

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061322\
 Data File : VN072814.D
 Acq On : 13 Jun 2022 23:22
 Operator : JC\MD
 Sample : PB145459ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB145459ZHE#05

Quant Time: Jun 14 05:23:21 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)

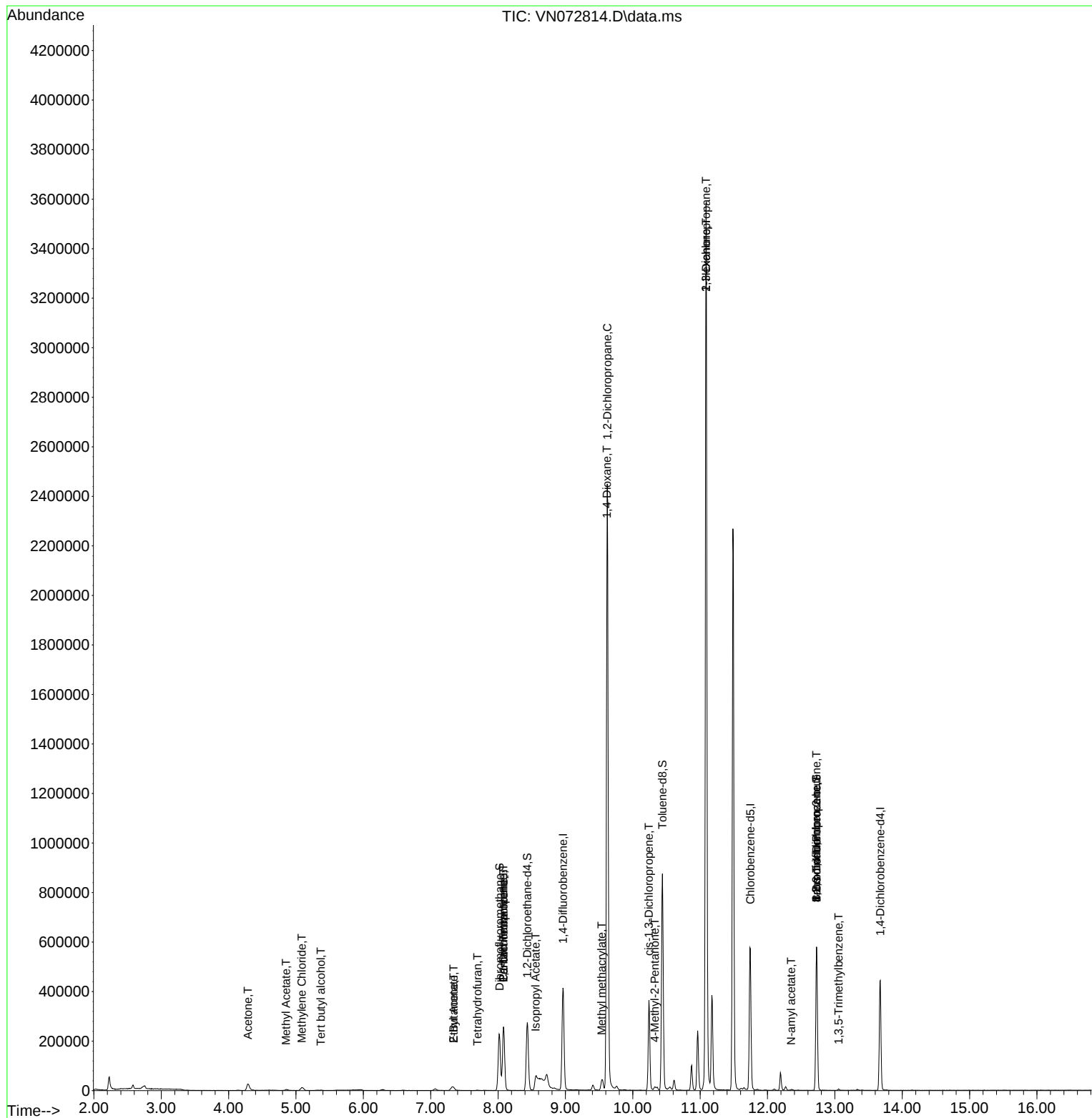
Internal Standards						
1) Pentafluorobenzene	8.081	168	161180	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	330690	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	300290	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	105067	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	235784	52.248	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.500%			
35) Dibromofluoromethane	8.022	113	161217	48.951	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.900%			
50) Toluene-d8	10.439	98	559480	42.300	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 84.600%			
62) 4-Bromofluorobenzene	12.727	95	196079	41.950	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 83.900%			
Target Compounds						
						Qvalue
3) Chloromethane	2.299	50	633	Below Cal	#	88
6) Chloroethane	3.010	64	480	Below Cal	#	42
11) Tert butyl alcohol	5.369	59	2116	0.477	ug/l #	72
16) Acetone	4.287	43	51075	24.922	ug/l	89
17) Carbon Disulfide	4.522	76	62	Below Cal	#	75
18) Methyl Acetate	4.851	43	8275	1.536	ug/l	91
20) Methylene Chloride	5.087	84	9159	1.916	ug/l #	76
25) 2-Butanone	7.339	43	18202	5.663	ug/l #	86
29) Tetrahydrofuran	7.692	42	1318	0.662	ug/l #	46
31) Cyclohexane	8.081	56	5895	Below Cal	#	49
36) 1,1-Dichloropropene	8.081	75	17800	3.879	ug/l #	48
37) Ethyl Acetate	7.339	43	18202	2.596	ug/l #	68
38) Carbon Tetrachloride	8.081	117	19224	3.997	ug/l #	17
43) Isopropyl Acetate	8.557	43	80081	7.378	ug/l #	72
45) 1,2-Dichloropropane	9.622	63	2620	0.685	ug/l #	44
48) Methyl methacrylate	9.539	41	13039	2.589	ug/l #	10
49) 1,4-Dioxane	9.616	88	262	3.044	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	8613	1.196	ug/l	98
54) cis-1,3-Dichloropropene	10.239	75	58304	9.709	ug/l #	76
57) 1,3-Dichloropropane	11.086	76	36275	5.524	ug/l #	42
59) 2-Hexanone	11.086	43	583018	109.321	ug/l #	44
71) Bromoform	12.727	173	1289	0.587	ug/l #	1
74) N-amyl acetate	12.351	43	3672	0.715	ug/l #	41
76) 1,2,3-Trichloropropane	12.727	75	118335	32.816	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.057	105	2059	0.238	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.727	75	118335	100.018	ug/l #	10

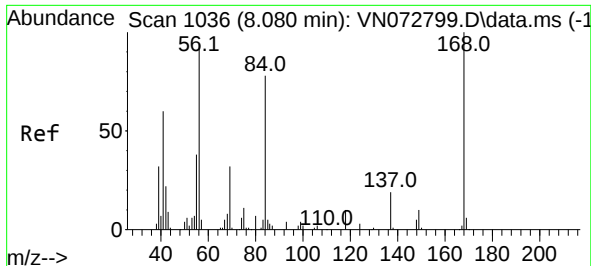
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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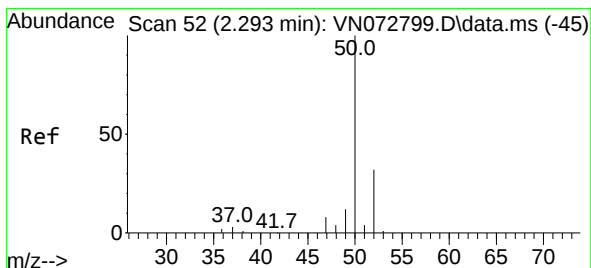
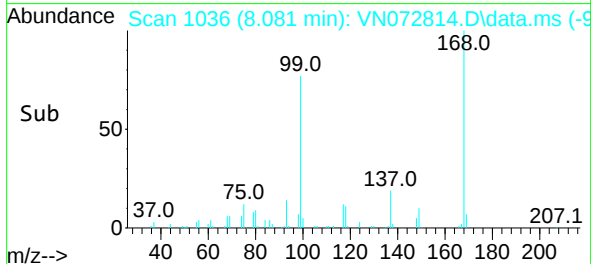
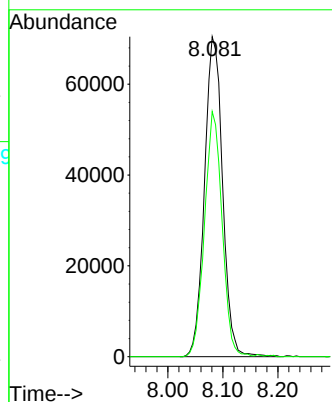
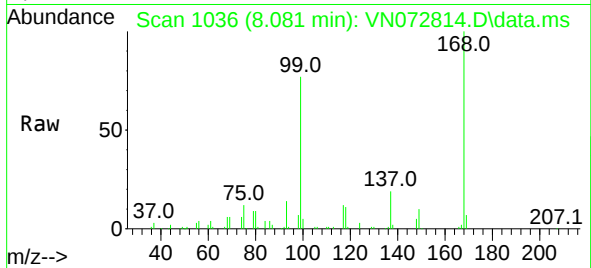




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

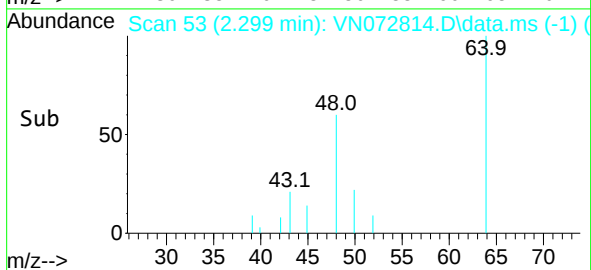
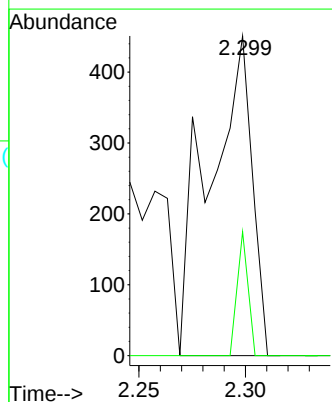
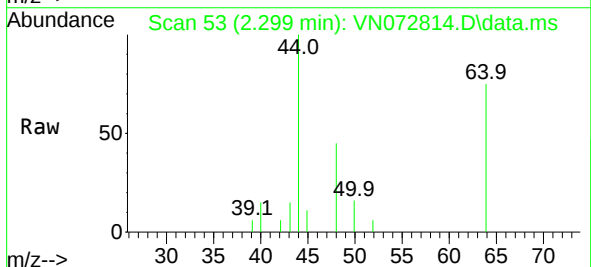
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

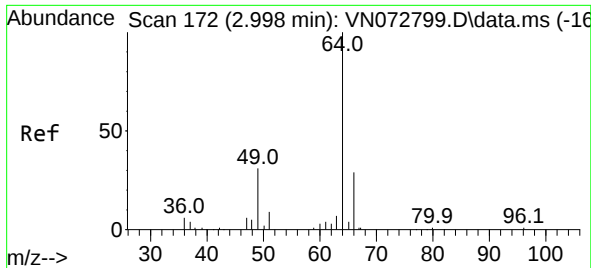
Tgt Ion:168 Resp: 161180
Ion Ratio Lower Upper
168 100
99 76.6 42.3 63.5#



#3
Chloromethane
Concen: Below Cal
RT: 2.299 min Scan# 53
Delta R.T. 0.006 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 50 Resp: 633
Ion Ratio Lower Upper
50 100
52 38.8 25.7 38.5#

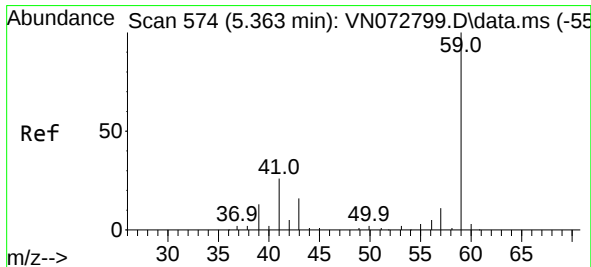
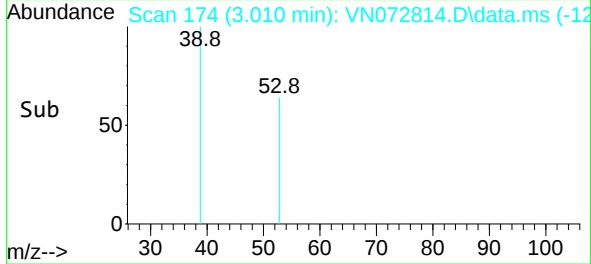
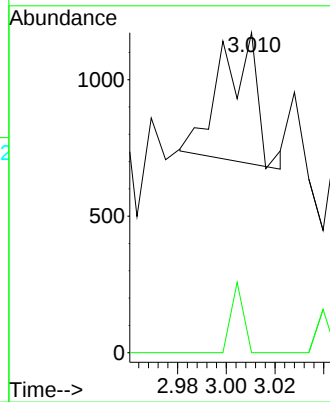
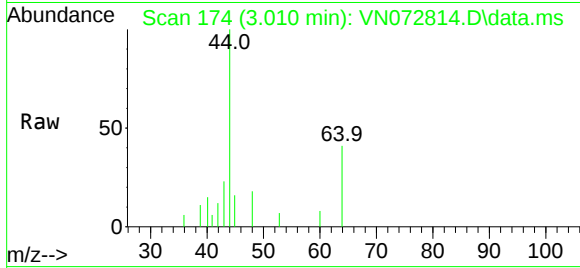




#6
Chloroethane
Concen: Below Cal
RT: 3.010 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

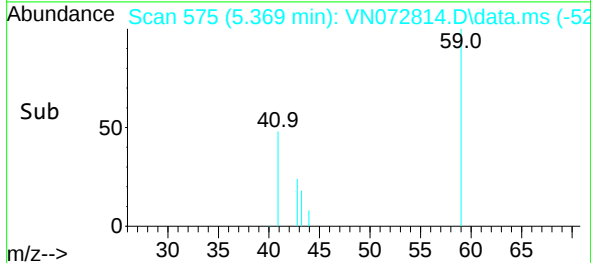
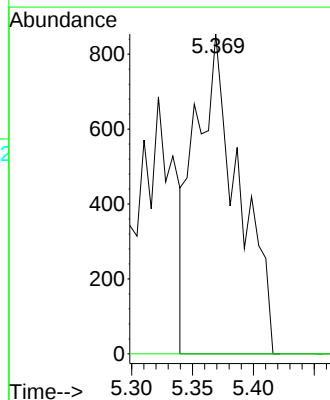
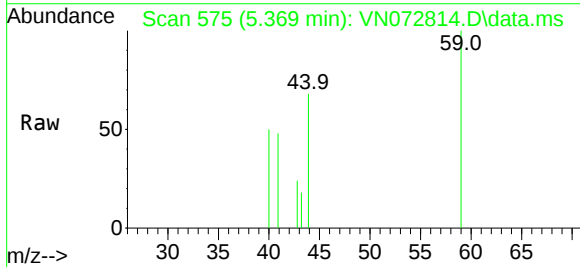
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

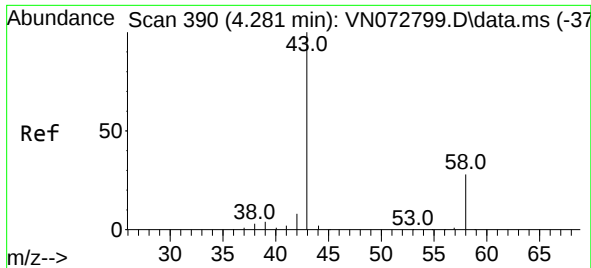
Tgt Ion: 64 Resp: 480
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 0.477 ug/l
RT: 5.369 min Scan# 575
Delta R.T. 0.006 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 59 Resp: 2116
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

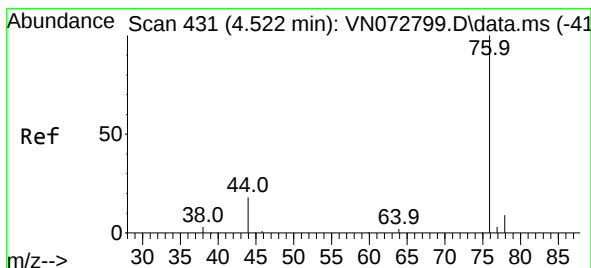
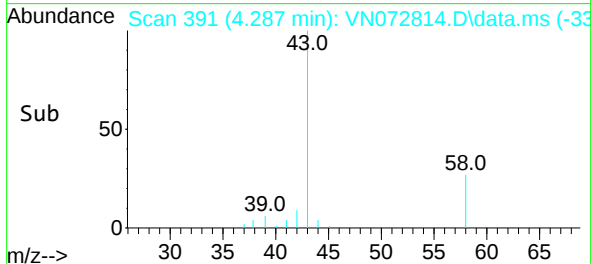
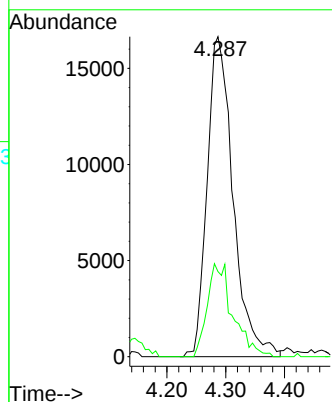
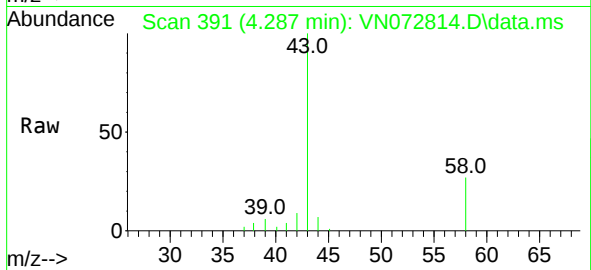




#16
Acetone
Concen: 24.922 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

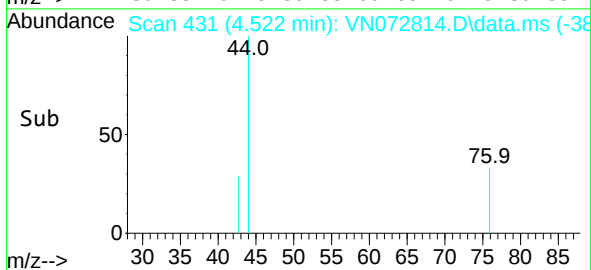
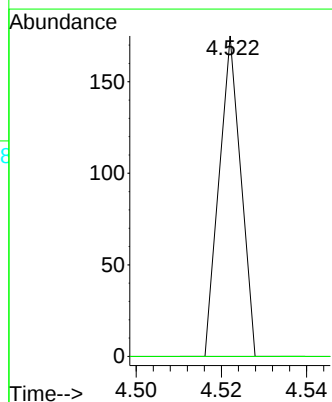
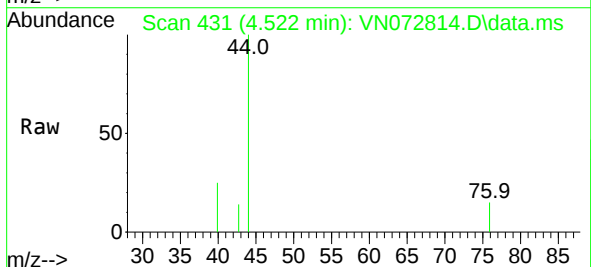
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

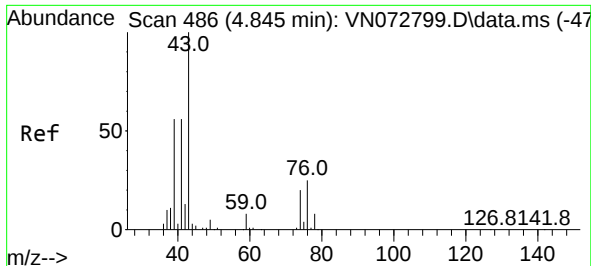
Tgt Ion: 43 Resp: 51075
Ion Ratio Lower Upper
43 100
58 26.6 26.0 39.0



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.522 min Scan# 431
Delta R.T. 0.000 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 76 Resp: 62
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#

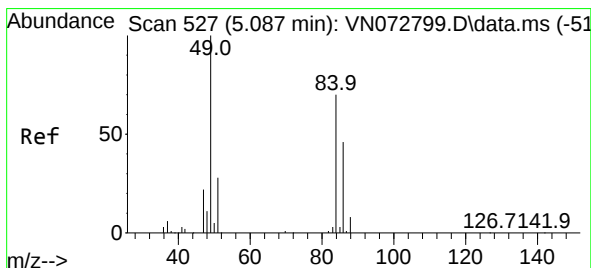
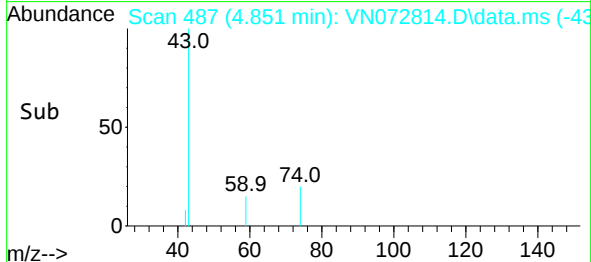
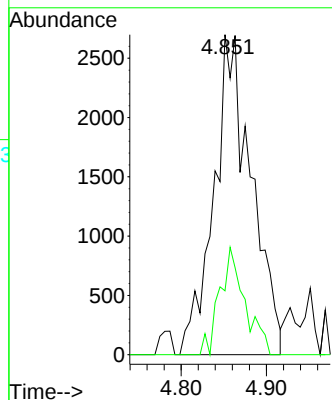
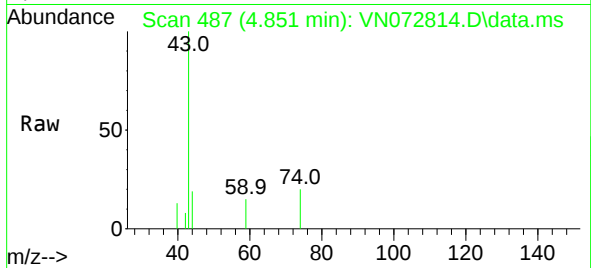




#18
Methyl Acetate
Concen: 1.536 ug/l
RT: 4.851 min Scan# 487
Delta R.T. 0.006 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

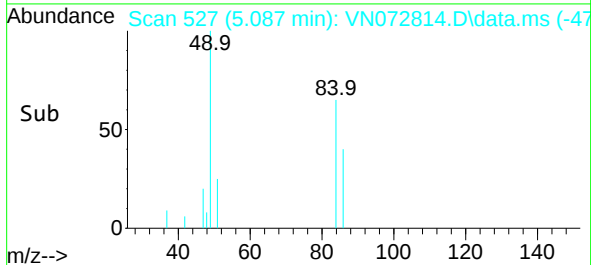
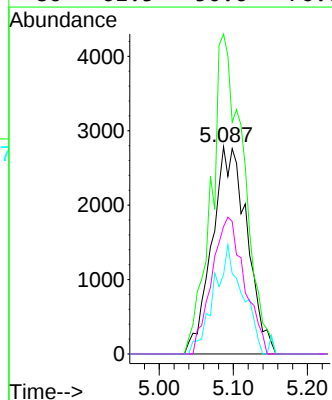
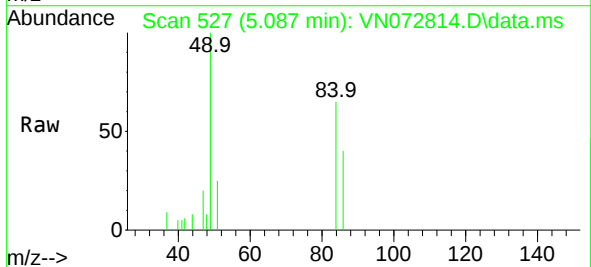
Instrument :
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ClientSampleId :
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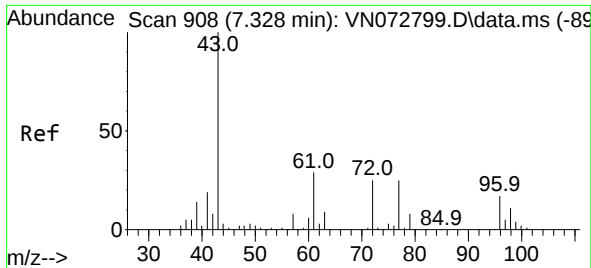
Tgt Ion: 43 Resp: 8275
Ion Ratio Lower Upper
43 100
74 22.5 21.6 32.4



#20
Methylene Chloride
Concen: 1.916 ug/l
RT: 5.087 min Scan# 527
Delta R.T. -0.000 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 84 Resp: 9159
Ion Ratio Lower Upper
84 100
49 154.5 88.3 132.5#
51 38.3 28.2 42.2
86 61.5 50.6 76.0

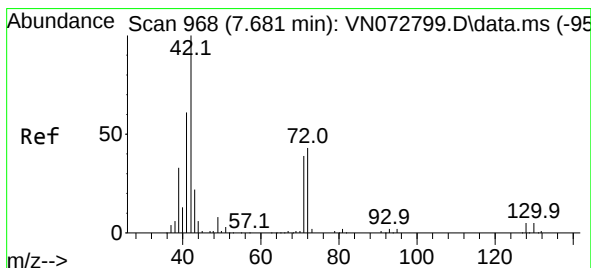
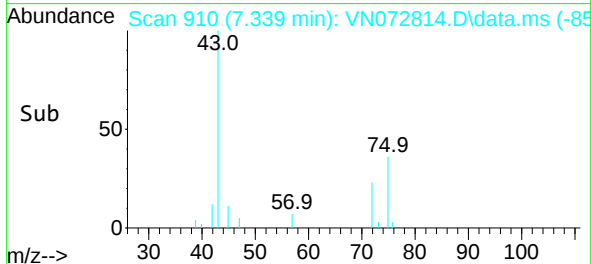
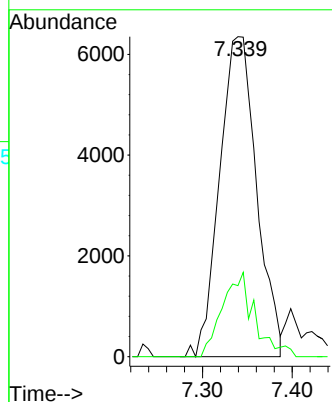
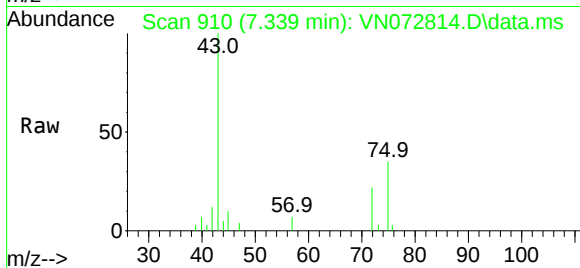




#25
2-Butanone
Concen: 5.663 ug/l
RT: 7.339 min Scan# 910
Delta R.T. 0.011 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

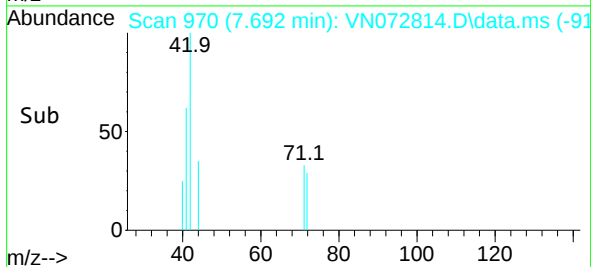
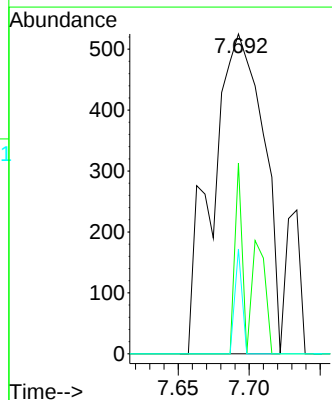
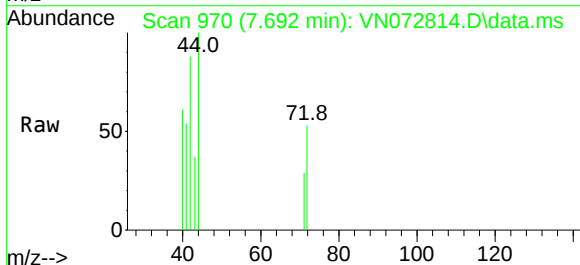
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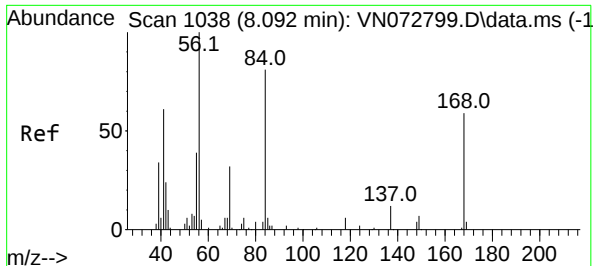
Tgt Ion: 43 Resp: 18202
Ion Ratio Lower Upper
43 100
72 22.2 23.7 35.5#



#29
Tetrahydrofuran
Concen: 0.662 ug/l
RT: 7.692 min Scan# 970
Delta R.T. 0.011 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 42 Resp: 1318
Ion Ratio Lower Upper
42 100
72 17.5 39.7 59.5#
71 4.6 36.6 55.0#

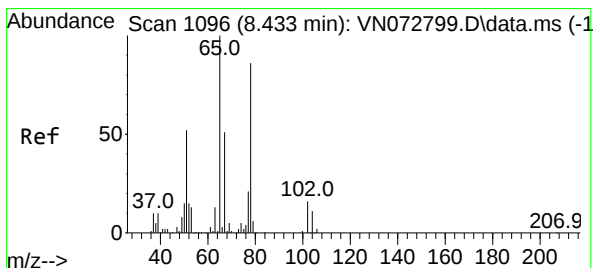
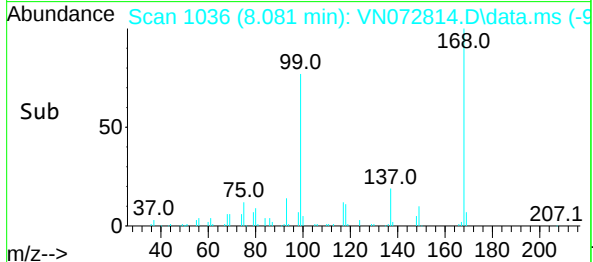
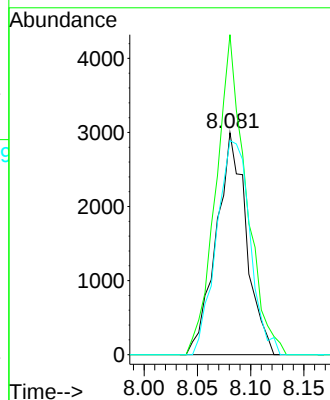
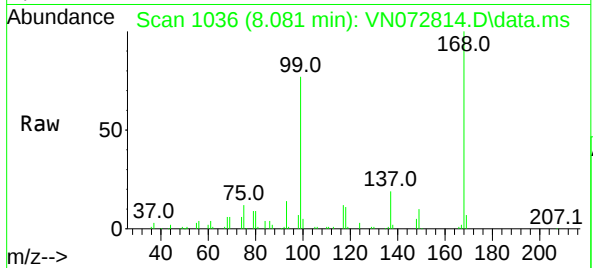




#31
Cyclohexane
Concen: Below Cal
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

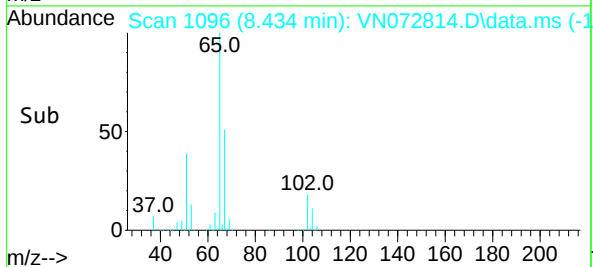
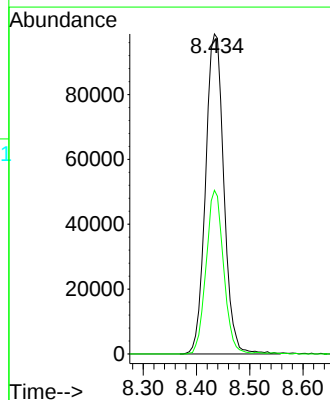
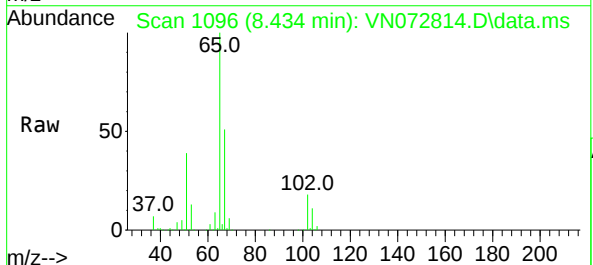
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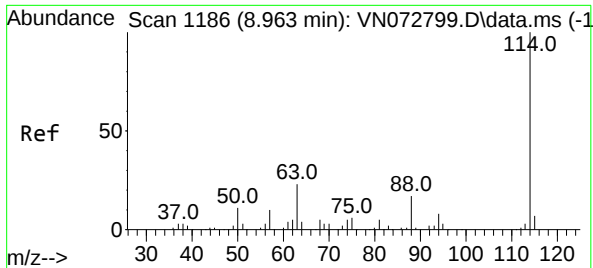
Tgt Ion: 56 Resp: 5895
Ion Ratio Lower Upper
56 100
69 144.2 27.8 41.8#
84 96.5 76.9 115.3



#33
1,2-Dichloroethane-d4
Concen: 52.248 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. 0.001 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 65 Resp: 235784
Ion Ratio Lower Upper
65 100
67 48.8 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: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#05

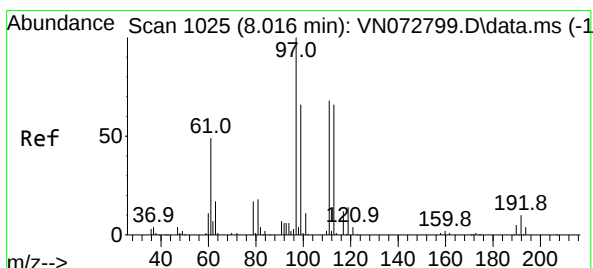
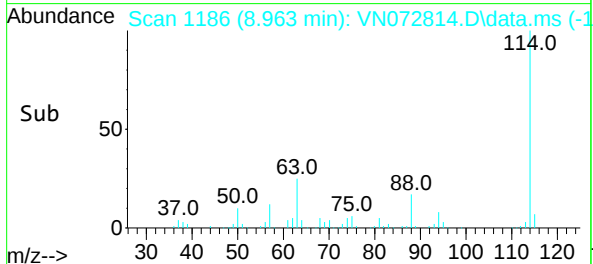
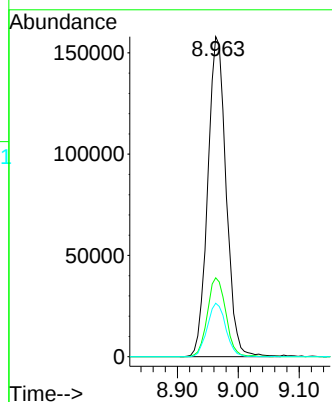
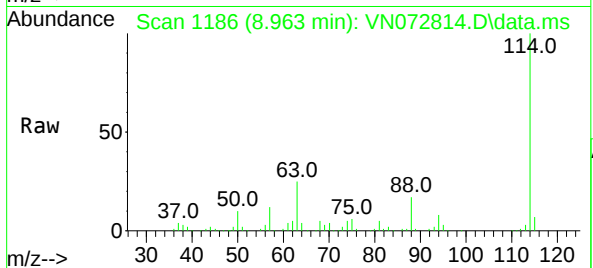
Tgt Ion:114 Resp: 330690

Ion Ratio Lower Upper

114 100

63 24.7 0.0 40.0

88 16.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.951 ug/l

RT: 8.022 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

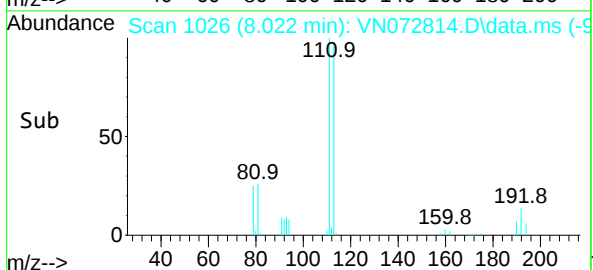
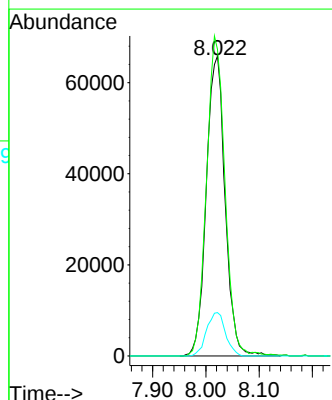
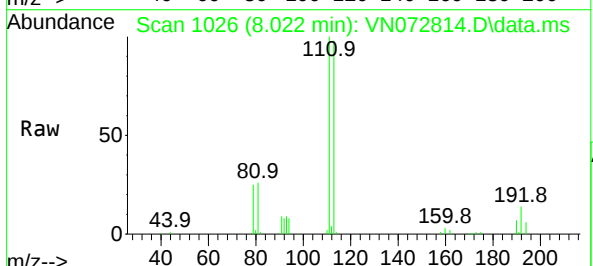
Tgt Ion:113 Resp: 161217

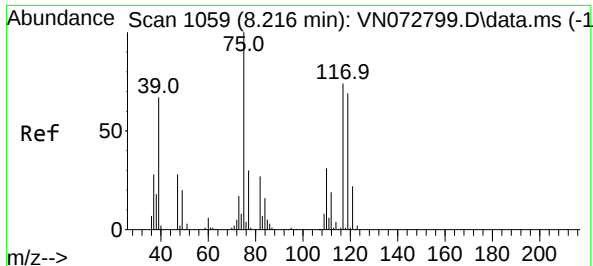
Ion Ratio Lower Upper

113 100

111 105.1 81.4 122.0

192 14.6 17.0 25.6#





#36

1,1-Dichloropropene

Concen: 3.879 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.135 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#05

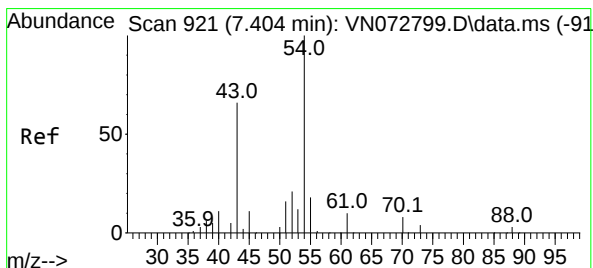
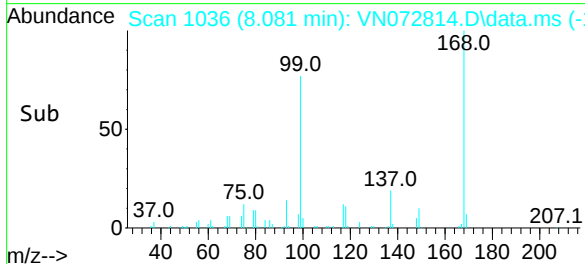
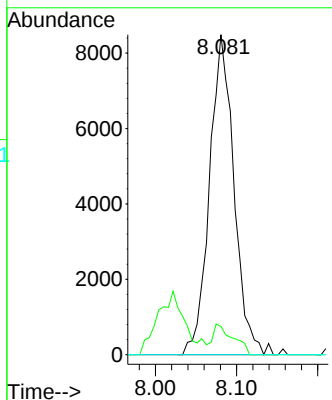
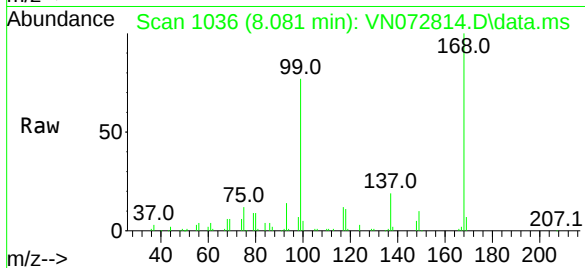
Tgt Ion: 75 Resp: 17800

Ion Ratio Lower Upper

75 100

110 7.9 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 2.596 ug/l

RT: 7.339 min Scan# 910

Delta R.T. -0.065 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

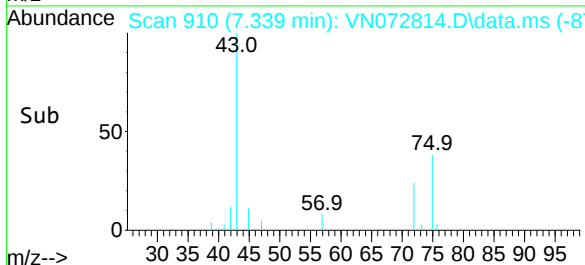
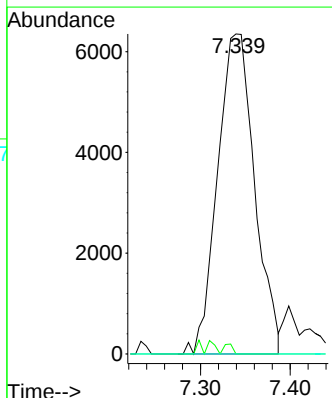
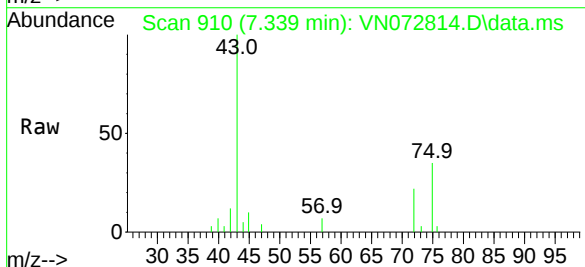
Tgt Ion: 43 Resp: 18202

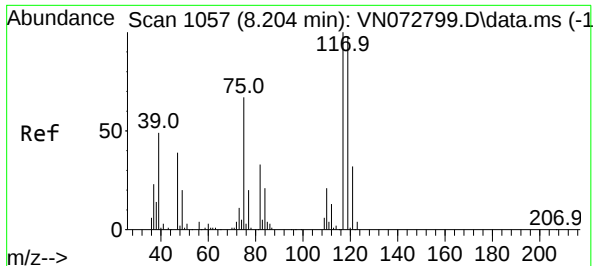
Ion Ratio Lower Upper

43 100

61 0.7 11.8 17.6#

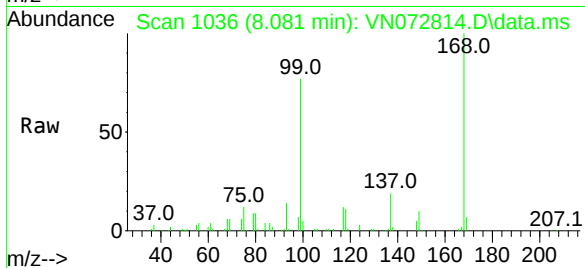
70 0.0 9.3 13.9#



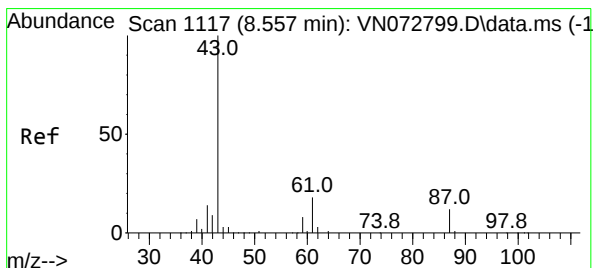
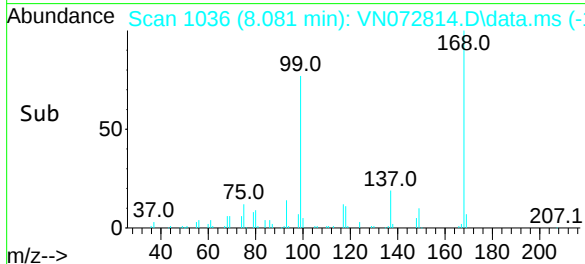
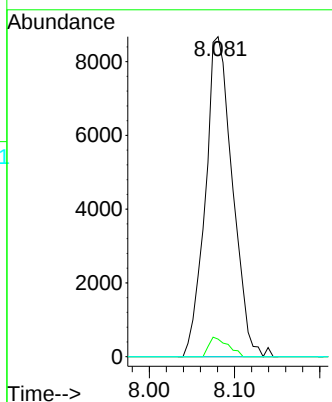


#38
Carbon Tetrachloride
Concen: 3.997 ug/l
RT: 8.081 min Scan# 11036
Delta R.T. -0.123 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

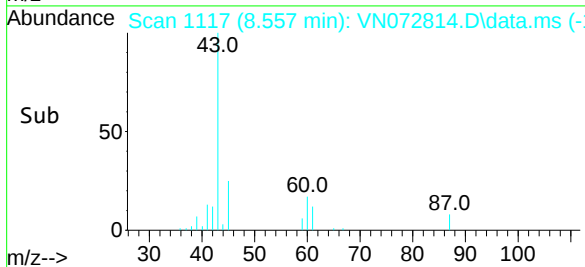
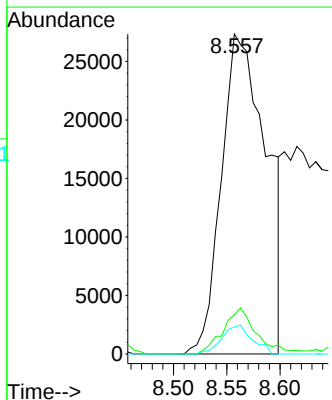
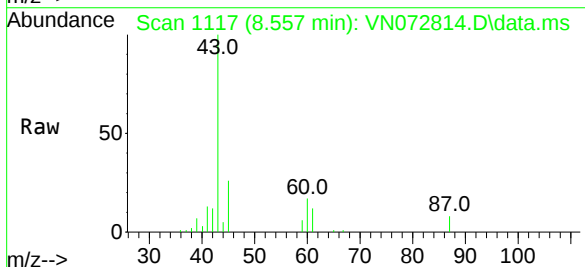


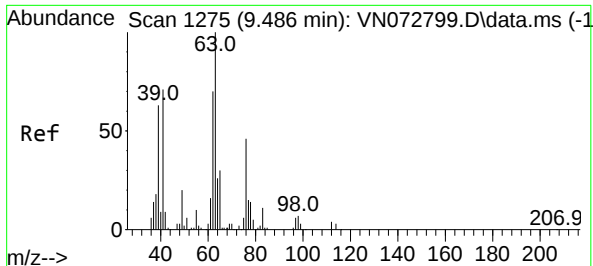
Tgt Ion: 117 Resp: 19224
Ion Ratio Lower Upper
117 100
119 5.5 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 7.378 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.000 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 43 Resp: 80081
Ion Ratio Lower Upper
43 100
61 10.8 21.9 32.9#
87 6.1 12.0 18.0#





#45

1,2-Dichloropropane

Concen: 0.685 ug/l

RT: 9.622 min Scan# 1298

Delta R.T. 0.136 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

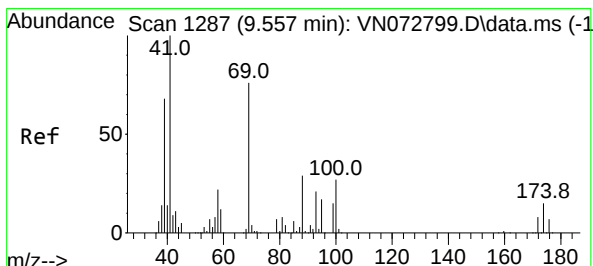
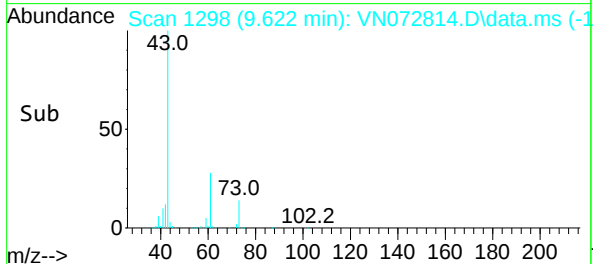
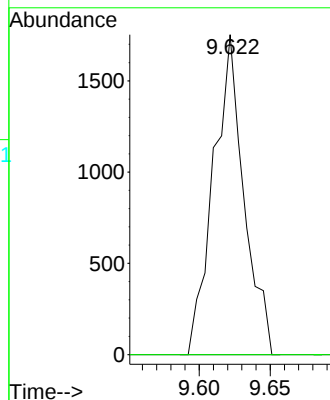
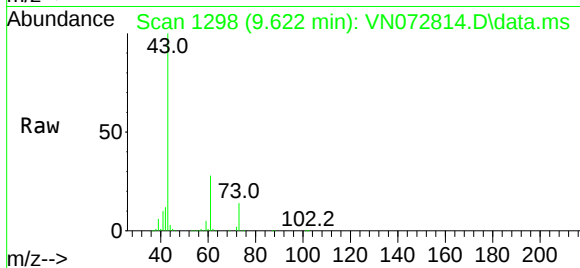
PB145459ZHE#05

Tgt Ion: 63 Resp: 2620

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



#48

Methyl methacrylate

Concen: 2.589 ug/l

RT: 9.539 min Scan# 1284

Delta R.T. -0.018 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

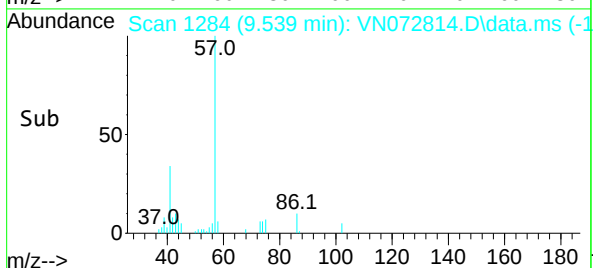
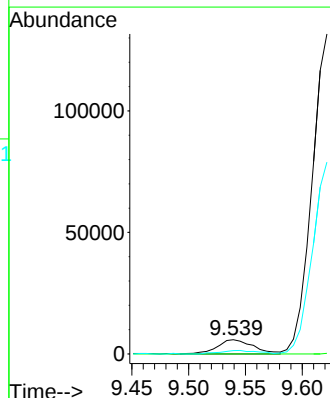
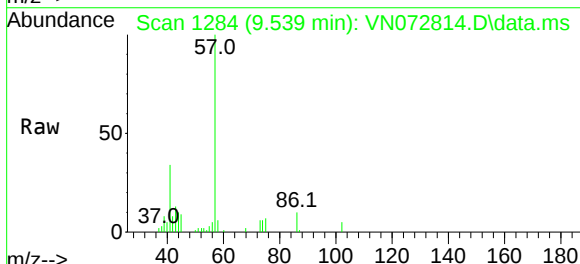
Tgt Ion: 41 Resp: 13039

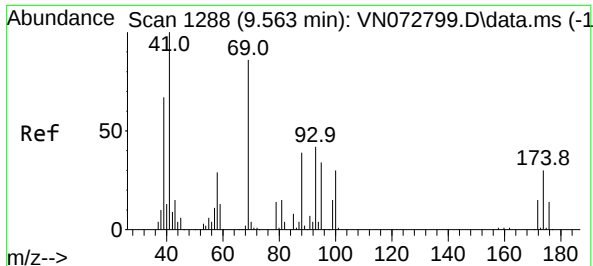
Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

39 0.0 45.6 68.4#

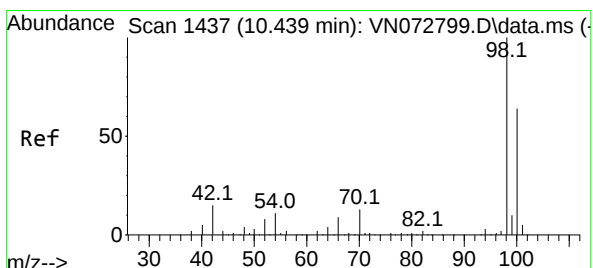
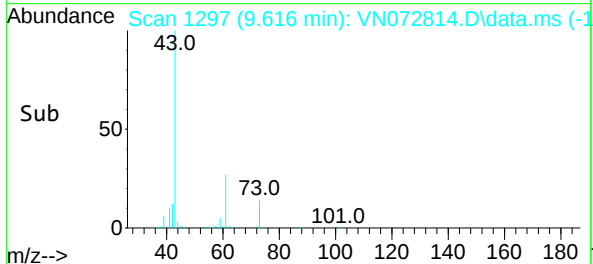
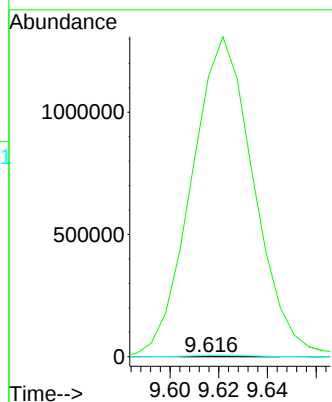
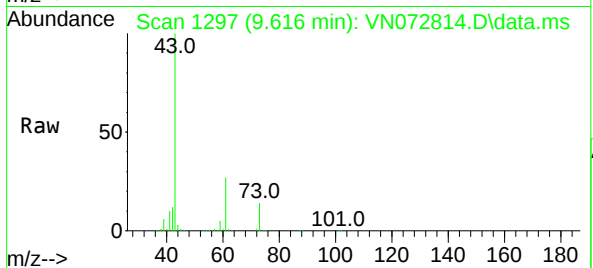




#49
1,4-Dioxane
Concen: 3.044 ug/l
RT: 9.616 min Scan# 1288
Delta R.T. 0.053 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

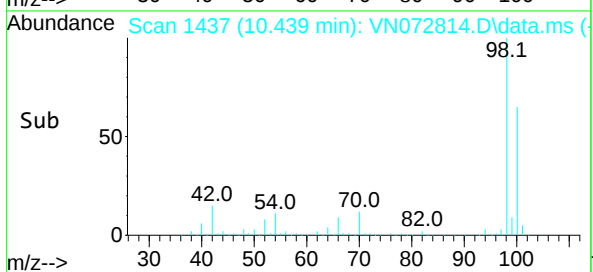
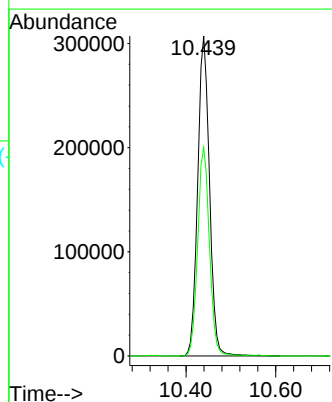
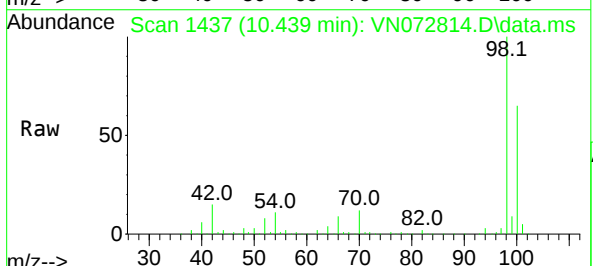
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

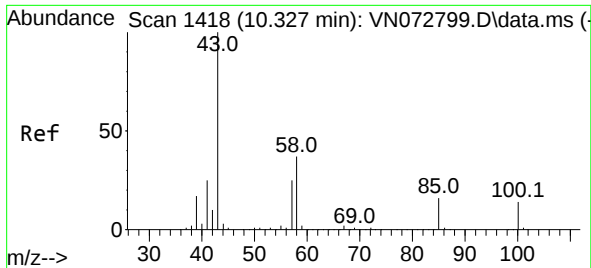
Tgt Ion: 88 Resp: 262
Ion Ratio Lower Upper
88 100
43 904318.7 20.2 30.4#
58 3555.7 54.2 81.4#



#50
Toluene-d8
Concen: 42.300 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 98 Resp: 559480
Ion Ratio Lower Upper
98 100
100 64.8 52.6 78.8

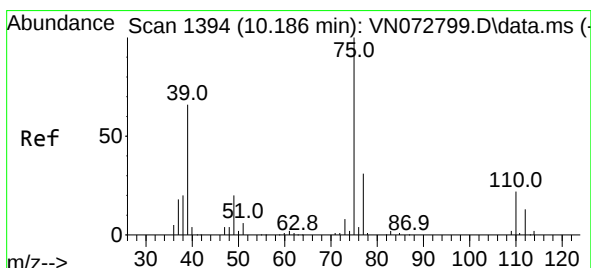
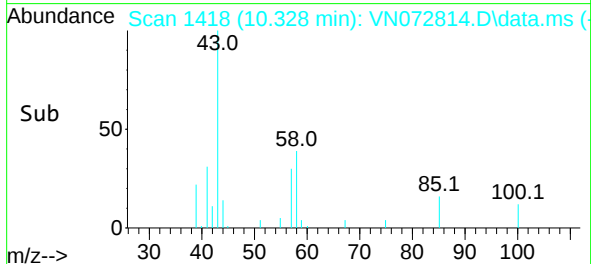
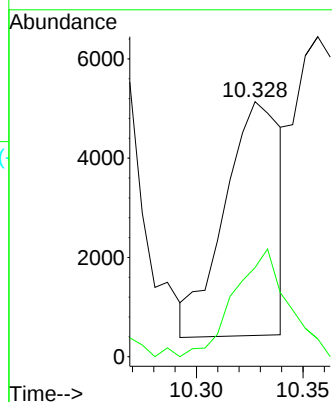
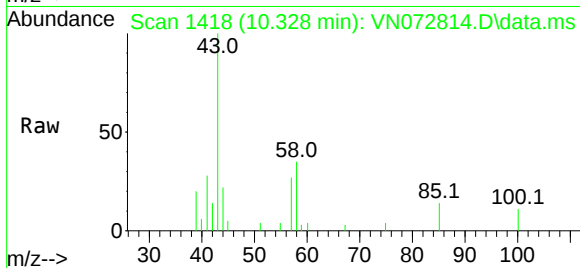




#51
4-Methyl-2-Pentanone
Concen: 1.196 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. 0.001 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

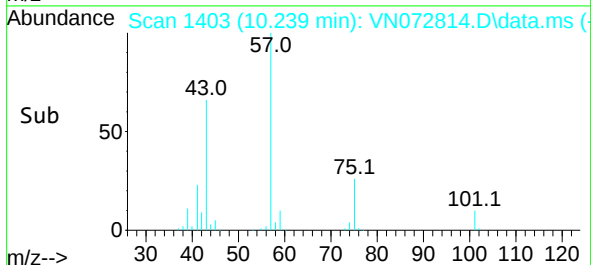
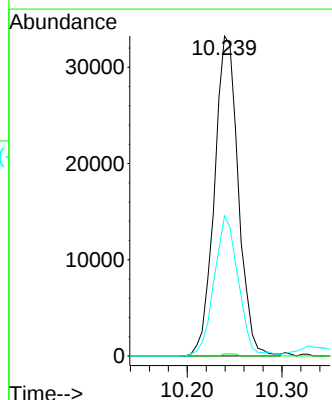
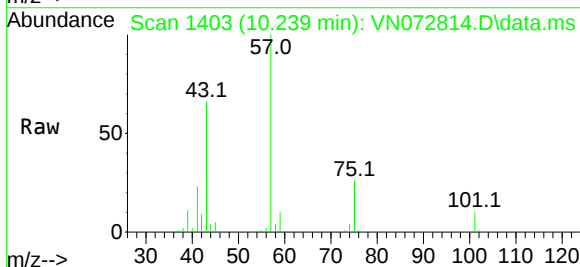
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

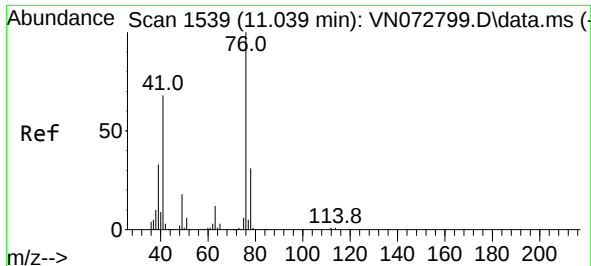
Tgt Ion: 43 Resp: 8613
Ion Ratio Lower Upper
43 100
58 43.7 34.1 51.1



#54
cis-1,3-Dichloropropene
Concen: 9.709 ug/l
RT: 10.239 min Scan# 1403
Delta R.T. 0.053 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 75 Resp: 58304
Ion Ratio Lower Upper
75 100
77 0.7 25.2 37.8#
39 43.8 35.7 53.5





#57

1,3-Dichloropropane

Concen: 5.524 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.047 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

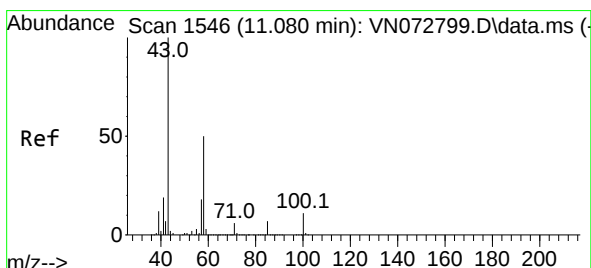
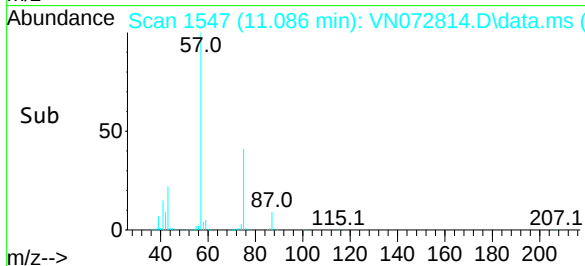
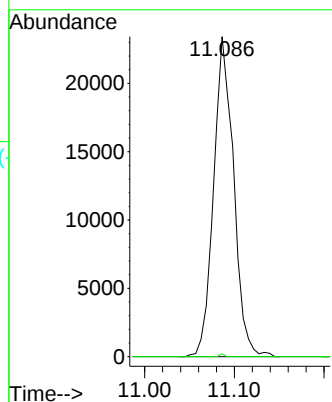
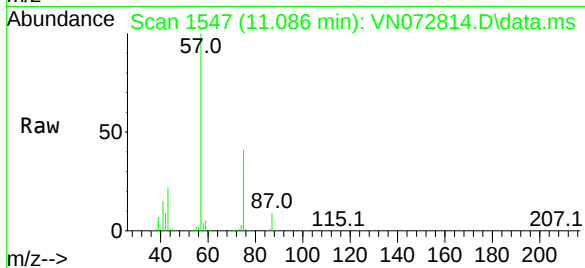
PB145459ZHE#05

Tgt Ion: 76 Resp: 36275

Ion Ratio Lower Upper

76 100

78 0.2 26.2 39.2#



#59

2-Hexanone

Concen: 109.321 ug/l

RT: 11.086 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VN072814.D

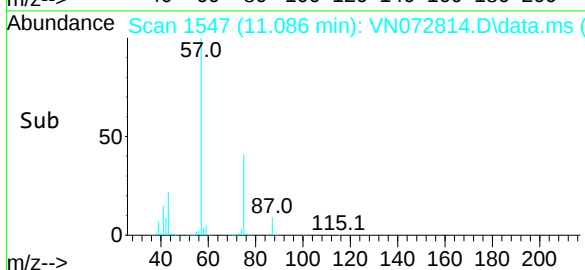
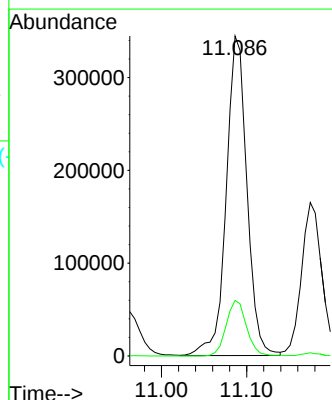
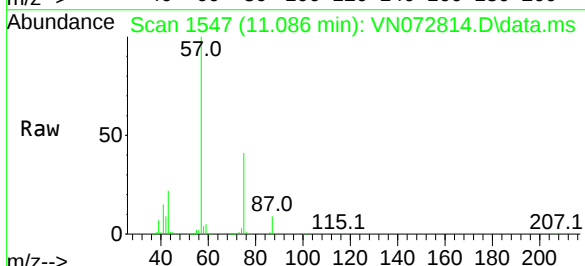
Acq: 13 Jun 2022 23:22

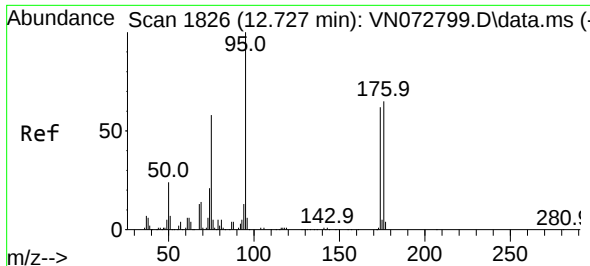
Tgt Ion: 43 Resp: 583018

Ion Ratio Lower Upper

43 100

58 17.1 29.7 89.1#

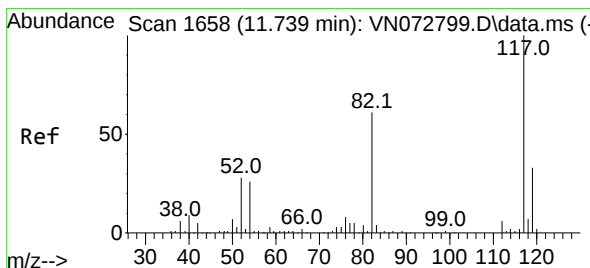
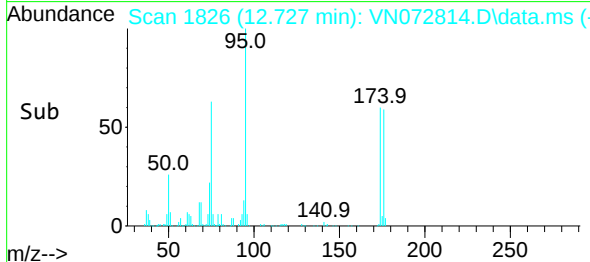
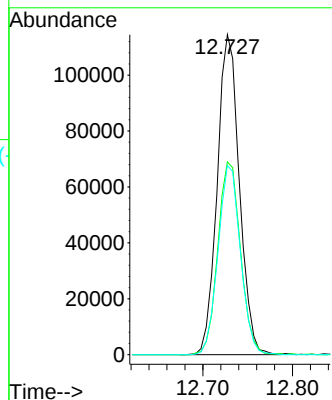
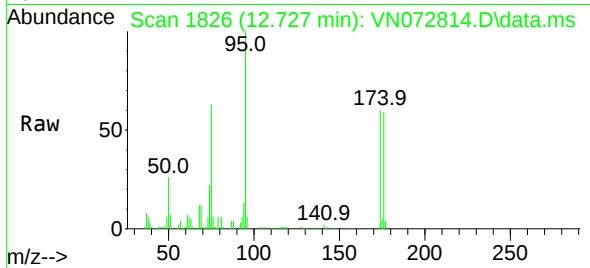




#62
4-Bromofluorobenzene
Concen: 41.950 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

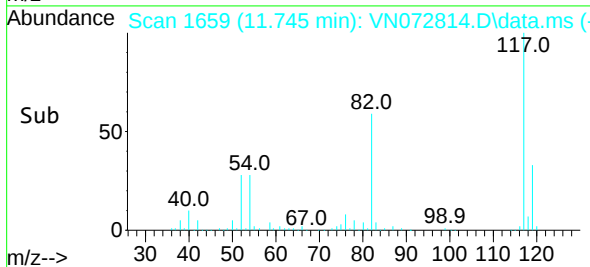
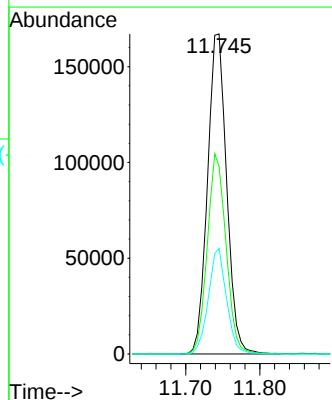
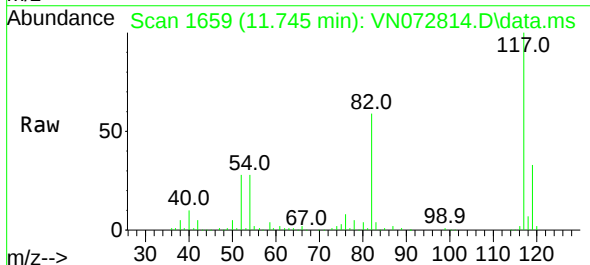
Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

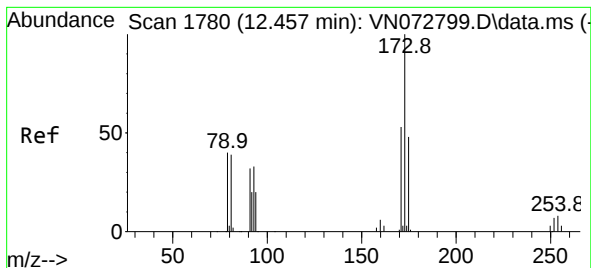
Tgt Ion: 95 Resp: 196079
Ion Ratio Lower Upper
95 100
174 61.7 0.0 167.6
176 59.8 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 117 Resp: 300290
Ion Ratio Lower Upper
117 100
82 58.6 44.2 66.2
119 33.0 25.4 38.0





#71

Bromoform

Concen: 0.587 ug/l

RT: 12.727 min Scan# 11

Delta R.T. 0.270 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

PB145459ZHE#05

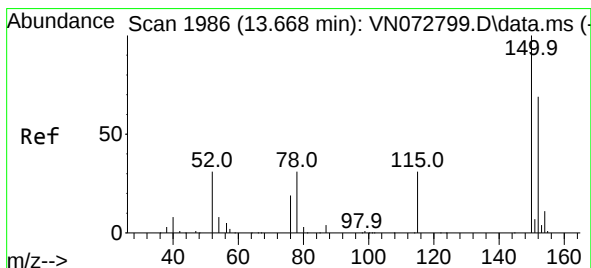
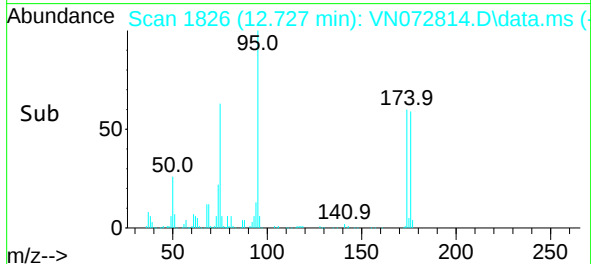
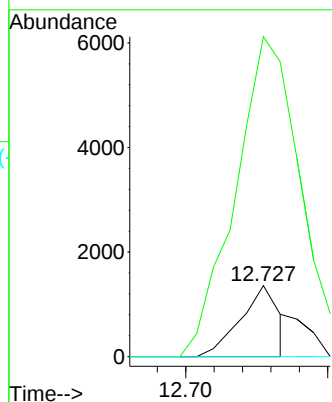
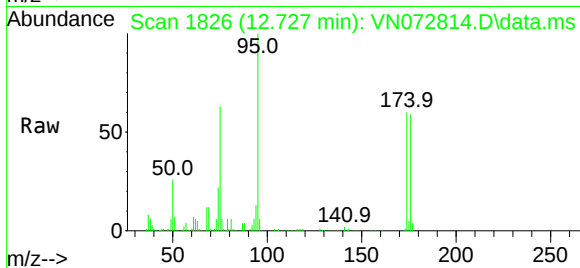
Tgt Ion:173 Resp: 1289

Ion Ratio Lower Upper

173 100

175 568.5 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: VN072814.D

Acq: 13 Jun 2022 23:22

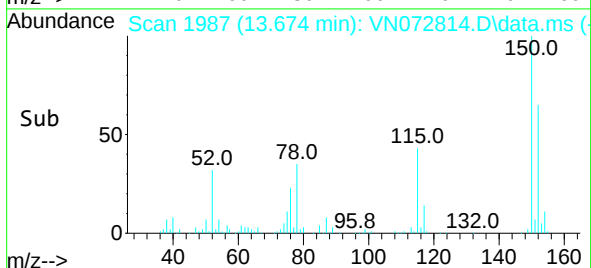
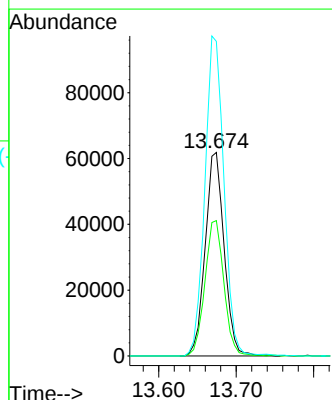
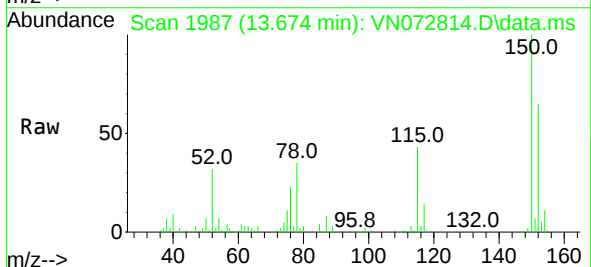
Tgt Ion:152 Resp: 105067

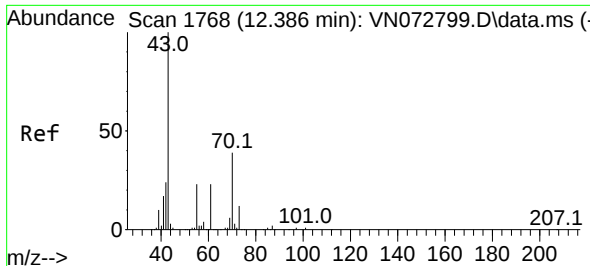
Ion Ratio Lower Upper

152 100

115 66.7 28.9 86.7

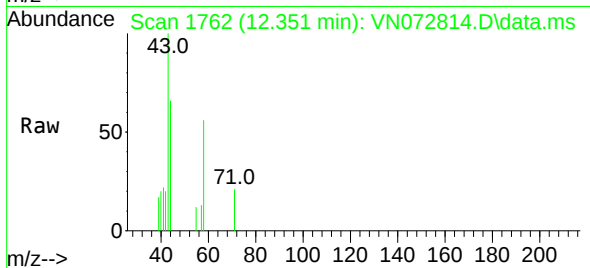
150 157.4 0.0 356.2



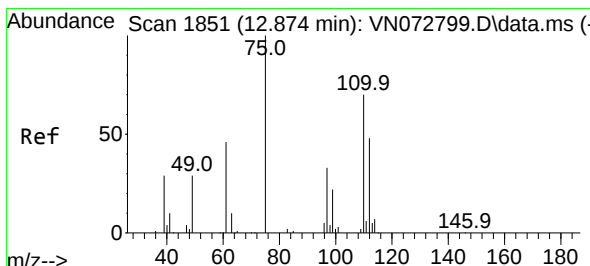
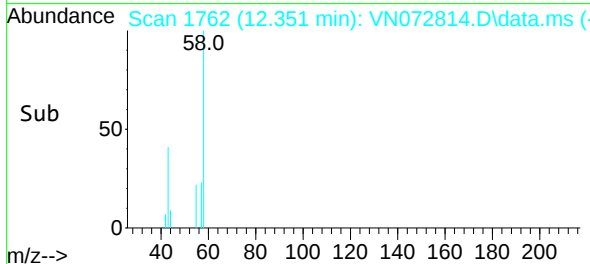
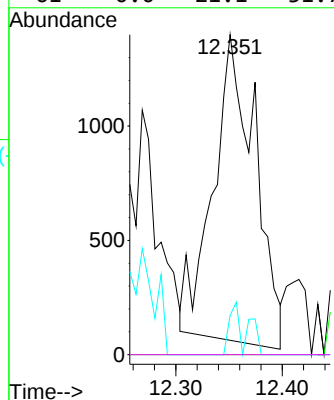


#74
N-amy1 acetate
Concen: 0.715 ug/l
RT: 12.351 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Instrument :
MSVOA_N
ClientSampleId :
PB145459ZHE#05

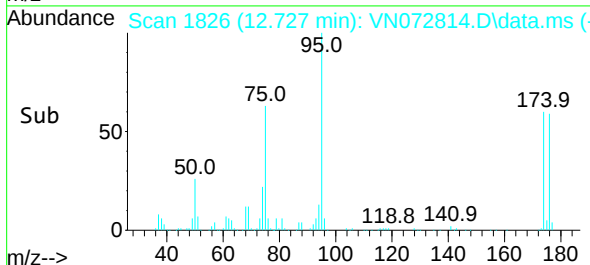
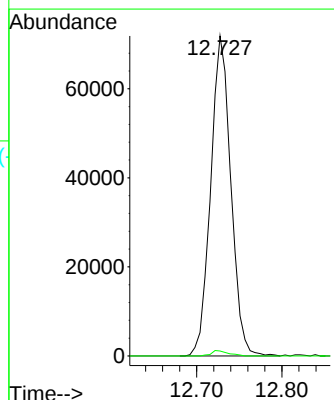
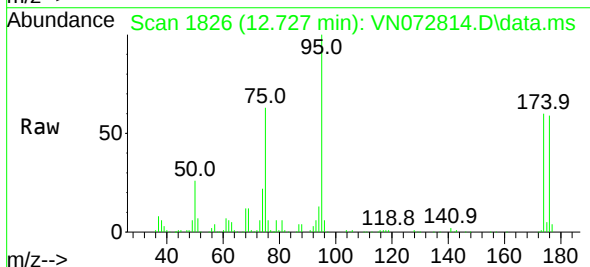


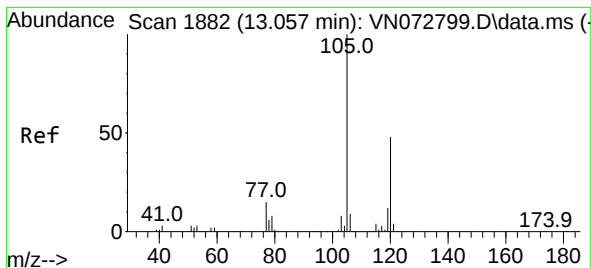
Tgt Ion: 43 Resp: 3672
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 3.9 21.1 31.7#
61 0.0 21.1 31.7#



#76
1,2,3-Trichloropropane
Concen: 32.816 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072814.D
Acq: 13 Jun 2022 23:22

Tgt Ion: 75 Resp: 118335
Ion Ratio Lower Upper
75 100
77 1.4 98.5 295.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.238 ug/l

RT: 13.057 min Scan# 1882

Delta R.T. -0.000 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Instrument :

MSVOA_N

ClientSampleId :

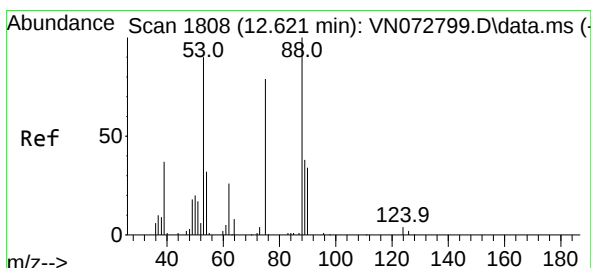
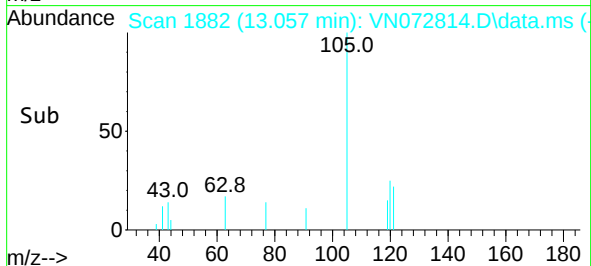
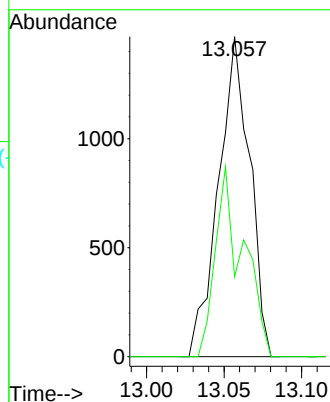
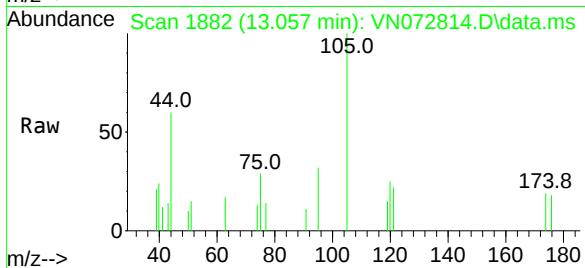
PB145459ZHE#05

Tgt Ion:105 Resp: 2059

Ion Ratio Lower Upper

105 100

120 52.7 24.9 74.7



#81

trans-1,4-Dichloro-2-butene

Concen: 100.018 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.106 min

Lab File: VN072814.D

Acq: 13 Jun 2022 23:22

Tgt Ion: 75 Resp: 118335

Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.1 37.2 55.8#

