

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061322\
 Data File : VN072812.D
 Acq On : 13 Jun 2022 22:33
 Operator : JC\MD
 Sample : PB145459ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#03

Quant Time: Jun 14 05:23:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061322W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 13 17:28:28 2022
 Response via : Initial Calibration

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

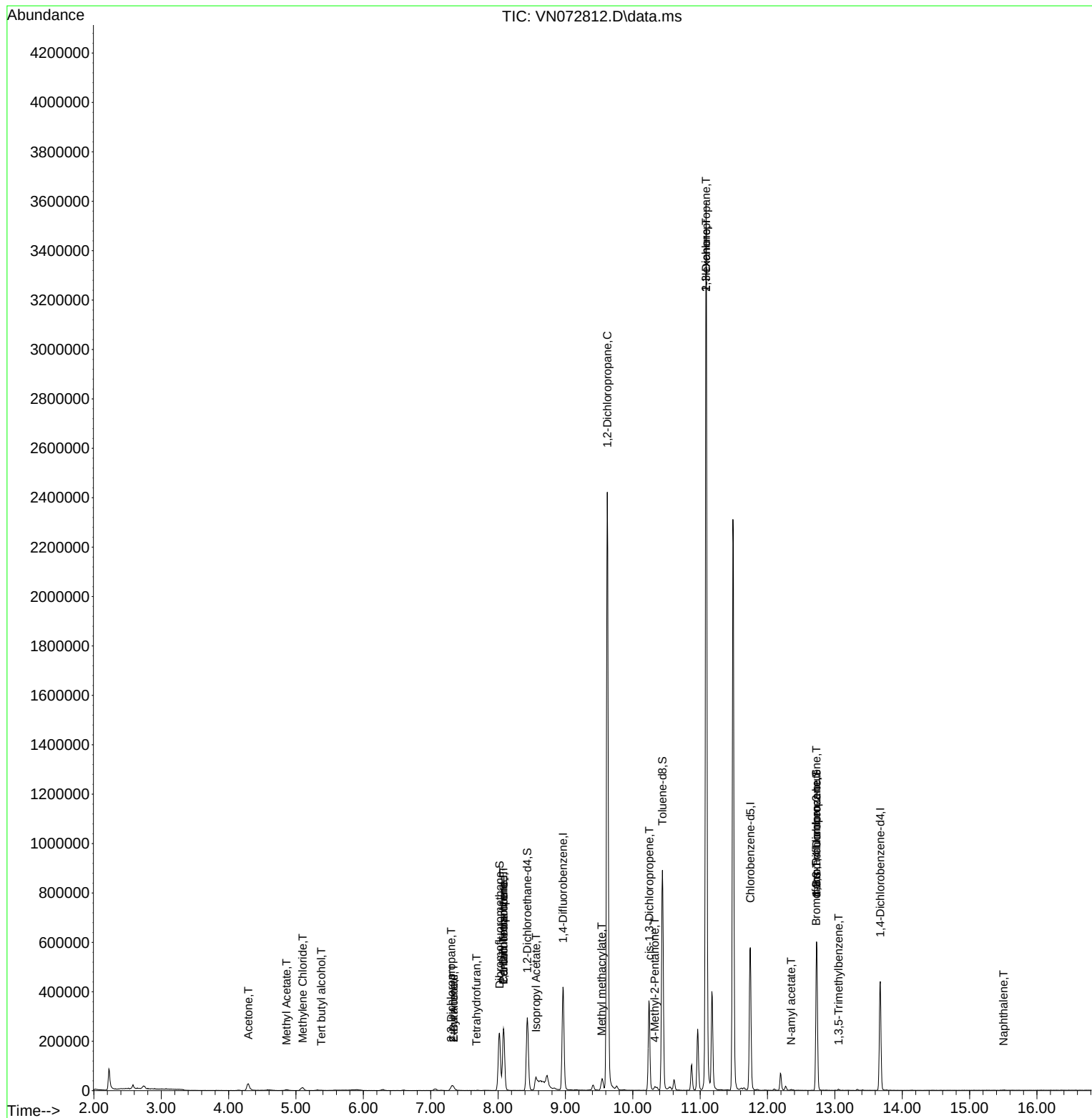
Internal Standards						
1) Pentafluorobenzene	8.080	168	157664	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	323193	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	301228	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	101485	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	247030	55.961	ug/l	0.00
Spiked Amount 50.000	Range 61	- 141	Recovery	=	111.920%	
35) Dibromofluoromethane	8.022	113	167091	51.911	ug/l	0.00
Spiked Amount 50.000	Range 69	- 133	Recovery	=	103.820%	
50) Toluene-d8	10.439	98	589273	45.586	ug/l	0.00
Spiked Amount 50.000	Range 65	- 126	Recovery	=	91.180%	
62) 4-Bromofluorobenzene	12.727	95	205294	44.941	ug/l	0.00
Spiked Amount 50.000	Range 58	- 135	Recovery	=	89.880%	
Target Compounds						
						Qvalue
3) Chloromethane	2.299	50	884	Below Cal	#	43
6) Chloroethane	3.034	64	388	Below Cal	#	81
11) Tert butyl alcohol	5.375	59	1250	0.288	ug/l #	72
16) Acetone	4.293	43	51577	25.729	ug/l #	86
17) Carbon Disulfide	4.528	76	60	Below Cal	#	75
18) Methyl Acetate	4.857	43	7201	1.367	ug/l #	80
20) Methylene Chloride	5.098	84	8921	1.901	ug/l #	91
25) 2-Butanone	7.339	43	20764	6.604	ug/l #	83
26) 2,2-Dichloropropane	7.304	77	1069	0.207	ug/l #	53
29) Tetrahydrofuran	7.681	42	1016	0.522	ug/l #	33
31) Cyclohexane	8.092	56	5923	Below Cal	#	54
36) 1,1-Dichloropropene	8.080	75	17087	3.810	ug/l #	48
37) Ethyl Acetate	7.339	43	20764	3.030	ug/l #	68
38) Carbon Tetrachloride	8.080	117	20306	4.319	ug/l #	18
43) Isopropyl Acetate	8.563	43	74573	7.030	ug/l #	72
45) 1,2-Dichloropropane	9.622	63	2382	0.637	ug/l #	44
48) Methyl methacrylate	9.539	41	14309	2.907	ug/l #	10
51) 4-Methyl-2-Pentanone	10.327	43	10320	1.467	ug/l	88
54) cis-1,3-Dichloropropene	10.245	75	59315	10.106	ug/l #	75
57) 1,3-Dichloropropane	11.086	76	34479	5.372	ug/l #	42
59) 2-Hexanone	11.086	43	595611	114.273	ug/l #	44
71) Bromoform	12.721	173	815	0.370	ug/l #	28
74) N-amyl acetate	12.351	43	2382	0.480	ug/l #	40
76) 1,2,3-Trichloropropane	12.727	75	121984	35.022	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.057	105	2014	0.241	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.727	75	121984	106.741	ug/l #	10
95) Naphthalene	15.504	128	1585	0.251	ug/l #	80

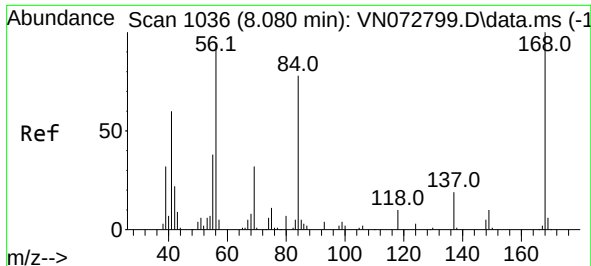
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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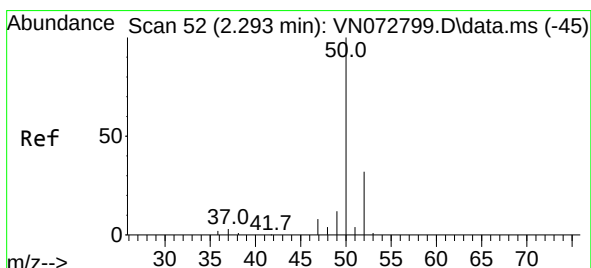
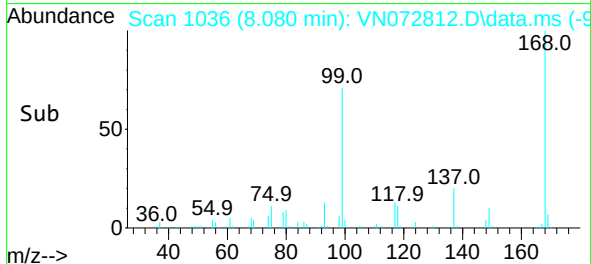
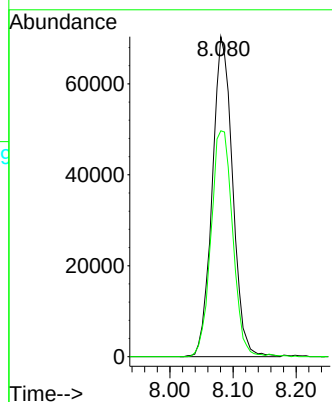
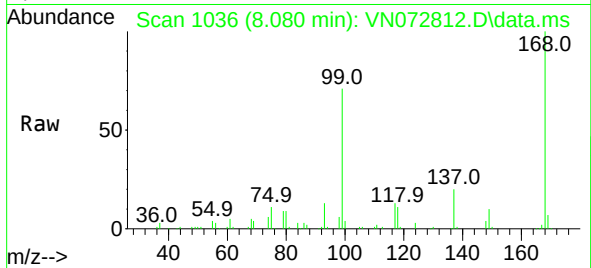




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.080 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

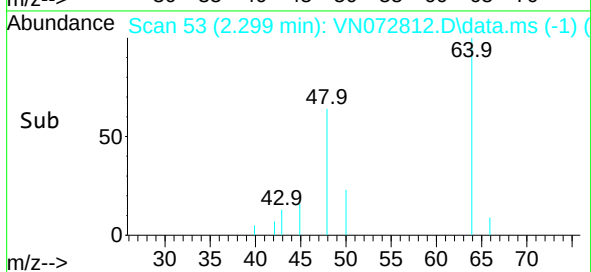
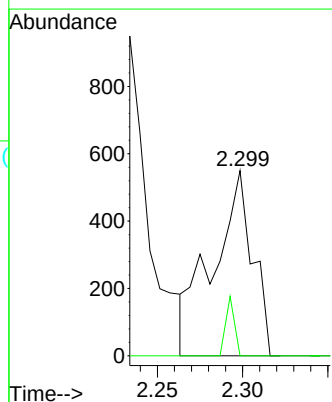
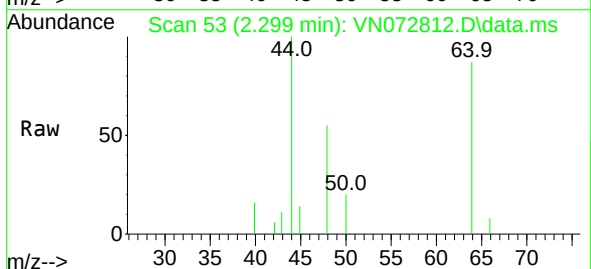
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

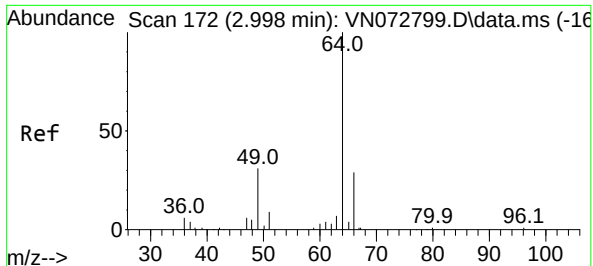
Tgt Ion:168 Resp: 157664
Ion Ratio Lower Upper
168 100
99 70.6 42.3 63.5#



#3
Chloromethane
Concen: Below Cal
RT: 2.299 min Scan# 53
Delta R.T. 0.006 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 50 Resp: 884
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

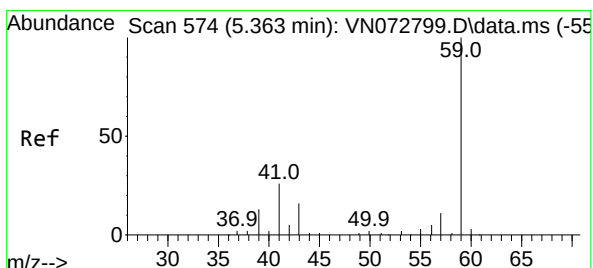
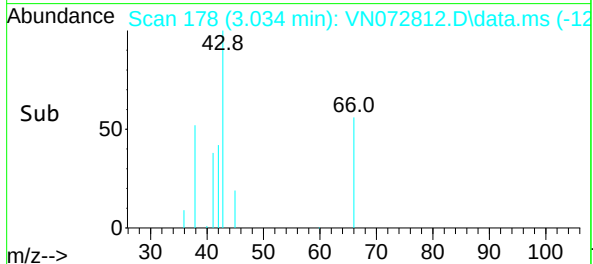
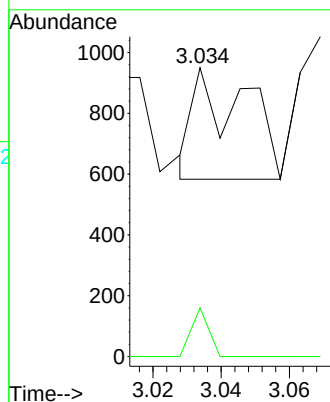
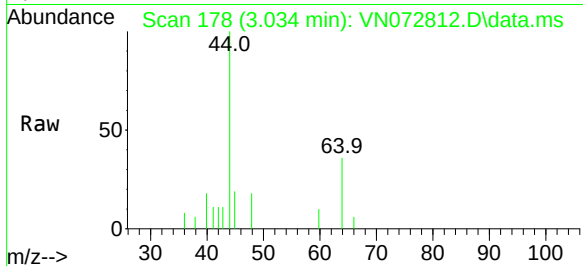




#6
Chloroethane
Concen: Below Cal
RT: 3.034 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

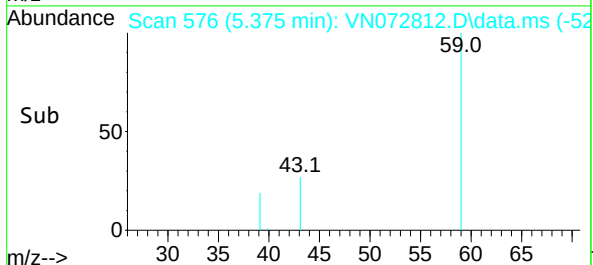
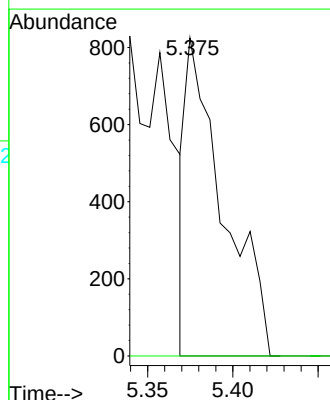
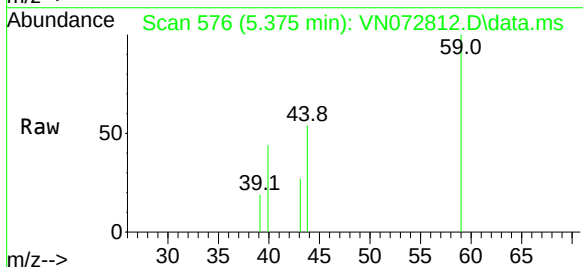
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

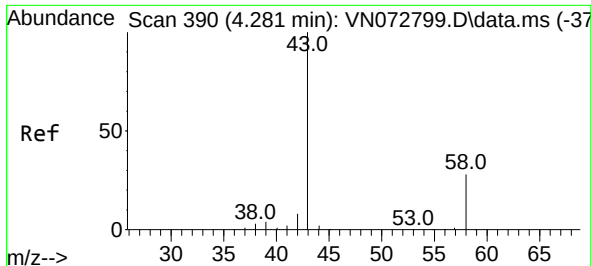
Tgt Ion: 64 Resp: 388
Ion Ratio Lower Upper
64 100
66 43.6 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.288 ug/l
RT: 5.375 min Scan# 576
Delta R.T. 0.012 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 59 Resp: 1250
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

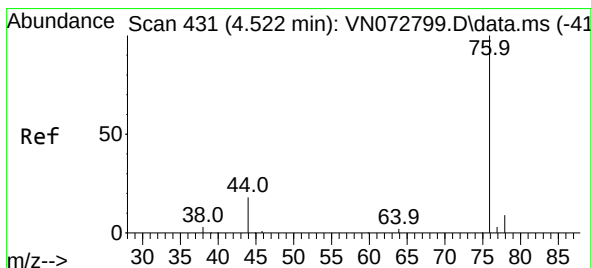
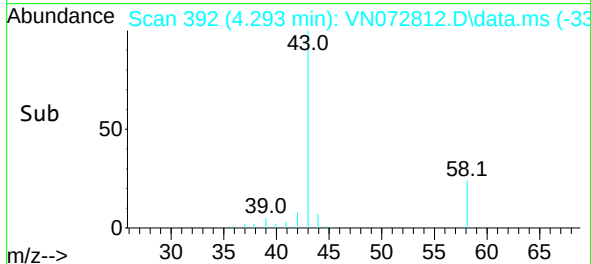
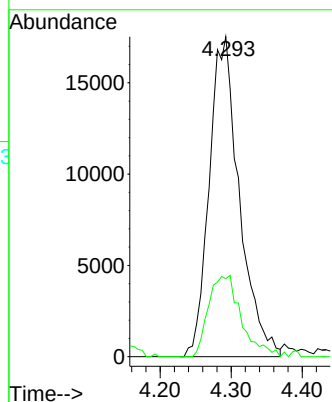
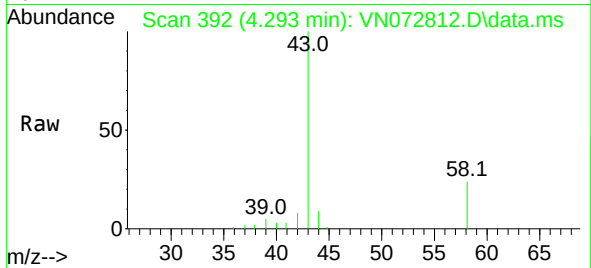




#16
Acetone
Concen: 25.729 ug/l
RT: 4.293 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

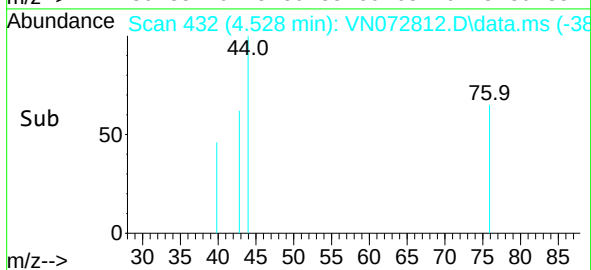
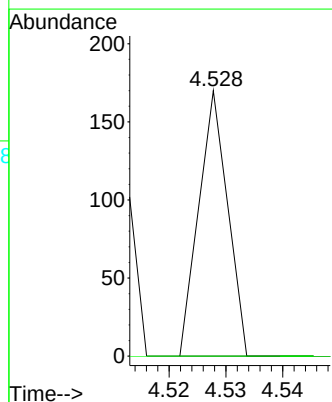
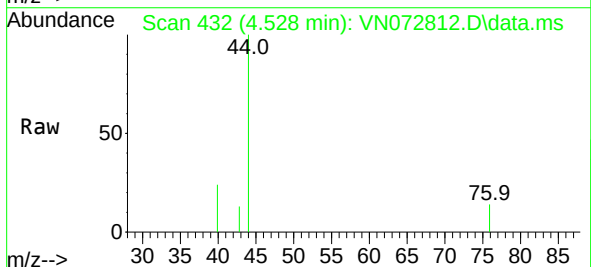
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

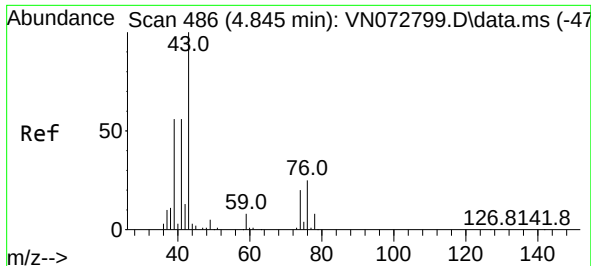
Tgt Ion: 43 Resp: 51577
Ion Ratio Lower Upper
43 100
58 24.4 26.0 39.0#



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.528 min Scan# 432
Delta R.T. 0.006 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 76 Resp: 60
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

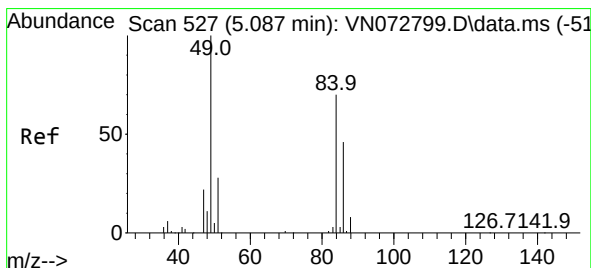
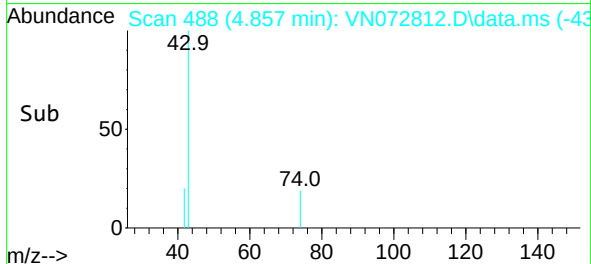
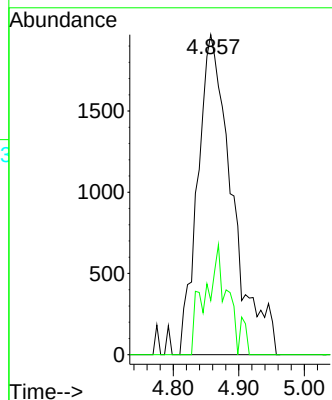
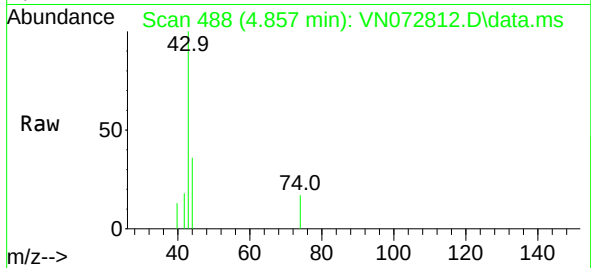




#18
Methyl Acetate
Concen: 1.367 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.012 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

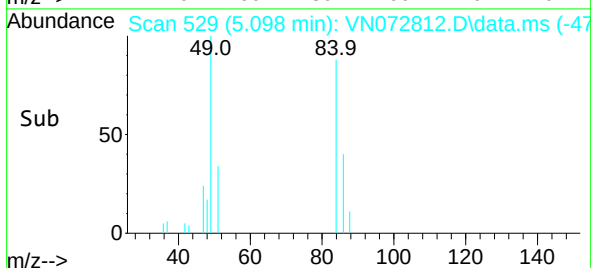
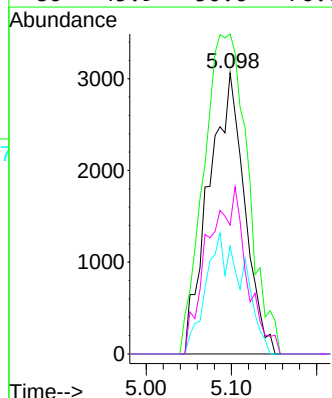
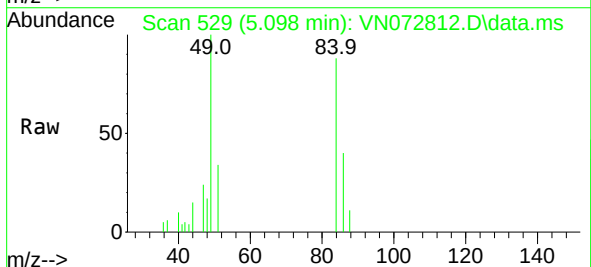
Instrument :
MSVOA_N
ClientSampleId :
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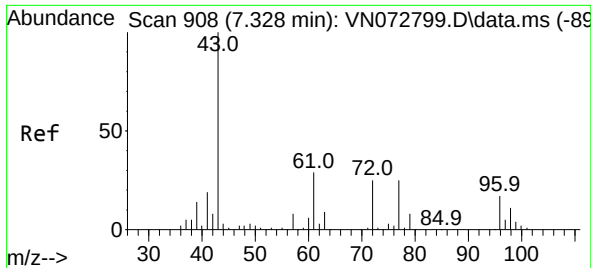
Tgt Ion: 43 Resp: 7201
Ion Ratio Lower Upper
43 100
74 16.5 21.6 32.4#



#20
Methylene Chloride
Concen: 1.901 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.011 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 84 Resp: 8921
Ion Ratio Lower Upper
84 100
49 113.9 88.3 132.5
51 38.3 28.2 42.2
86 45.9 50.6 76.0#

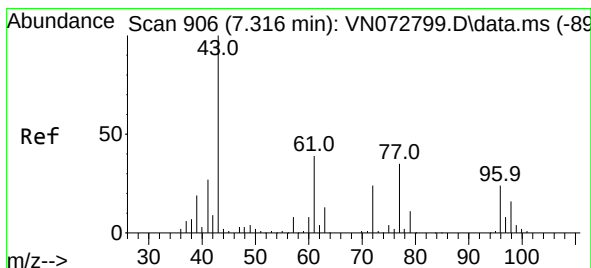
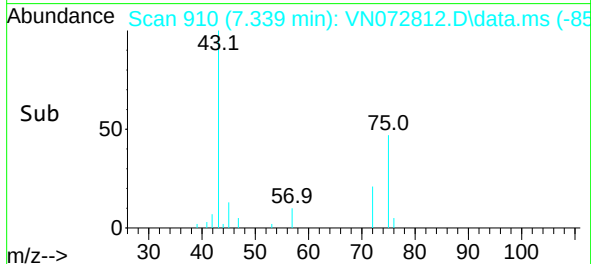
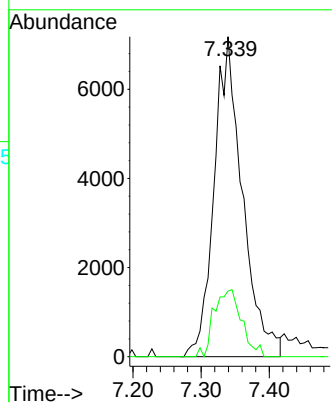
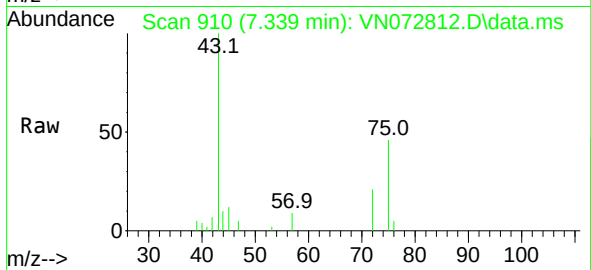




#25
2-Butanone
Concen: 6.604 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.011 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

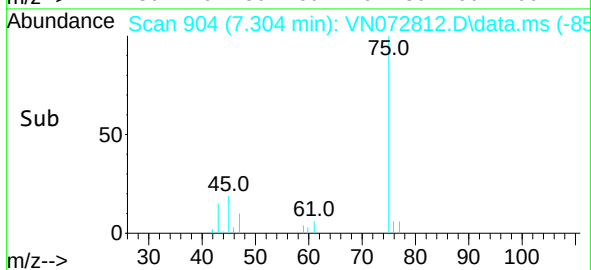
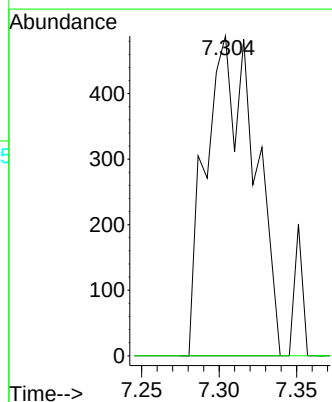
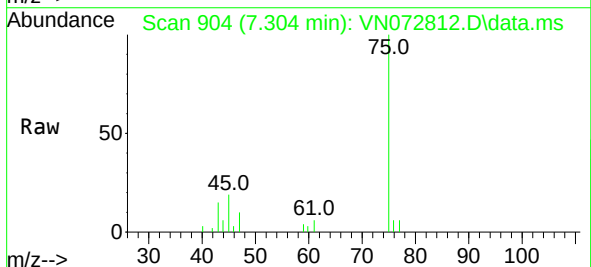
Instrument :
MSVOA_N
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PB145459ZHE#03

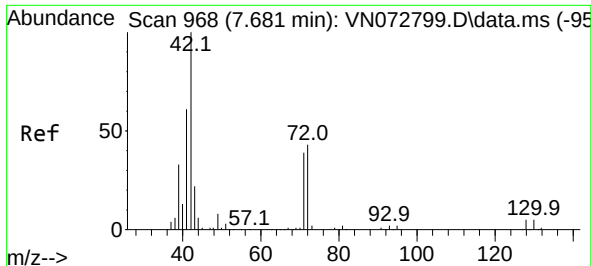
Tgt Ion: 43 Resp: 20764
Ion Ratio Lower Upper
43 100
72 20.5 23.7 35.5#



#26
2,2-Dichloropropane
Concen: 0.207 ug/l
RT: 7.304 min Scan# 904
Delta R.T. -0.012 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 77 Resp: 1069
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.522 ug/l

RT: 7.681 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN072812.D

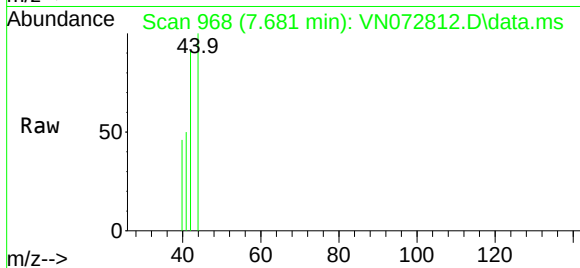
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Instrument :

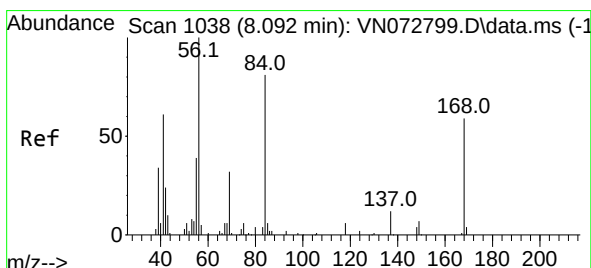
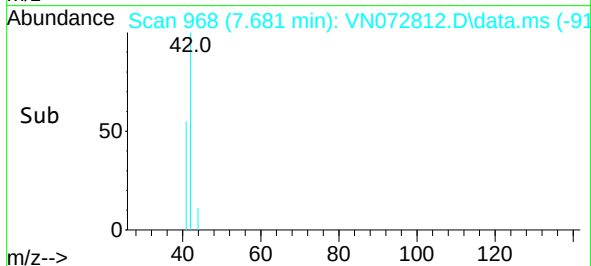
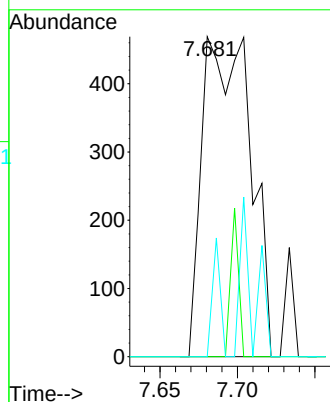
MSVOA_N

ClientSampleId :

PB145459ZHE#03



Tgt Ion:	42	Resp:	1016
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.7	59.5#
71	6.0	36.6	55.0#



#31

Cyclohexane

Concen: Below Cal

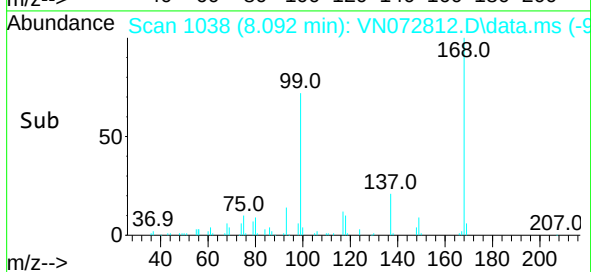
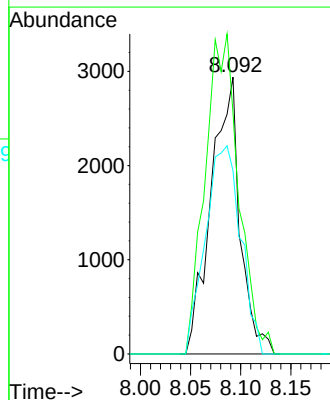
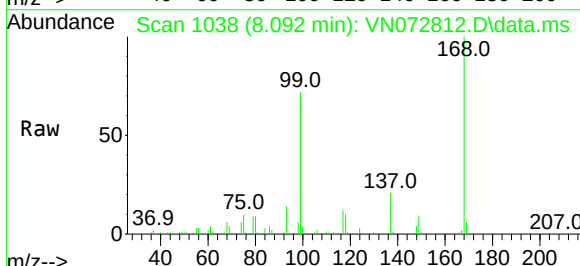
RT: 8.092 min Scan# 1038

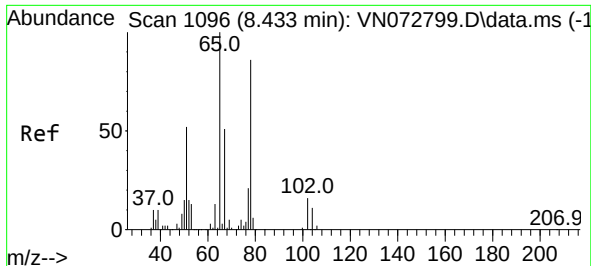
Delta R.T. 0.000 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Tgt Ion:	56	Resp:	5923
Ion	Ratio	Lower	Upper
56	100		
69	87.1	27.8	41.8#
84	66.2	76.9	115.3#

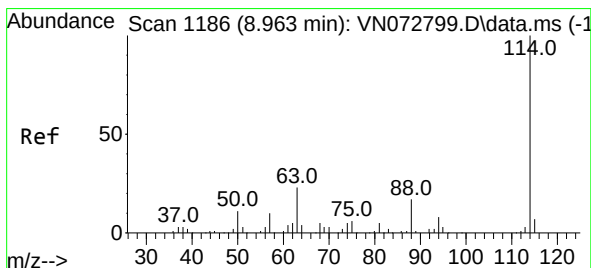
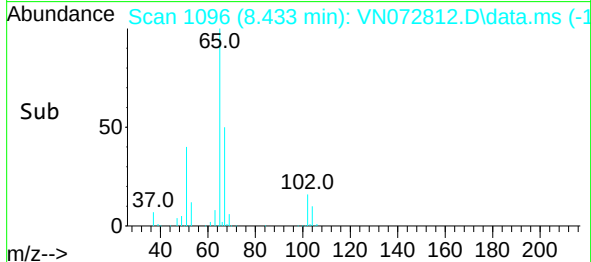
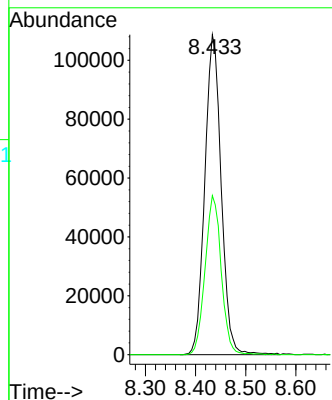
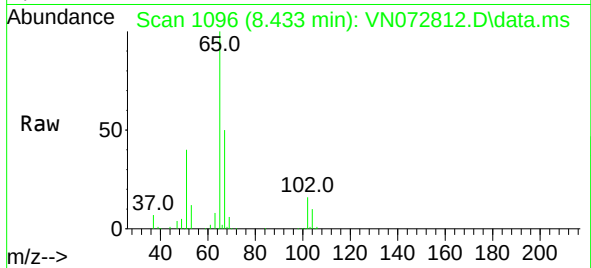




#33
1,2-Dichloroethane-d4
Concen: 55.961 ug/l
RT: 8.433 min Scan# 1109
Delta R.T. 0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

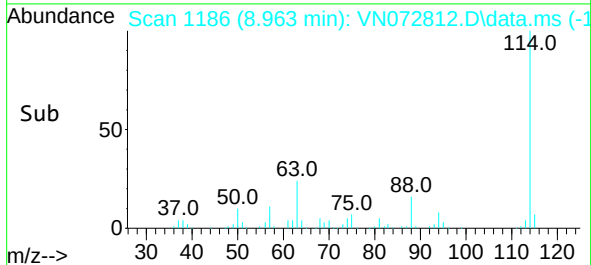
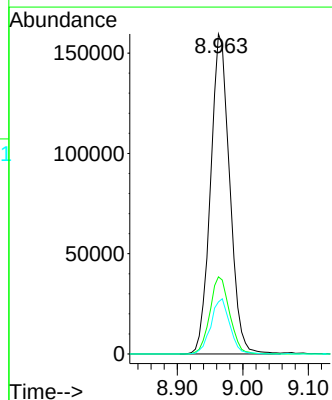
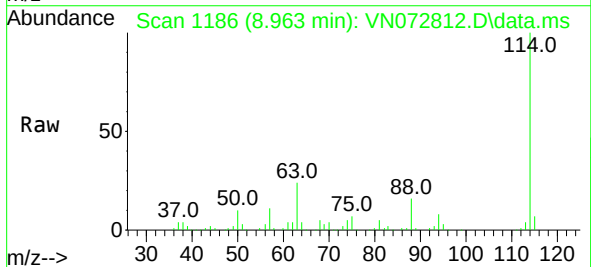
Instrument :
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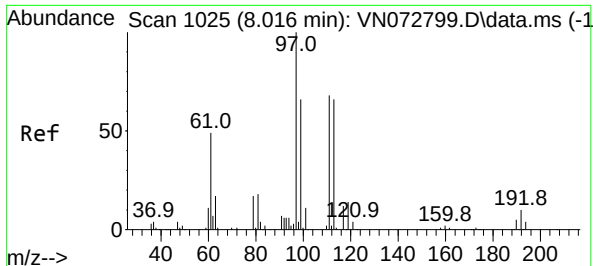
Tgt Ion: 65 Resp: 247030
Ion Ratio Lower Upper
65 100
67 49.0 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 114 Resp: 323193
Ion Ratio Lower Upper
114 100
63 24.1 0.0 40.0
88 16.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.911 ug/l

RT: 8.022 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#03

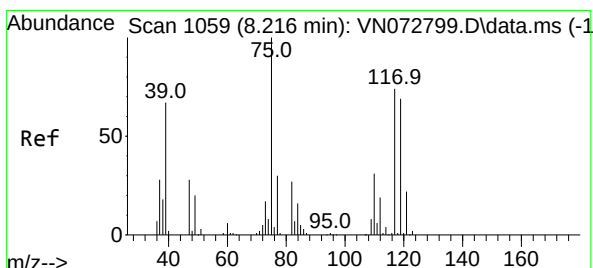
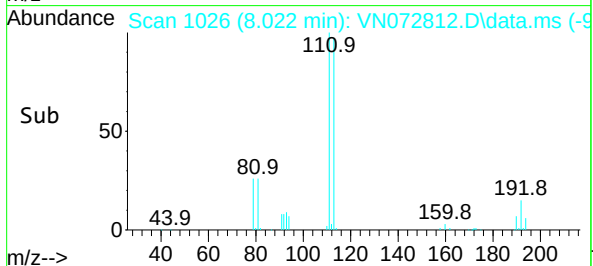
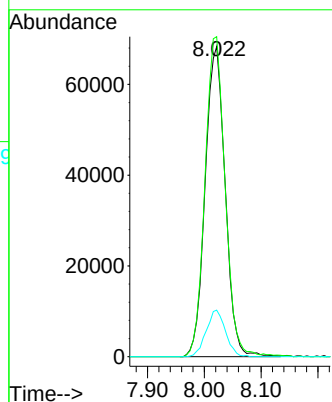
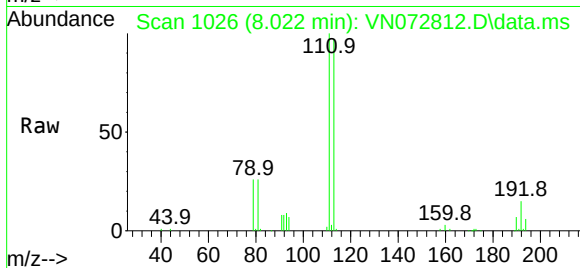
Tgt Ion:113 Resp: 167091

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

192 14.5 17.0 25.6#



#36

1,1-Dichloropropene

Concen: 3.810 ug/l

RT: 8.080 min Scan# 1036

Delta R.T. -0.136 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

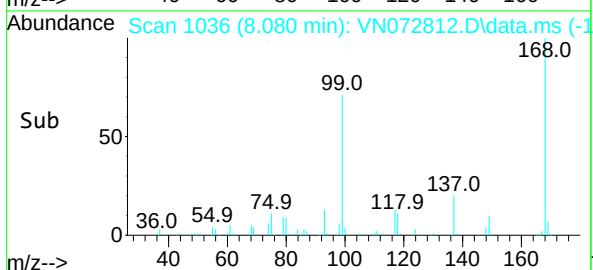
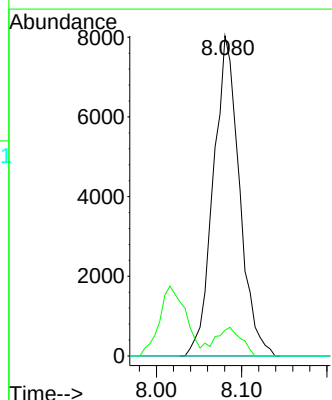
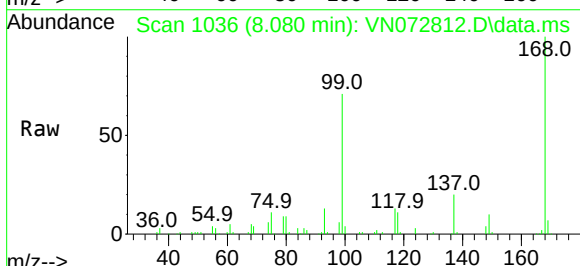
Tgt Ion: 75 Resp: 17087

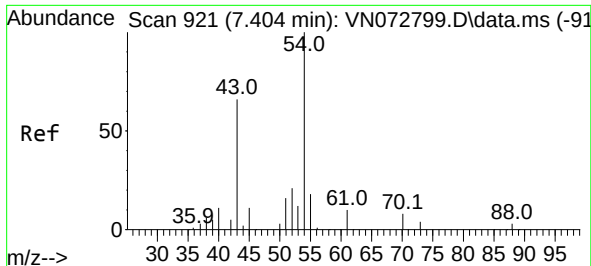
Ion Ratio Lower Upper

75 100

110 8.1 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 3.030 ug/l

RT: 7.339 min Scan# 91

Delta R.T. -0.065 min

Lab File: VN072812.D

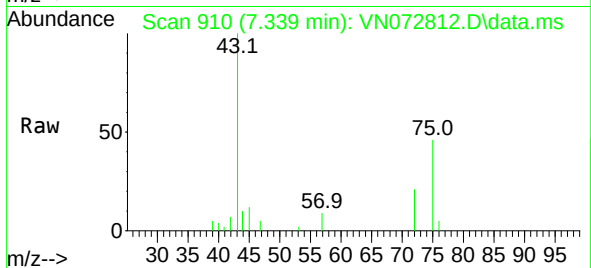
Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#03



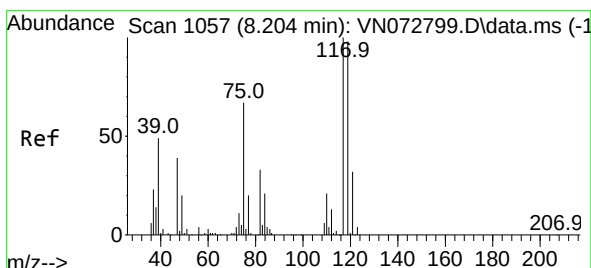
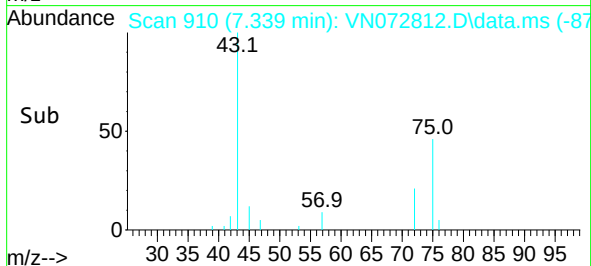
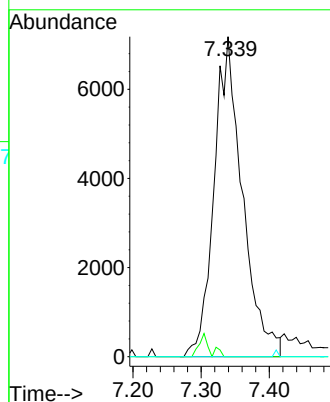
Tgt Ion: 43 Resp: 20764

Ion Ratio Lower Upper

43 100

61 0.6 11.8 17.6#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 4.319 ug/l

RT: 8.080 min Scan# 1036

Delta R.T. -0.124 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

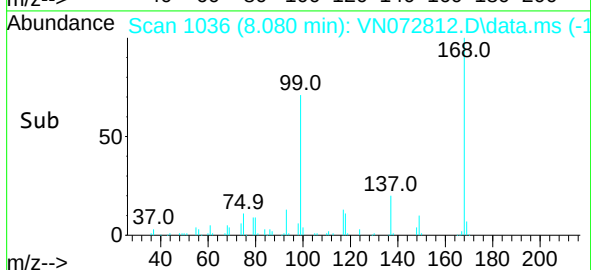
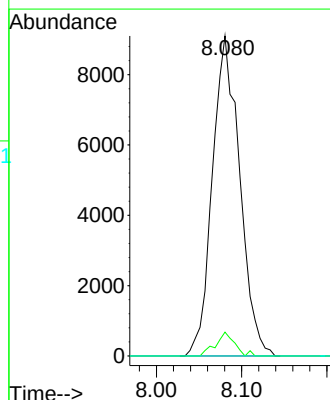
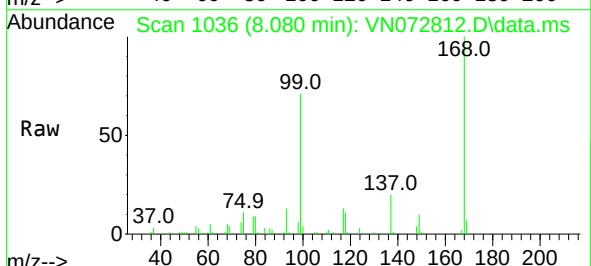
Tgt Ion: 117 Resp: 20306

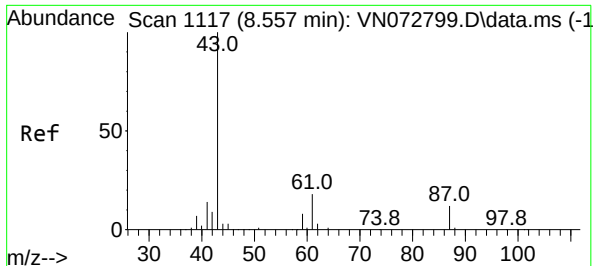
Ion Ratio Lower Upper

117 100

119 7.4 75.8 113.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 7.030 ug/l

RT: 8.563 min Scan# 1118

Delta R.T. 0.006 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#03

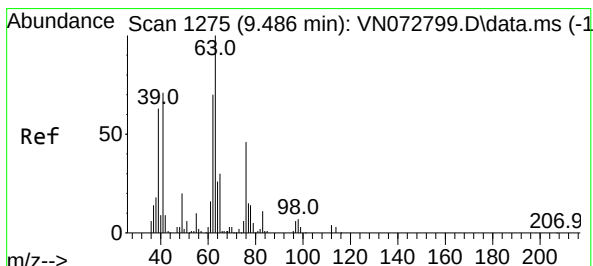
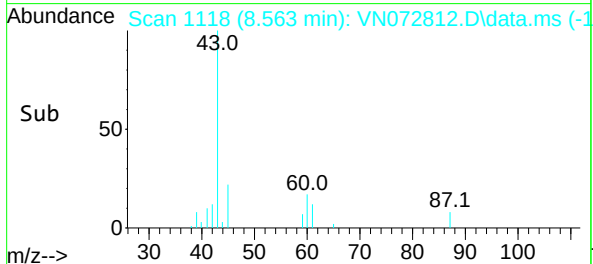
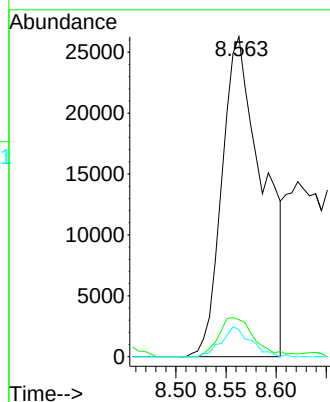
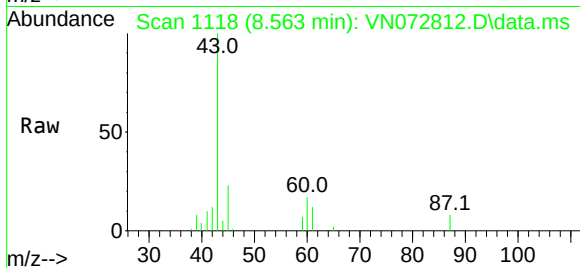
Tgt Ion: 43 Resp: 74573

Ion Ratio Lower Upper

43 100

61 10.7 21.9 32.9#

87 6.7 12.0 18.0#



#45

1,2-Dichloropropane

Concen: 0.637 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.136 min

Lab File: VN072812.D

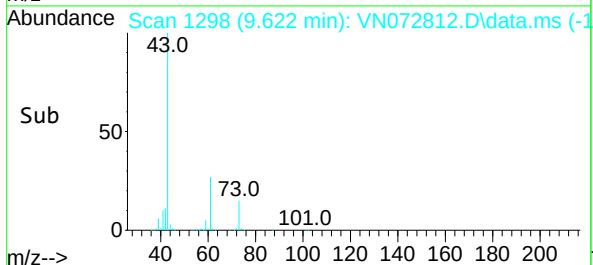
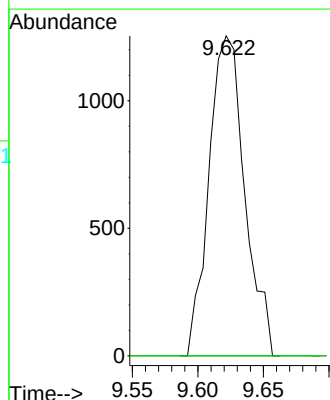
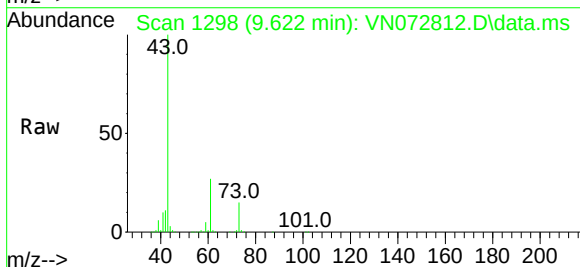
Acq: 13 Jun 2022 22:33

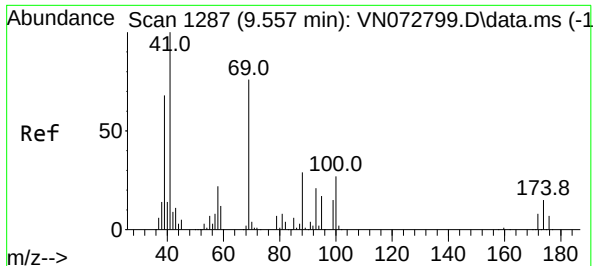
Tgt Ion: 63 Resp: 2382

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#





#48

Methyl methacrylate

Concen: 2.907 ug/l

RT: 9.539 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#03

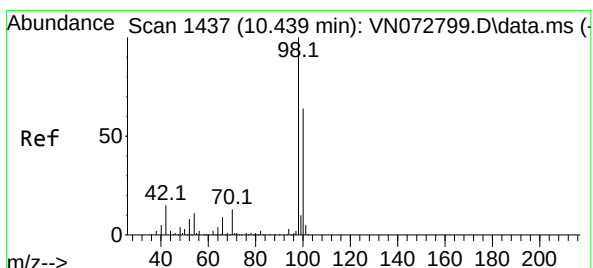
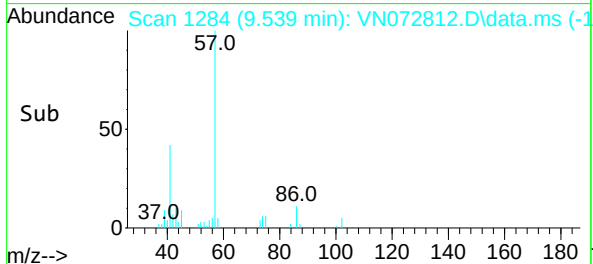
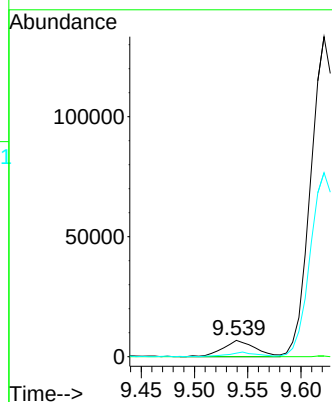
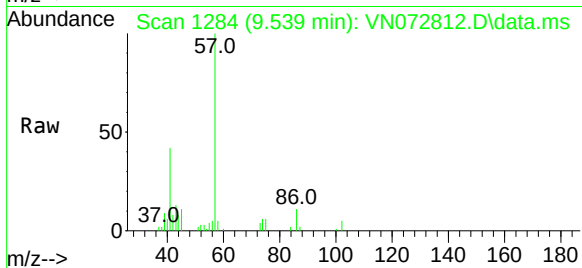
Tgt Ion: 41 Resp: 14309

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#



#50

Toluene-d8

Concen: 45.586 ug/l

RT: 10.439 min Scan# 1437

Delta R.T. 0.000 min

Lab File: VN072812.D

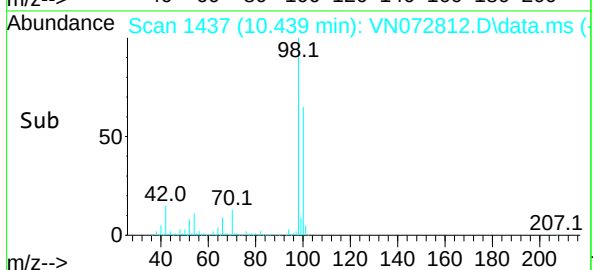
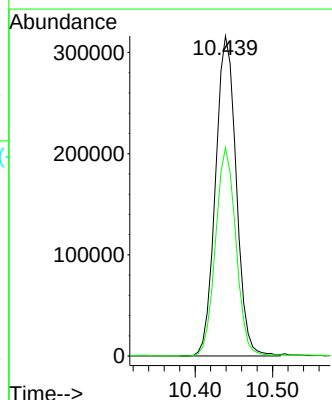
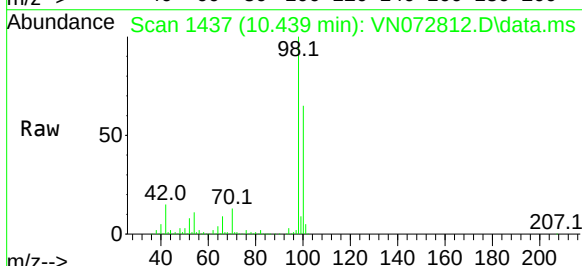
Acq: 13 Jun 2022 22:33

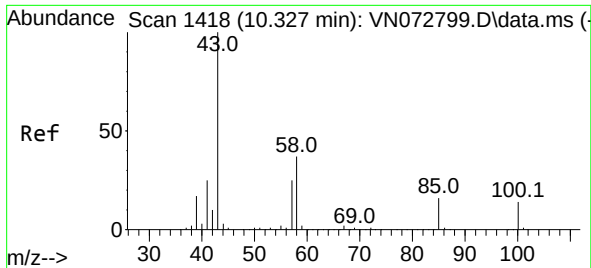
Tgt Ion: 98 Resp: 589273

Ion Ratio Lower Upper

98 100

100 64.1 52.6 78.8

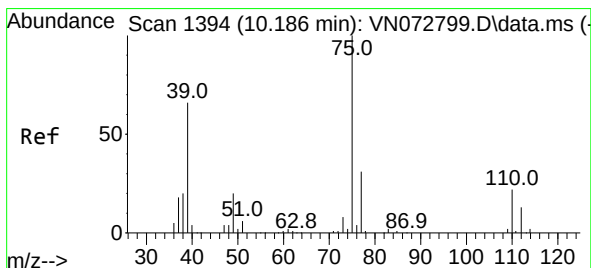
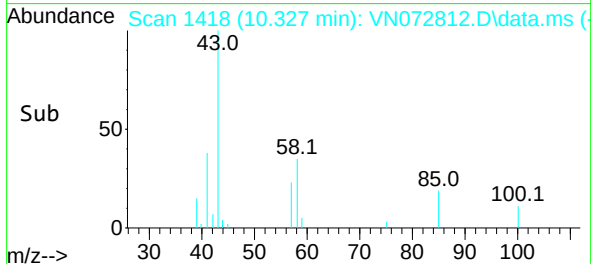
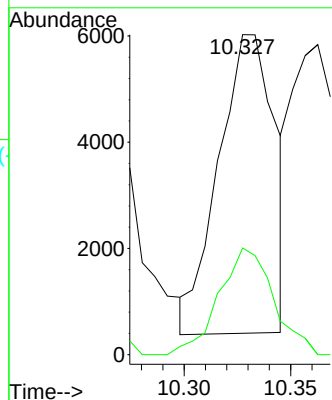
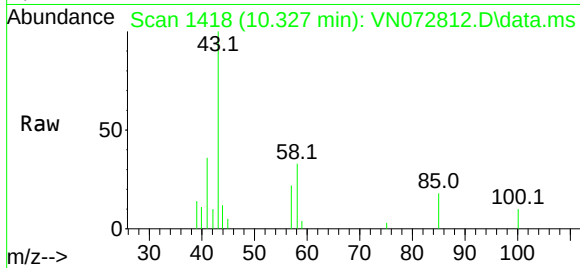




#51
4-Methyl-2-Pentanone
Concen: 1.467 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

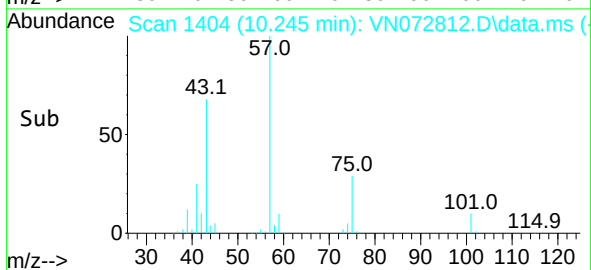
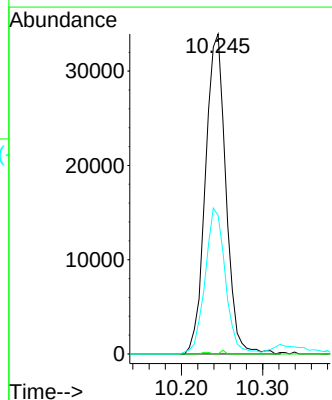
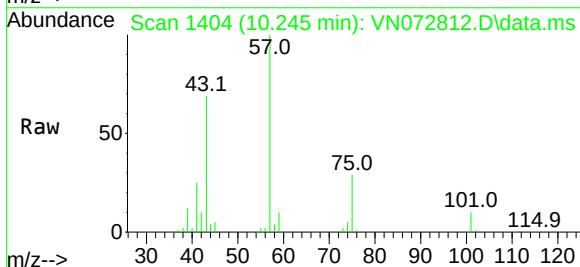
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

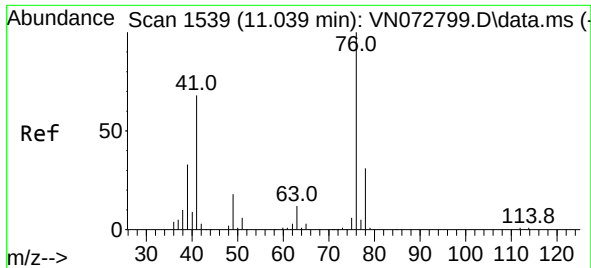
Tgt Ion: 43 Resp: 10320
Ion Ratio Lower Upper
43 100
58 34.7 34.1 51.1



#54
cis-1,3-Dichloropropene
Concen: 10.106 ug/l
RT: 10.245 min Scan# 1404
Delta R.T. 0.059 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 75 Resp: 59315
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 43.3 35.7 53.5





#57

1,3-Dichloropropane

Concen: 5.372 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

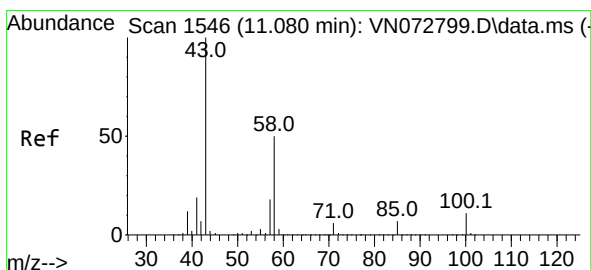
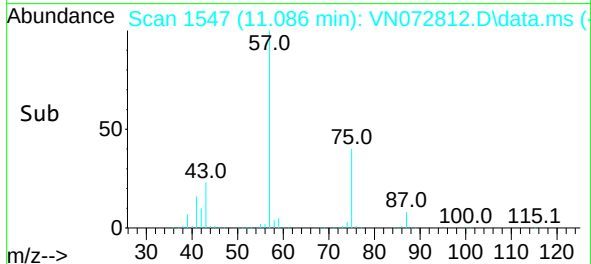
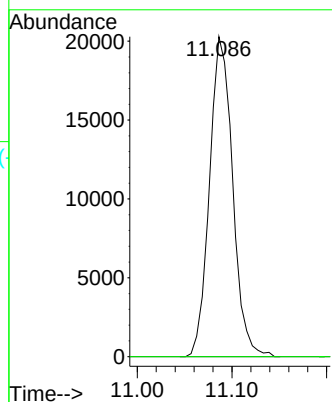
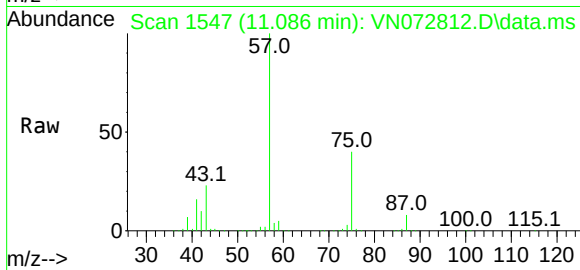
PB145459ZHE#03

Tgt Ion: 76 Resp: 34479

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 114.273 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN072812.D

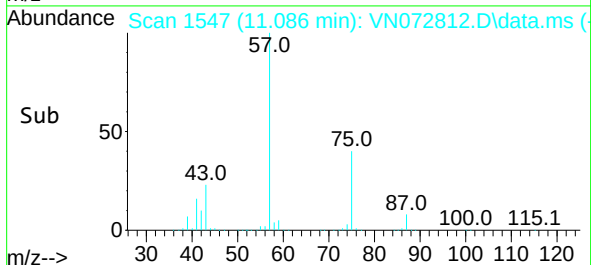
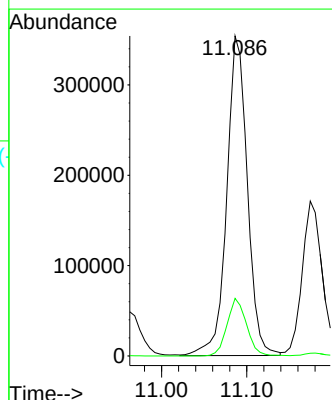
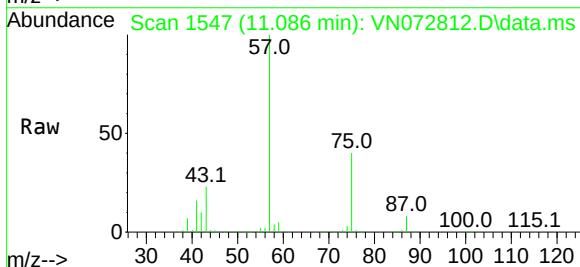
Acq: 13 Jun 2022 22:33

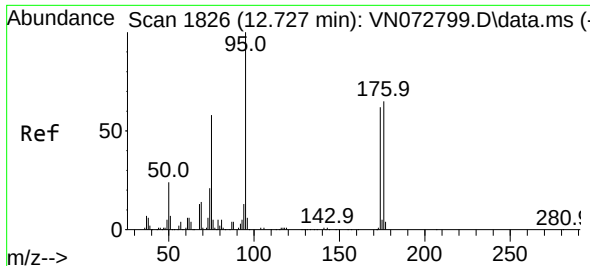
Tgt Ion: 43 Resp: 595611

Ion Ratio Lower Upper

43 100

58 17.1 29.7 89.1#

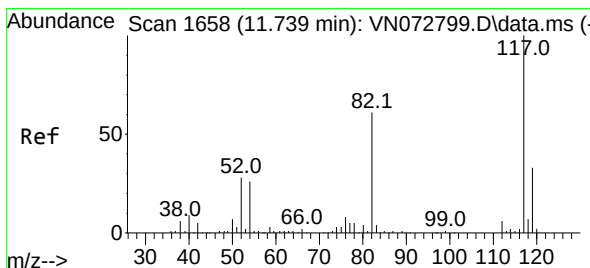
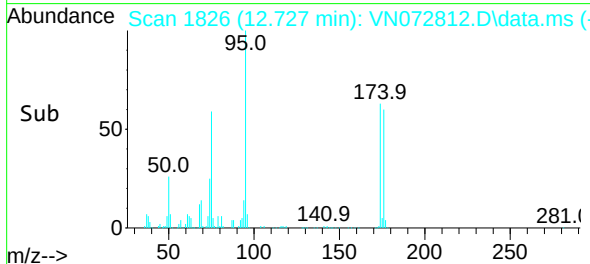
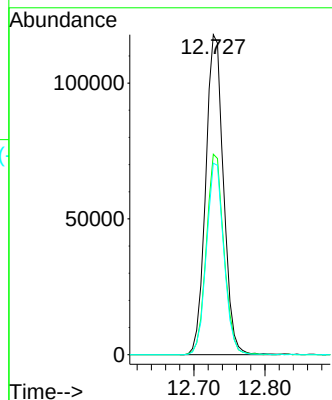
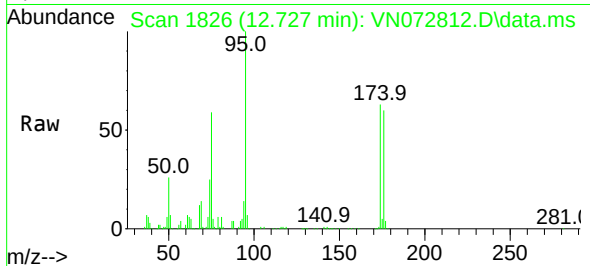




#62
4-Bromofluorobenzene
Concen: 44.941 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

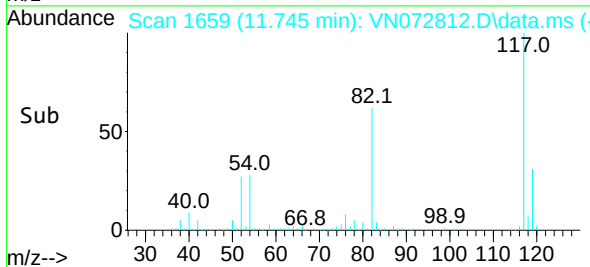
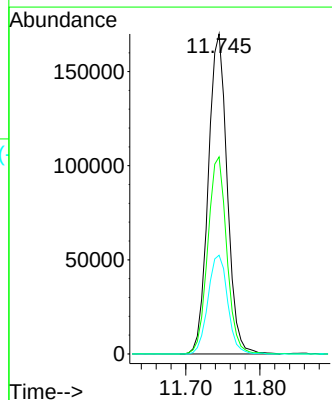
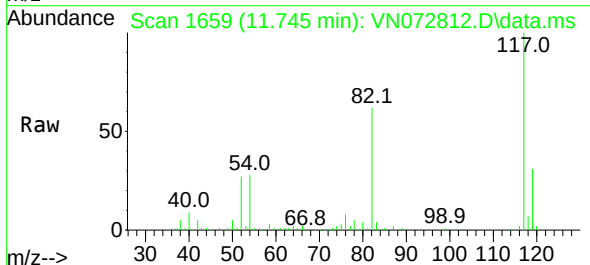
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

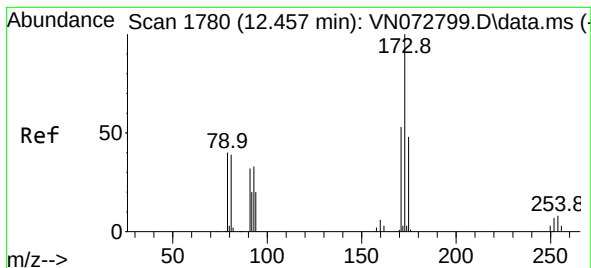
Tgt Ion: 95 Resp: 205294
Ion Ratio Lower Upper
95 100
174 61.8 0.0 167.6
176 58.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 117 Resp: 301228
Ion Ratio Lower Upper
117 100
82 61.6 44.2 66.2
119 30.9 25.4 38.0





#71

Bromoform

Concen: 0.370 ug/l

RT: 12.721 min Scan# 1825

Delta R.T. 0.264 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#03

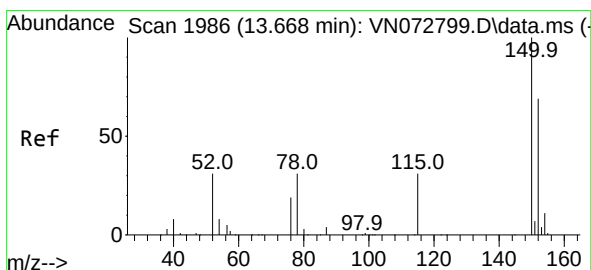
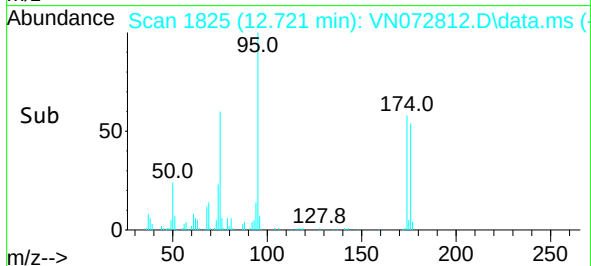
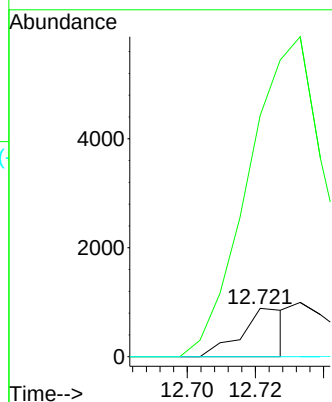
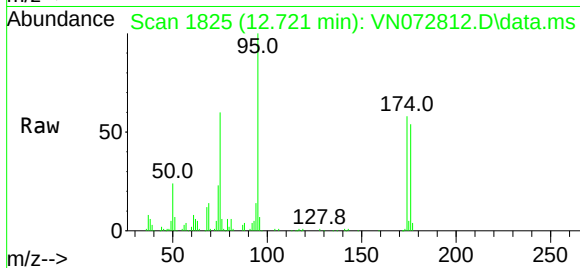
Tgt Ion:173 Resp: 815

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.674 min Scan# 1987

Delta R.T. 0.006 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

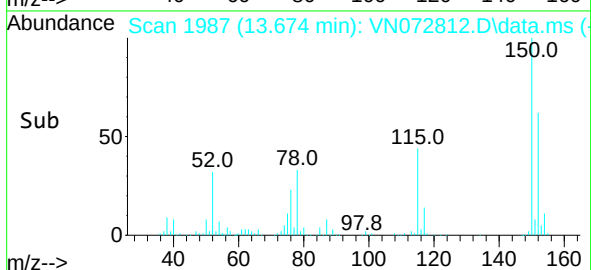
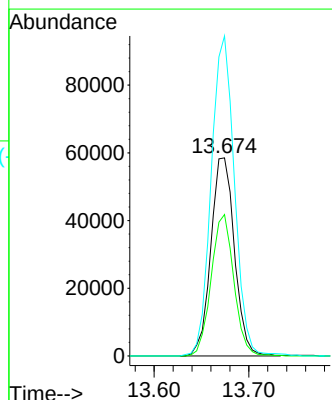
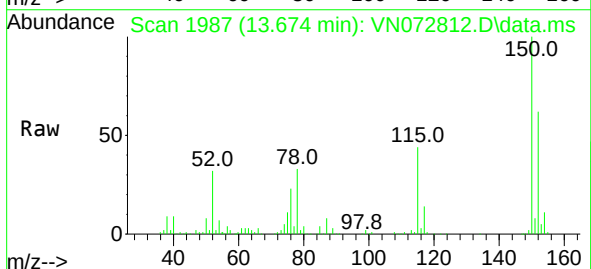
Tgt Ion:152 Resp: 101485

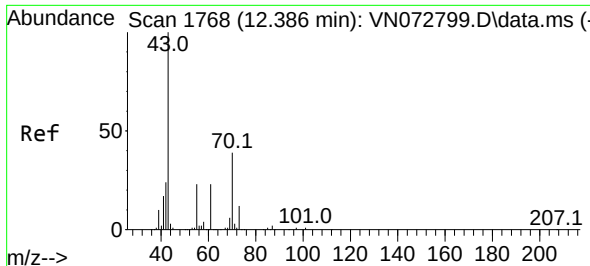
Ion Ratio Lower Upper

152 100

115 68.4 28.9 86.7

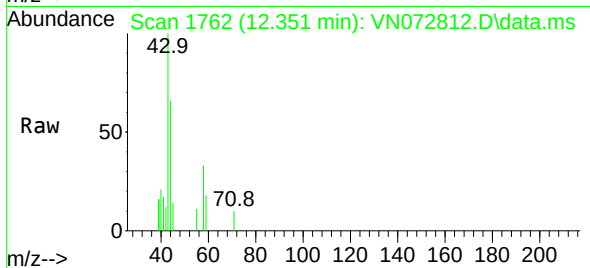
150 158.9 0.0 356.2



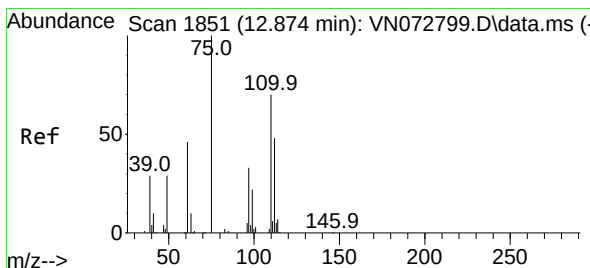
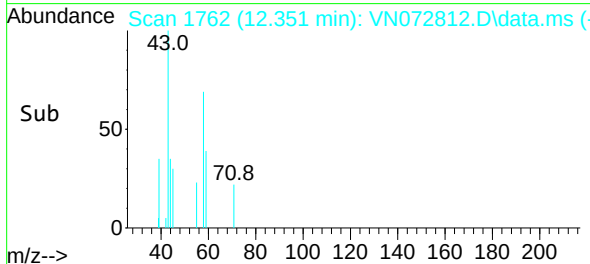
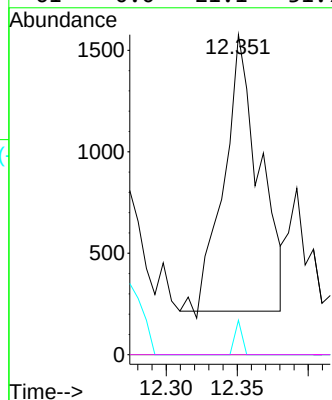


#74
N-amy1 acetate
Concen: 0.480 ug/l
RT: 12.351 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03

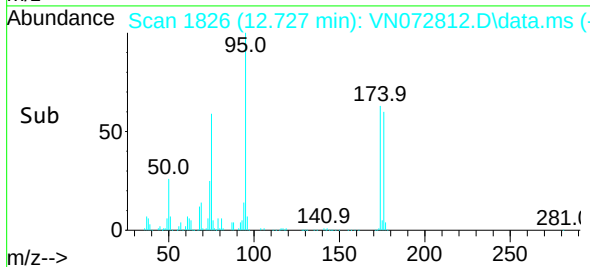
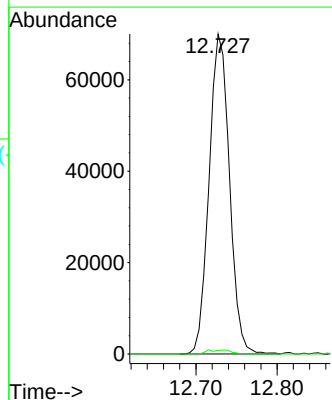
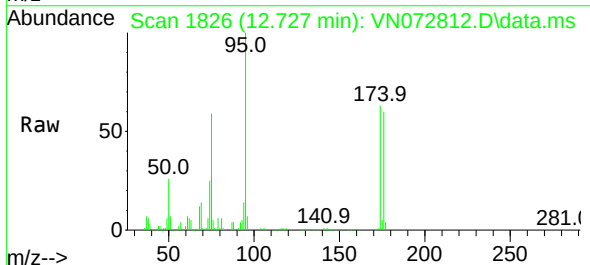


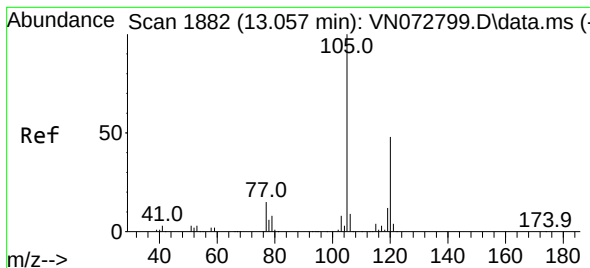
Tgt Ion: 43 Resp: 2382
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 2.5 21.1 31.7#
61 0.0 21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 35.022 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Tgt Ion: 75 Resp: 121984
Ion Ratio Lower Upper
75 100
77 1.4 98.5 295.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.241 ug/l

RT: 13.057 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

Instrument :

MSVOA_N

ClientSampleId :

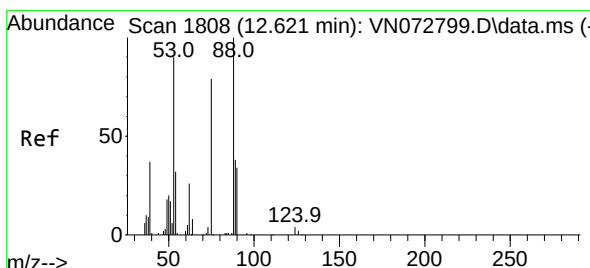
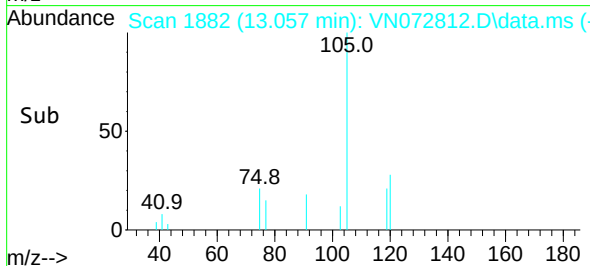
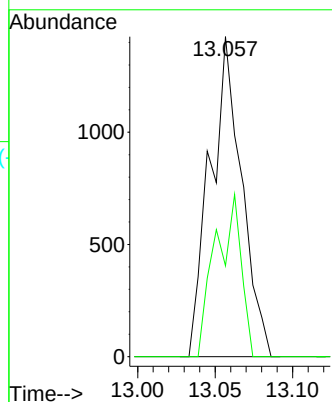
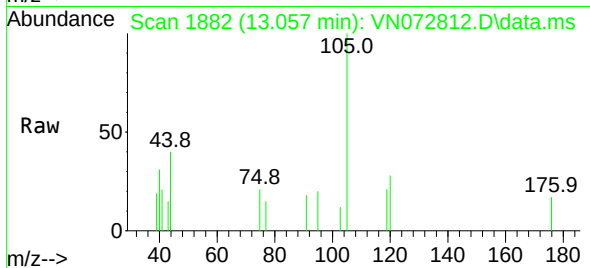
PB145459ZHE#03

Tgt Ion:105 Resp: 2014

Ion Ratio Lower Upper

105 100

120 41.3 24.9 74.7



#81

trans-1,4-Dichloro-2-butene

Concen: 106.741 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.106 min

Lab File: VN072812.D

Acq: 13 Jun 2022 22:33

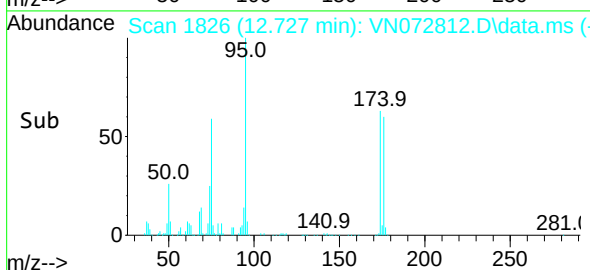
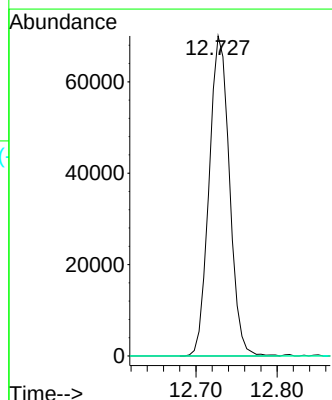
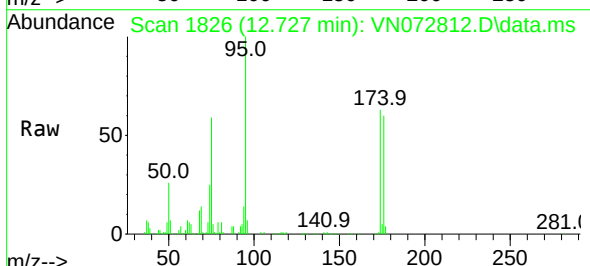
Tgt Ion: 75 Resp: 121984

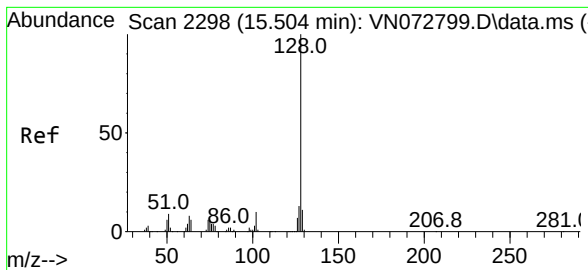
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

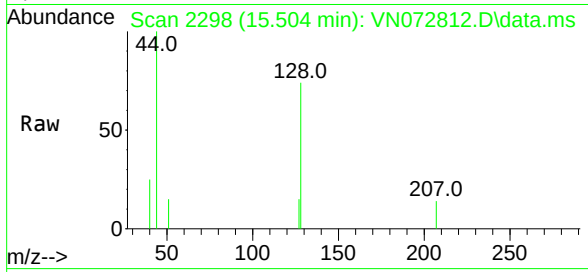
89 0.0 37.2 55.8#





#95
Naphthalene
Concen: 0.251 ug/l
RT: 15.504 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN072812.D
Acq: 13 Jun 2022 22:33

Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#03



Tgt Ion:	128	Resp:	1585
Ion	Ratio	Lower	Upper
128	100		
127	8.1	10.3	15.5#
129	0.0	8.6	13.0#

