

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073094.D
 Acq On : 24 Jun 2022 19:49
 Operator : JC\MD
 Sample : PB145764TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB145764TB

Quant Time: Jun 24 23:41:21 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

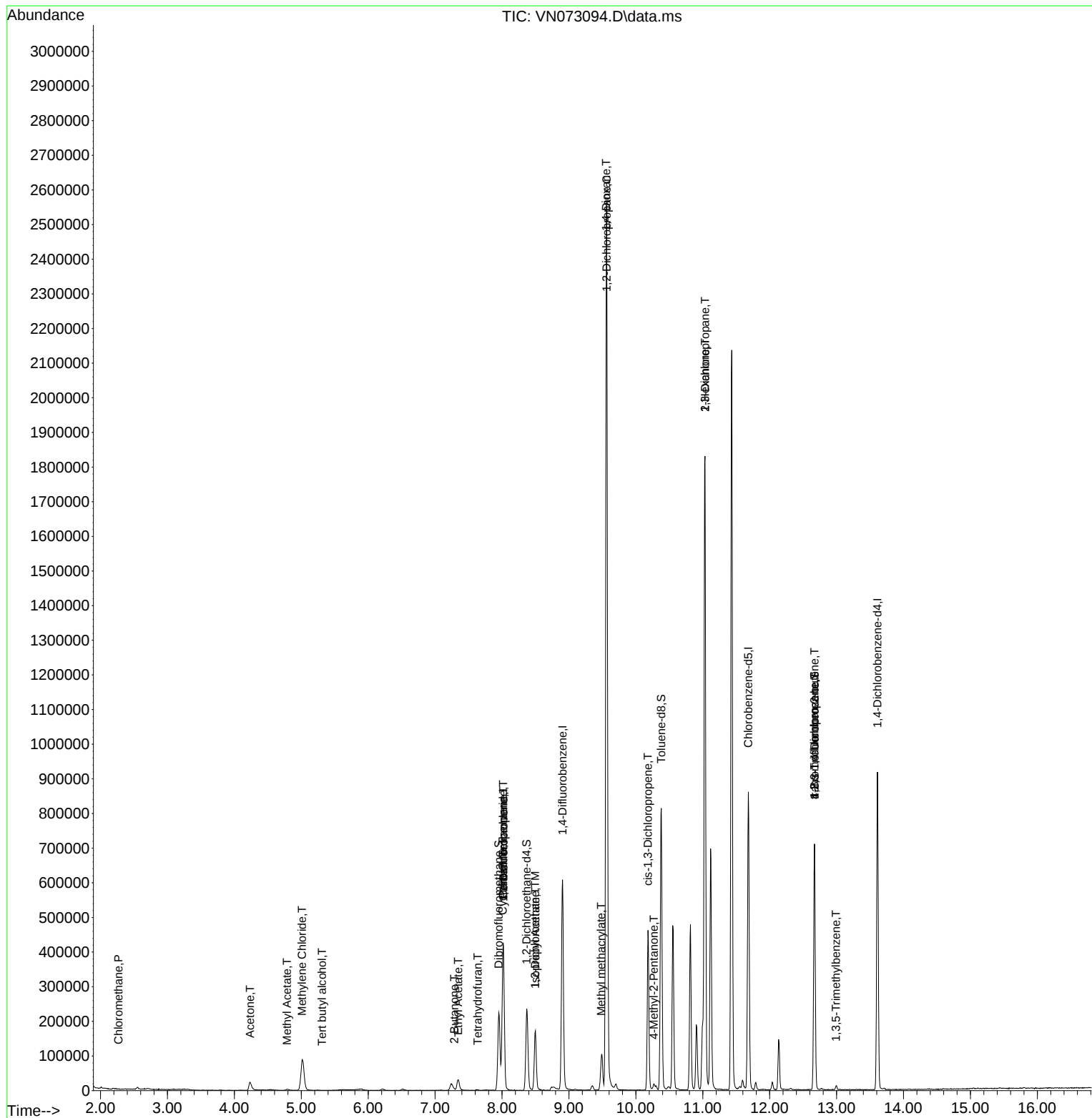
Internal Standards						
1) Pentafluorobenzene	8.016	168	322108	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	529164	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	488182	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	244985	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	197863	45.435	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.880%			
35) Dibromofluoromethane	7.951	113	166570	50.928	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.860%			
50) Toluene-d8	10.381	98	556351	45.713	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.420%			
62) 4-Bromofluorobenzene	12.669	95	243373	55.612	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.220%			
Target Compounds						Qvalue
3) Chloromethane	2.269	50	537	0.730	ug/l	92
11) Tert butyl alcohol	5.310	59	269	0.239	ug/l #	72
16) Acetone	4.234	43	44048	18.401	ug/l	99
18) Methyl Acetate	4.787	43	6695	1.050	ug/l #	64
20) Methylene Chloride	5.010	84	71985	19.238	ug/l	91
25) 2-Butanone	7.287	43	7156	1.884	ug/l #	78
26) 2,2-Dichloropropane	7.240	77	1421	Below Cal	#	53
29) Tetrahydrofuran	7.634	42	1615	0.644	ug/l #	68
31) Cyclohexane	8.010	56	7157	1.215	ug/l #	8
36) 1,1-Dichloropropene	8.022	75	27387	6.188	ug/l #	49
37) Ethyl Acetate	7.345	43	49562	7.001	ug/l	97
38) Carbon Tetrachloride	8.016	117	33669	7.233	ug/l #	18
42) 1,2-Dichloroethane	8.492	62	1259	0.255	ug/l #	74
43) Isopropyl Acetate	8.498	43	203038	20.065	ug/l #	87
45) 1,2-Dichloropropane	9.563	63	3081	0.867	ug/l #	44
48) Methyl methacrylate	9.481	41	10923	2.364	ug/l #	31
49) 1,4-Dioxane	9.557	88	155	1.491	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	12947	1.962	ug/l #	85
54) cis-1,3-Dichloropropene	10.181	75	79380	14.144	ug/l #	66
57) 1,3-Dichloropropane	11.033	76	18903	3.039	ug/l #	42
59) 2-Hexanone	11.033	43	288348	56.498	ug/l #	45
76) 1,2,3-Trichloropropane	12.669	75	128914	21.704	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.992	105	4701	0.302	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.669	75	128914	58.615	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.545	75	57	Below Cal	#	1

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

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Response via : Initial Calibration

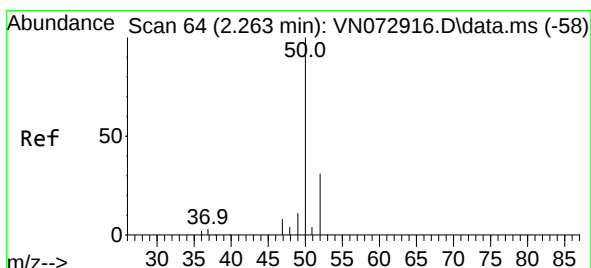
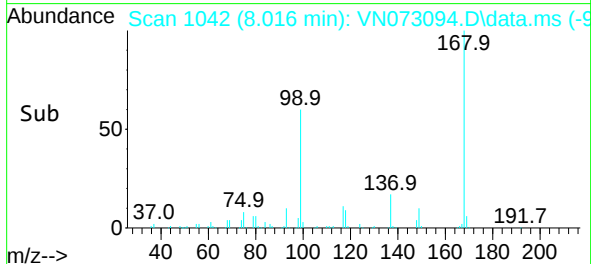
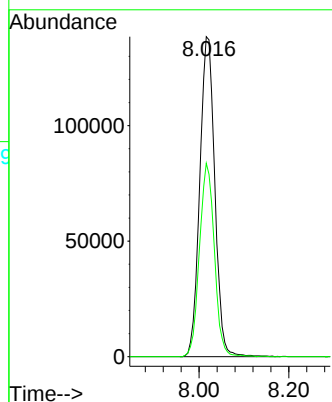
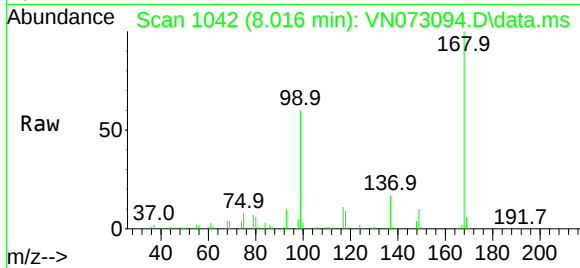




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

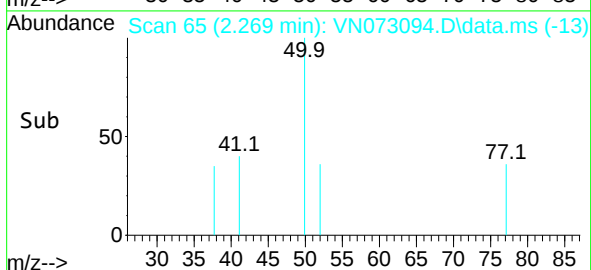
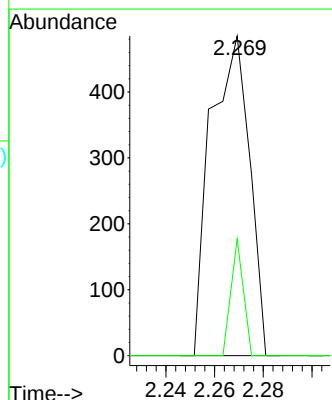
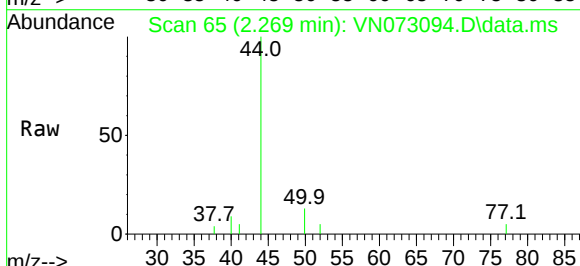
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

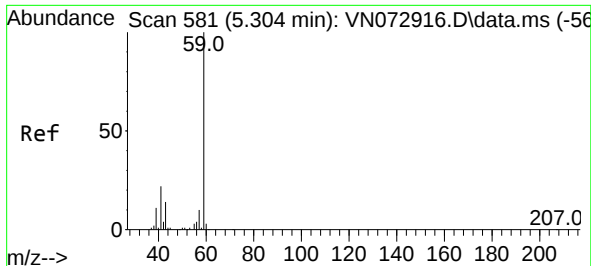
Tgt Ion:168 Resp: 322108
Ion Ratio Lower Upper
168 100
99 60.5 42.3 63.5



#3
Chloromethane
Concen: 0.730 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 50 Resp: 537
Ion Ratio Lower Upper
50 100
52 36.5 25.7 38.5

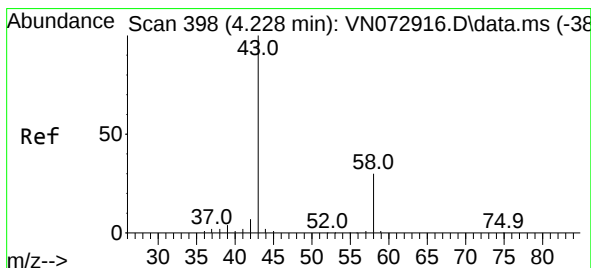
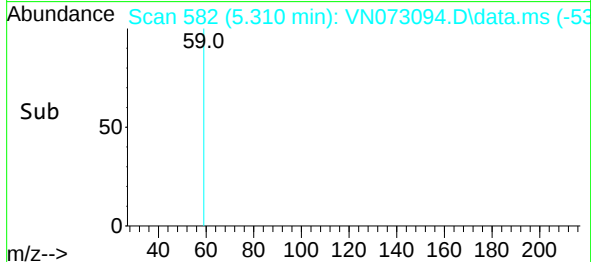
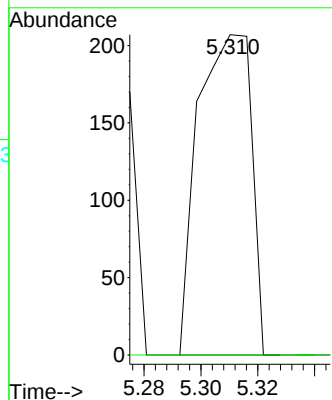
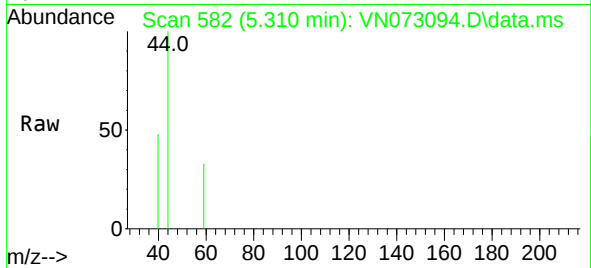




#11
Tert butyl alcohol
Concen: 0.239 ug/l
RT: 5.310 min Scan# 581
Delta R.T. 0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

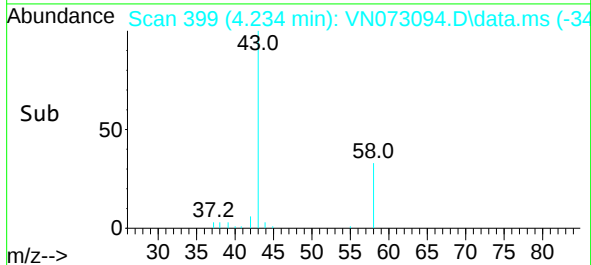
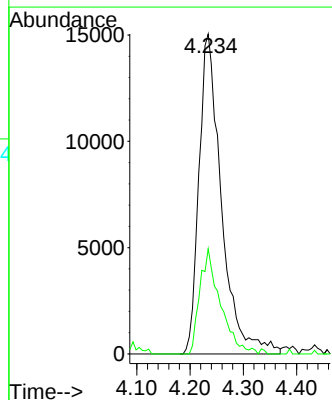
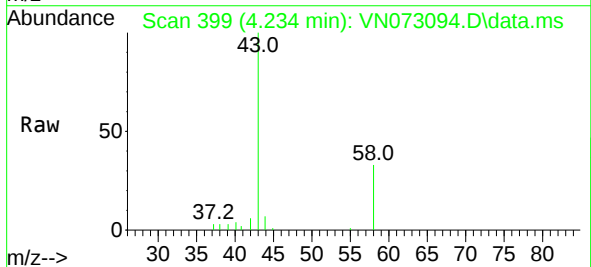
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

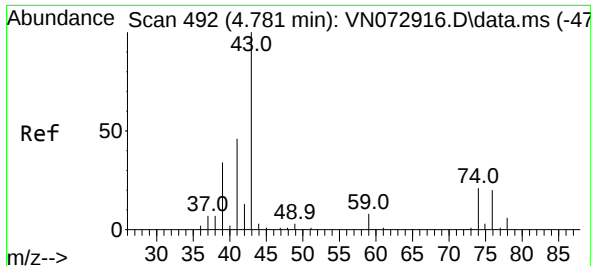
Tgt Ion: 59 Resp: 269
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 18.401 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 43 Resp: 44048
Ion Ratio Lower Upper
43 100
58 32.8 26.0 39.0

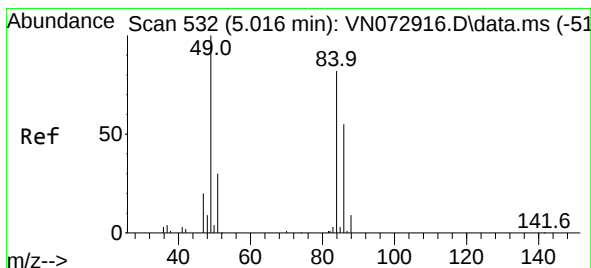
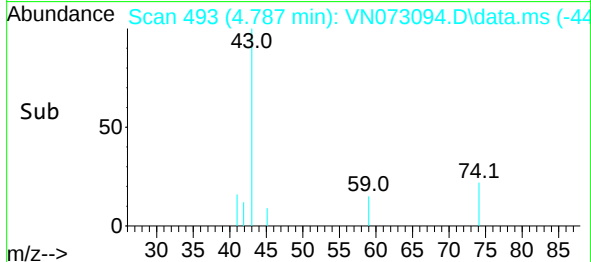
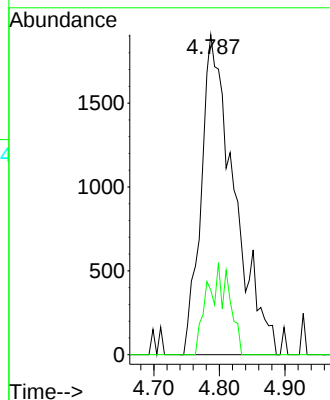
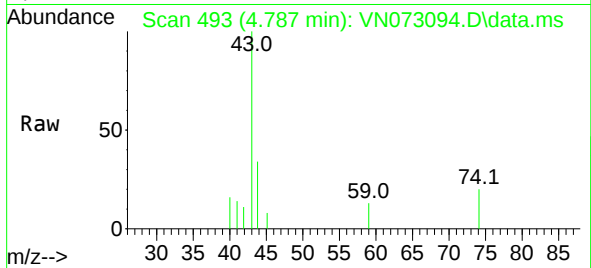




#18
Methyl Acetate
Concen: 1.050 ug/l
RT: 4.787 min Scan# 492
Delta R.T. 0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

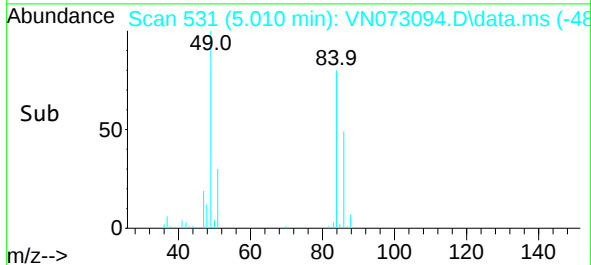
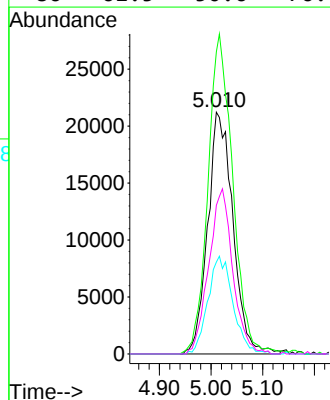
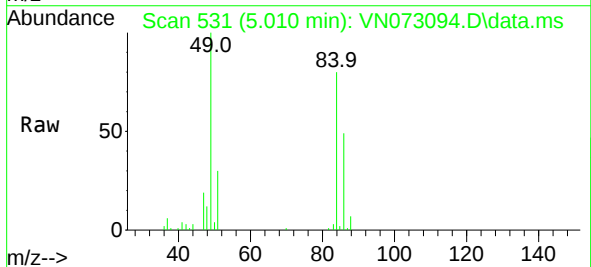
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

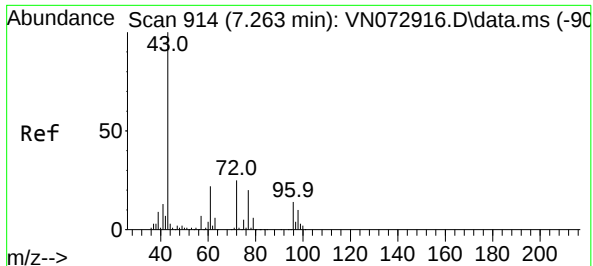
Tgt Ion: 43 Resp: 6695
Ion Ratio Lower Upper
43 100
74 8.1 21.6 32.4#



#20
Methylene Chloride
Concen: 19.238 ug/l
RT: 5.010 min Scan# 531
Delta R.T. -0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 84 Resp: 71985
Ion Ratio Lower Upper
84 100
49 125.0 88.3 132.5
51 38.0 28.2 42.2
86 61.5 50.6 76.0





#25

2-Butanone

Concen: 1.884 ug/l

RT: 7.287 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

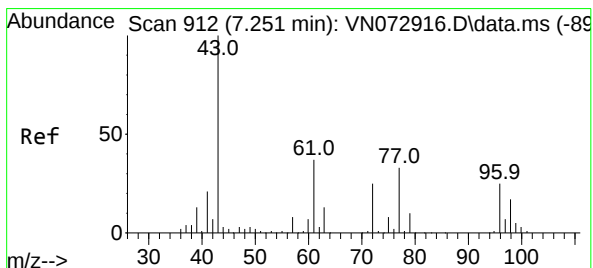
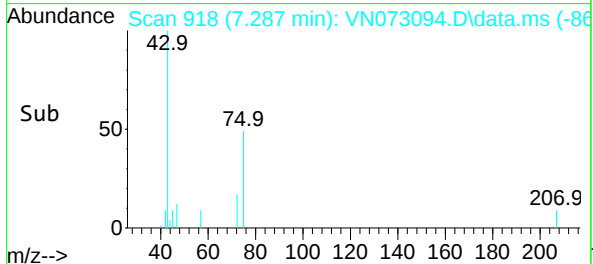
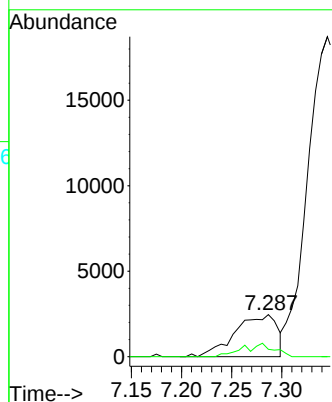
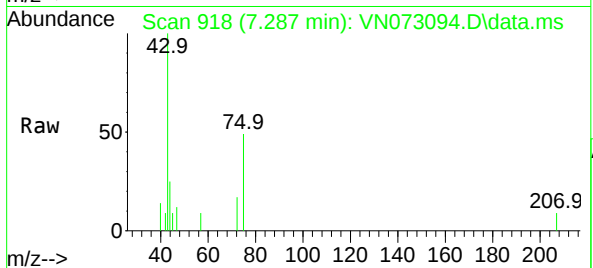
PB145764TB

Tgt Ion: 43 Resp: 7156

Ion Ratio Lower Upper

43 100

72 17.5 23.7 35.5#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.240 min Scan# 910

Delta R.T. -0.011 min

Lab File: VN073094.D

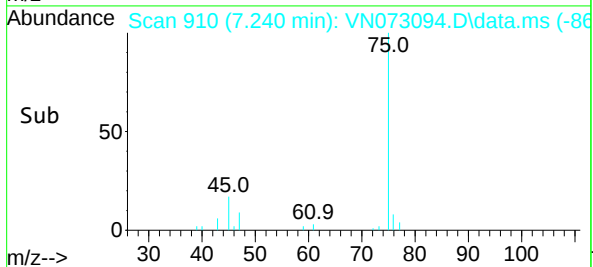
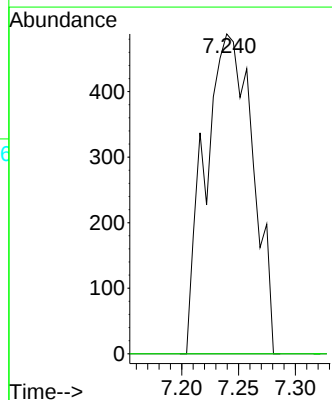
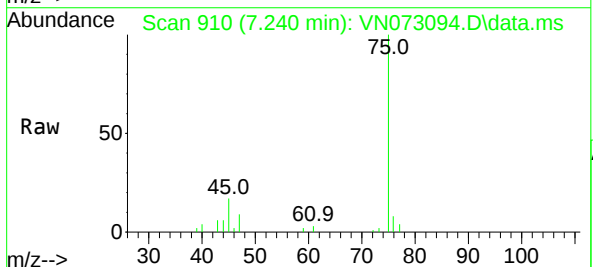
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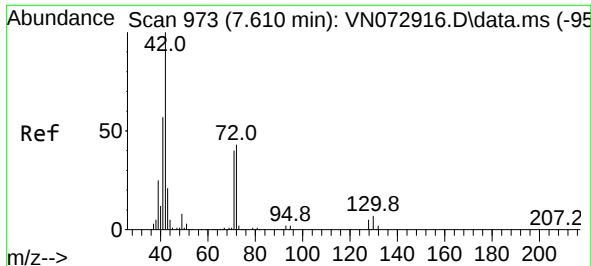
Tgt Ion: 77 Resp: 1421

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.644 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.024 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

PB145764TB

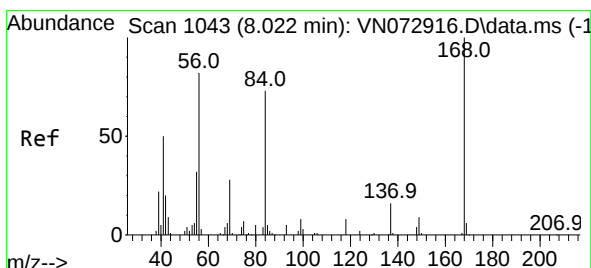
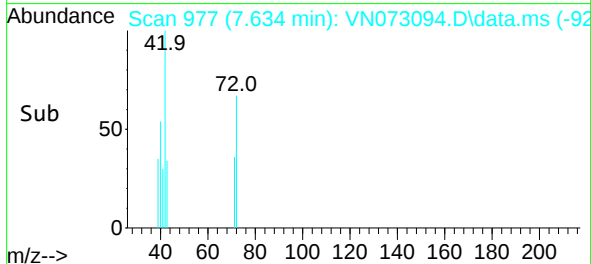
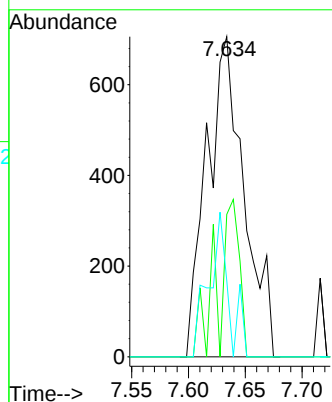
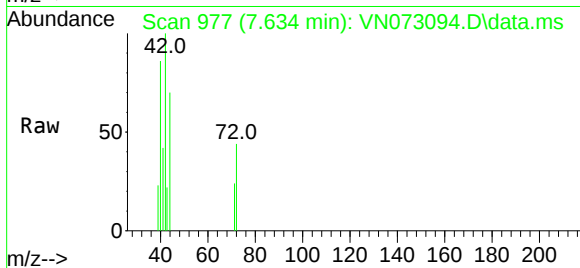
Tgt Ion: 42 Resp: 1615

Ion Ratio Lower Upper

42 100

72 28.7 39.7 59.5#

71 24.2 36.6 55.0#



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.012 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

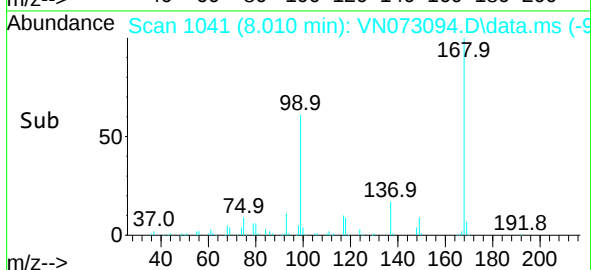
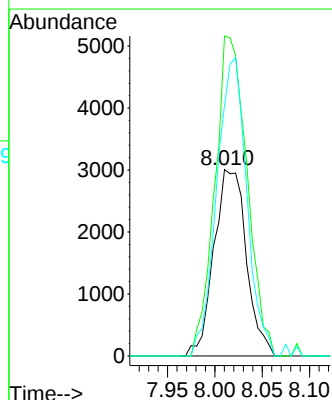
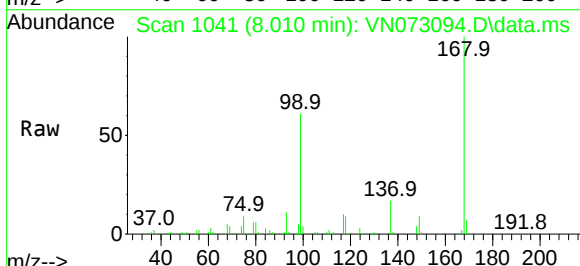
Tgt Ion: 56 Resp: 7157

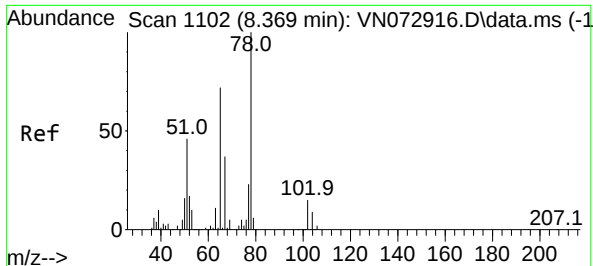
Ion Ratio Lower Upper

56 100

69 171.7 27.8 41.8#

84 134.4 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 45.435 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

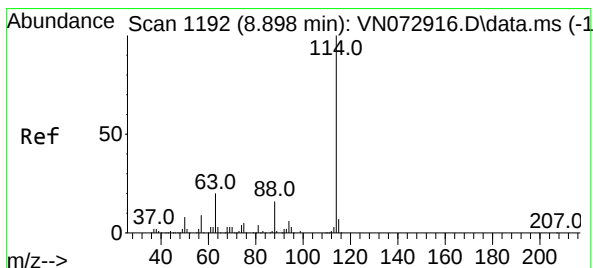
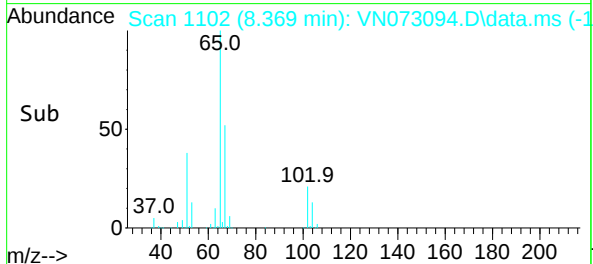
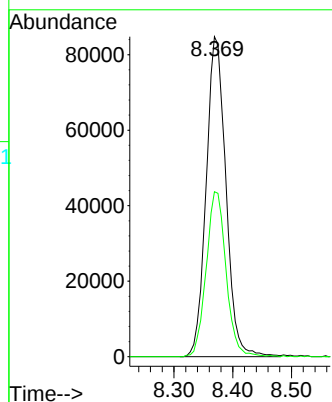
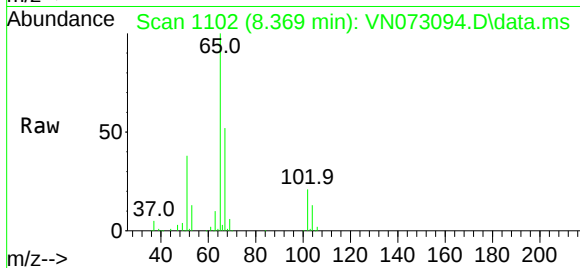
PB145764TB

Tgt Ion: 65 Resp: 197863

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

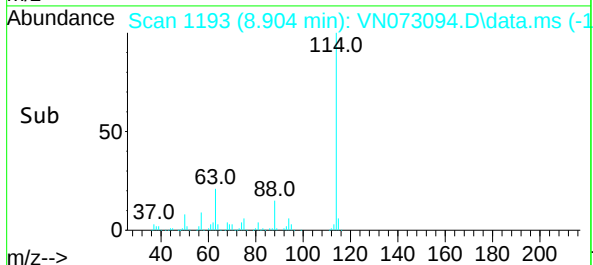
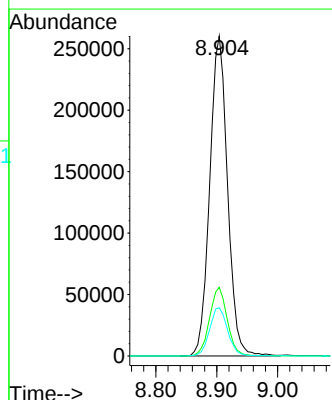
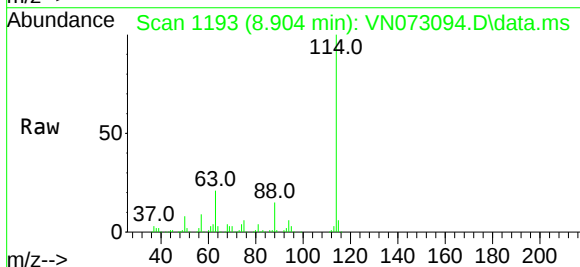
Tgt Ion: 114 Resp: 529164

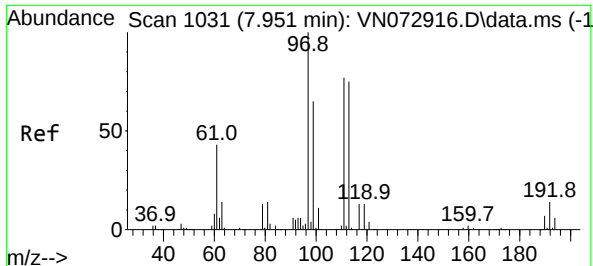
Ion Ratio Lower Upper

114 100

63 21.4 0.0 40.0

88 15.1 0.0 32.6

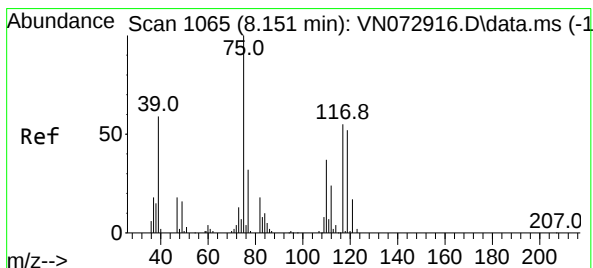
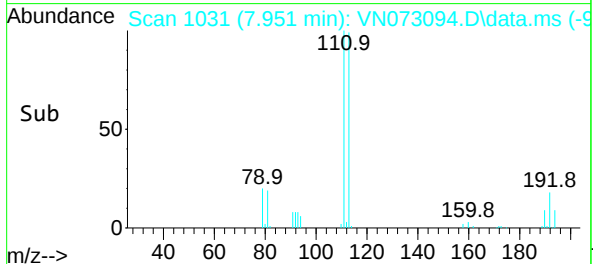
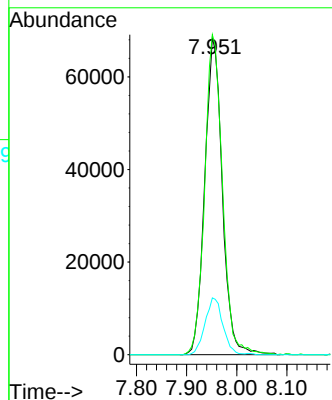
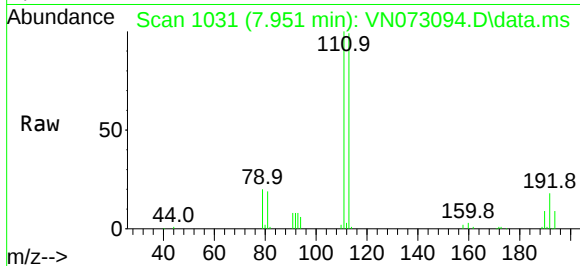




#35
Dibromofluoromethane
Concen: 50.928 ug/l
RT: 7.951 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

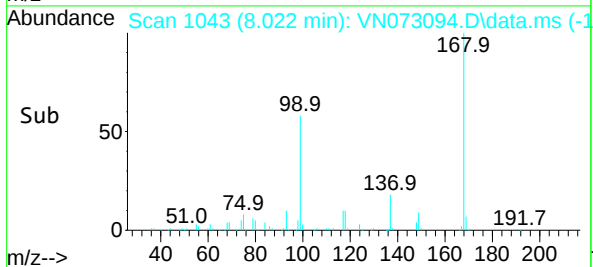
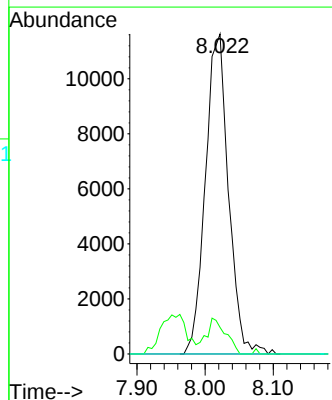
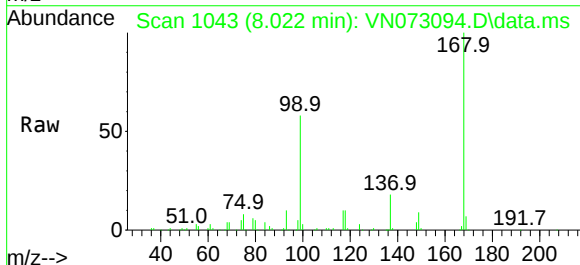
Instrument :
MSVOA_N
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PB145764TB

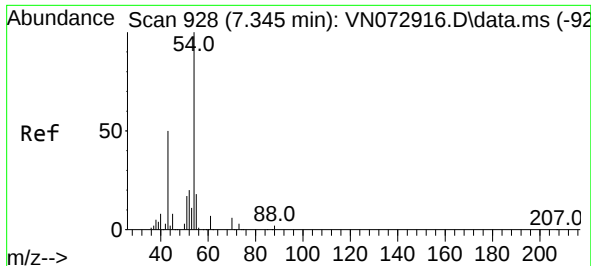
Tgt Ion:113 Resp: 166570
Ion Ratio Lower Upper
113 100
111 102.4 81.4 122.0
192 18.2 17.0 25.6



#36
1,1-Dichloropropene
Concen: 6.188 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.129 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 75 Resp: 27387
Ion Ratio Lower Upper
75 100
110 9.5 18.3 54.8#
77 0.0 25.1 37.7#

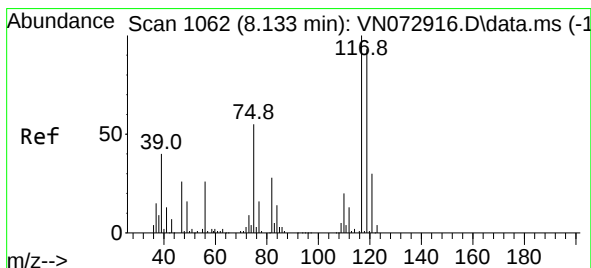
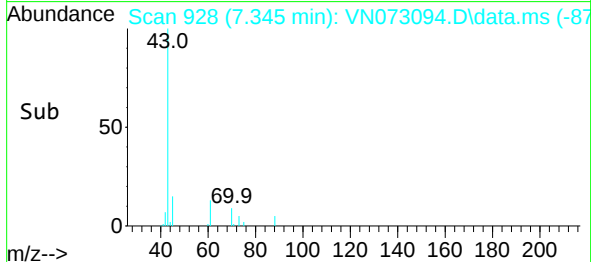
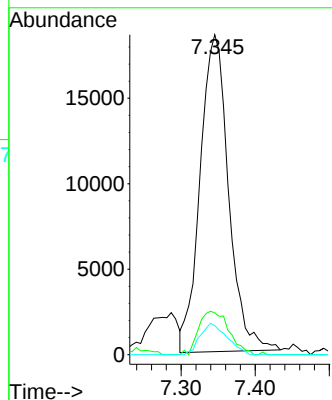
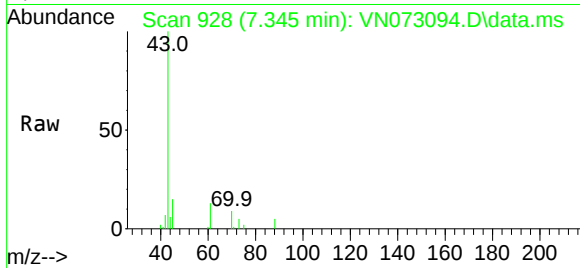




#37
Ethyl Acetate
Concen: 7.001 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

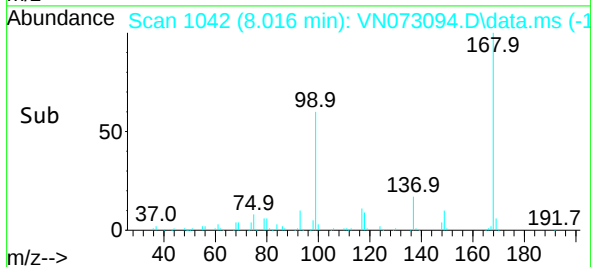
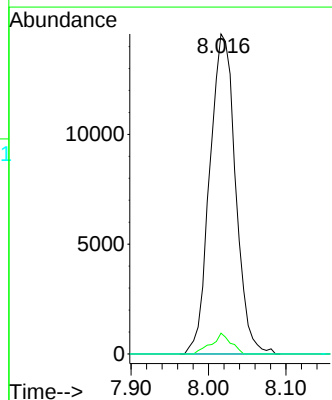
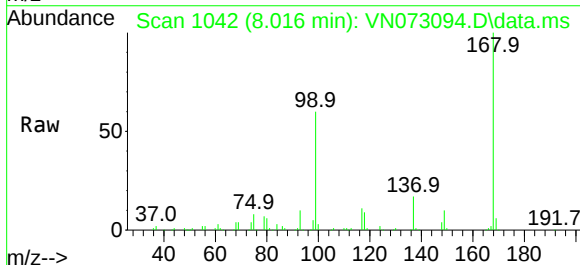
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

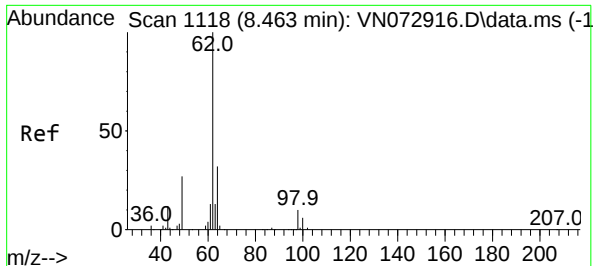
Tgt Ion: 43 Resp: 49562
Ion Ratio Lower Upper
43 100
61 14.6 11.8 17.6
70 9.3 9.3 13.9



#38
Carbon Tetrachloride
Concen: 7.233 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 117 Resp: 33669
Ion Ratio Lower Upper
117 100
119 6.5 75.8 113.8#
121 0.0 24.6 37.0#

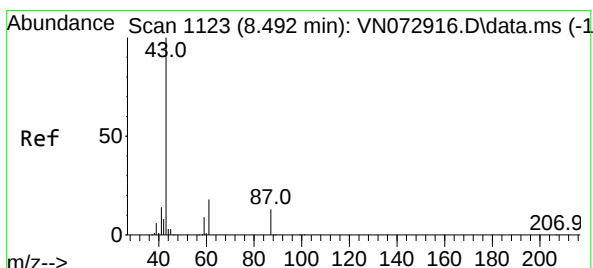
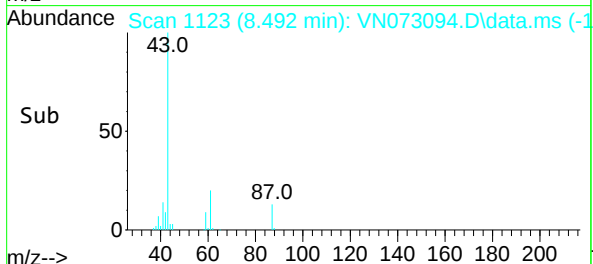
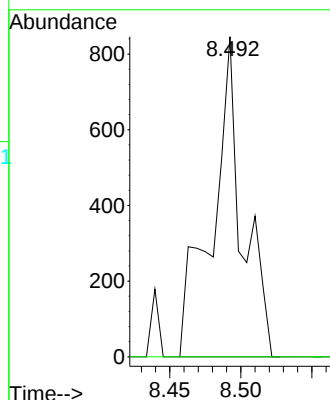
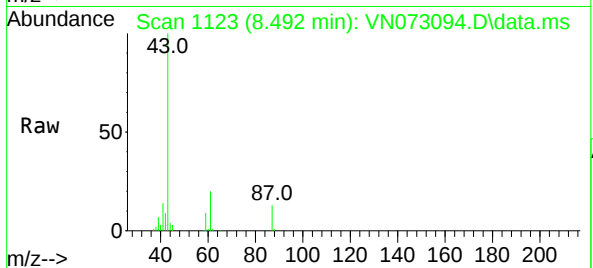




#42
1,2-Dichloroethane
Concen: 0.255 ug/l
RT: 8.492 min Scan# 1118
Delta R.T. 0.030 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

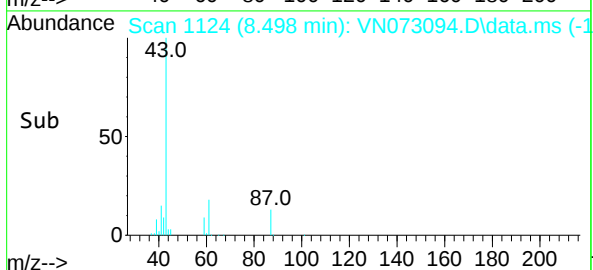
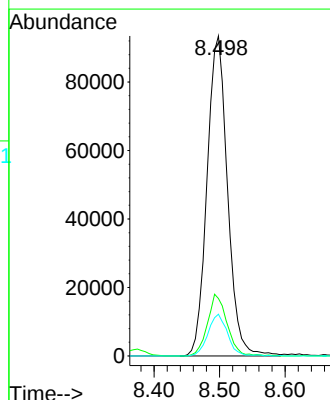
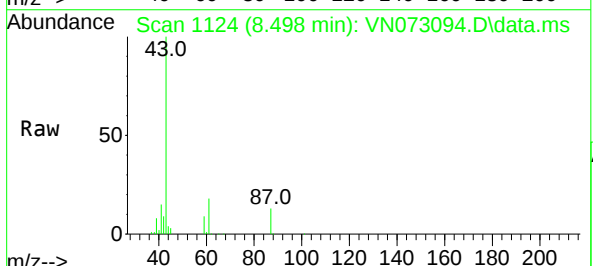
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

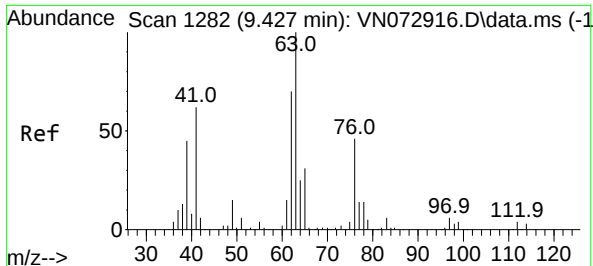
Tgt Ion: 62 Resp: 1259
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.4



#43
Isopropyl Acetate
Concen: 20.065 ug/l
RT: 8.498 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 43 Resp: 203038
Ion Ratio Lower Upper
43 100
61 18.6 21.9 32.9#
87 12.5 12.0 18.0





#45

1,2-Dichloropropane

Concen: 0.867 ug/l

RT: 9.563 min Scan# 11

Delta R.T. 0.135 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

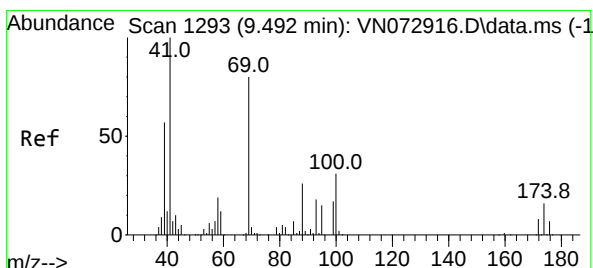
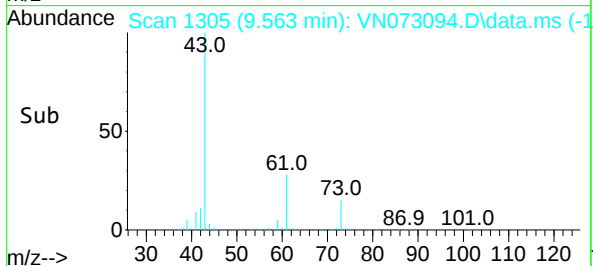
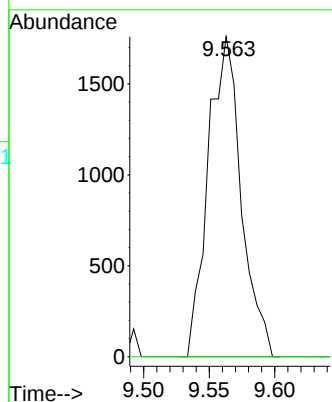
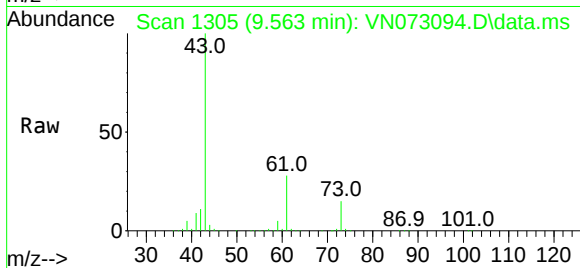
PB145764TB

Tgt Ion: 63 Resp: 3081

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.364 ug/l

RT: 9.481 min Scan# 1291

Delta R.T. -0.012 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

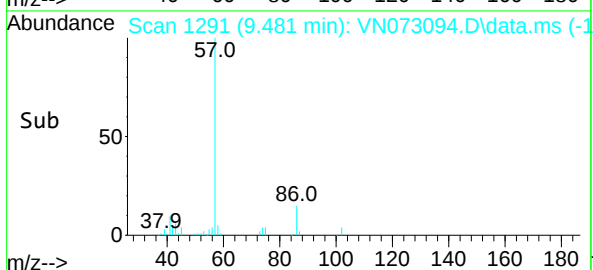
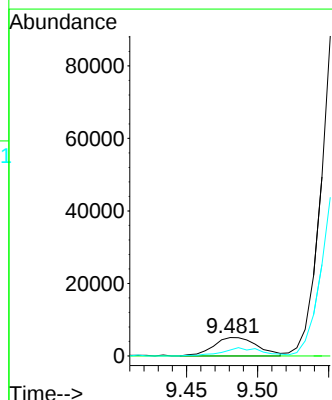
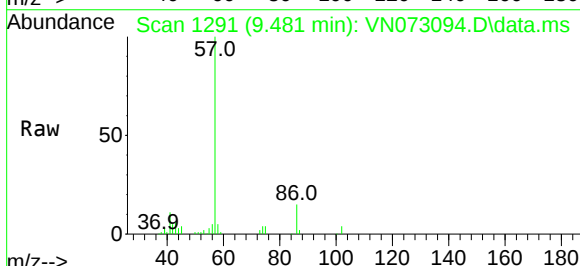
Tgt Ion: 41 Resp: 10923

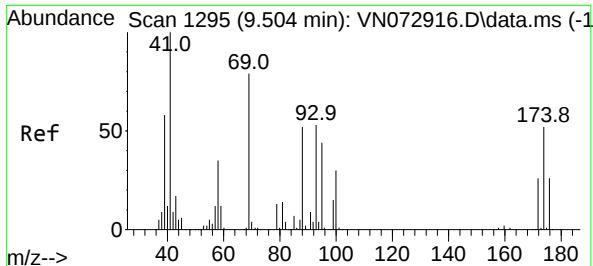
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 40.3 45.6 68.4#





#49

1,4-Dioxane

Concen: 1.491 ug/l

RT: 9.557 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

PB145764TB

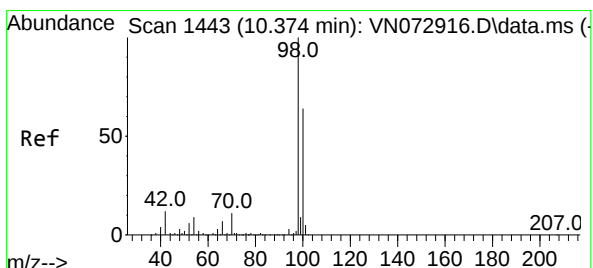
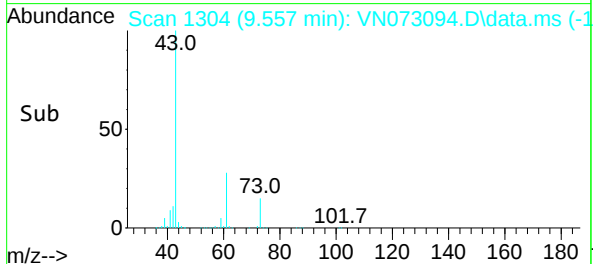
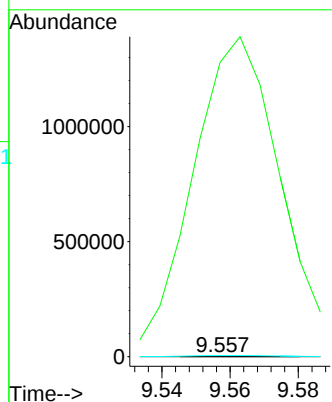
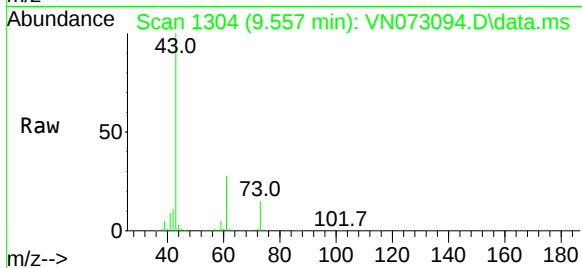
Tgt Ion: 88 Resp: 155

Ion Ratio Lower Upper

88 100

43 1652313.5 20.2 30.4#

58 6398.1 54.2 81.4#



#50

Toluene-d8

Concen: 45.713 ug/l

RT: 10.381 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN073094.D

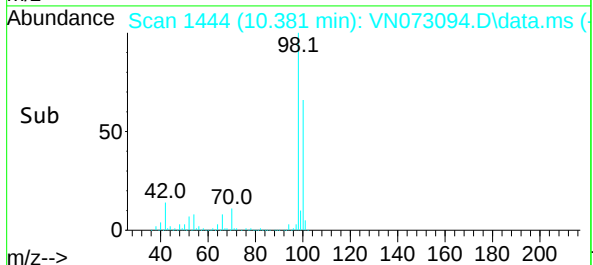
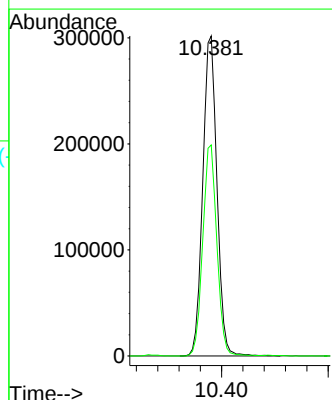
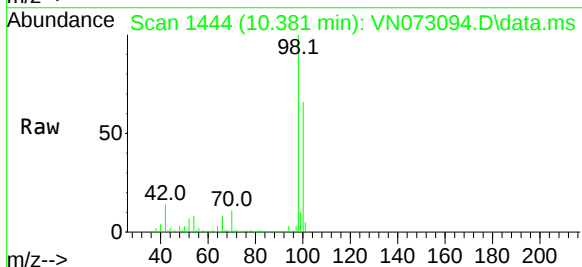
Acq: 24 Jun 2022 19:49

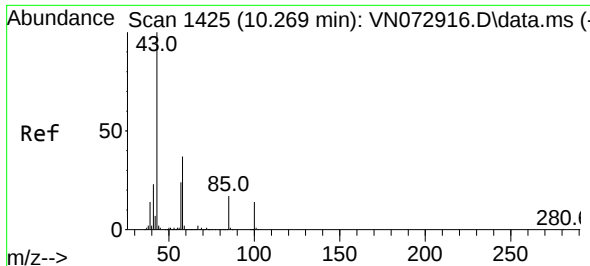
Tgt Ion: 98 Resp: 556351

Ion Ratio Lower Upper

98 100

100 65.7 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 1.962 ug/l

RT: 10.269 min Scan# 1425

Delta R.T. 0.000 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

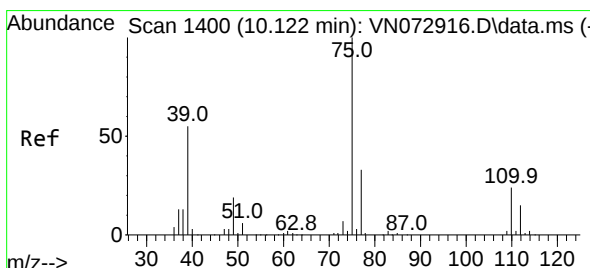
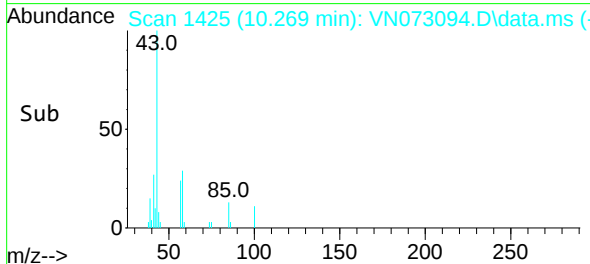
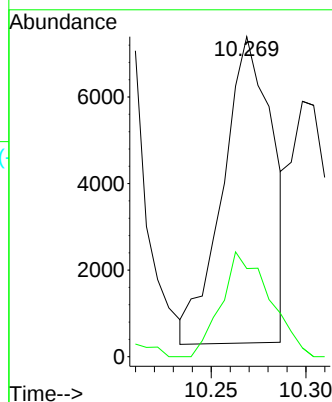
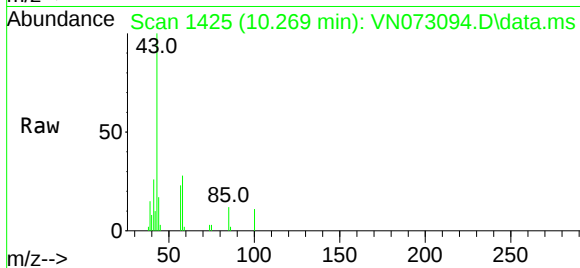
PB145764TB

Tgt Ion: 43 Resp: 12947

Ion Ratio Lower Upper

43 100

58 33.3 34.1 51.1#



#54

cis-1,3-Dichloropropene

Concen: 14.144 ug/l

RT: 10.181 min Scan# 1410

Delta R.T. 0.059 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

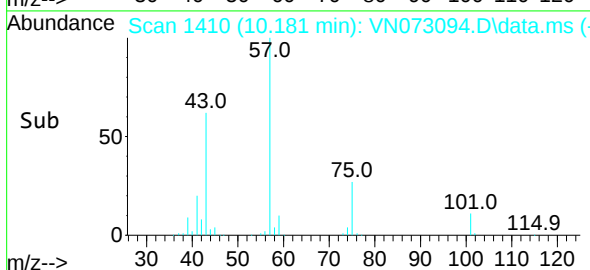
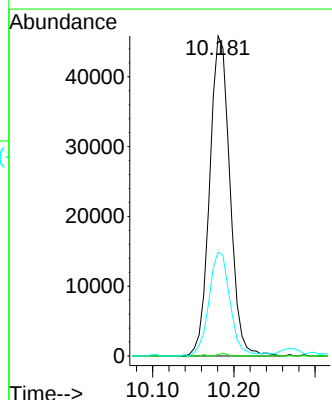
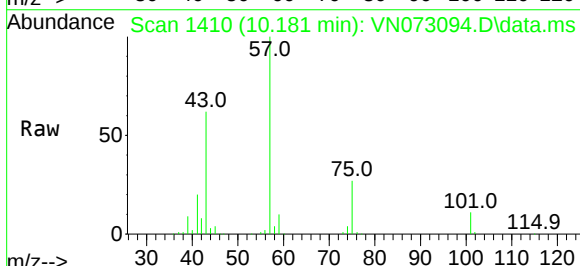
Tgt Ion: 75 Resp: 79380

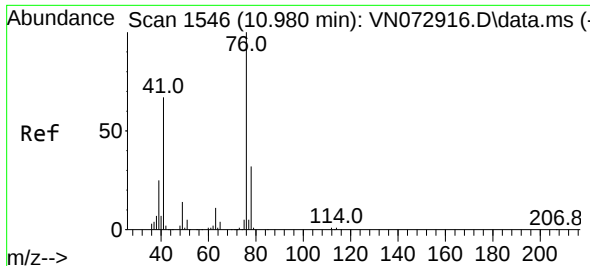
Ion Ratio Lower Upper

75 100

77 0.4 25.2 37.8#

39 32.5 35.7 53.5#





#57

1,3-Dichloropropane

Concen: 3.039 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.053 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

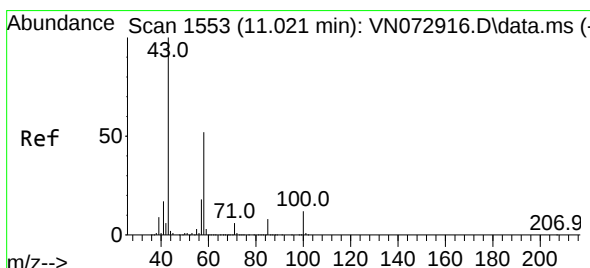
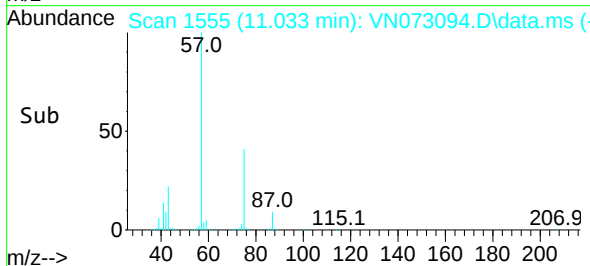
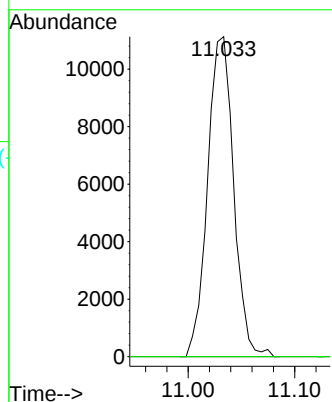
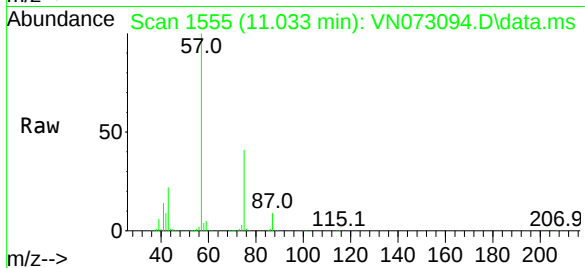
PB145764TB

Tgt Ion: 76 Resp: 18903

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 56.498 ug/l

RT: 11.033 min Scan# 1555

Delta R.T. 0.012 min

Lab File: VN073094.D

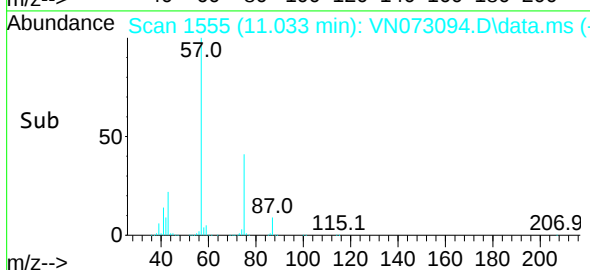
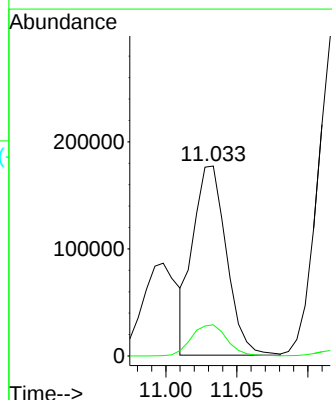
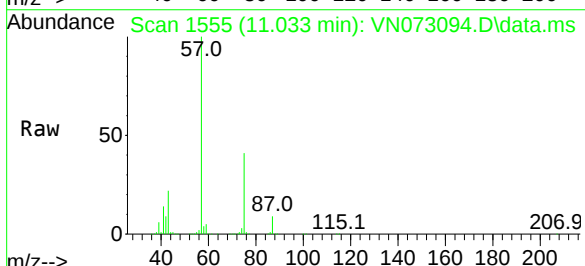
Acq: 24 Jun 2022 19:49

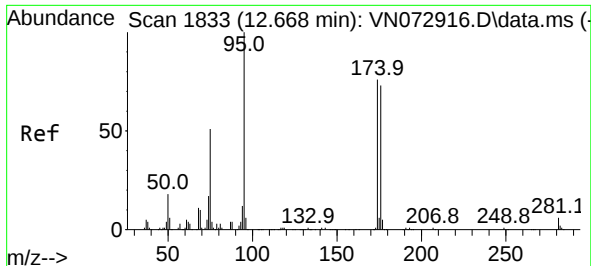
Tgt Ion: 43 Resp: 288348

Ion Ratio Lower Upper

43 100

58 17.7 29.7 89.1#

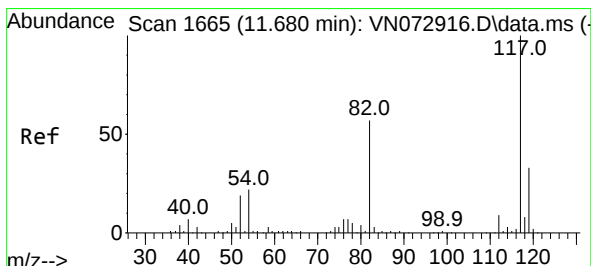
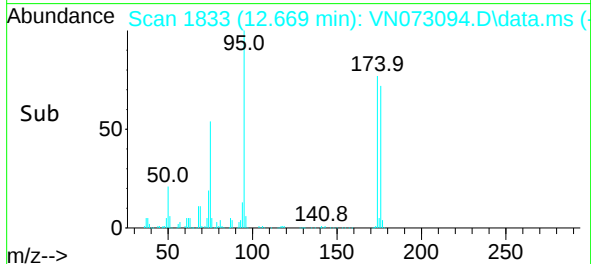
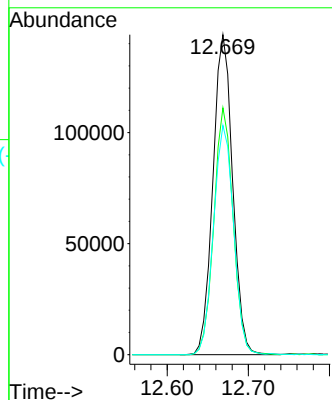
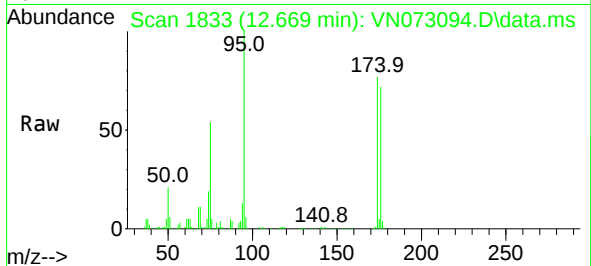




#62
4-Bromofluorobenzene
Concen: 55.612 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

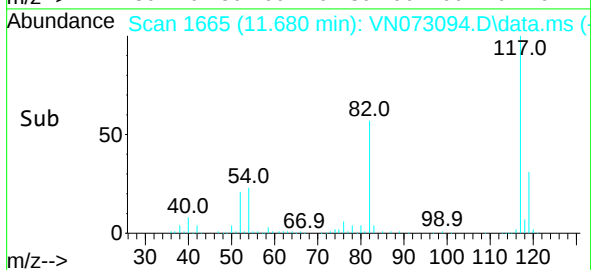
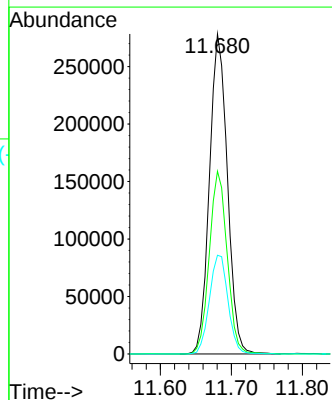
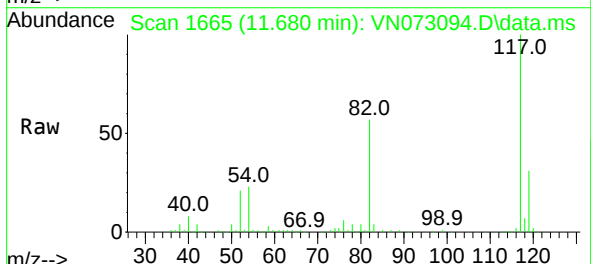
Instrument :
MSVOA_N
ClientSampleId :
PB145764TB

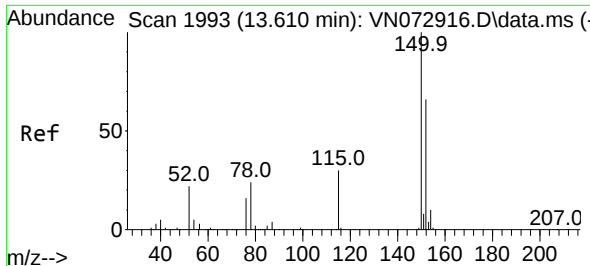
Tgt Ion: 95 Resp: 243373
Ion Ratio Lower Upper
95 100
174 75.3 0.0 167.6
176 72.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073094.D
Acq: 24 Jun 2022 19:49

Tgt Ion: 117 Resp: 488182
Ion Ratio Lower Upper
117 100
82 57.1 44.2 66.2
119 30.9 25.4 38.0

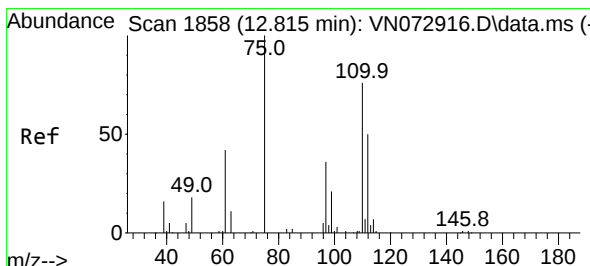
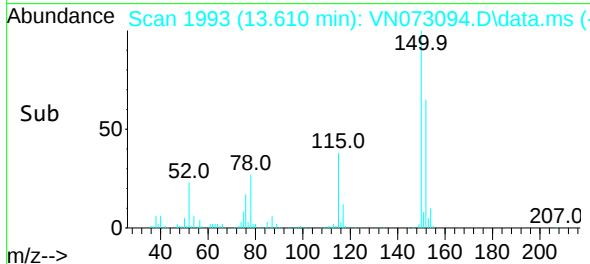
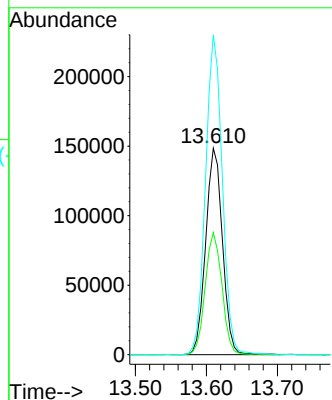
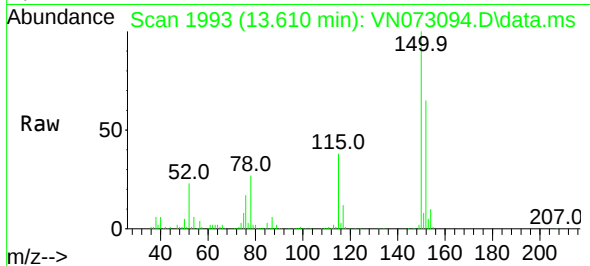




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.610 min Scan# 1993
 Delta R.T. 0.000 min
 Lab File: VN073094.D
 Acq: 24 Jun 2022 19:49

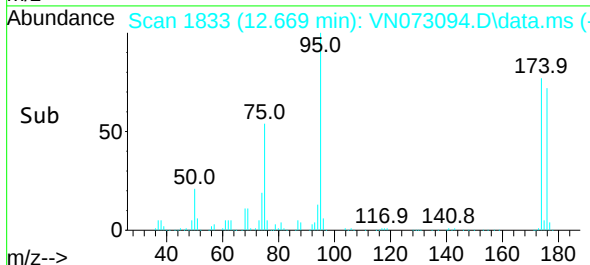
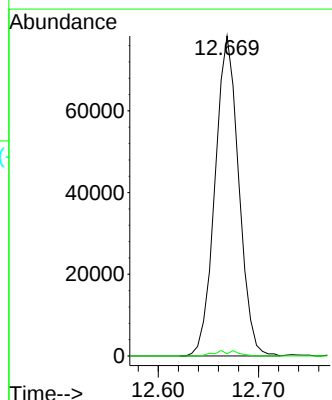
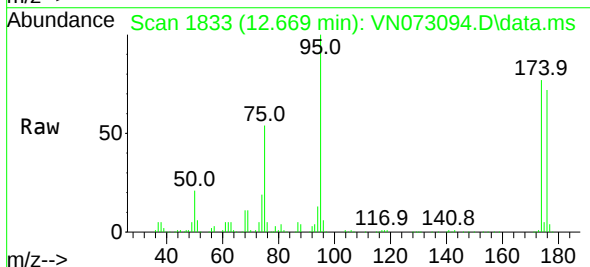
Instrument :
 MSVOA_N
 ClientSampleId :
 PB145764TB

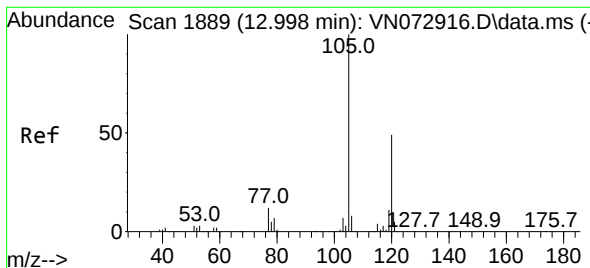
Tgt Ion:152 Resp: 244985
 Ion Ratio Lower Upper
 152 100
 115 58.9 28.9 86.7
 150 154.6 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 21.704 ug/l
 RT: 12.669 min Scan# 1833
 Delta R.T. -0.147 min
 Lab File: VN073094.D
 Acq: 24 Jun 2022 19:49

Tgt Ion: 75 Resp: 128914
 Ion Ratio Lower Upper
 75 100
 77 1.6 98.5 295.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.302 ug/l

RT: 12.992 min Scan# 1889

Delta R.T. -0.006 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Instrument :

MSVOA_N

ClientSampleId :

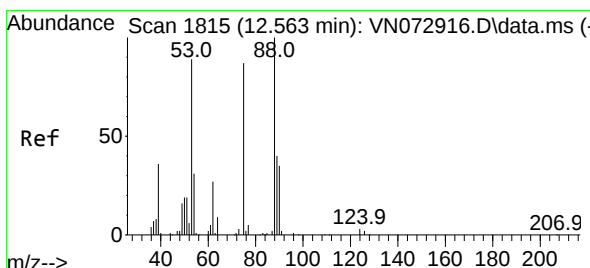
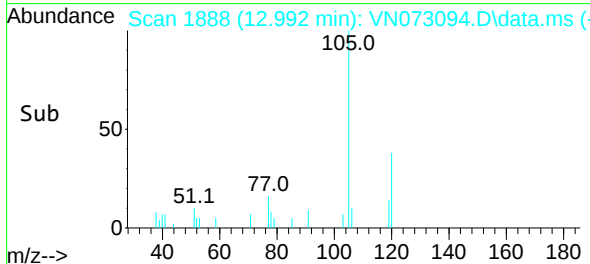
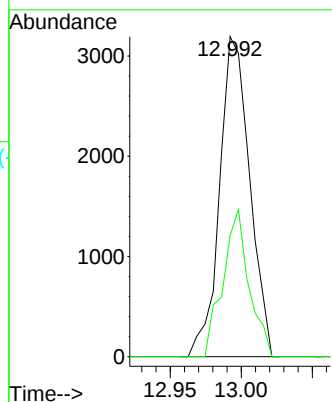
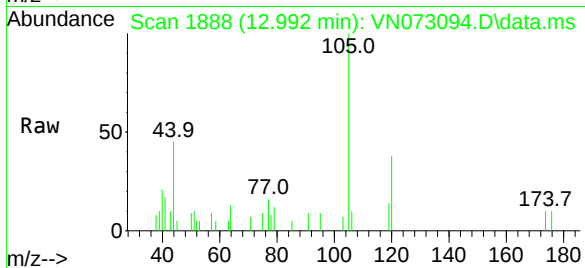
PB145764TB

Tgt Ion:105 Resp: 4701

Ion Ratio Lower Upper

105 100

120 39.9 24.9 74.7



#81

trans-1,4-Dichloro-2-butene

Concen: 58.615 ug/l

RT: 12.669 min Scan# 1833

Delta R.T. 0.106 min

Lab File: VN073094.D

Acq: 24 Jun 2022 19:49

Tgt Ion: 75 Resp: 128914

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#

