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 Data File : VN072811.D
 Acq On : 13 Jun 2022 22:09
 Operator : JC\MD
 Sample : PB145459ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

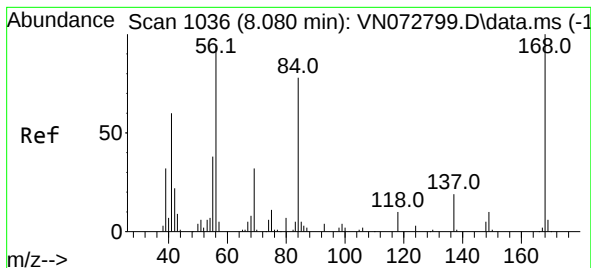
Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#02

Quant Time: Jun 14 05:22:48 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	8.081	168	159281	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	323124	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	302825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	105139	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	237798	53.322	ug/l	0.00
Spiked Amount 50.000	Range 61	- 141	Recovery	=	106.640%	
35) Dibromofluoromethane	8.022	113	163230	50.723	ug/l	0.00
Spiked Amount 50.000	Range 69	- 133	Recovery	=	101.440%	
50) Toluene-d8	10.439	98	576023	44.570	ug/l	0.00
Spiked Amount 50.000	Range 65	- 126	Recovery	=	89.140%	
62) 4-Bromofluorobenzene	12.727	95	204062	44.681	ug/l	0.00
Spiked Amount 50.000	Range 58	- 135	Recovery	=	89.360%	
Target Compounds						
						Qvalue
3) Chloromethane	2.287	50	636	Below Cal		98
5) Bromomethane	2.863	94	549	0.478 ug/l	#	2
6) Chloroethane	2.969	64	503	Below Cal	#	42
16) Acetone	4.287	43	51973	25.663 ug/l		90
17) Carbon Disulfide	4.522	76	266	Below Cal	#	75
18) Methyl Acetate	4.857	43	6453	1.212 ug/l	#	85
20) Methylene Chloride	5.092	84	9476	2.076 ug/l		97
25) 2-Butanone	7.339	43	20918	6.585 ug/l	#	83
26) 2,2-Dichloropropane	7.304	77	1300	0.249 ug/l	#	53
29) Tetrahydrofuran	7.704	42	985	0.501 ug/l	#	40
31) Cyclohexane	8.081	56	5592	Below Cal	#	65
36) 1,1-Dichloropropene	8.081	75	17229	3.842 ug/l	#	48
37) Ethyl Acetate	7.339	43	20918	3.053 ug/l	#	67
38) Carbon Tetrachloride	8.086	117	19044	4.052 ug/l	#	17
43) Isopropyl Acetate	8.557	43	61424	5.791 ug/l	#	75
45) 1,2-Dichloropropane	9.622	63	3030	0.811 ug/l	#	44
48) Methyl methacrylate	9.539	41	13140	2.670 ug/l	#	10
49) 1,4-Dioxane	9.616	88	175	2.081 ug/l	#	1
51) 4-Methyl-2-Pentanone	10.327	43	7222	1.027 ug/l		89
54) cis-1,3-Dichloropropene	10.245	75	58696	10.003 ug/l	#	71
57) 1,3-Dichloropropane	11.086	76	35775	5.575 ug/l	#	42
59) 2-Hexanone	11.086	43	595653	114.306 ug/l	#	44
74) N-amyl acetate	12.351	43	1316	0.256 ug/l	#	46
76) 1,2,3-Trichloropropane	12.727	75	123221	34.147 ug/l	#	1
80) 1,3,5-Trimethylbenzene	13.051	105	2156	0.249 ug/l		95
81) trans-1,4-Dichloro-2-b...	12.727	75	123221	104.077 ug/l	#	10
95) Naphthalene	15.509	128	2041	0.312 ug/l	#	73

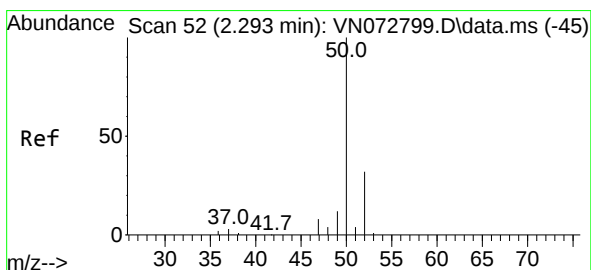
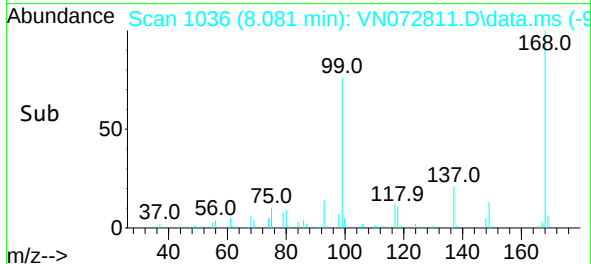
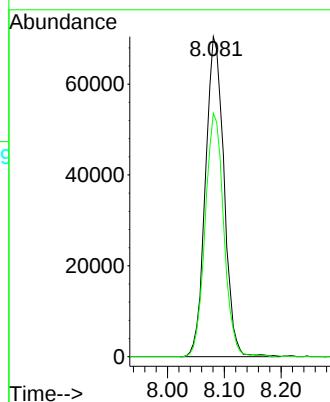
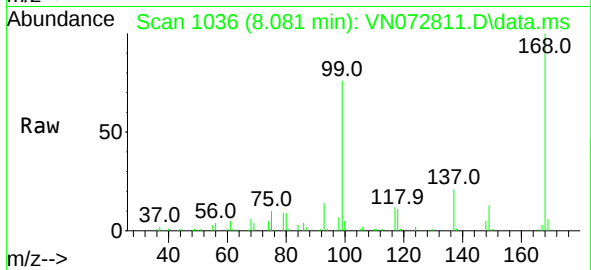
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

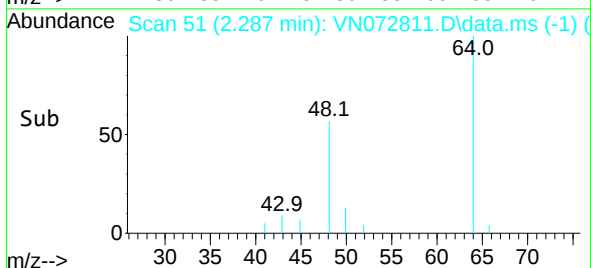
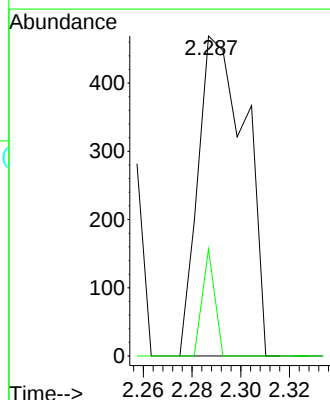
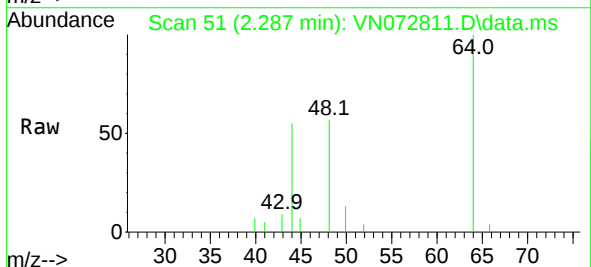
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

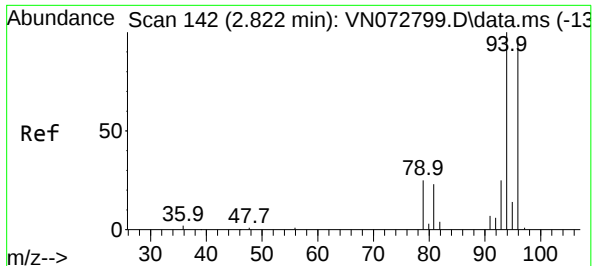
Tgt Ion:168 Resp: 159281
Ion Ratio Lower Upper
168 100
99 76.0 42.3 63.5#



#3
Chloromethane
Concen: Below Cal
RT: 2.287 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 50 Resp: 636
Ion Ratio Lower Upper
50 100
52 33.5 25.7 38.5





#5

Bromomethane

Concen: 0.478 ug/l

RT: 2.863 min Scan# 14

Delta R.T. 0.041 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Instrument :

MSVOA_N

ClientSampleId :

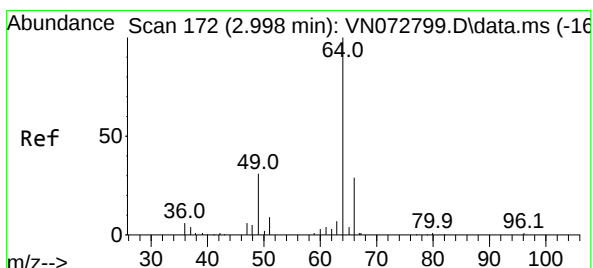
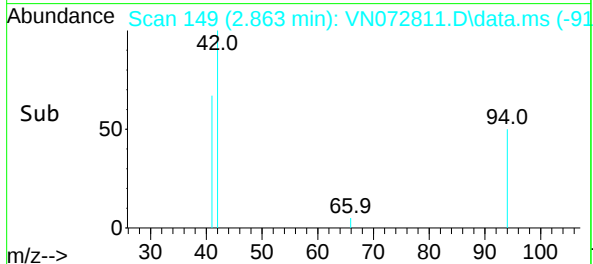
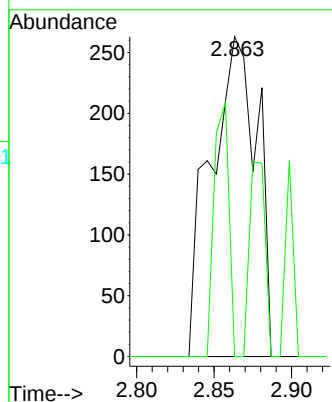
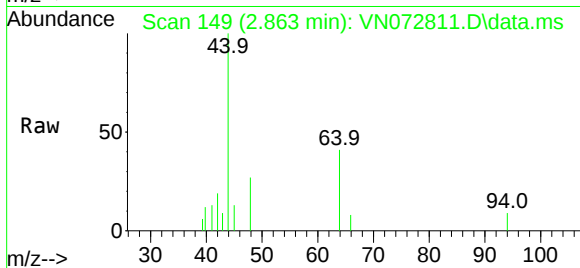
PB145459ZHE#02

Tgt Ion: 94 Resp: 549

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



#6

Chloroethane

Concen: Below Cal

RT: 2.969 min Scan# 167

Delta R.T. -0.029 min

Lab File: VN072811.D

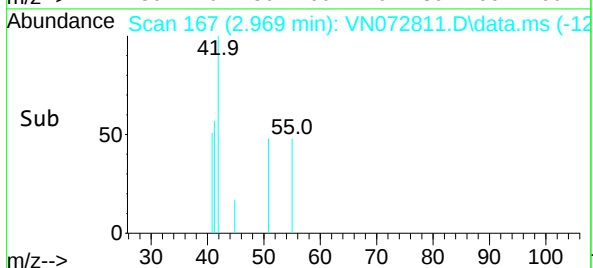
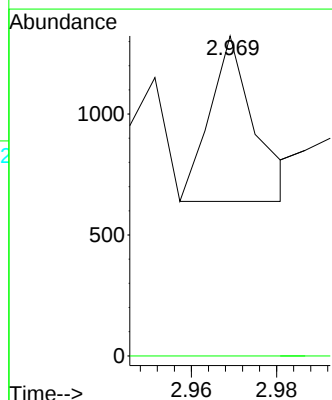
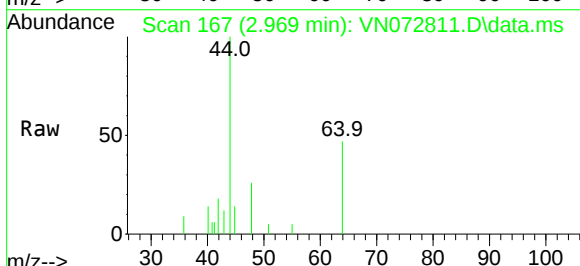
Acq: 13 Jun 2022 22:09

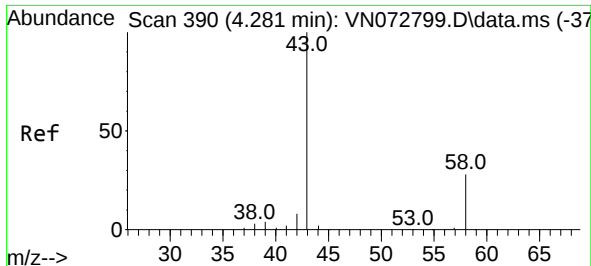
Tgt Ion: 64 Resp: 503

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#





#16

Acetone

Concen: 25.663 ug/l

RT: 4.287 min Scan# 391

Delta R.T. 0.006 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Instrument :

MSVOA_N

ClientSampleId :

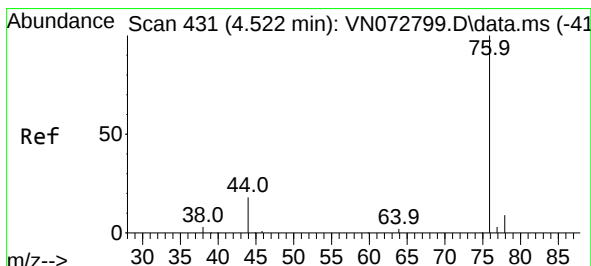
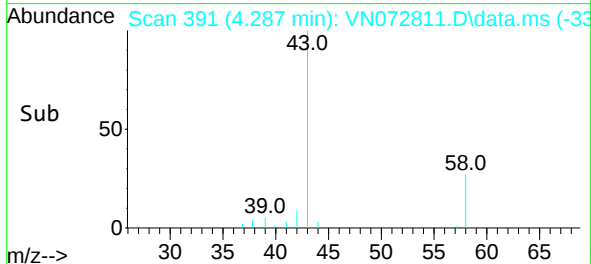
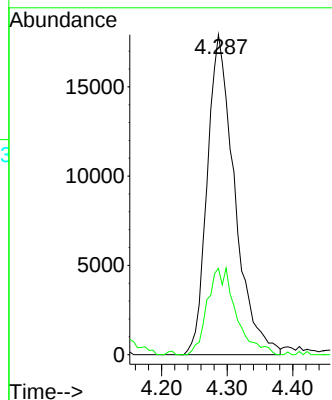
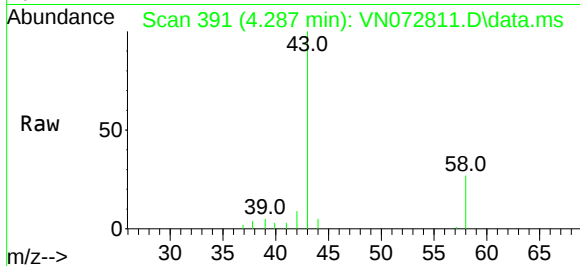
PB145459ZHE#02

Tgt Ion: 43 Resp: 51973

Ion Ratio Lower Upper

43 100

58 26.9 26.0 39.0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.522 min Scan# 431

Delta R.T. -0.000 min

Lab File: VN072811.D

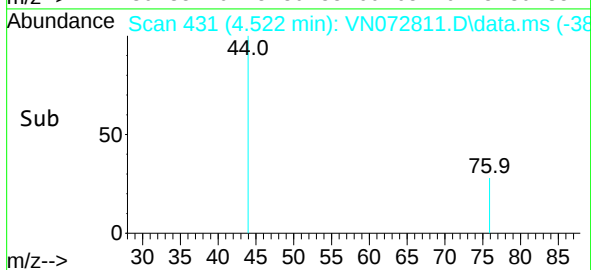
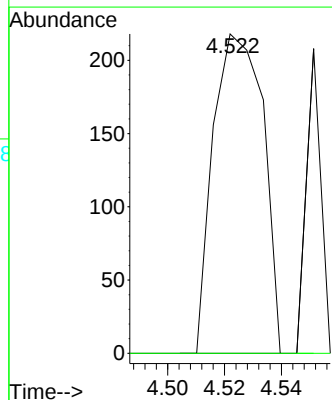
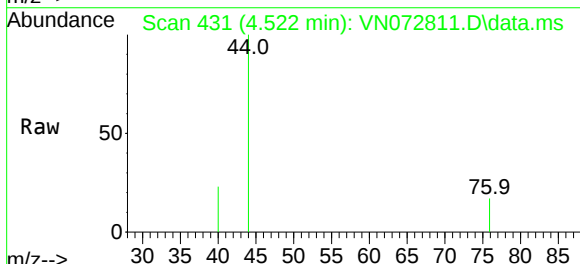
Acq: 13 Jun 2022 22:09

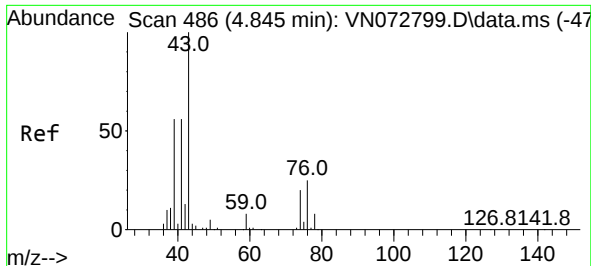
Tgt Ion: 76 Resp: 266

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

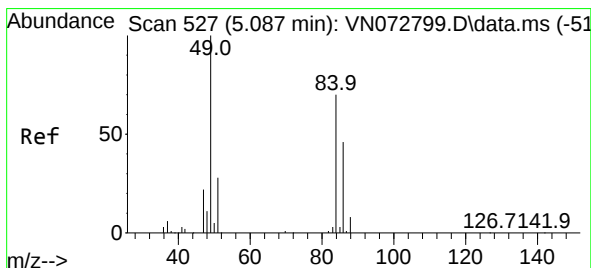
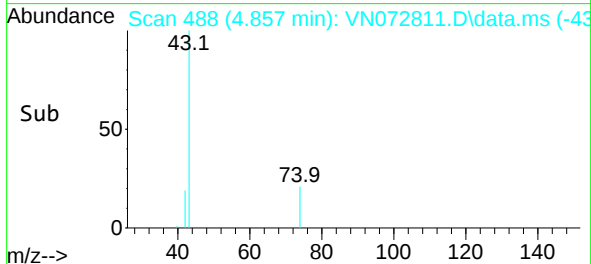
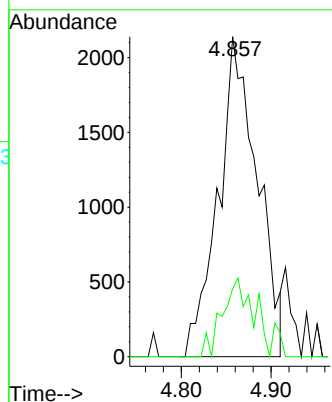
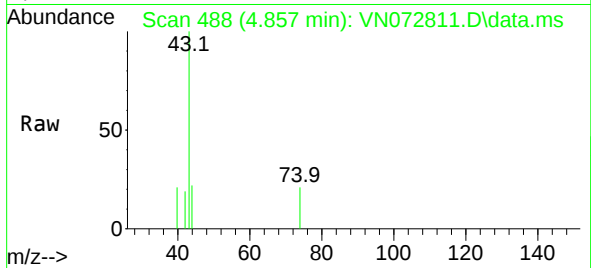




#18
Methyl Acetate
Concen: 1.212 ug/l
RT: 4.857 min Scan# 488
Delta R.T. 0.012 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

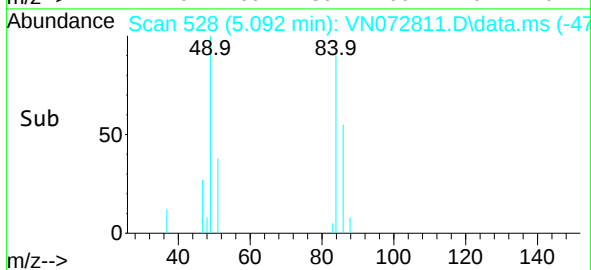
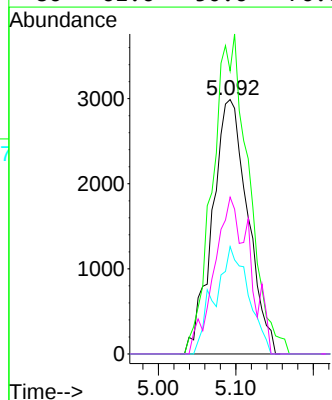
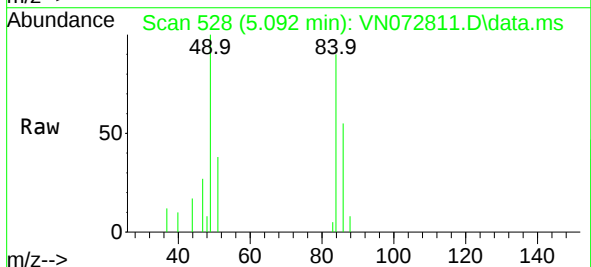
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

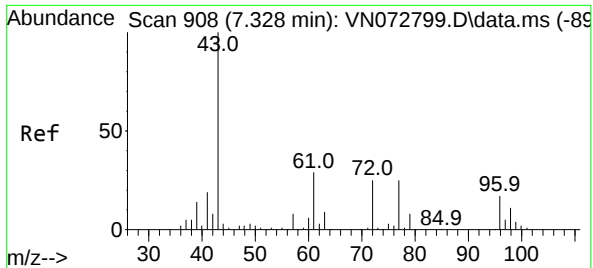
Tgt Ion: 43 Resp: 6453
Ion Ratio Lower Upper
43 100
74 19.4 21.6 32.4#



#20
Methylene Chloride
Concen: 2.076 ug/l
RT: 5.092 min Scan# 528
Delta R.T. 0.005 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 84 Resp: 9476
Ion Ratio Lower Upper
84 100
49 111.2 88.3 132.5
51 42.2 28.2 42.2
86 61.6 50.6 76.0

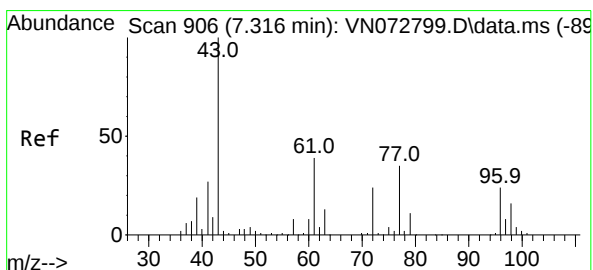
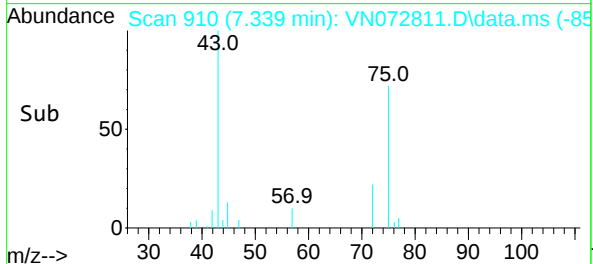
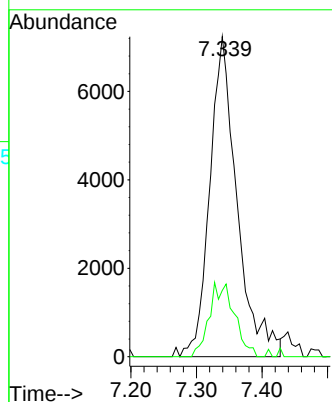
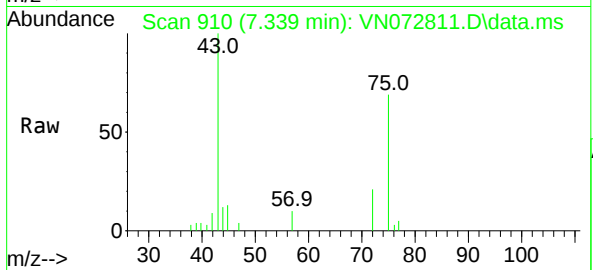




#25
2-Butanone
Concen: 6.585 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.011 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

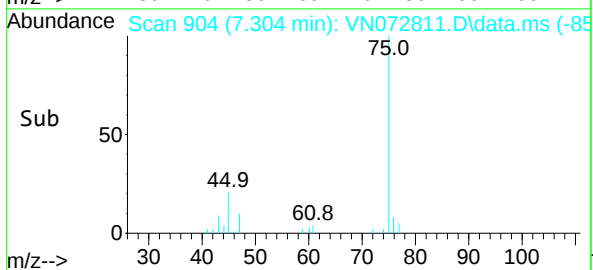
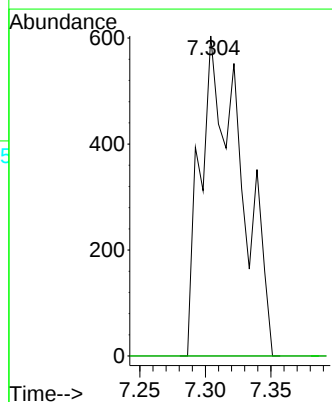
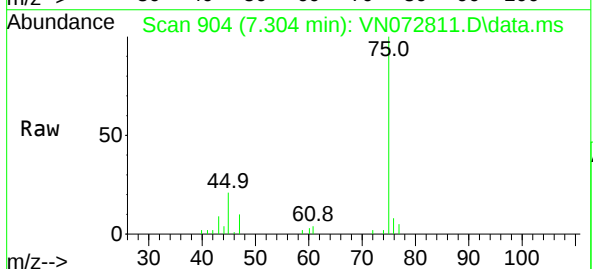
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MSVOA_N
ClientSampleId :
PB145459ZHE#02

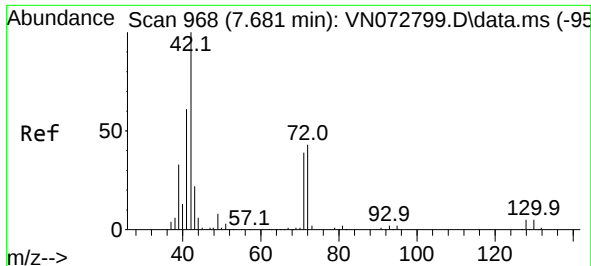
Tgt Ion: 43 Resp: 20918
Ion Ratio Lower Upper
43 100
72 20.7 23.7 35.5#



#26
2,2-Dichloropropane
Concen: 0.249 ug/l
RT: 7.304 min Scan# 904
Delta R.T. -0.012 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 77 Resp: 1300
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#





#29

Tetrahydrofuran

Concen: 0.501 ug/l

RT: 7.704 min Scan# 91

Delta R.T. 0.023 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#02

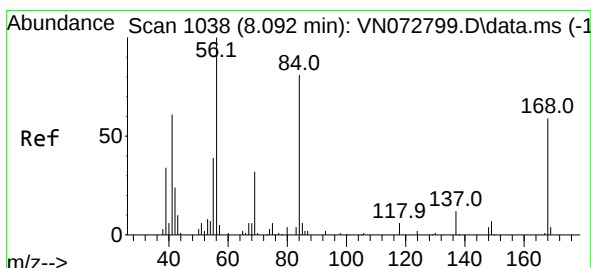
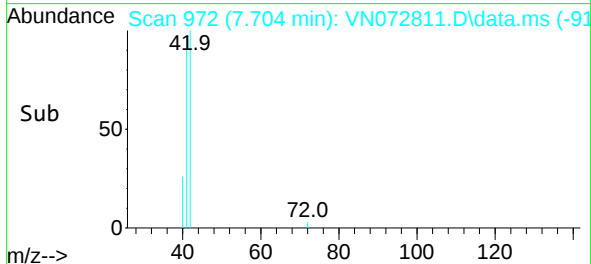
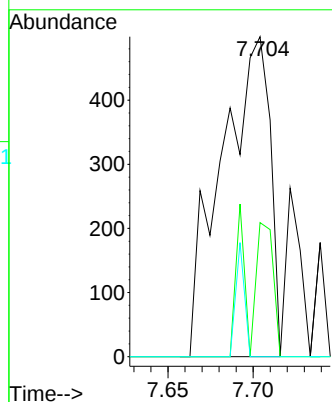
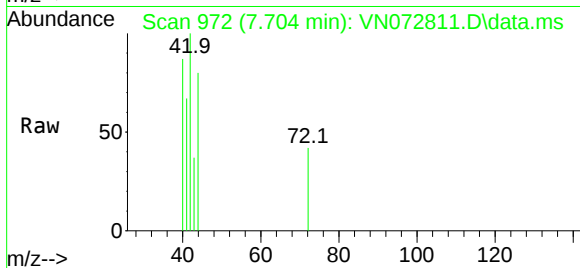
Tgt Ion: 42 Resp: 985

Ion Ratio Lower Upper

42 100

72 14.6 39.7 59.5#

71 0.0 36.6 55.0#



#31

Cyclohexane

Concen: Below Cal

RT: 8.081 min Scan# 1036

Delta R.T. -0.011 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

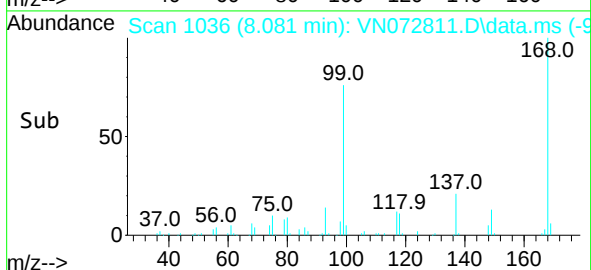
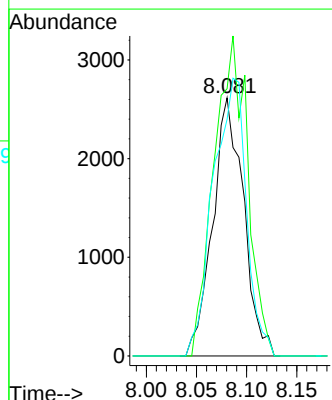
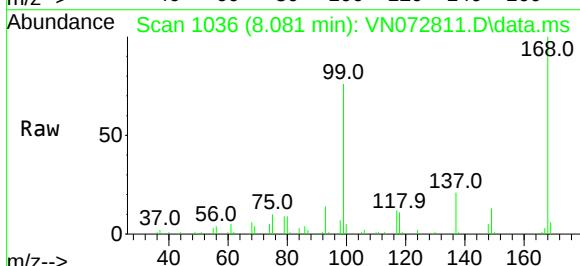
Tgt Ion: 56 Resp: 5592

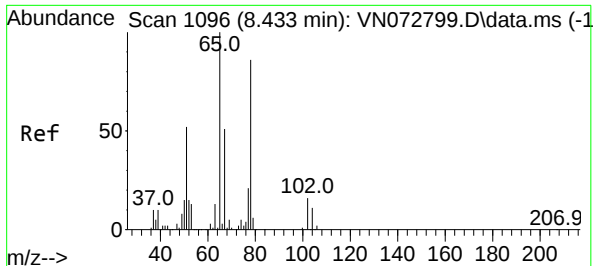
Ion Ratio Lower Upper

56 100

69 103.5 27.8 41.8#

84 91.7 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 53.322 ug/l

RT: 8.433 min Scan# 1096

Delta R.T. 0.000 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

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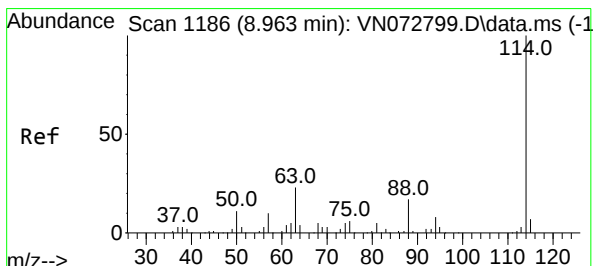
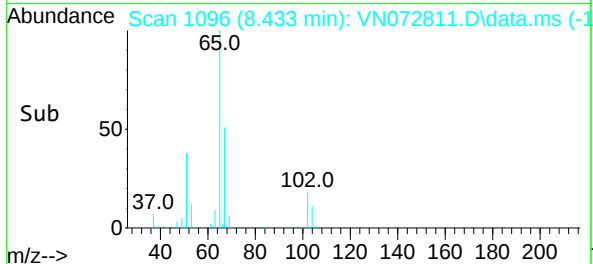
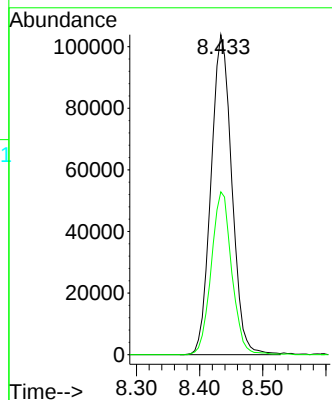
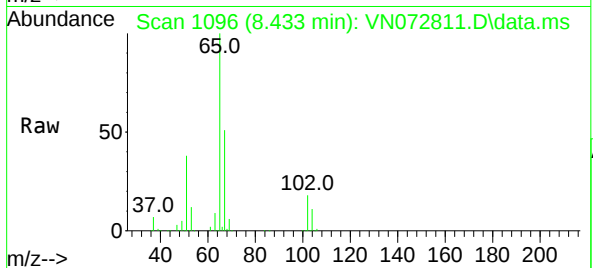
PB145459ZHE#02

Tgt Ion: 65 Resp: 237798

Ion Ratio Lower Upper

65 100

67 50.2 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: VN072811.D

Acq: 13 Jun 2022 22:09

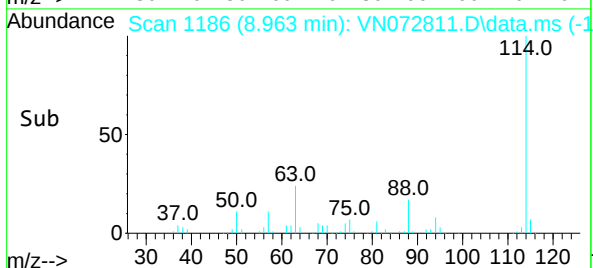
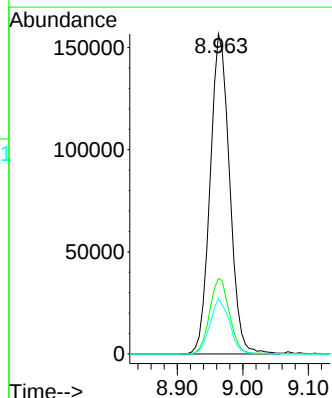
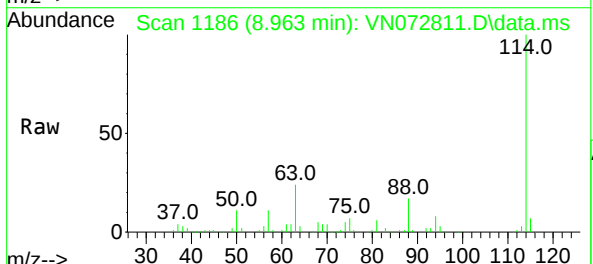
Tgt Ion: 114 Resp: 323124

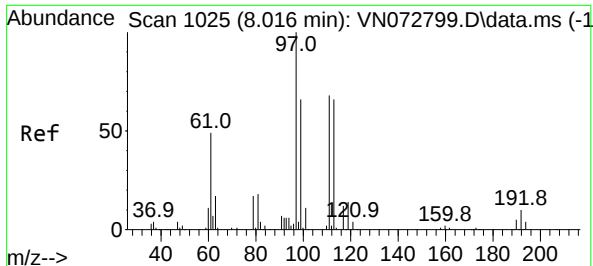
Ion Ratio Lower Upper

114 100

63 23.6 0.0 40.0

88 17.3 0.0 32.6





#35

Dibromofluoromethane

Concen: 50.723 ug/l

RT: 8.022 min Scan# 1036

Delta R.T. 0.006 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#02

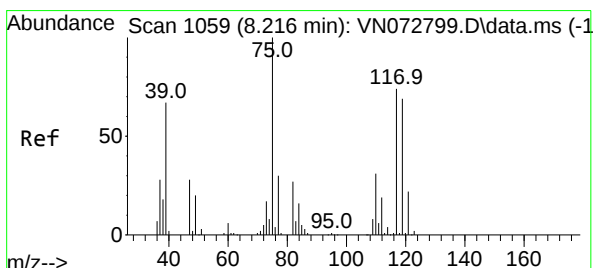
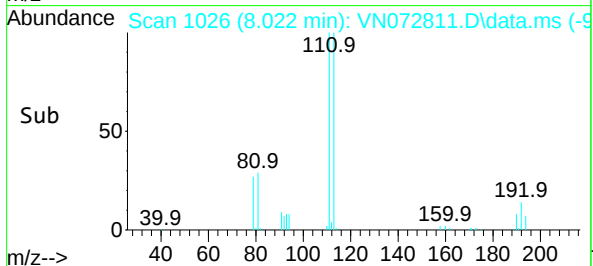
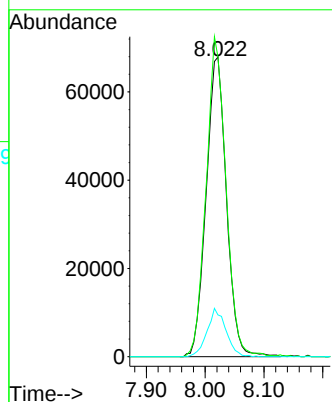
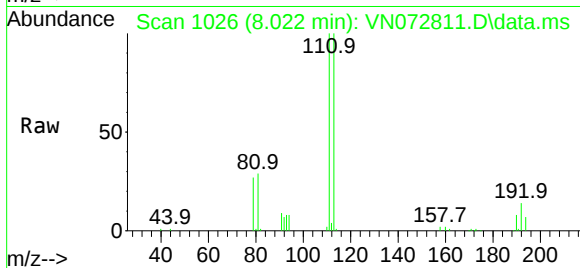
Tgt Ion:113 Resp: 163230

Ion Ratio Lower Upper

113 100

111 104.0 81.4 122.0

192 15.0 17.0 25.6#



#36

1,1-Dichloropropene

Concen: 3.842 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

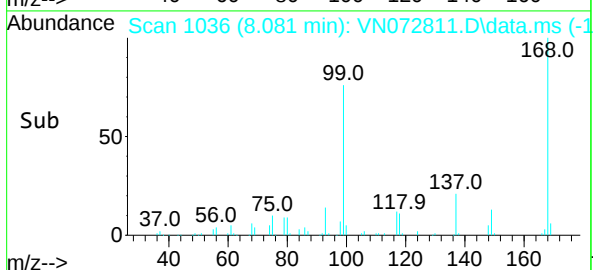
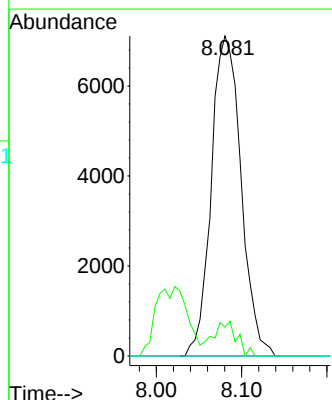
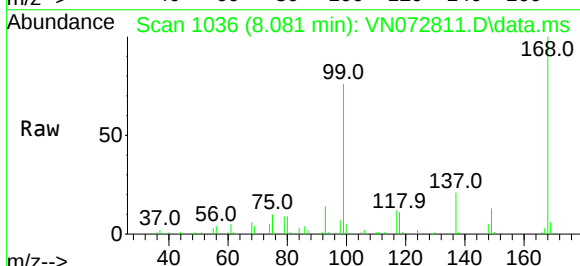
Tgt Ion: 75 Resp: 17229

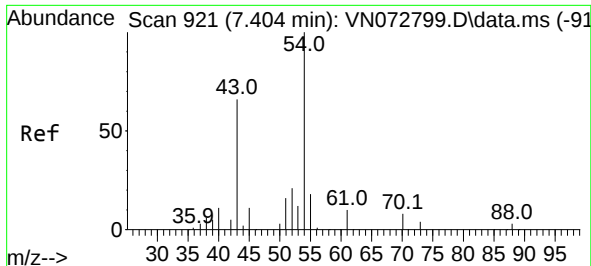
Ion Ratio Lower Upper

75 100

110 8.1 18.3 54.8#

77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 3.053 ug/l

RT: 7.339 min Scan# 91

Delta R.T. -0.065 min

Lab File: VN072811.D

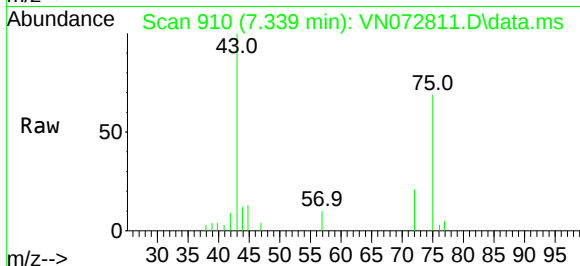
Acq: 13 Jun 2022 22:09

Instrument :

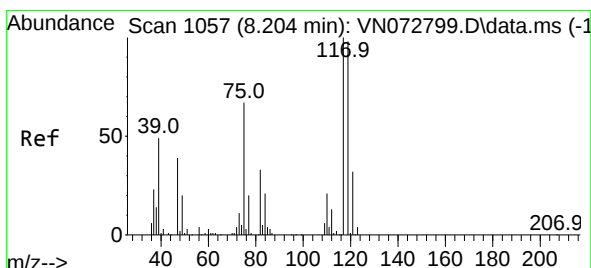
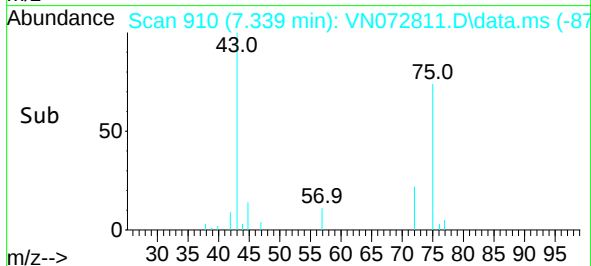
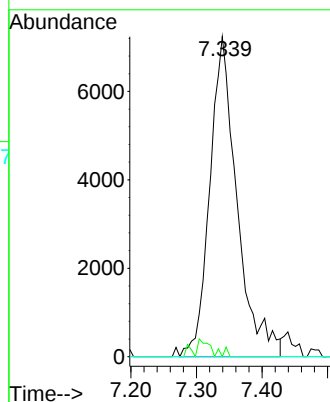
MSVOA_N

ClientSampleId :

PB145459ZHE#02



Tgt Ion:	43	Resp:	20918
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.8	17.6#
70	0.0	9.3	13.9#



#38

Carbon Tetrachloride

Concen: 4.052 ug/l

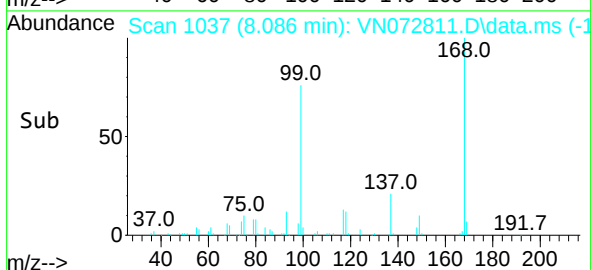
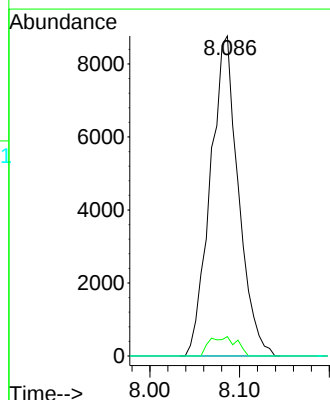
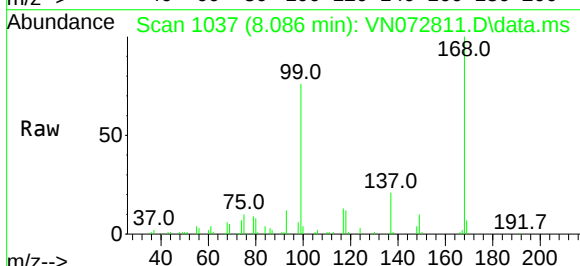
RT: 8.086 min Scan# 1037

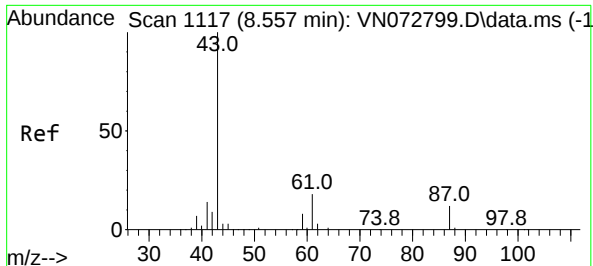
Delta R.T. -0.118 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Tgt Ion:	117	Resp:	19044
Ion	Ratio	Lower	Upper
117	100		
119	6.1	75.8	113.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 5.791 ug/l

RT: 8.557 min Scan# 1117

Delta R.T. -0.000 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

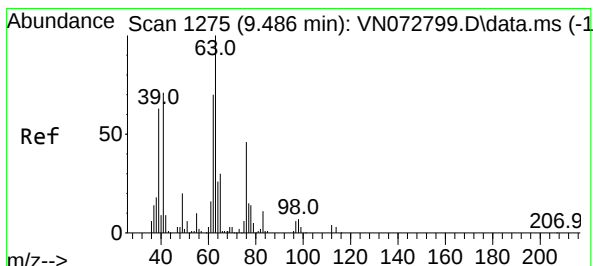
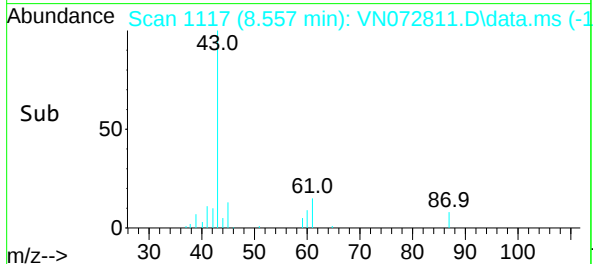
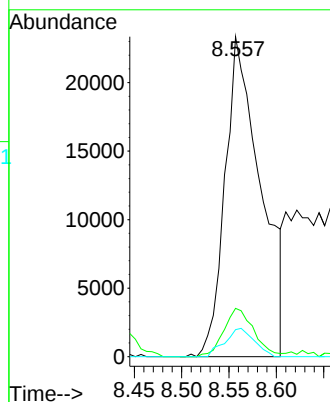
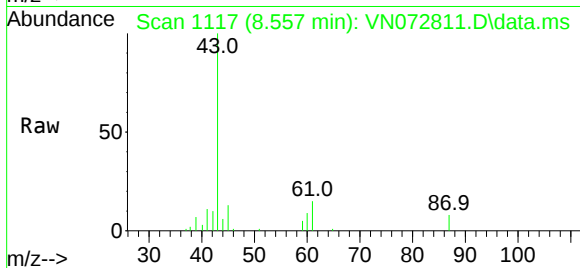
Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#02

Tgt Ion:	43	Resp:	61424
Ion	Ratio	Lower	Upper
43	100		
61	12.6	21.9	32.9#
87	7.2	12.0	18.0#



#45

1,2-Dichloropropane

Concen: 0.811 ug/l

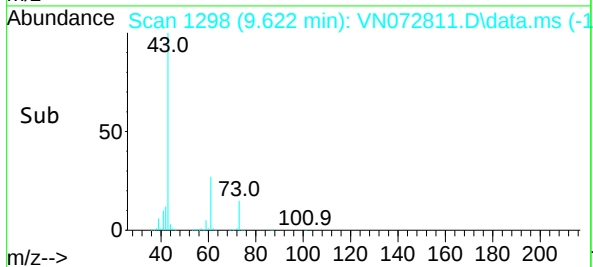
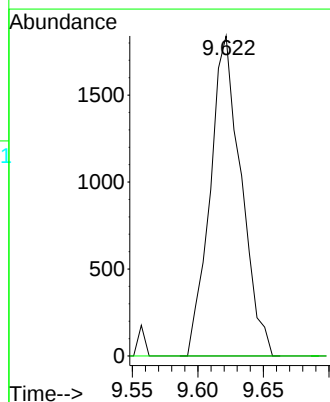
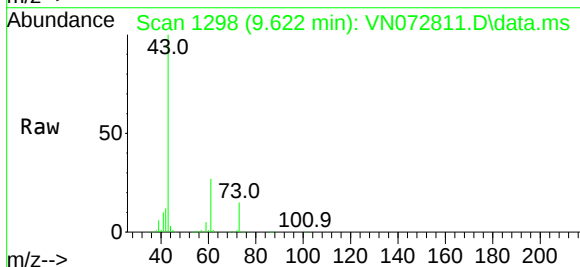
RT: 9.622 min Scan# 1298

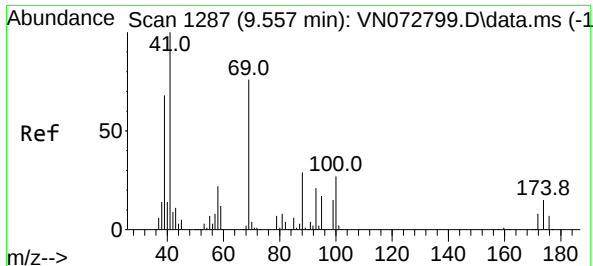
Delta R.T. 0.136 min

Lab File: VN072811.D

Acq: 13 Jun 2022 22:09

Tgt Ion:	63	Resp:	3030
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.9	37.3#

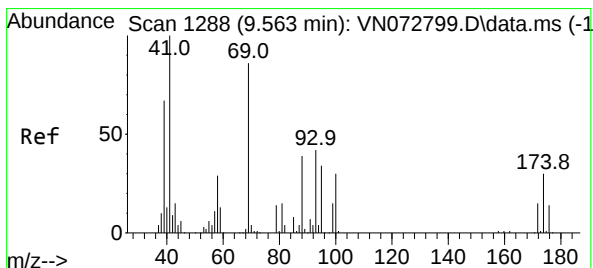
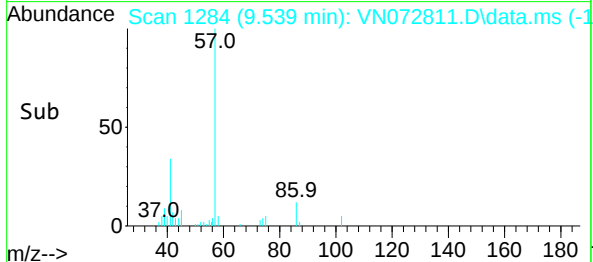
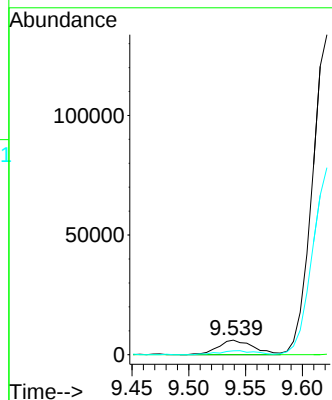
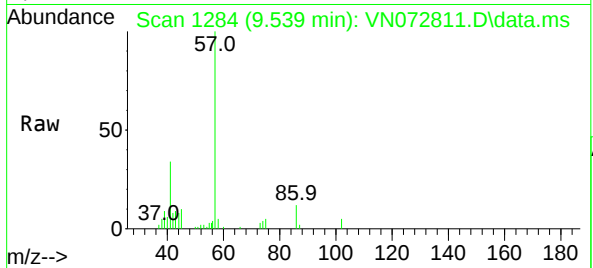




#48
Methyl methacrylate
Concen: 2.670 ug/l
RT: 9.539 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

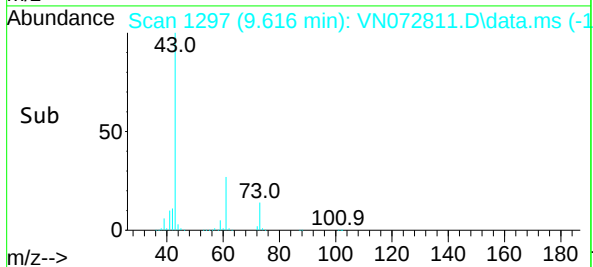
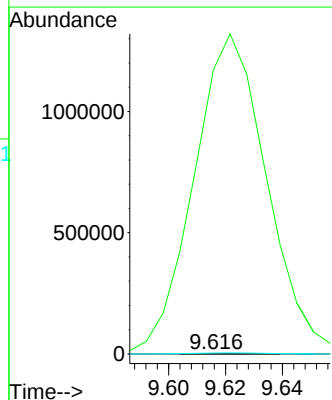
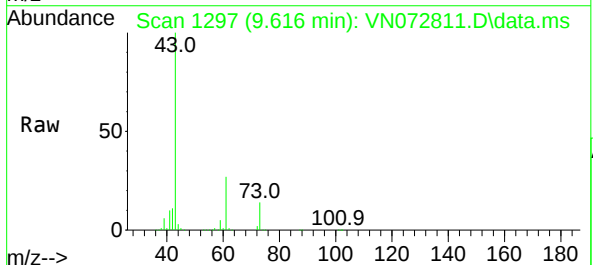
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

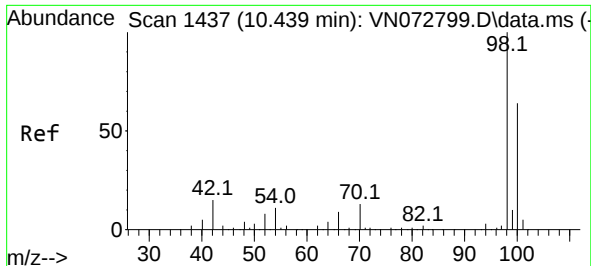
Tgt Ion: 41 Resp: 13140
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 0.0 45.6 68.4#



#49
1,4-Dioxane
Concen: 2.081 ug/l
RT: 9.616 min Scan# 1297
Delta R.T. 0.053 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 1370944.0 20.2 30.4#
58 4974.3 54.2 81.4#

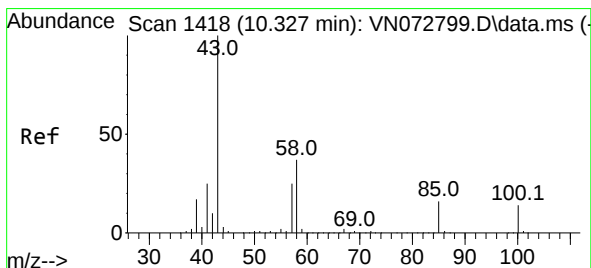
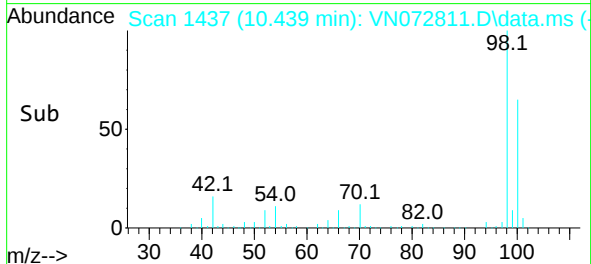
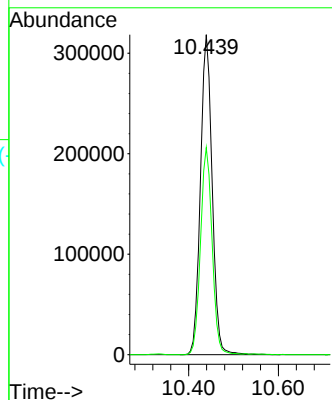
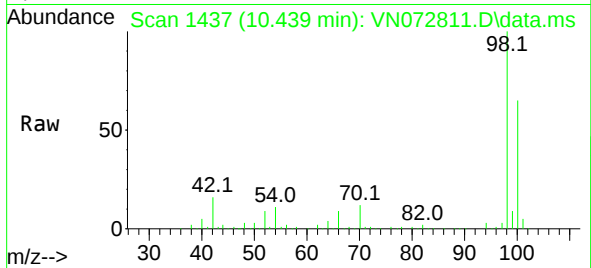




#50
Toluene-d8
Concen: 44.570 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

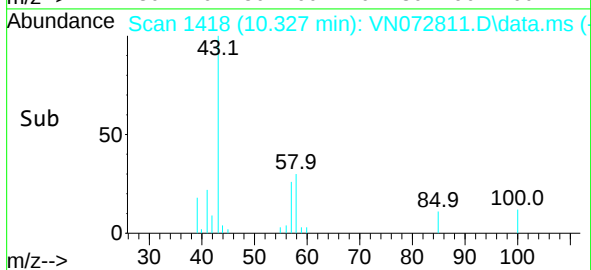
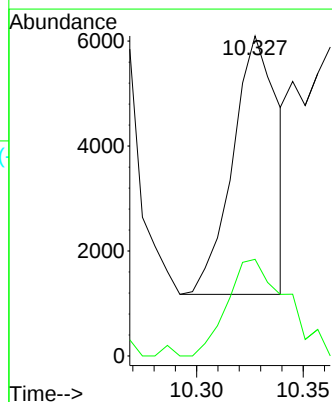
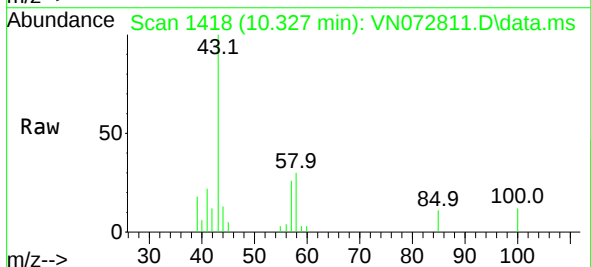
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

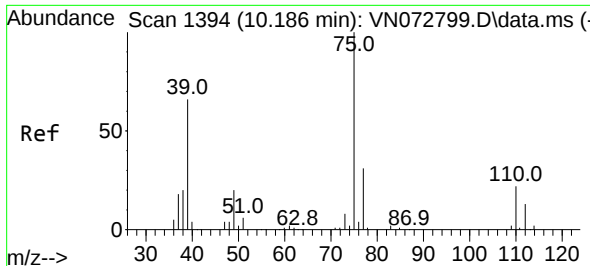
Tgt Ion: 98 Resp: 576023
Ion Ratio Lower Upper
98 100
100 64.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.027 ug/l
RT: 10.327 min Scan# 1418
Delta R.T. 0.000 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 43 Resp: 7222
Ion Ratio Lower Upper
43 100
58 49.5 34.1 51.1

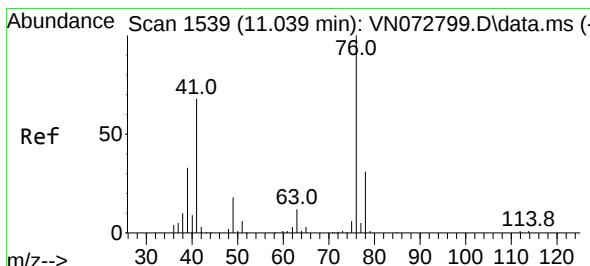
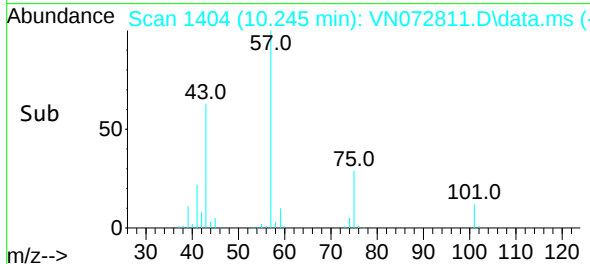
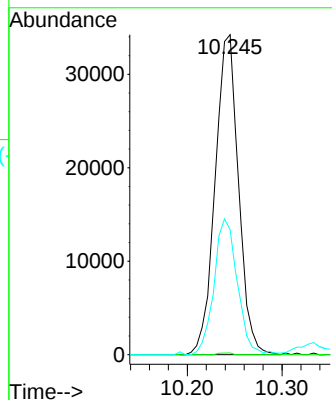
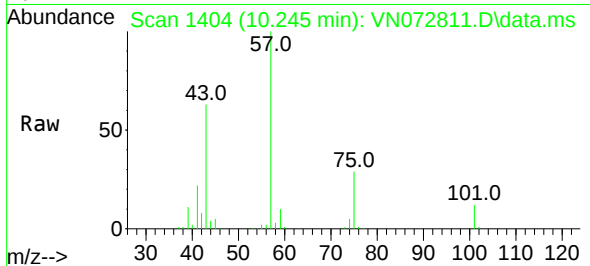




#54
 cis-1,3-Dichloropropene
 Concen: 10.003 ug/l
 RT: 10.245 min Scan# 1404
 Delta R.T. 0.059 min
 Lab File: VN072811.D
 Acq: 13 Jun 2022 22:09

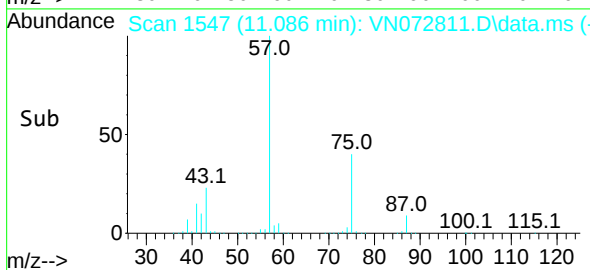
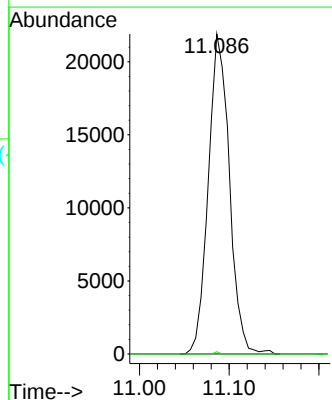
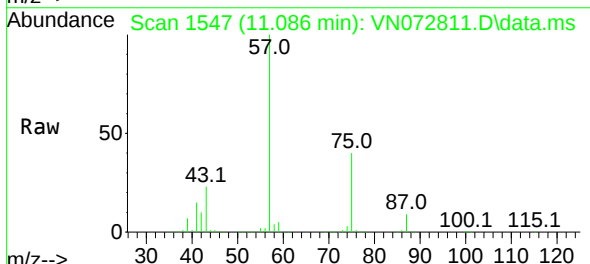
Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#02

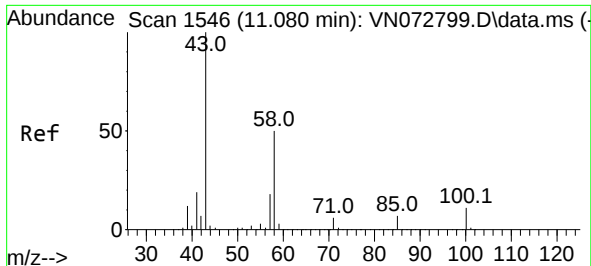
Tgt Ion: 75 Resp: 58696
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 38.5 35.7 53.5



#57
 1,3-Dichloropropane
 Concen: 5.575 ug/l
 RT: 11.086 min Scan# 1547
 Delta R.T. 0.047 min
 Lab File: VN072811.D
 Acq: 13 Jun 2022 22:09

Tgt Ion: 76 Resp: 35775
 Ion Ratio Lower Upper
 76 100
 78 0.2 26.2 39.2#

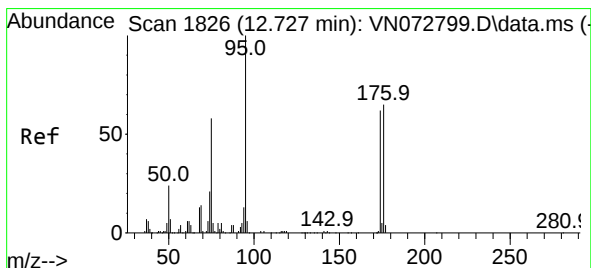
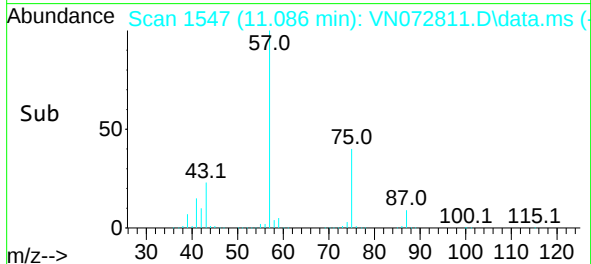
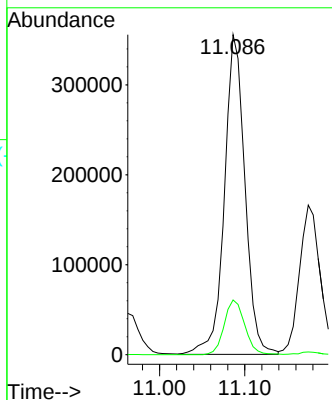
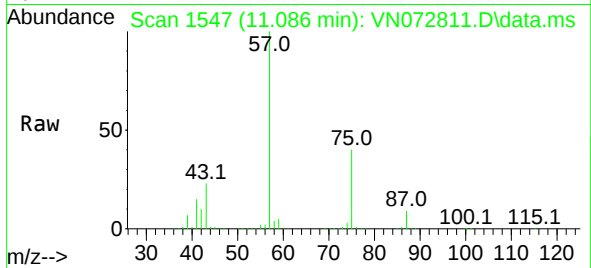




#59
2-Hexanone
Concen: 114.306 ug/l
RT: 11.086 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

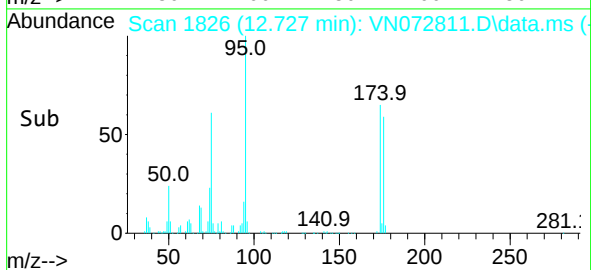
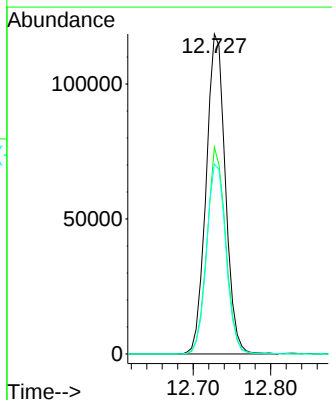
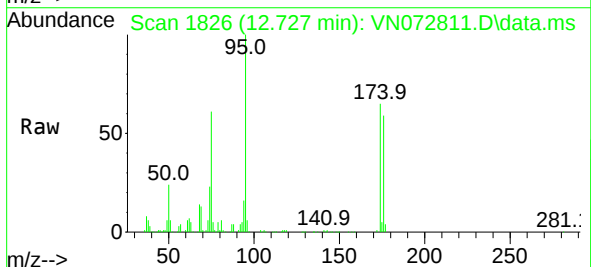
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

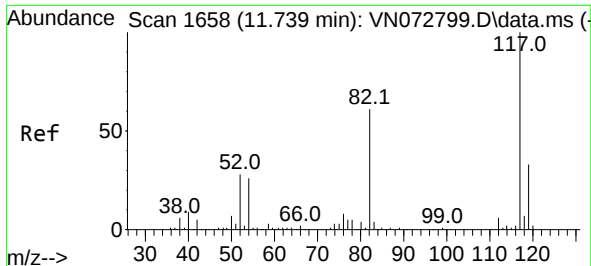
Tgt Ion: 43 Resp: 595653
Ion Ratio Lower Upper
43 100
58 17.2 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 44.681 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 95 Resp: 204062
Ion Ratio Lower Upper
95 100
174 62.7 0.0 167.6
176 60.0 0.0 163.4

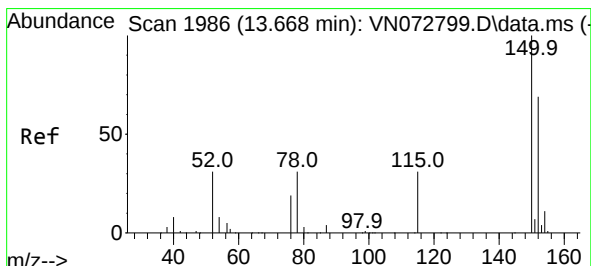
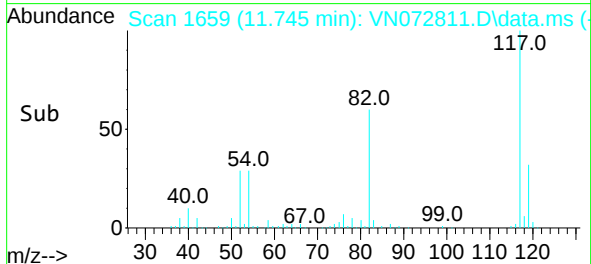
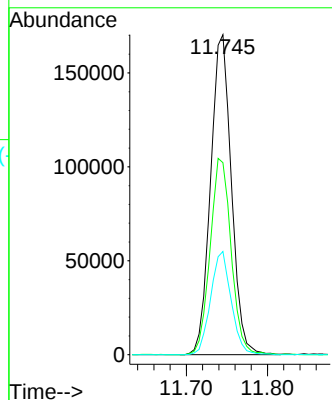
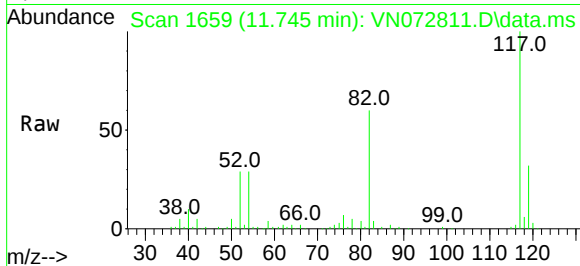




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

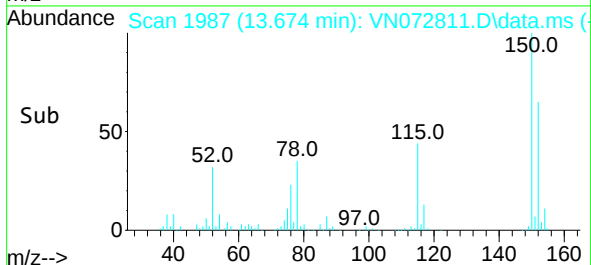
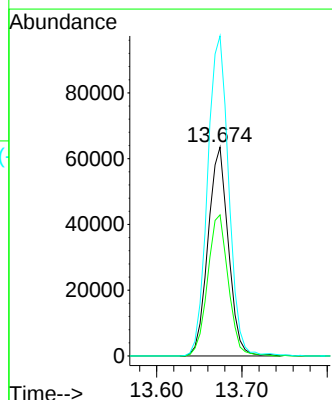
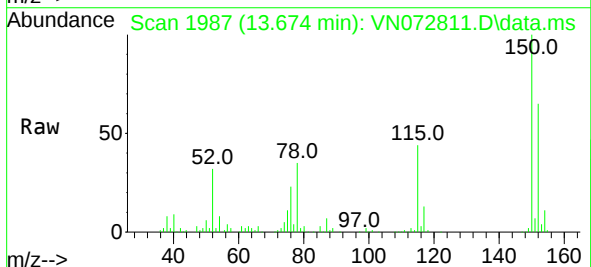
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

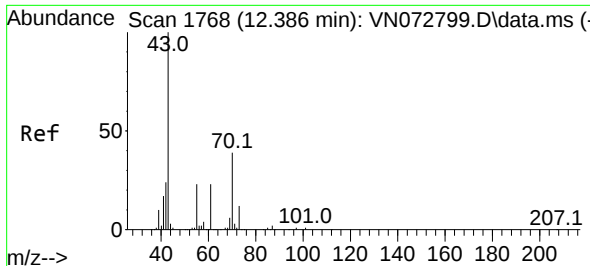
Tgt Ion:117 Resp: 302825
Ion Ratio Lower Upper
117 100
82 60.0 44.2 66.2
119 32.3 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

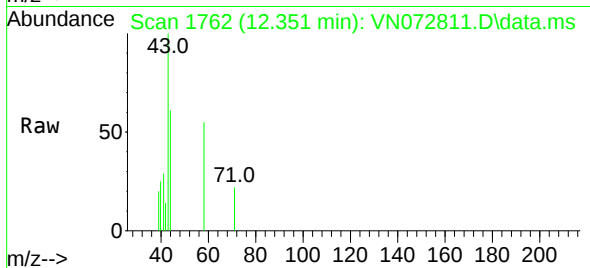
Tgt Ion:152 Resp: 105139
Ion Ratio Lower Upper
152 100
115 68.8 28.9 86.7
150 159.3 0.0 356.2



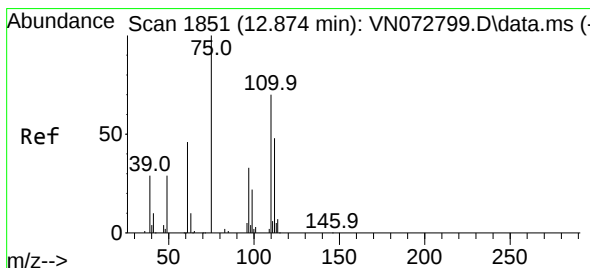
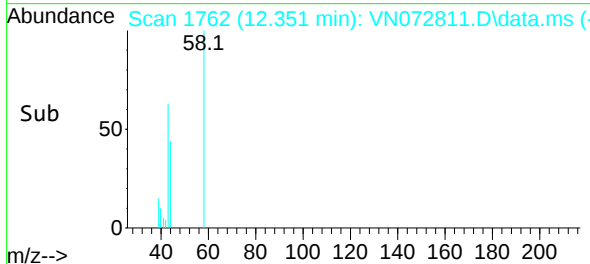
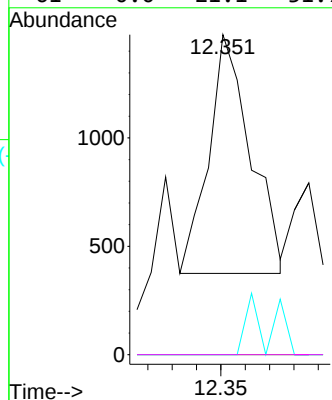


#74
N-amy1 acetate
Concen: 0.256 ug/l
RT: 12.351 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#02

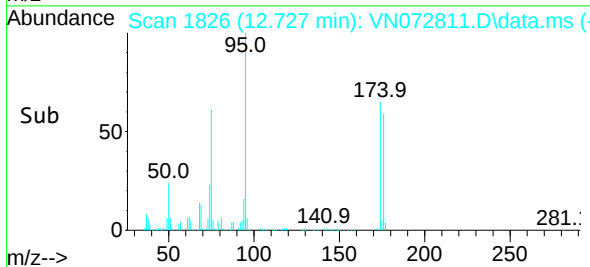
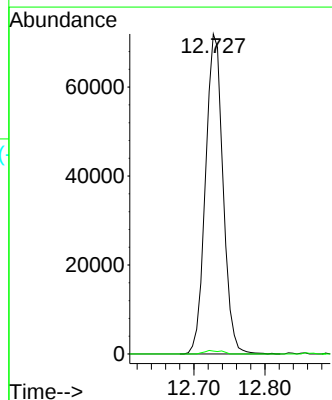
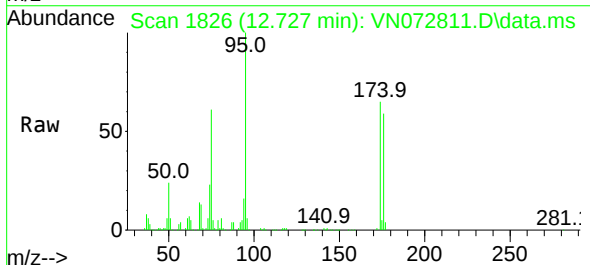


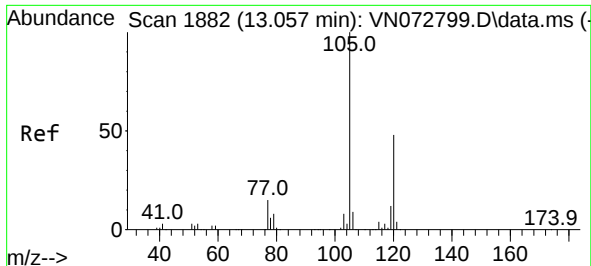
Tgt Ion: 43 Resp: 1316
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 14.5 21.1 31.7#
61 0.0 21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 34.147 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072811.D
Acq: 13 Jun 2022 22:09

Tgt Ion: 75 Resp: 123221
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#

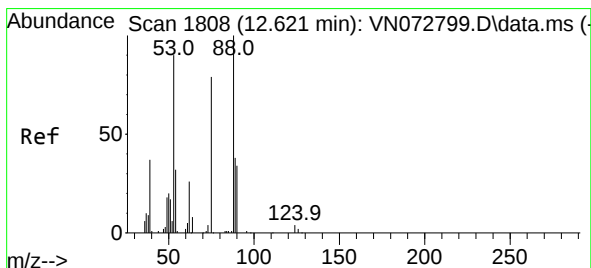
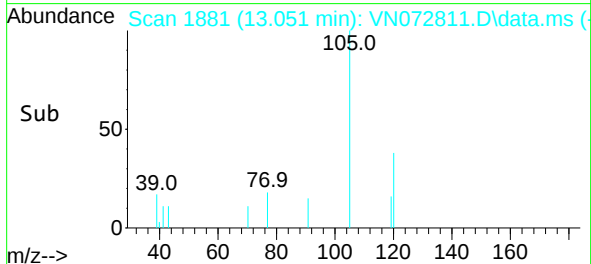
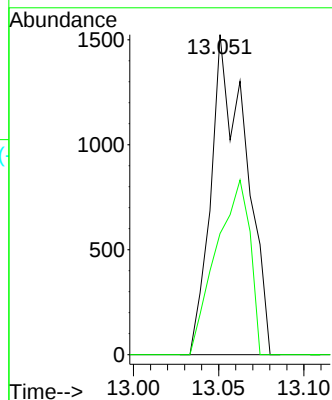
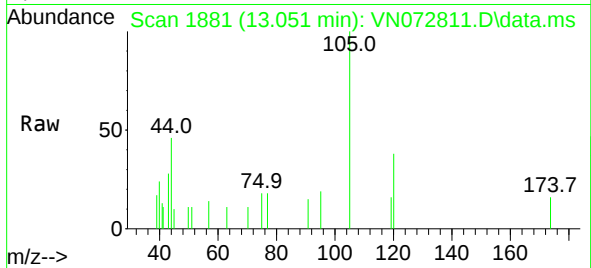




#80
 1,3,5-Trimethylbenzene
 Concen: 0.249 ug/l
 RT: 13.051 min Scan# 1881
 Delta R.T. -0.006 min
 Lab File: VN072811.D
 Acq: 13 Jun 2022 22:09

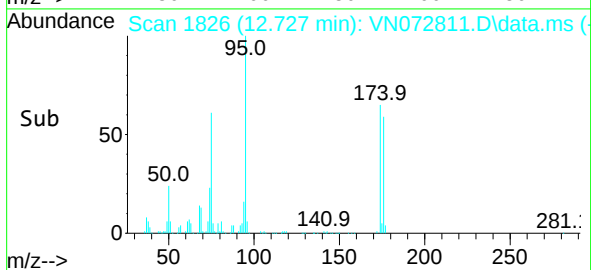
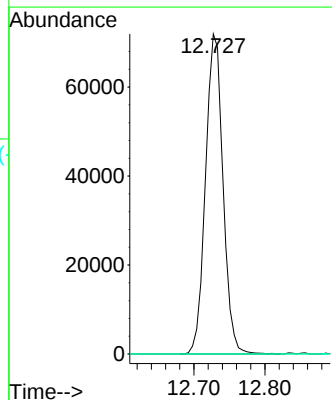
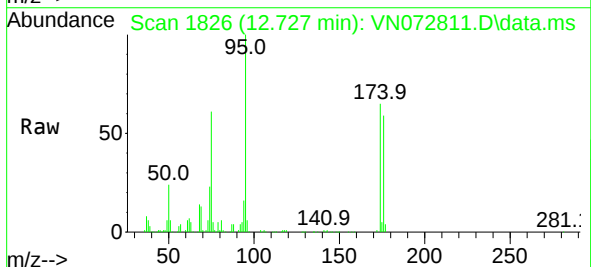
Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#02

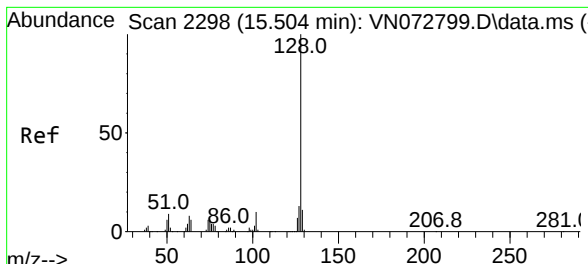
Tgt Ion:105 Resp: 2156
 Ion Ratio Lower Upper
 105 100
 120 53.2 24.9 74.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 104.077 ug/l
 RT: 12.727 min Scan# 1826
 Delta R.T. 0.106 min
 Lab File: VN072811.D
 Acq: 13 Jun 2022 22:09

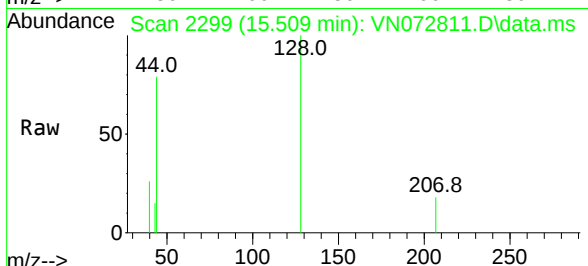
Tgt Ion: 75 Resp: 123221
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 37.2 55.8#





#95
 Naphthalene
 Concen: 0.312 ug/l
 RT: 15.509 min Scan# 21
 Delta R.T. 0.005 min
 Lab File: VN072811.D
 Acq: 13 Jun 2022 22:09

Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#02



Tgt Ion:	128	Resp:	2041
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	3.3	8.6	13.0#

