

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031622\
 Data File : VN071322.D
 Acq On : 16 Mar 2022 16:00
 Operator : JC\MD
 Sample : N1886-03 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30969

Quant Time: Mar 17 05:18:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030722W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 08 06:52:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.081	168	807024	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1326603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1253500	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.668	152	493630	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	504037	45.571	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	91.140%
35) Dibromofluoromethane	8.022	113	387644	46.306	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	92.620%
50) Toluene-d8	10.439	98	1654691	49.093	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	98.180%
62) 4-Bromofluorobenzene	12.727	95	627765	55.002	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	110.000%

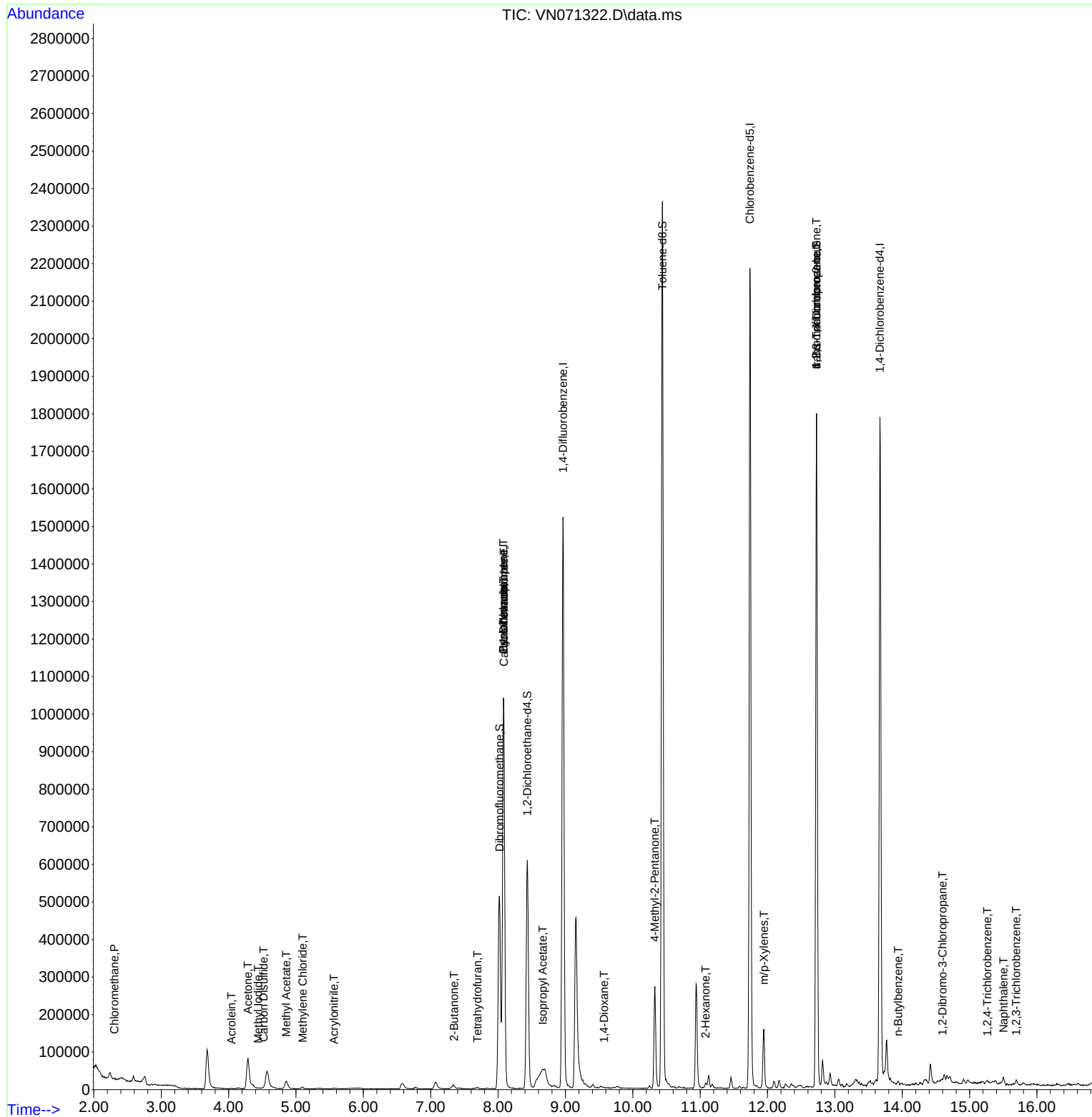
Target Compounds				Qvalue		
3) Chloromethane	2.305	50	3002	0.218	ug/l	93
5) Bromomethane	2.852	94	1763	Below Cal	#	46
10) Methyl Iodide	4.440	142	2358	0.202	ug/l	# 77
13) Acrolein	4.040	56	1049	0.456	ug/l	# 51
15) Acrylonitrile	5.563	53	1675	0.260	ug/l	# 58
16) Acetone	4.287	43	151454	28.142	ug/l	# 99
17) Carbon Disulfide	4.522	76	5725	0.249	ug/l	# 74
18) Methyl Acetate	4.857	43	41752	3.332	ug/l	# 99
20) Methylene Chloride	5.098	84	2701	0.654	ug/l	# 79
25) 2-Butanone	7.345	43	16915	1.951	ug/l	# 86
29) Tetrahydrofuran	7.692	42	2933	0.488	ug/l	# 77
31) Cyclohexane	8.081	56	17204	0.974	ug/l	# 1
36) 1,1-Dichloropropene	8.081	75	64333	4.796	ug/l	# 49
38) Carbon Tetrachloride	8.086	117	78811	6.075	ug/l	# 16
43) Isopropyl Acetate	8.663	43	90475	3.278	ug/l	# 55
49) 1,4-Dioxane	9.575	88	59	0.265	ug/l	# 27
51) 4-Methyl-2-Pentanone	10.328	43	190825	11.139	ug/l	# 99
59) 2-Hexanone	11.080	43	10228	0.875	ug/l	# 88
68) m/p-Xylenes	11.945	106	44114	2.533	ug/l	# 95
75) 1,1,2,2-Tetrachloroethane	12.821	83	1826	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.727	75	324266	25.734	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	324266	71.011	ug/l	# 5
89) n-Butylbenzene	13.939	91	5801	0.215	ug/l	# 93
92) 1,2-Dibromo-3-Chloropr...	14.598	75	781	0.282	ug/l	# 89
93) 1,2,4-Trichlorobenzene	15.262	180	4143	3.471	ug/l	# 90
95) Naphthalene	15.504	128	19717	5.851	ug/l	# 100
96) 1,2,3-Trichlorobenzene	15.692	180	4613	3.295	ug/l	# 91

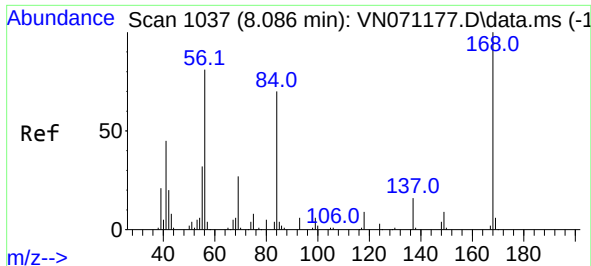
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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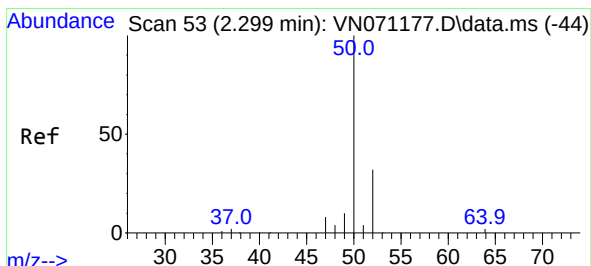
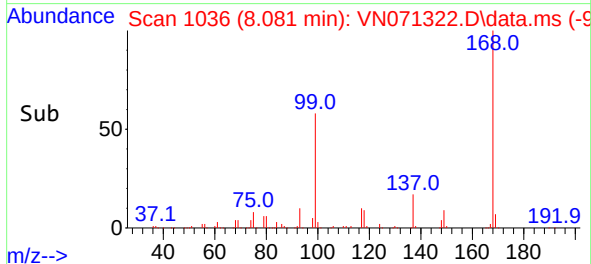
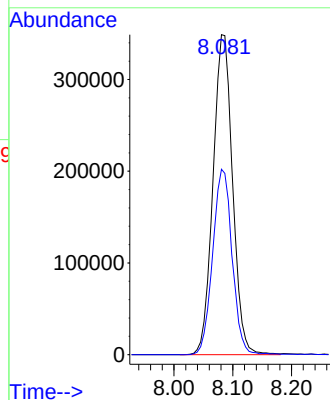
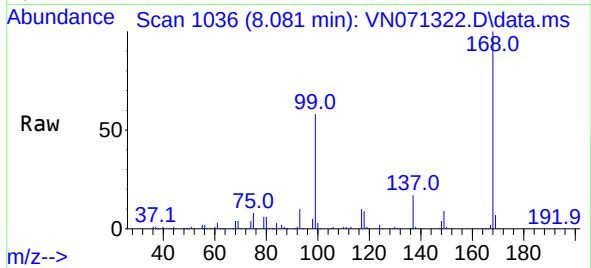




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.005 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

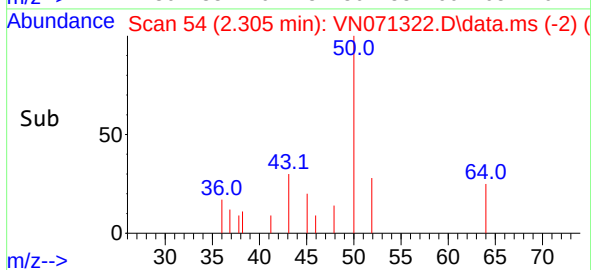
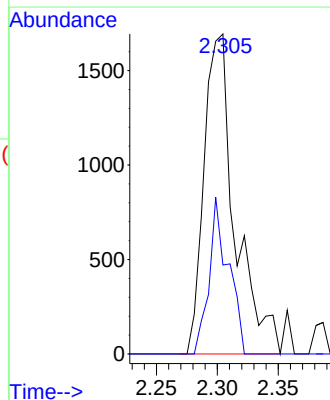
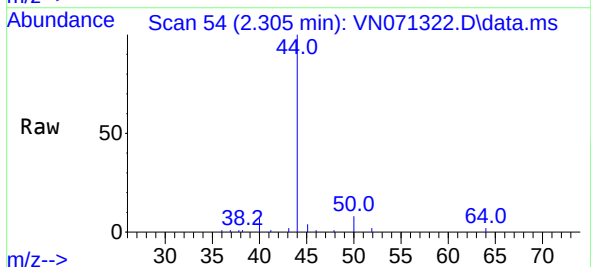
Instrument :
MSVOA_N
ClientSampleId :
30969

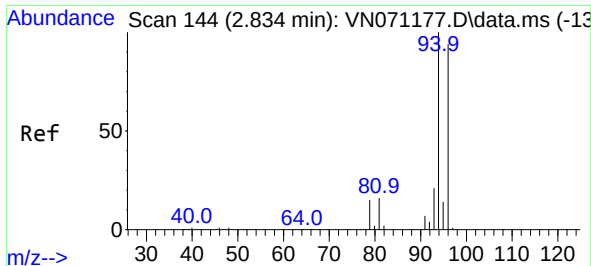
Tgt Ion:168 Resp: 807024
Ion Ratio Lower Upper
168 100
99 57.9 41.3 61.9



#3
Chloromethane
Concen: 0.218 ug/l
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 50 Resp: 3002
Ion Ratio Lower Upper
50 100
52 27.8 25.4 38.0

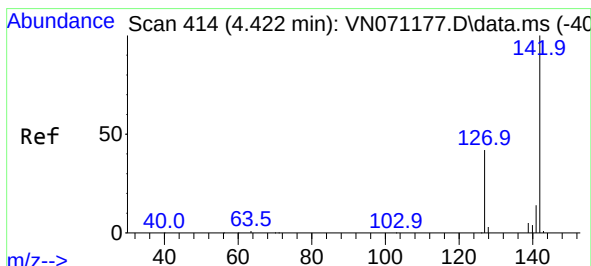
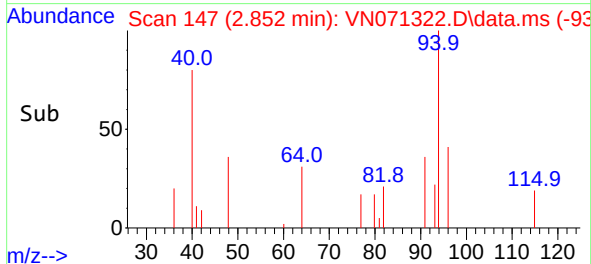
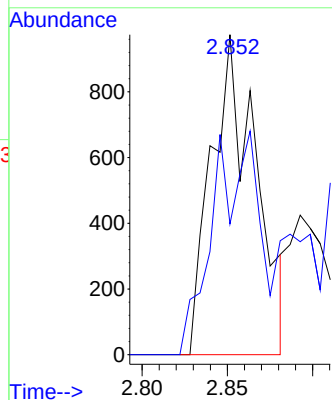
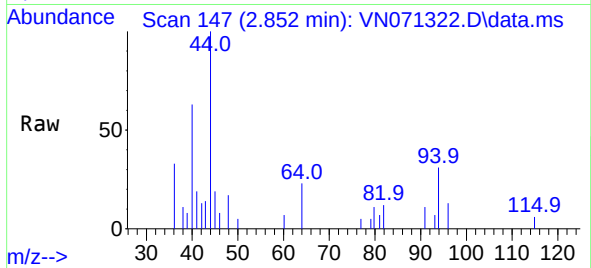




#5
Bromomethane
Concen: Below Cal
RT: 2.852 min Scan# 147
Delta R.T. 0.018 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

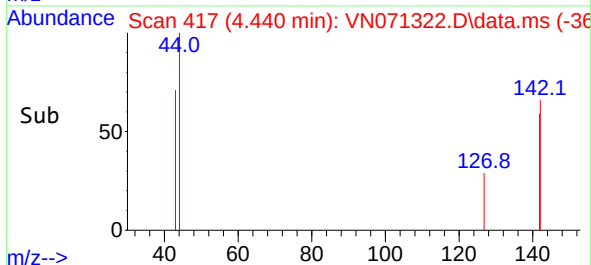
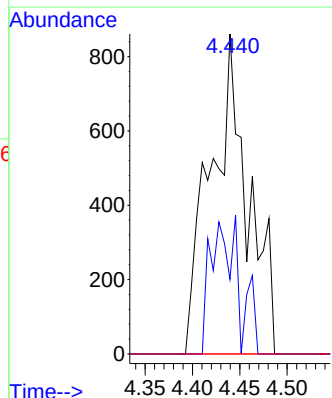
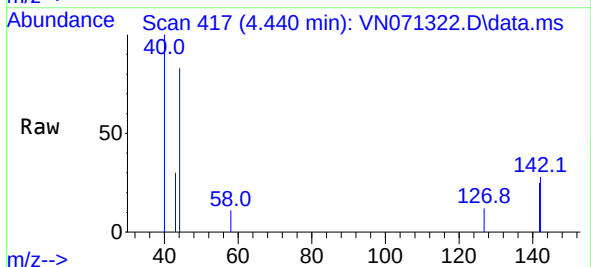
Instrument :
MSVOA_N
ClientSampleId :
30969

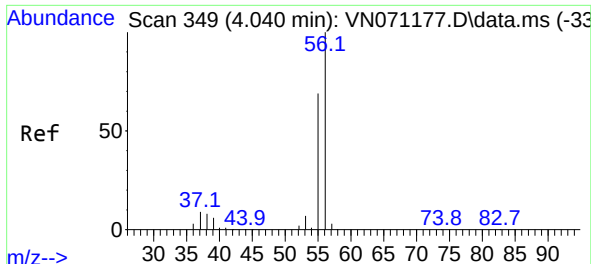
Tgt Ion: 94 Resp: 1763
Ion Ratio Lower Upper
94 100
96 40.9 73.8 110.8#



#10
Methyl Iodide
Concen: 0.202 ug/l
RT: 4.440 min Scan# 417
Delta R.T. 0.018 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 142 Resp: 2358
Ion Ratio Lower Upper
142 100
127 31.9 35.4 53.0#
141 0.0 11.6 17.4#

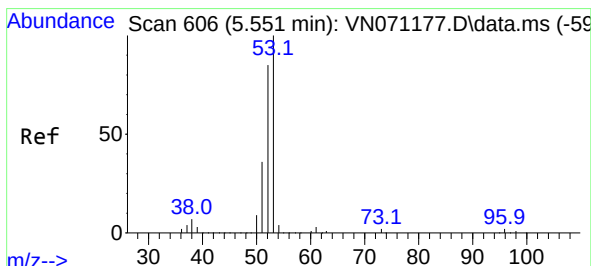
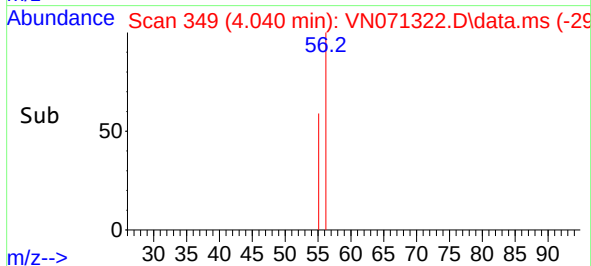
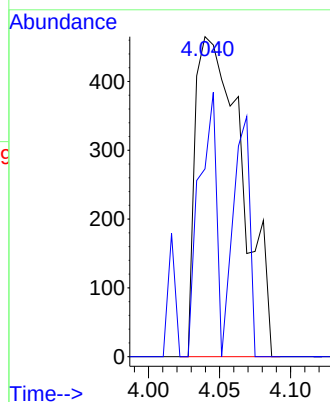
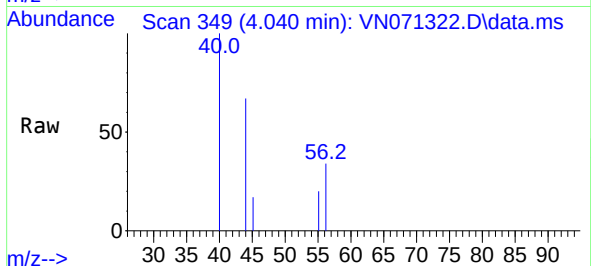




#13
Acrolein
Concen: 0.456 ug/l
RT: 4.040 min Scan# 349
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

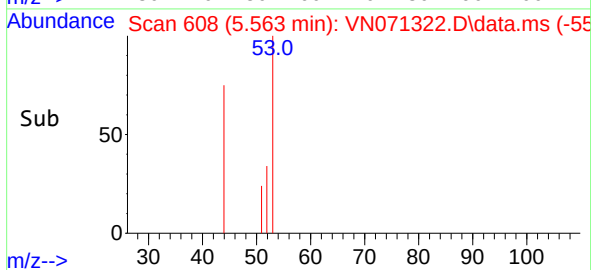
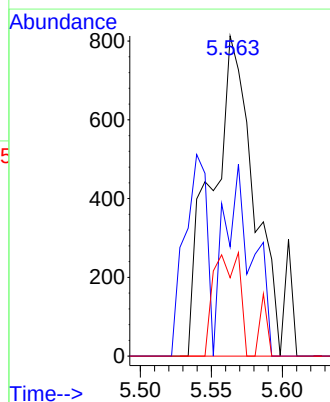
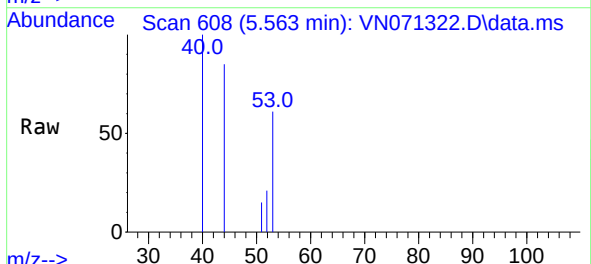
Instrument :
MSVOA_N
ClientSampleId :
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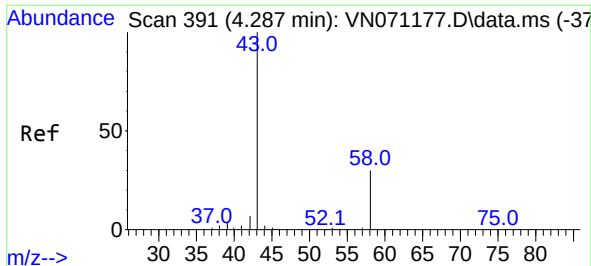
Tgt Ion: 56 Resp: 1049
Ion Ratio Lower Upper
56 100
55 30.7 56.6 85.0#



#15
Acrylonitrile
Concen: 0.260 ug/l
RT: 5.563 min Scan# 608
Delta R.T. 0.012 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 53 Resp: 1675
Ion Ratio Lower Upper
53 100
52 40.2 66.2 99.2#
51 19.7 29.6 44.4#

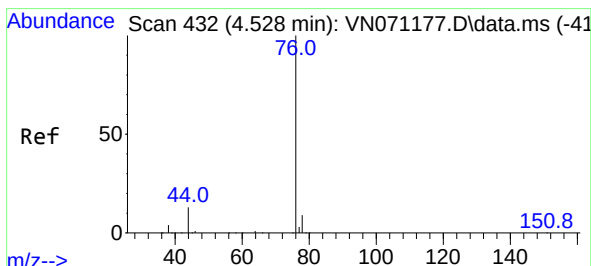
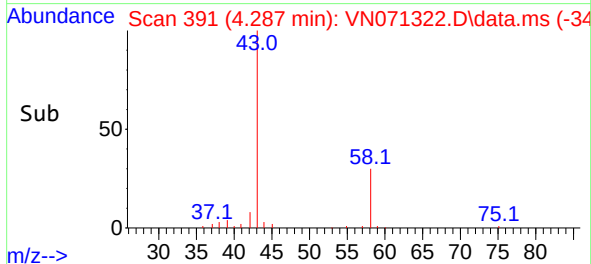
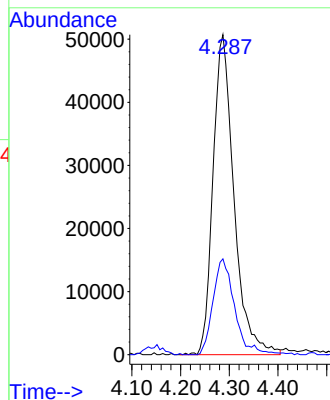
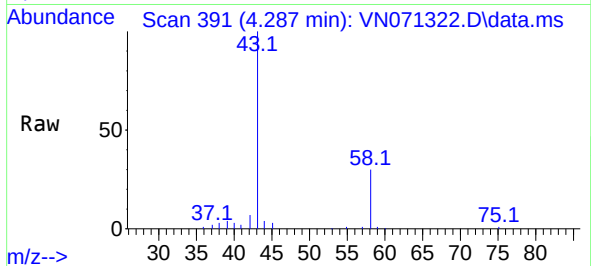




#16
Acetone
Concen: 28.142 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

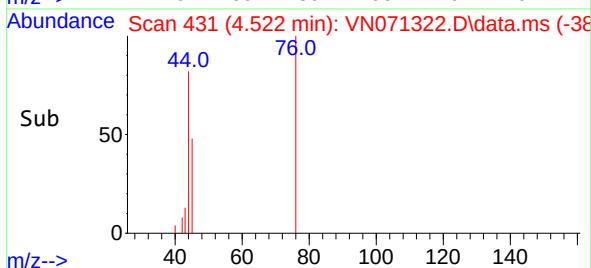
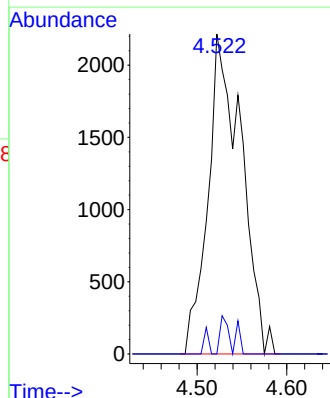
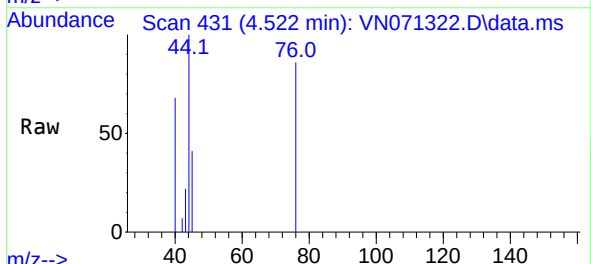
Instrument :
MSVOA_N
ClientSampleId :
30969

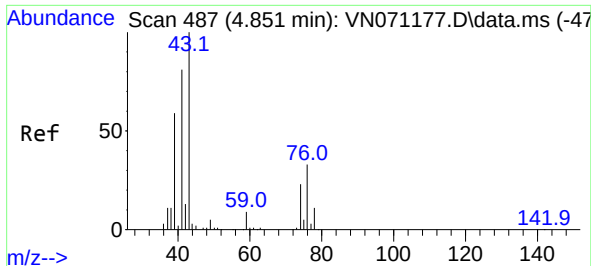
Tgt Ion: 43 Resp: 151454
Ion Ratio Lower Upper
43 100
58 29.6 23.1 34.7



#17
Carbon Disulfide
Concen: 0.249 ug/l
RT: 4.522 min Scan# 431
Delta R.T. -0.006 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 76 Resp: 5725
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#

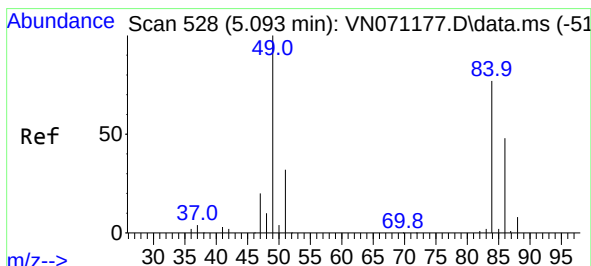
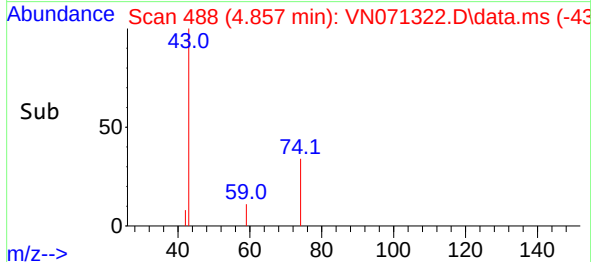
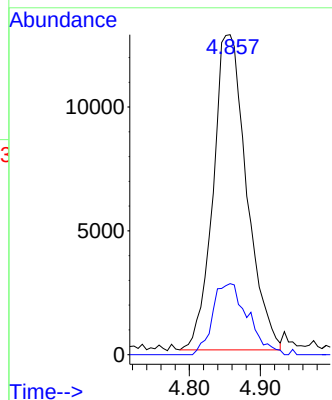
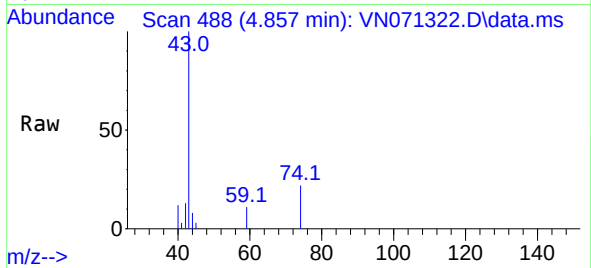




#18
Methyl Acetate
Concen: 3.332 ug/l
RT: 4.857 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

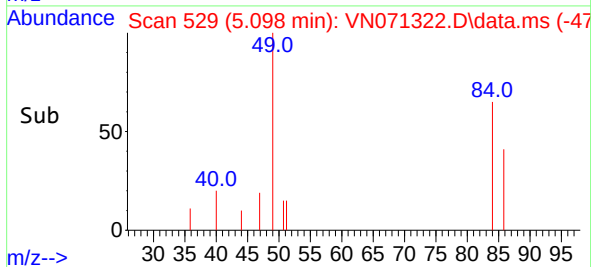
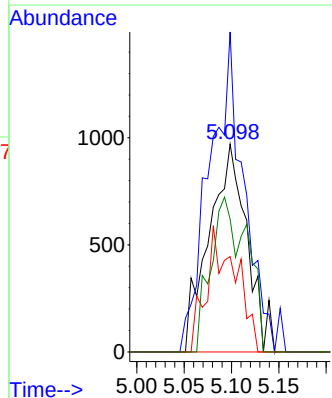
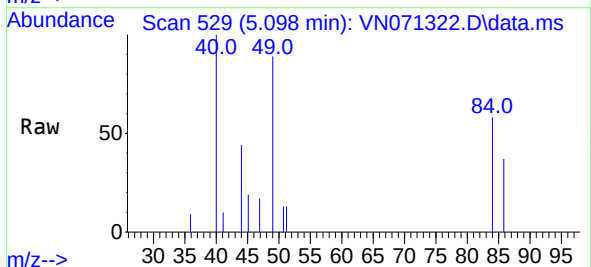
Instrument :
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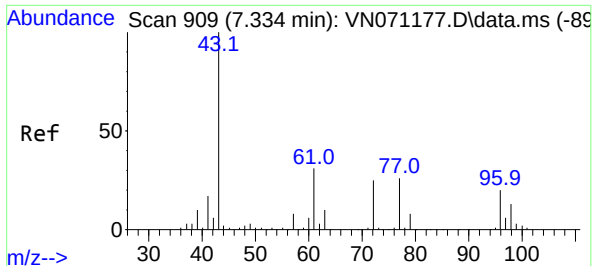
Tgt Ion: 43 Resp: 41752
Ion Ratio Lower Upper
43 100
74 23.7 19.4 29.2



#20
Methylene Chloride
Concen: 0.654 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 84 Resp: 2701
Ion Ratio Lower Upper
84 100
49 154.0 93.5 140.3#
51 45.9 29.4 44.2#
86 63.9 53.0 79.4





#25

2-Butanone

Concen: 1.951 ug/l

RT: 7.345 min Scan# 911

Delta R.T. 0.012 min

Lab File: VN071322.D

Acq: 16 Mar 2022 16:00

Instrument :

MSVOA_N

ClientSampleId :

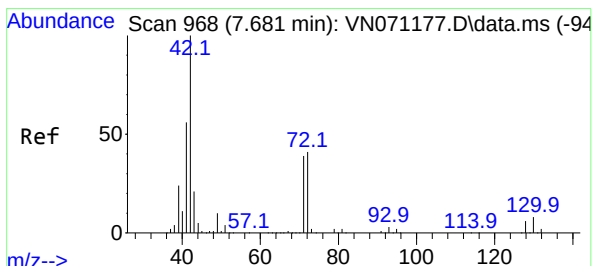
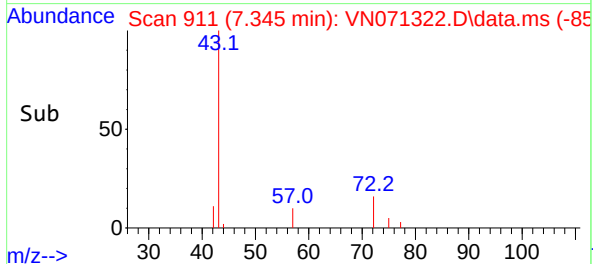
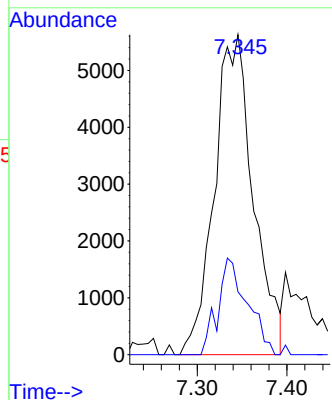
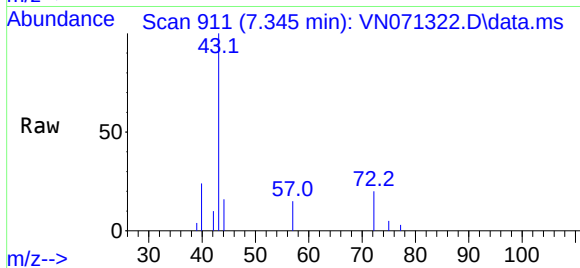
30969

Tgt Ion: 43 Resp: 16915

Ion Ratio Lower Upper

43 100

72 19.7 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.488 ug/l

RT: 7.692 min Scan# 970

Delta R.T. 0.012 min

Lab File: VN071322.D

Acq: 16 Mar 2022 16:00

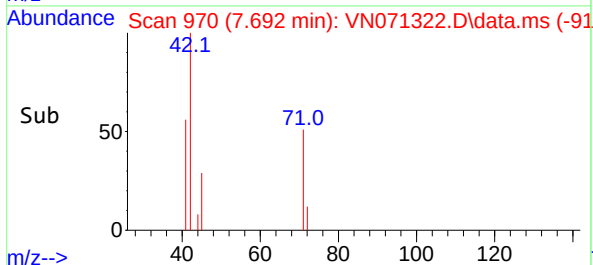
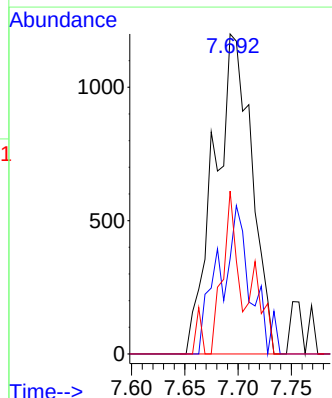
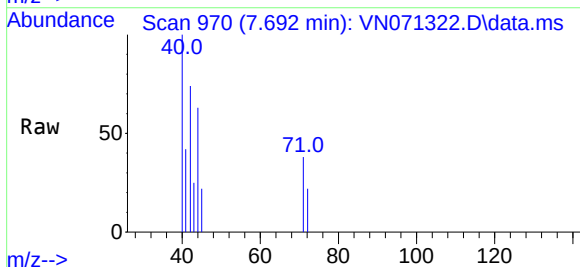
Tgt Ion: 42 Resp: 2933

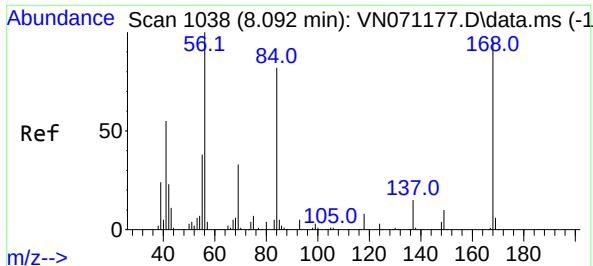
Ion Ratio Lower Upper

42 100

72 38.8 36.3 54.5

71 19.8 34.7 52.1#





#31

Cyclohexane

Concen: 0.974 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN071322.D

Acq: 16 Mar 2022 16:00

Instrument :

MSVOA_N

ClientSampleId :

30969

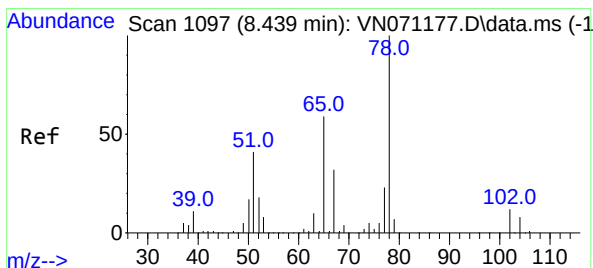
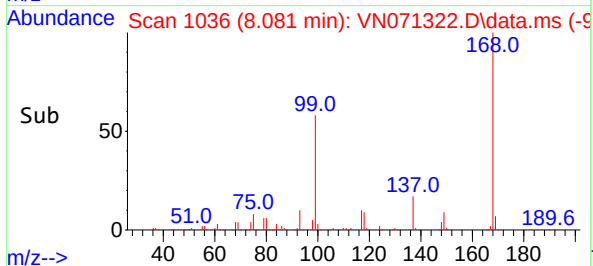
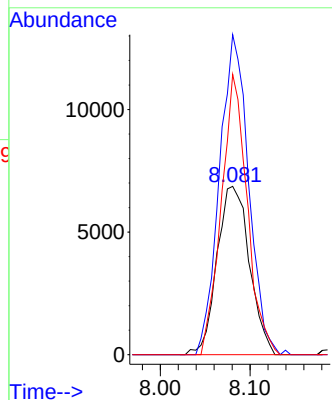
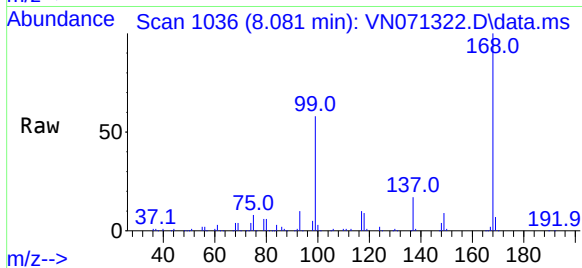
Tgt Ion: 56 Resp: 17204

Ion Ratio Lower Upper

56 100

69 190.2 27.1 40.7#

84 166.6 73.4 110.0#



#33

1,2-Dichloroethane-d4

Concen: 45.571 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.006 min

Lab File: VN071322.D

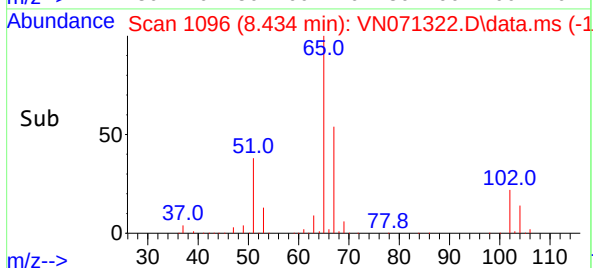
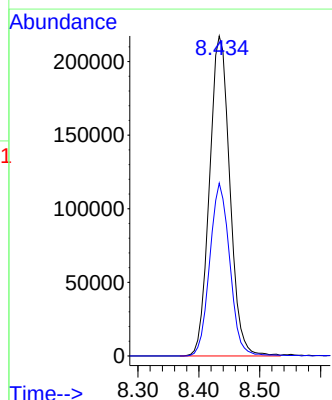
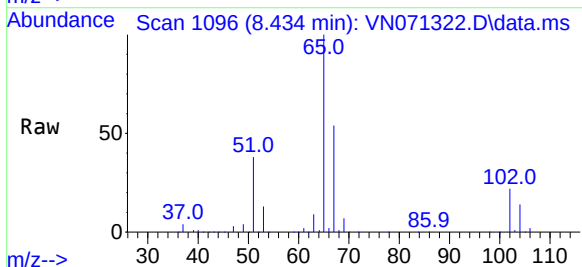
Acq: 16 Mar 2022 16:00

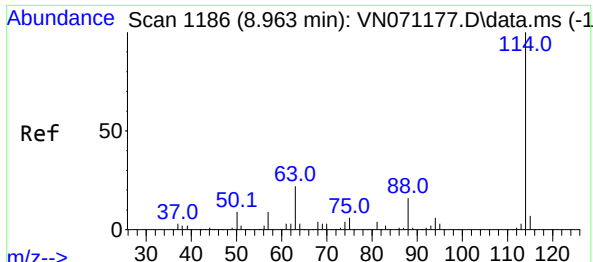
Tgt Ion: 65 Resp: 504037

Ion Ratio Lower Upper

65 100

67 53.2 0.0 103.0

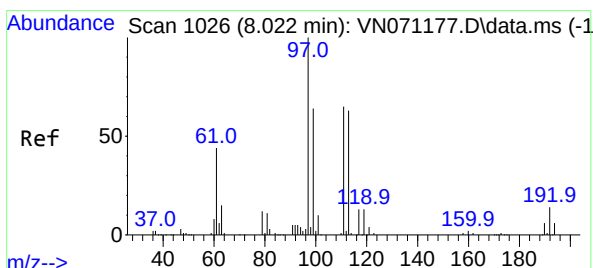
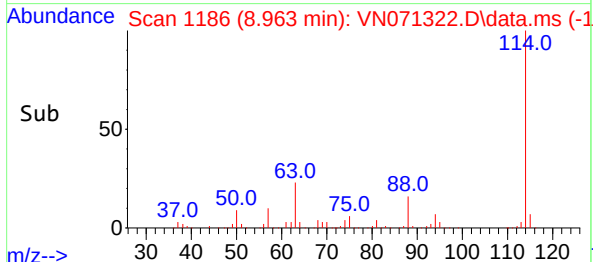
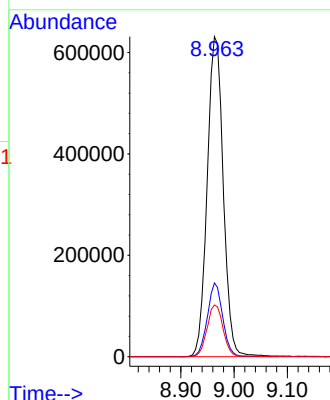
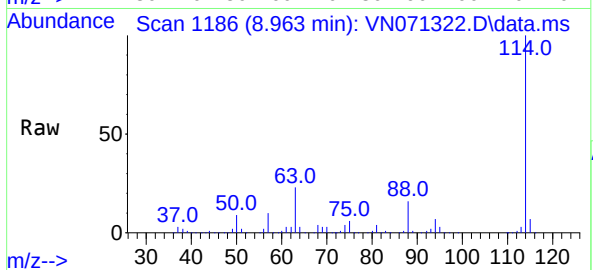




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

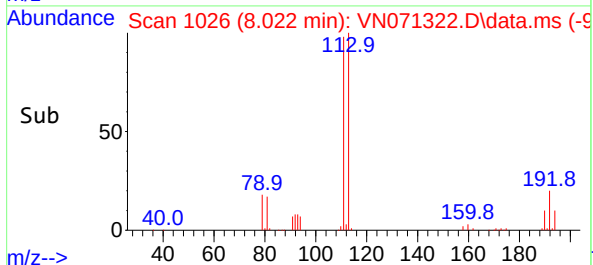
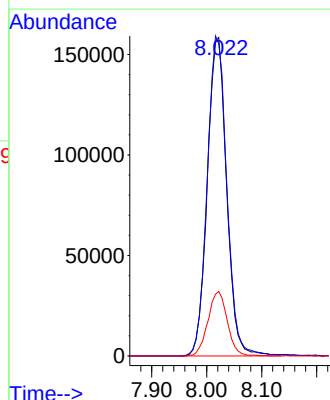
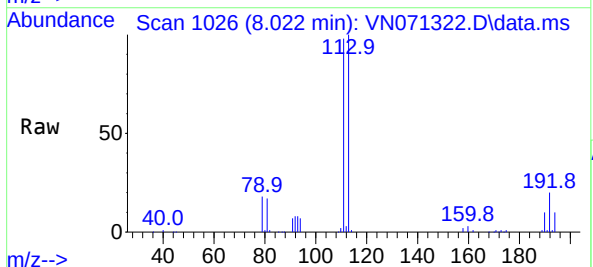
Instrument :
MSVOA_N
ClientSampleId :
30969

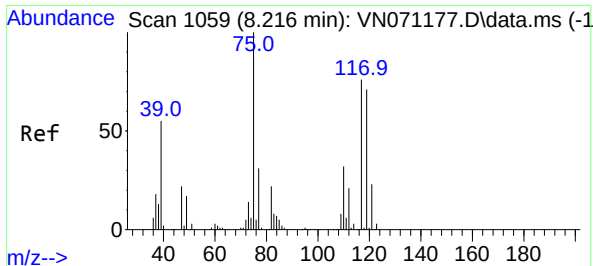
Tgt Ion:114 Resp: 1326603
Ion Ratio Lower Upper
114 100
63 23.0 0.0 37.8
88 16.1 0.0 27.4



#35
Dibromofluoromethane
Concen: 46.306 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion:113 Resp: 387644
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.2
192 20.3 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.796 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN071322.D

Acq: 16 Mar 2022 16:00

Instrument :

MSVOA_N

ClientSampleId :

30969

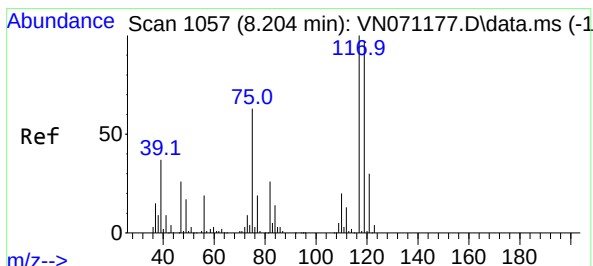
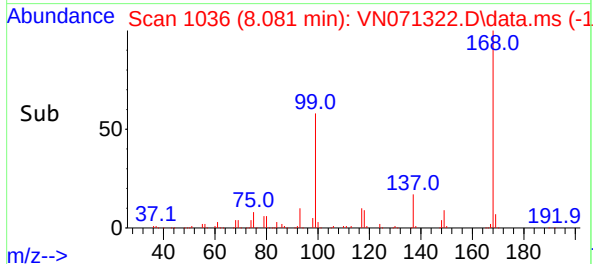
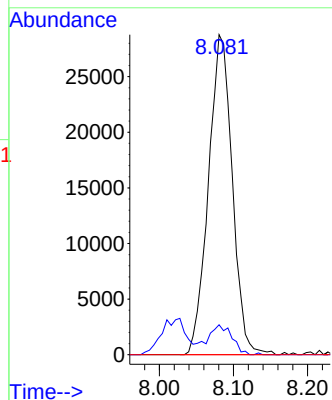
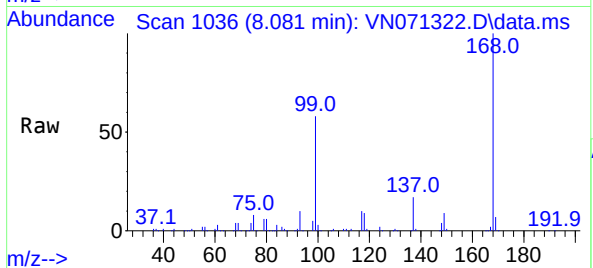
Tgt Ion: 75 Resp: 64333

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.075 ug/l

RT: 8.086 min Scan# 1037

Delta R.T. -0.118 min

Lab File: VN071322.D

Acq: 16 Mar 2022 16:00

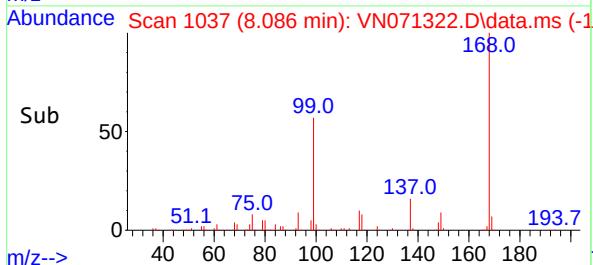
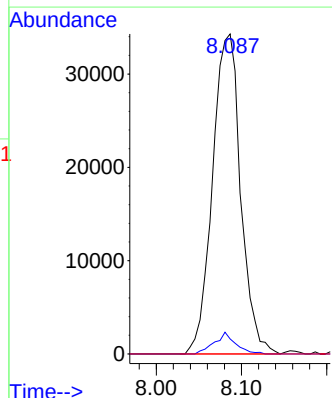
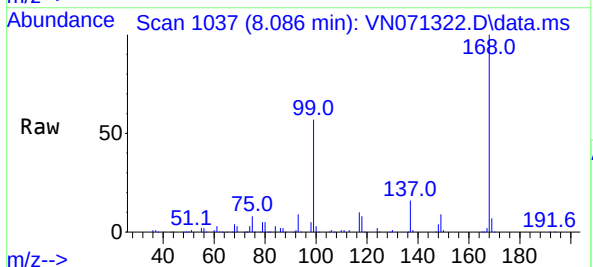
Tgt Ion: 117 Resp: 78811

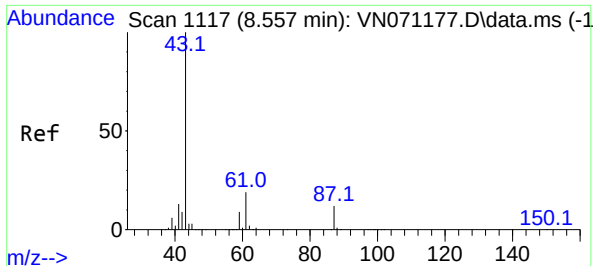
Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

121 0.0 24.2 36.2#

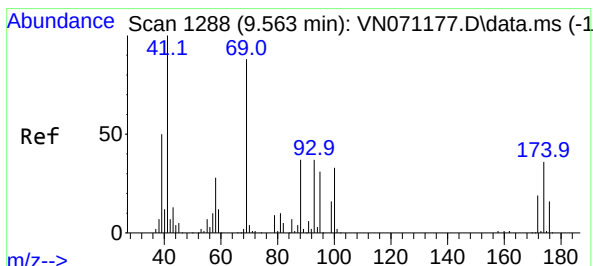
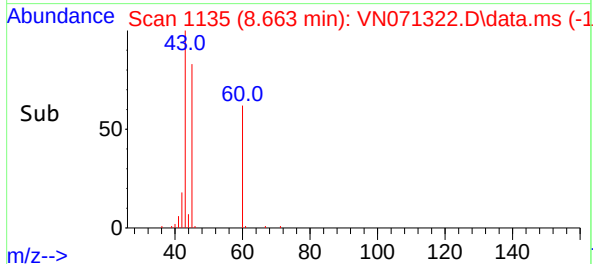
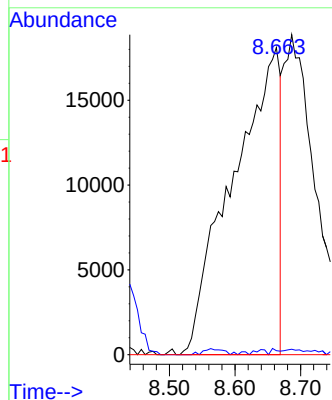
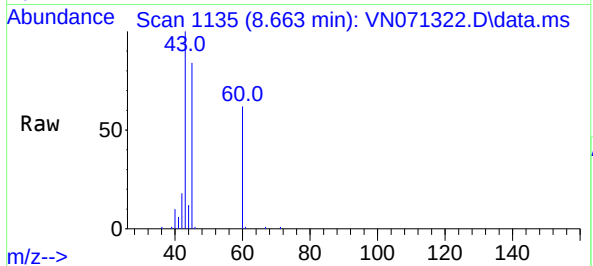




#43
Isopropyl Acetate
Concen: 3.278 ug/l
RT: 8.663 min Scan# 1117
Delta R.T. 0.106 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

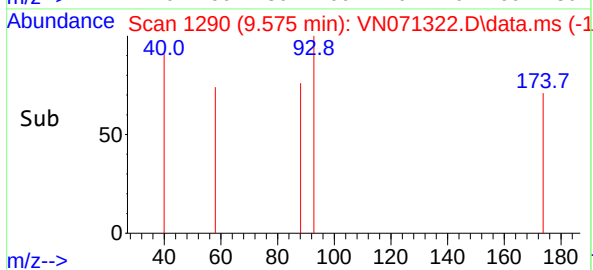
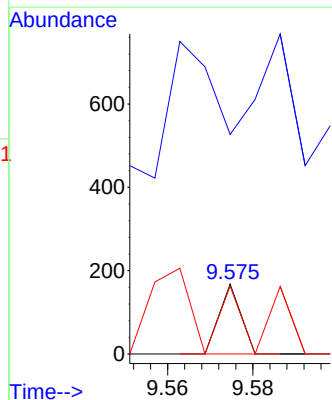
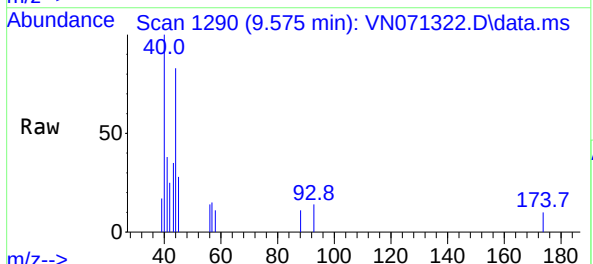
Instrument :
MSVOA_N
ClientSampleId :
30969

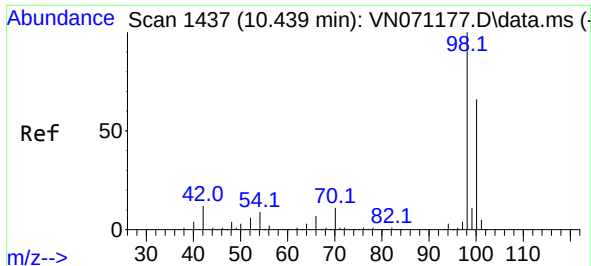
Tgt Ion: 43 Resp: 90475
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#



#49
1,4-Dioxane
Concen: 0.265 ug/l
RT: 9.575 min Scan# 1290
Delta R.T. 0.012 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 50.6 75.8#

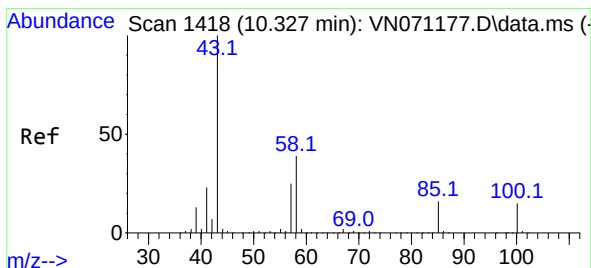
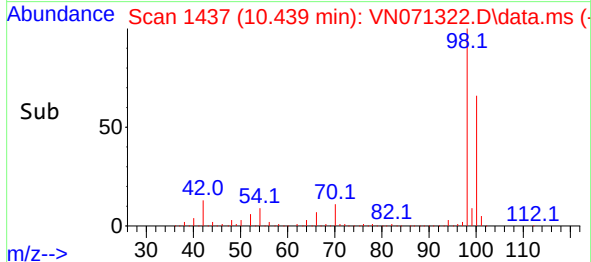
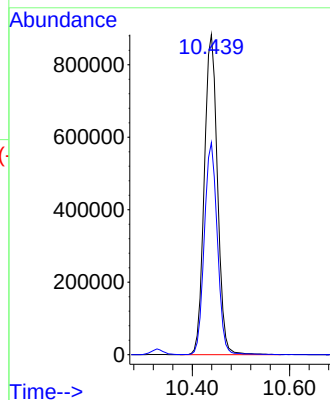
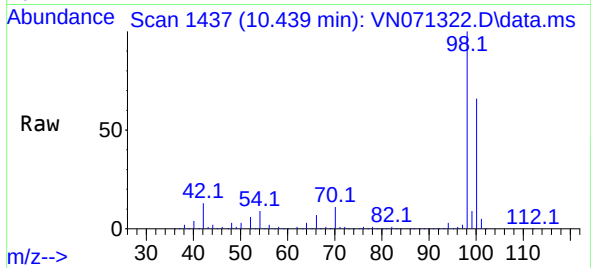




#50
Toluene-d8
Concen: 49.093 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

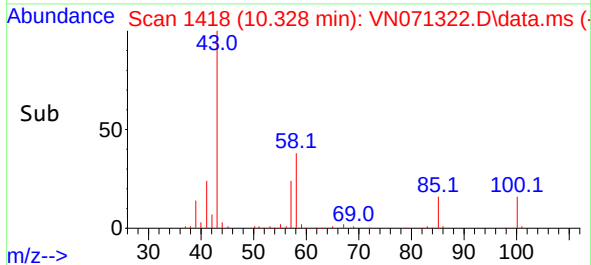
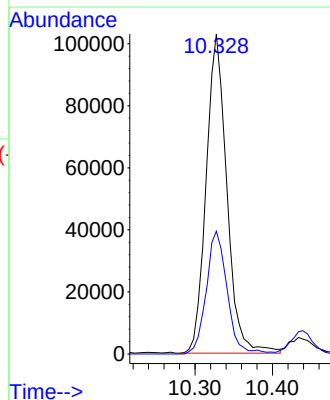
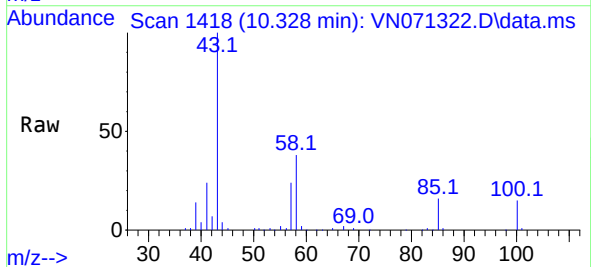
Instrument :
MSVOA_N
ClientSampleId :
30969

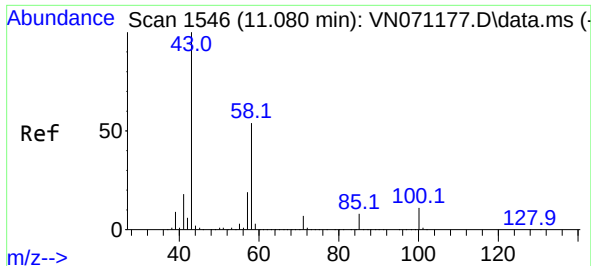
Tgt Ion: 98 Resp: 1654691
Ion Ratio Lower Upper
98 100
100 65.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 11.139 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 43 Resp: 190825
Ion Ratio Lower Upper
43 100
58 38.5 30.4 45.6

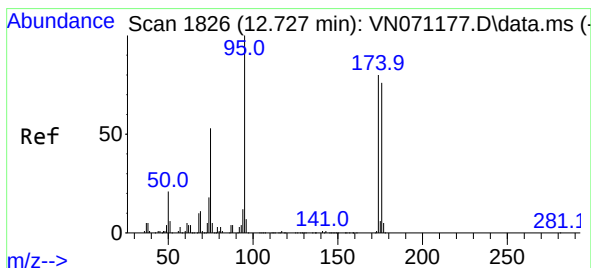
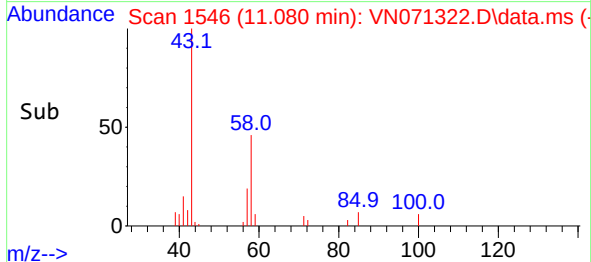
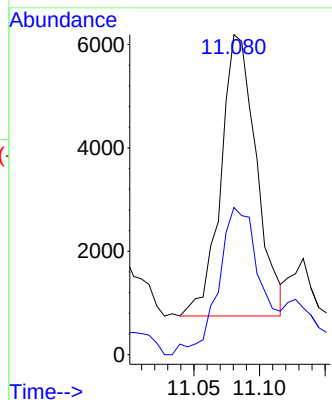
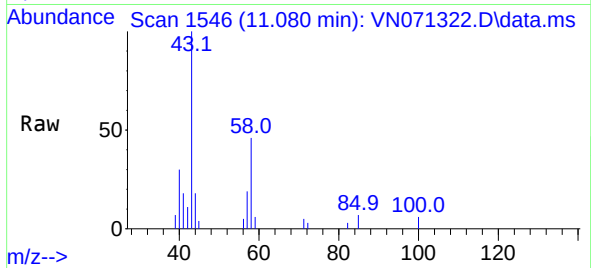




#59
2-Hexanone
Concen: 0.875 ug/l
RT: 11.080 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

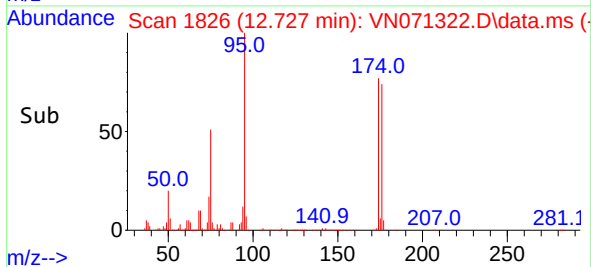
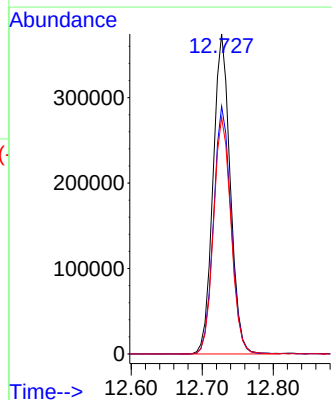
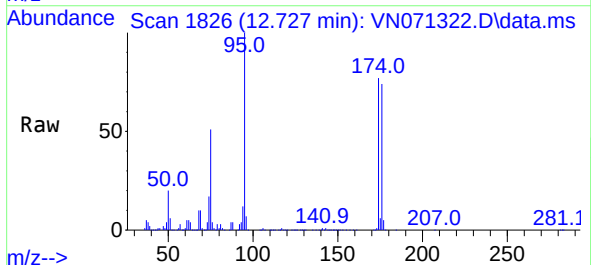
Instrument :
MSVOA_N
ClientSampleId :
30969

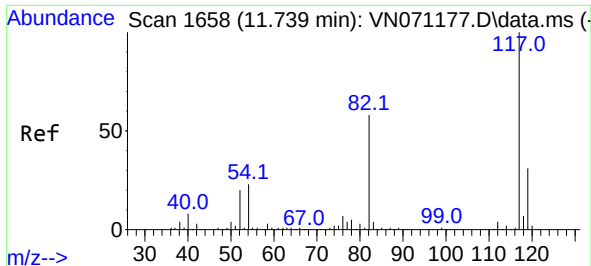
Tgt Ion: 43 Resp: 10228
Ion Ratio Lower Upper
43 100
58 62.5 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 55.002 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 95 Resp: 627765
Ion Ratio Lower Upper
95 100
174 78.6 0.0 187.2
176 75.1 0.0 181.4

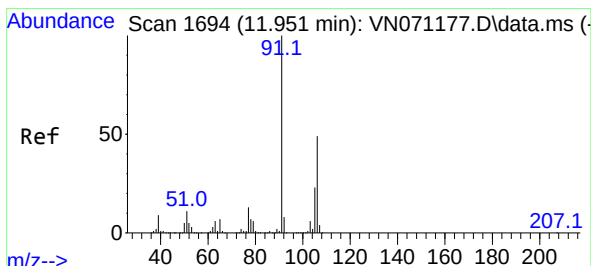
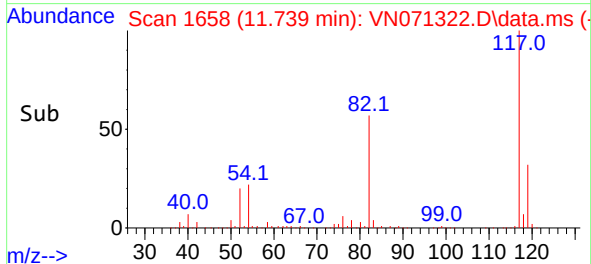
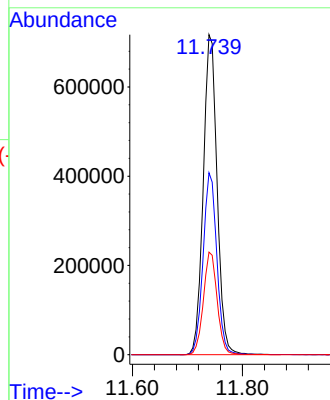
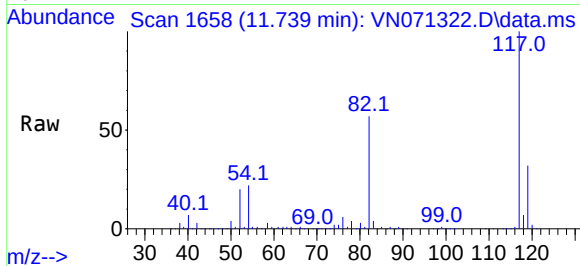




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

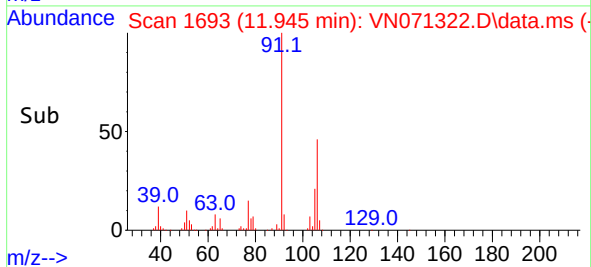
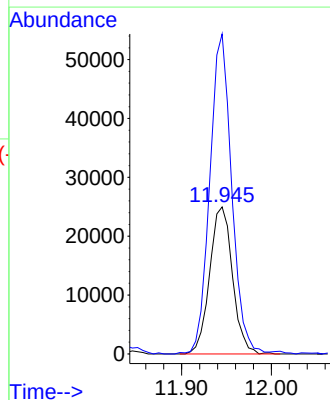
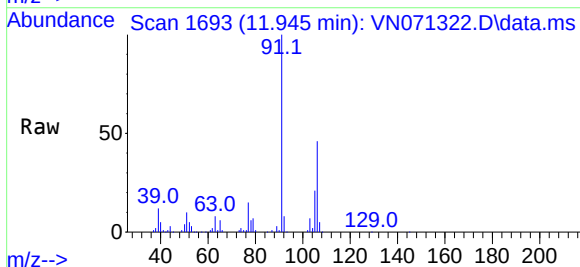
Instrument :
MSVOA_N
ClientSampleId :
30969

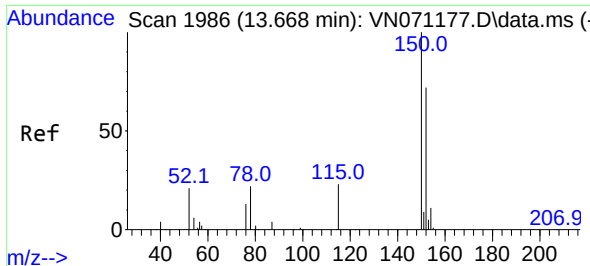
Tgt Ion:117 Resp: 1253500
Ion Ratio Lower Upper
117 100
82 56.9 42.4 63.6
119 32.0 25.4 38.2



#68
m/p-Xylenes
Concen: 2.533 ug/l
RT: 11.945 min Scan# 1693
Delta R.T. -0.006 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion:106 Resp: 44114
Ion Ratio Lower Upper
106 100
91 208.6 160.6 240.8

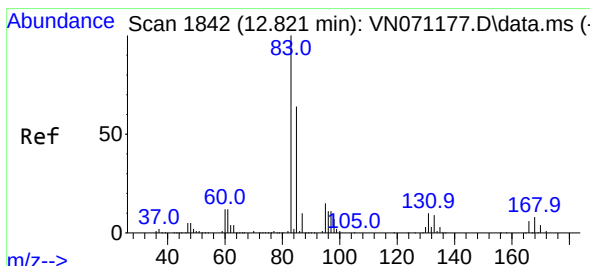
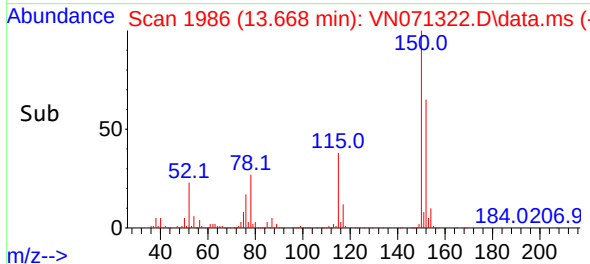
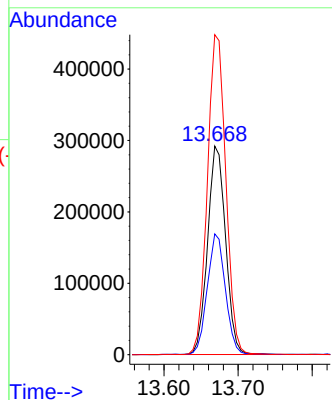
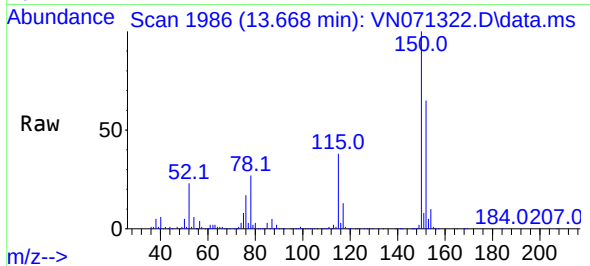




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.668 min Scan# 1986
 Delta R.T. 0.000 min
 Lab File: VN071322.D
 Acq: 16 Mar 2022 16:00

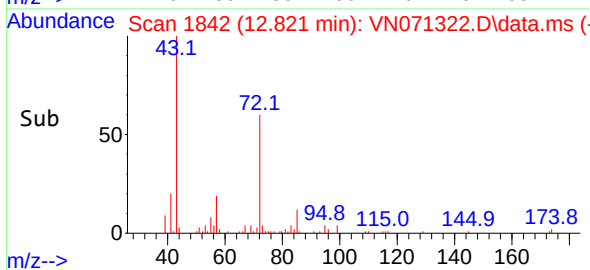
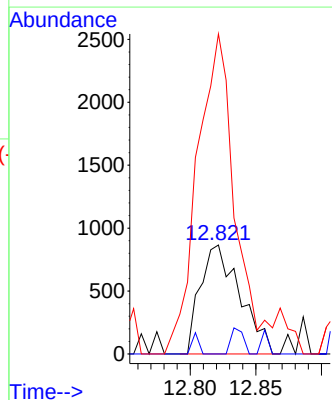
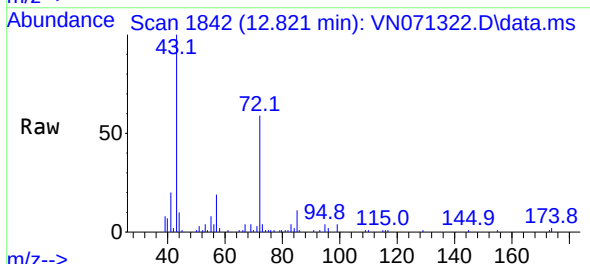
Instrument :
 MSVOA_N
 ClientSampleId :
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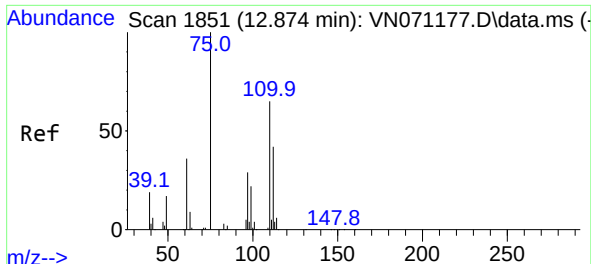
Tgt Ion:152 Resp: 493630
 Ion Ratio Lower Upper
 152 100
 115 58.2 27.5 82.5
 150 156.8 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.821 min Scan# 1842
 Delta R.T. 0.000 min
 Lab File: VN071322.D
 Acq: 16 Mar 2022 16:00

Tgt Ion: 83 Resp: 1826
 Ion Ratio Lower Upper
 83 100
 131 7.4 5.5 16.5
 85 278.5 32.4 97.2#

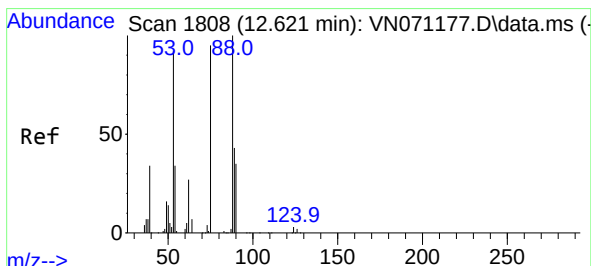
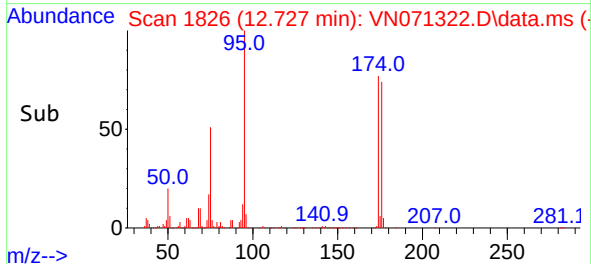
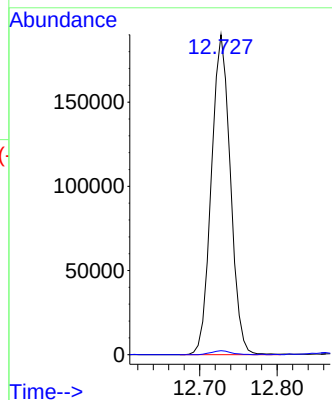
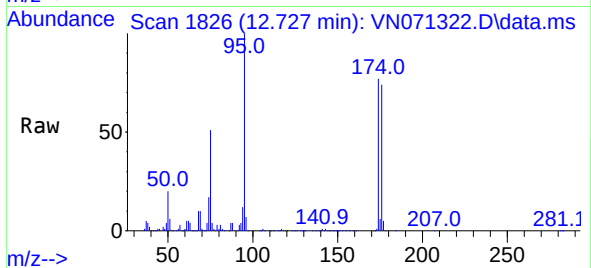




#76
1,2,3-Trichloropropane
Concen: 25.734 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

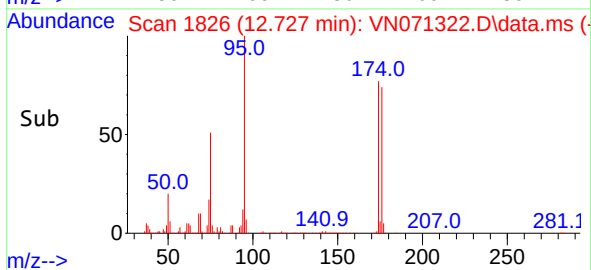
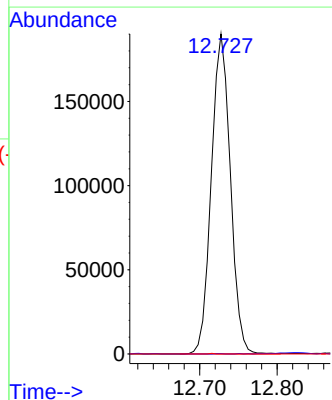
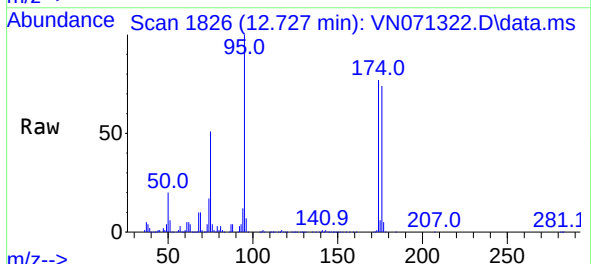
Instrument :
MSVOA_N
ClientSampleId :
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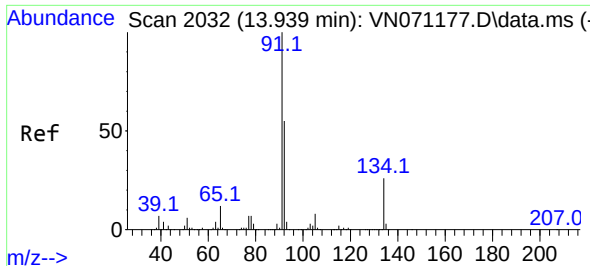
Tgt Ion: 75 Resp: 324266
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.011 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion: 75 Resp: 324266
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

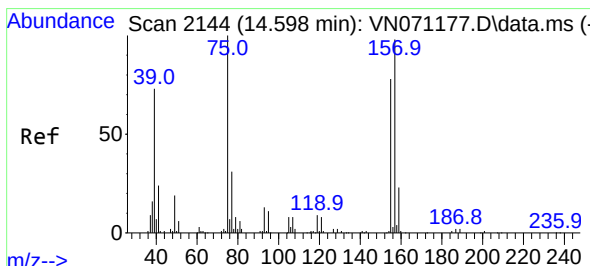
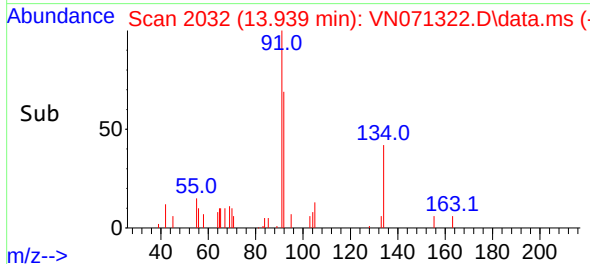
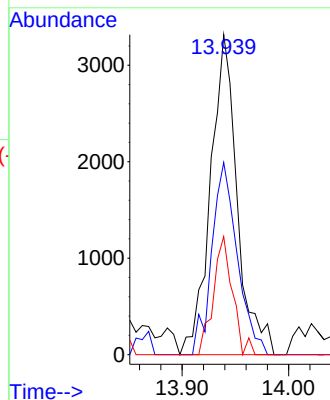
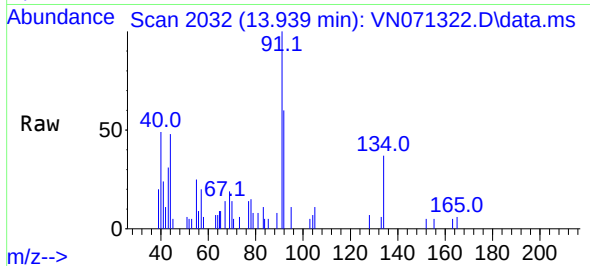




#89
n-Butylbenzene
Concen: 0.215 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

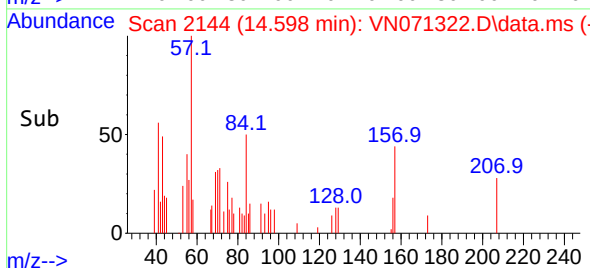
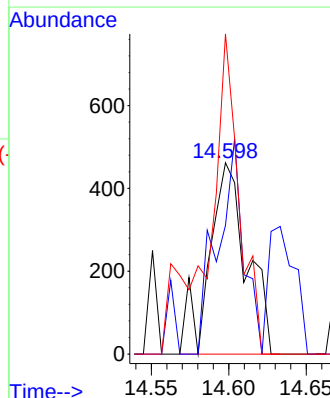
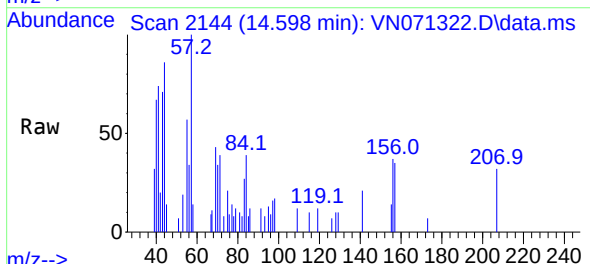
Instrument :
MSVOA_N
ClientSampleId :
30969

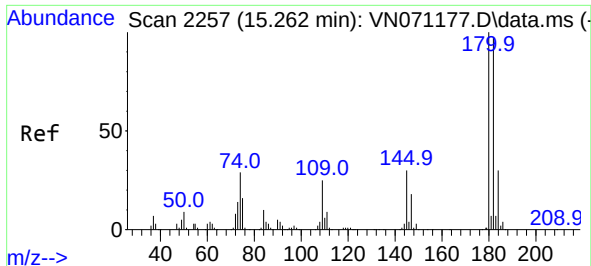
Tgt Ion:	91	Resp:	5801
Ion	Ratio	Lower	Upper
91	100		
92	57.2	25.4	76.0
134	26.4	13.6	40.8



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.282 ug/l
RT: 14.598 min Scan# 2144
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion:	75	Resp:	781
Ion	Ratio	Lower	Upper
75	100		
155	78.1	46.9	140.7
157	113.3	60.6	181.7

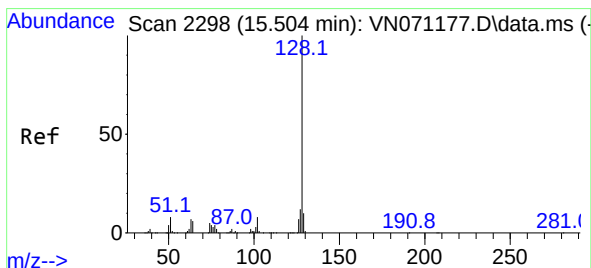
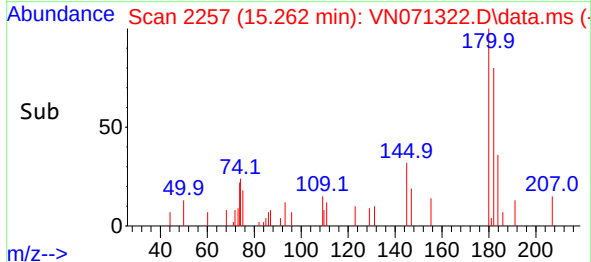
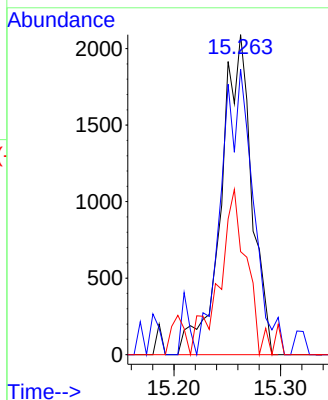
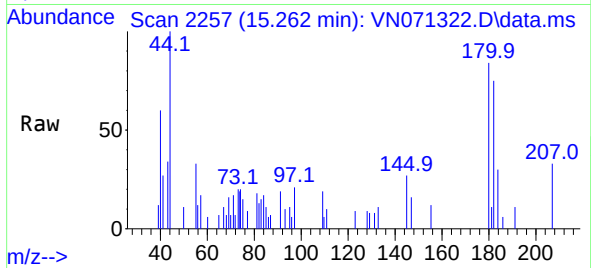




#93
1,2,4-Trichlorobenzene
Concen: 3.471 ug/l
RT: 15.262 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

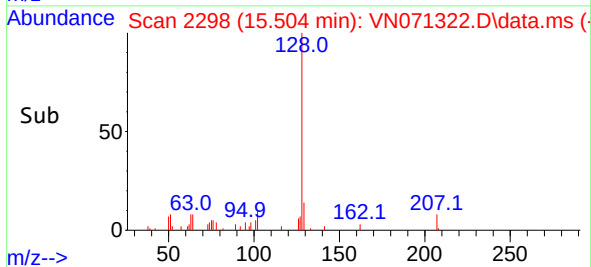
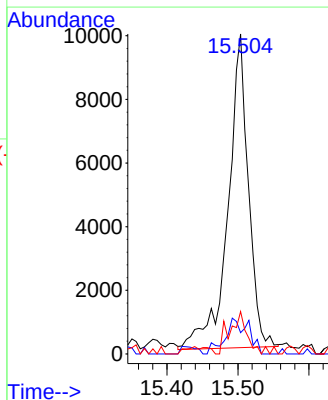
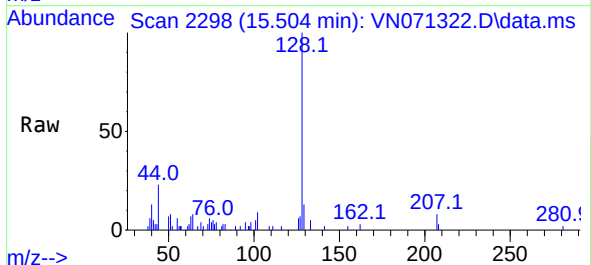
Instrument :
MSVOA_N
ClientSampleId :
30969

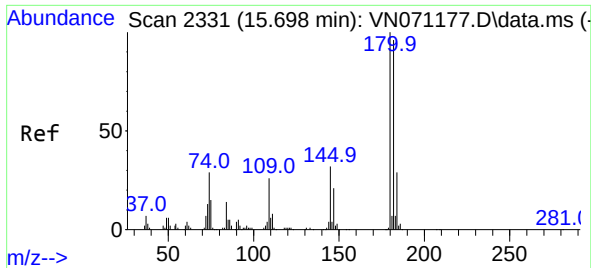
Tgt Ion:180 Resp: 4143
Ion Ratio Lower Upper
180 100
182 93.7 48.3 144.9
145 46.6 14.5 43.5#



#95
Naphthalene
Concen: 5.851 ug/l
RT: 15.504 min Scan# 2298
Delta R.T. -0.000 min
Lab File: VN071322.D
Acq: 16 Mar 2022 16:00

Tgt Ion:128 Resp: 19717
Ion Ratio Lower Upper
128 100
127 13.0 10.5 15.7
129 11.1 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 3.295 ug/l
 RT: 15.692 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN071322.D
 Acq: 16 Mar 2022 16:00

Instrument :
 MSVOA_N
 ClientSampleId :
 30969

Tgt Ion:180 Resp: 4613
 Ion Ratio Lower Upper
 180 100
 182 97.8 47.4 142.2
 145 45.7 15.0 45.1#

