ug/l	95
74) n-propylbenzene	12.59	91	326963	19.778	ug/l	99
75) 2-Chlorotoluene	12.67	91	207395	20.226	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	256707	19.922	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	22267	19.086	ug/l	93
78) 4-Chlorotoluene	12.77	91	184920	19.310	ug/l	99
79) tert-butylbenzene	12.99	119	232121	20.332	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	243847	19.453	ug/l	99
81) sec-Butylbenzene	13.17	105	289237	20.028	ug/l	99
82) p-Isopropyltoluene	13.29	119	244525	18.727	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	118766	18.328	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	107665	17.443	ug/l	99
85) n-Butylbenzene	13.62	91	161289	16.551	ug/l	99
86) Hexachloroethane	13.88	117	44160	21.694	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	121805	18.493	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15025	20.266	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	38573	16.903	ug/l	100
90) Hexachlorobutadiene	15.01	225	44513	18.512	ug/l	99
91) Naphthalene	15.13	128	110442	12.625	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	48128	13.959	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
Data File : VN056323.D
Acq On : 14 Jun 2019 19:37
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration

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

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

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061419\
Data File : VN056323.D
Acq On : 14 Jun 2019 19:37
Operator : JC/SP
Sample : VSTDCCC020
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Manual Integrations
APPROVED

MMDadoda
6/17/2019 9:45:22 AM

Quant Time: Jun 14 23:51:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 2019
Response via : Initial Calibration

