

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085136.D
 Acq On : 06 Dec 2024 18:51
 Operator : JC\MD
 Sample : P5139-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 23:12:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

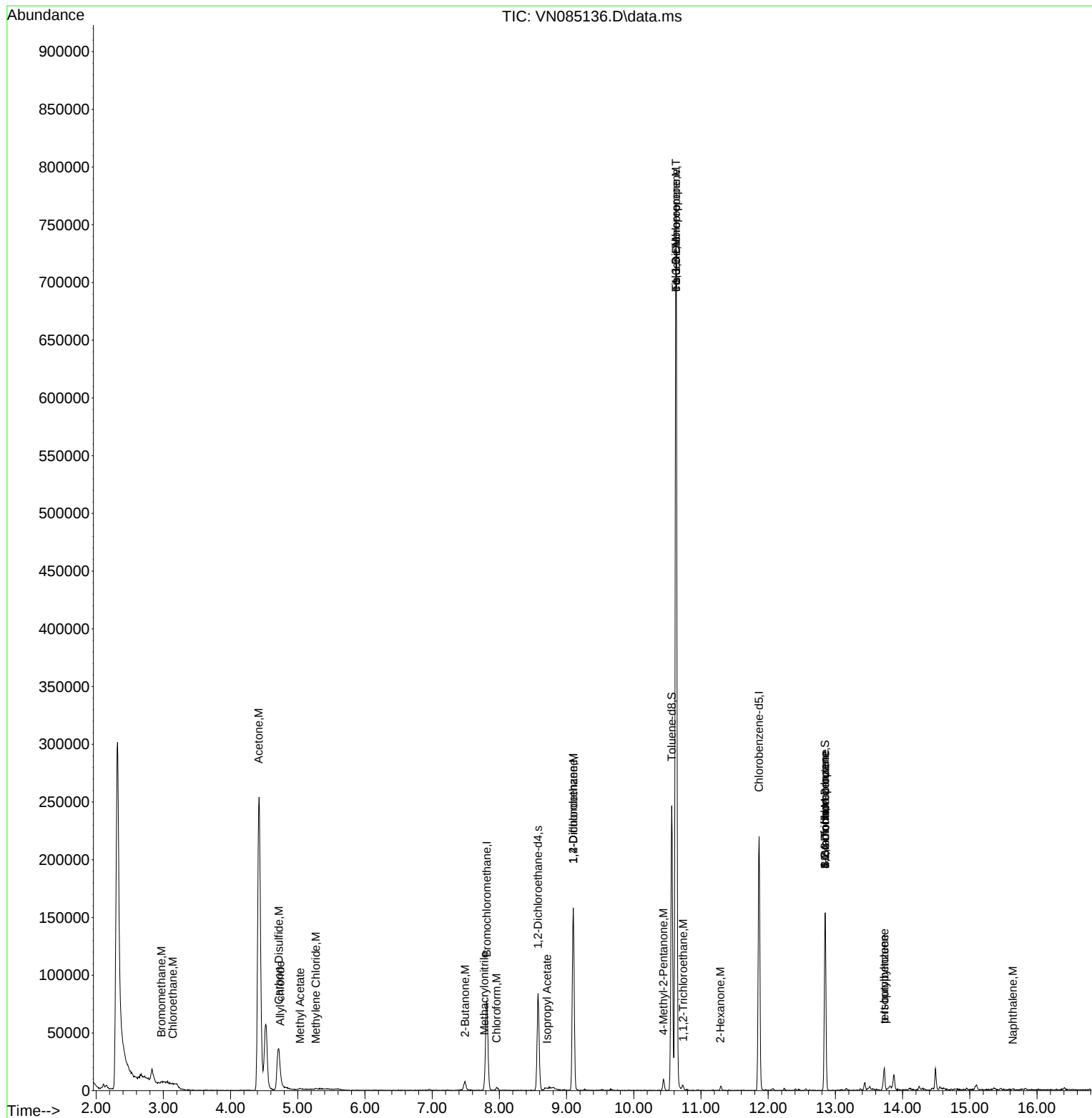
Internal Standards						
1) Bromochloromethane	7.812	128	27825	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	134160	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	130946	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	68066	30.830	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.767%			
60) 4-Bromofluorobenzene	12.847	95	52545	24.252	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 80.833%			
63) Toluene-d8	10.565	98	169452	27.587	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 91.967%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	393	0.307	ug/l #	70
6) Chloroethane	3.142	64	746	0.602	ug/l #	45
12) Methyl Acetate	5.036	43	1804	0.902	ug/l #	88
15) Acetone	4.418	58	152467	677.797	ug/l	97
16) Carbon Disulfide	4.718	76	3878	0.766	ug/l	100
17) Allyl chloride	4.742	41	1111	0.458	ug/l #	55
18) Methylene Chloride	5.271	84	414	0.215	ug/l #	30
25) Chloroform	7.959	83	2493	0.725	ug/l #	82
30) 2-Butanone	7.488	43	12722	12.806	ug/l #	91
35) Methacrylonitrile	7.777	41	254	0.227	ug/l #	24
36) 1,2-Dichloroethane	9.100	62	4936	2.132	ug/l #	75
44) Isopropyl Acetate	8.712	43	1217	0.354	ug/l #	48
48) t-1,3-Dichloropropene	10.629	75	3894	1.570	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	3894	1.443	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	3264	2.050	ug/l #	18
56) Bromoform	12.847	173	469	0.361	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	6266	2.932	ug/l #	81
59) 2-Hexanone	11.288	43	914	0.564	ug/l #	27
62) Toluene	10.629	91	589161	77.148	ug/l	100
72) 1,2,3-Trichloropropane	12.847	75	27394	12.068	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	27394	33.211	ug/l #	10
79) tert-butylbenzene	13.729	119	9787	1.842	ug/l	63
82) p-Isopropyltoluene	13.729	119	9787	1.564	ug/l	91
91) Naphthalene	15.641	128	1256	0.252	ug/l #	68

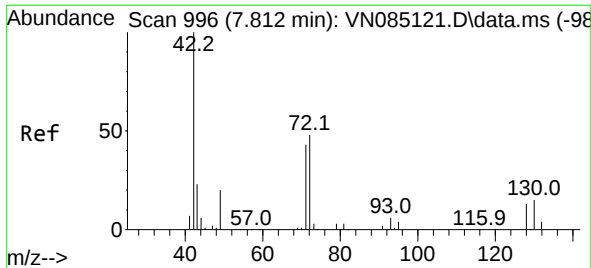
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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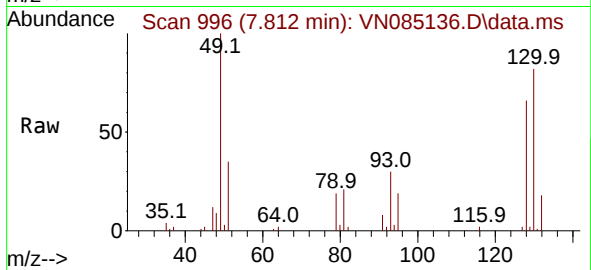
Quant Time: Dec 06 23:12:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
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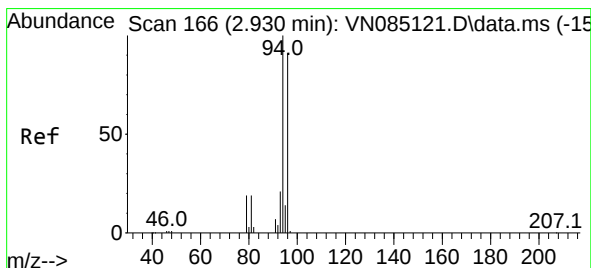
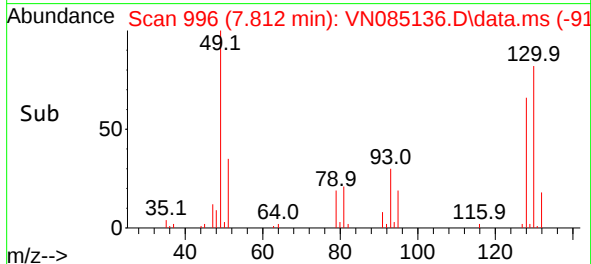
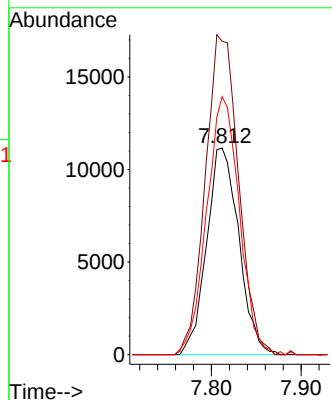


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Instrument :
MSVOA_N
ClientSampleId :

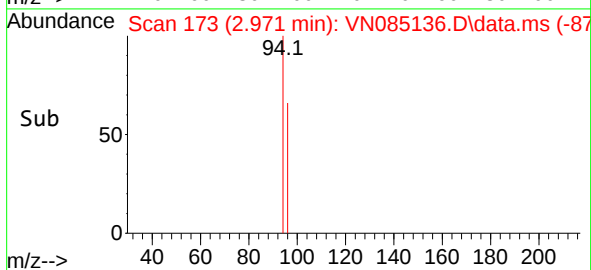
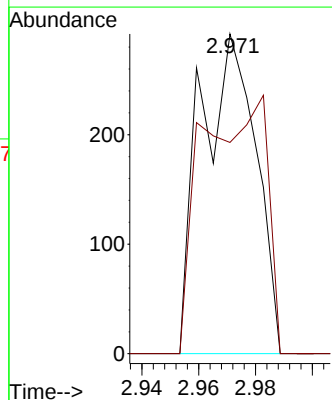
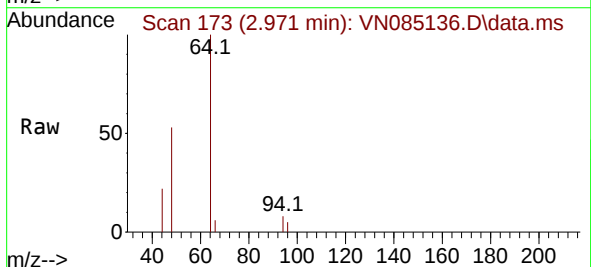


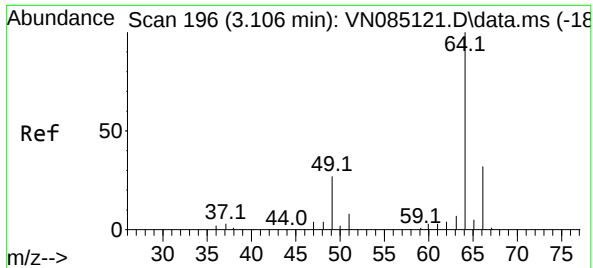
Tgt Ion:128 Resp: 27825
Ion Ratio Lower Upper
128 100
49 159.5 0.0 394.5
130 126.6 0.0 316.5



#5
Bromomethane
Concen: 0.307 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.006 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 94 Resp: 393
Ion Ratio Lower Upper
94 100
96 66.1 76.2 114.4#

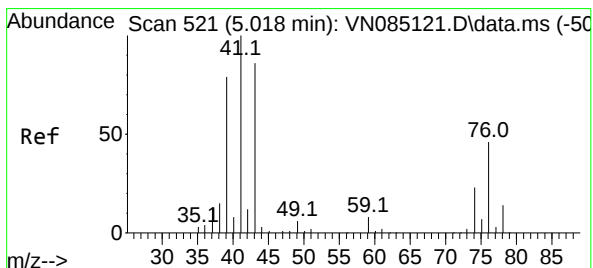
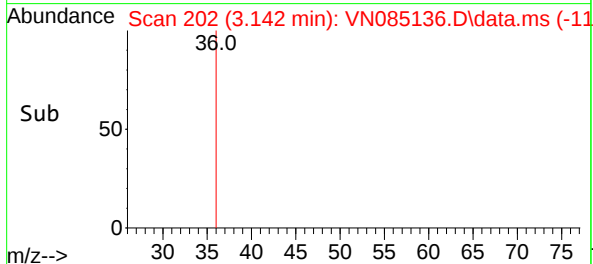
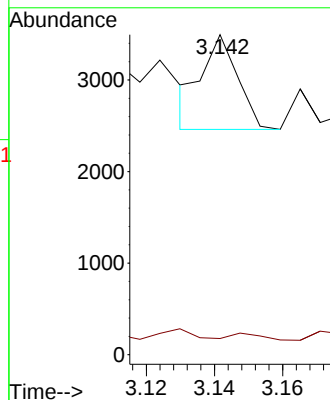
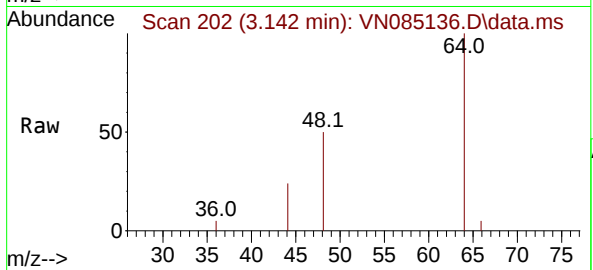




#6
Chloroethane
Concen: 0.602 ug/l
RT: 3.142 min Scan# 20
Delta R.T. 0.018 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

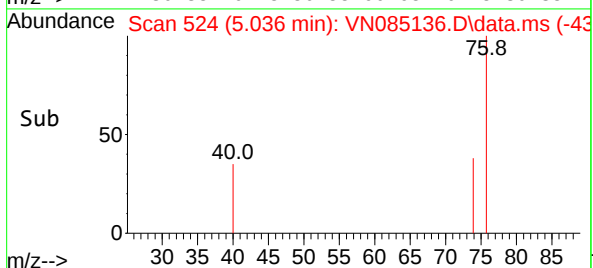
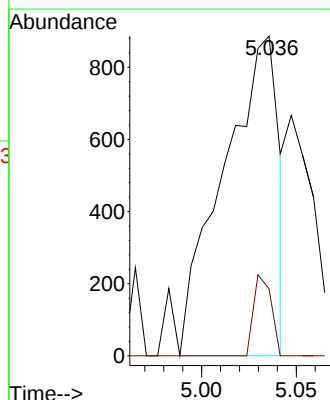
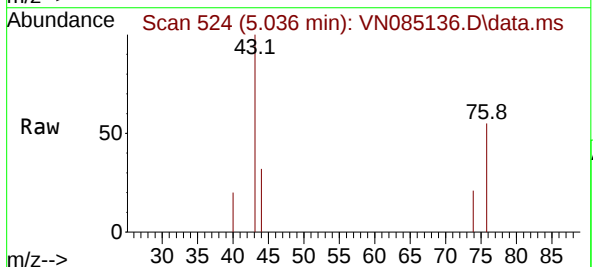
Instrument :
MSVOA_N
ClientSampleId :

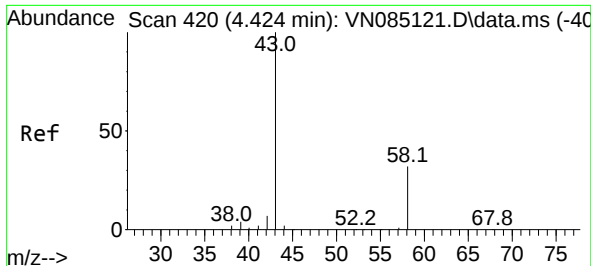
Tgt Ion: 64 Resp: 746
Ion Ratio Lower Upper
64 100
66 1.5 25.5 38.3#



#12
Methyl Acetate
Concen: 0.902 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 43 Resp: 1804
Ion Ratio Lower Upper
43 100
74 30.6 19.8 29.6#





#15

Acetone

Concen: 677.797 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

Instrument :

MSVOA_N

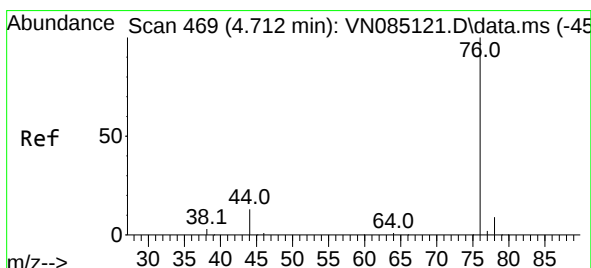
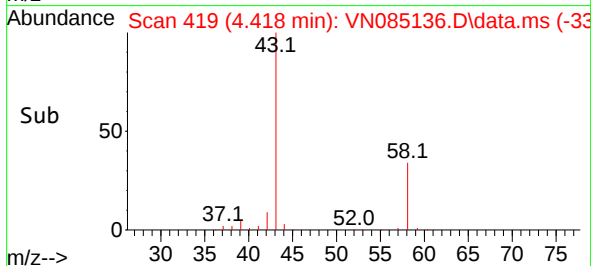
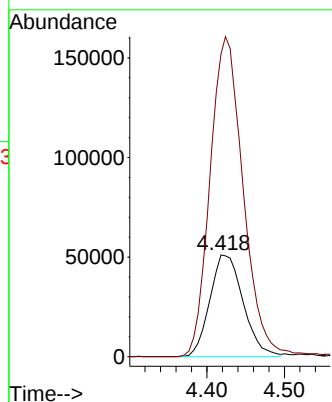
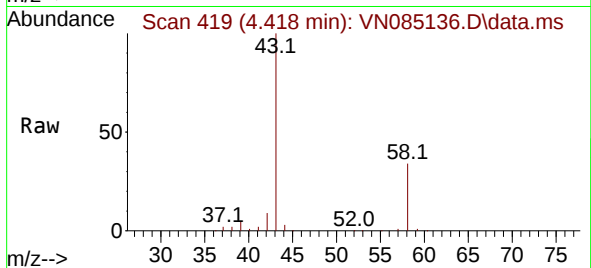
ClientSampleId :

Tgt Ion: 58 Resp: 152467

Ion Ratio Lower Upper

58 100

43 296.9 242.3 363.5



#16

Carbon Disulfide

Concen: 0.766 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN085136.D

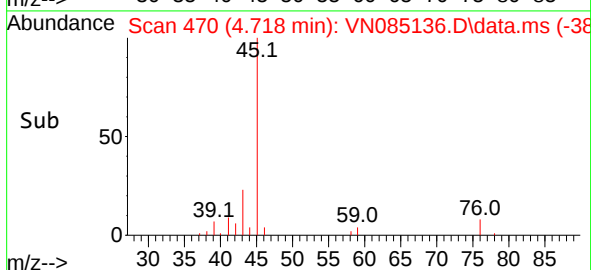
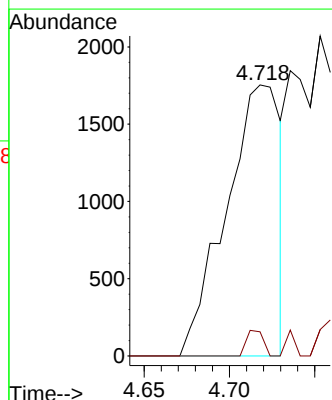
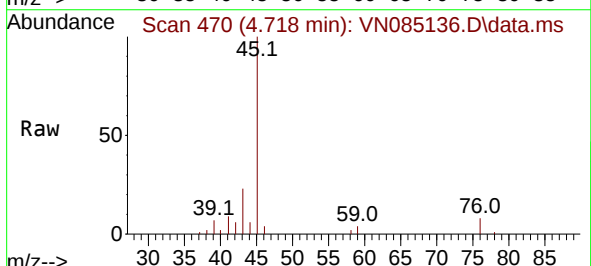
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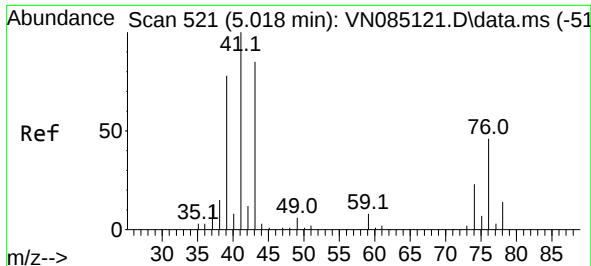
Tgt Ion: 76 Resp: 3878

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

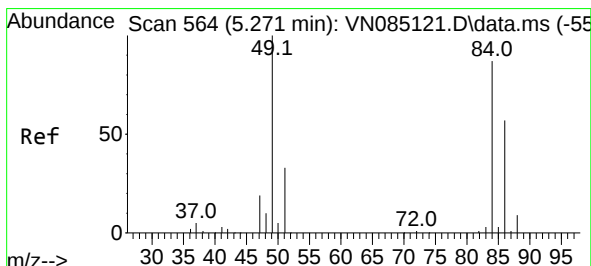
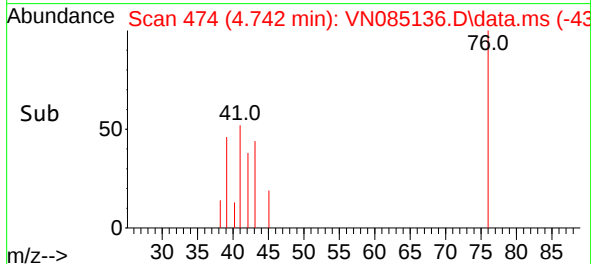
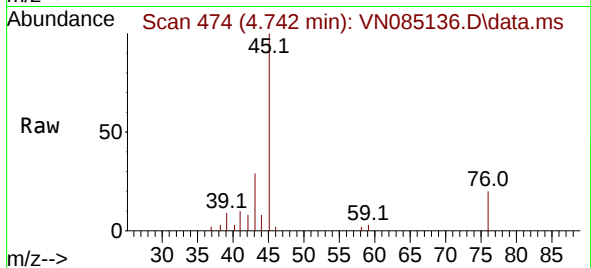




#17
 Allyl chloride
 Concen: 0.458 ug/l
 RT: 4.742 min Scan# 41
 Delta R.T. -0.282 min
 Lab File: VN085136.D
 Acq: 06 Dec 2024 18:51

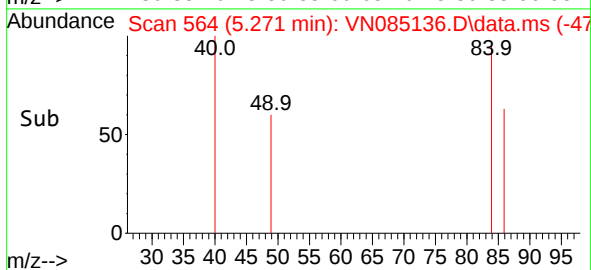
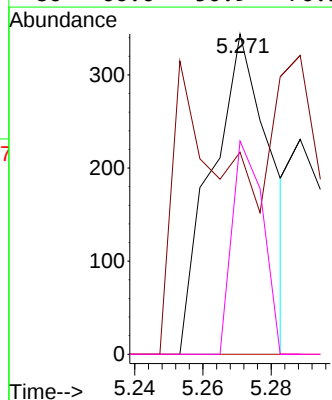
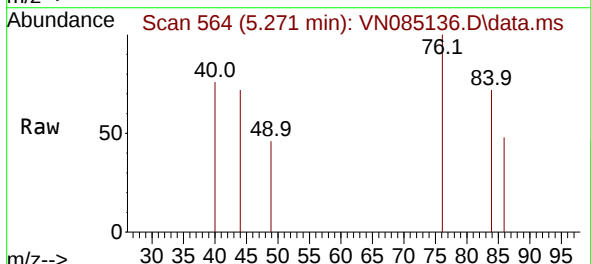
Instrument :
 MSVOA_N
 ClientSampleId :

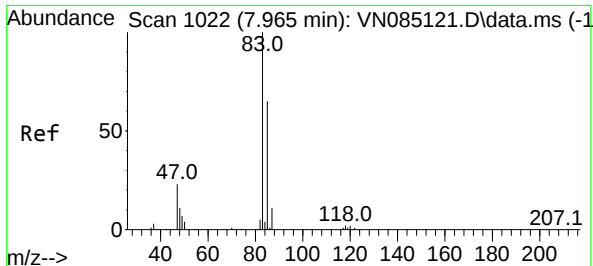
Tgt Ion: 41 Resp: 1111
 Ion Ratio Lower Upper
 41 100
 39 88.9 32.0 96.2
 76 0.0 20.2 60.5#



#18
 Methylene Chloride
 Concen: 0.215 ug/l
 RT: 5.271 min Scan# 564
 Delta R.T. -0.000 min
 Lab File: VN085136.D
 Acq: 06 Dec 2024 18:51

Tgt Ion: 84 Resp: 414
 Ion Ratio Lower Upper
 84 100
 49 0.0 95.1 142.7#
 51 0.0 27.4 41.0#
 86 66.6 50.9 76.3

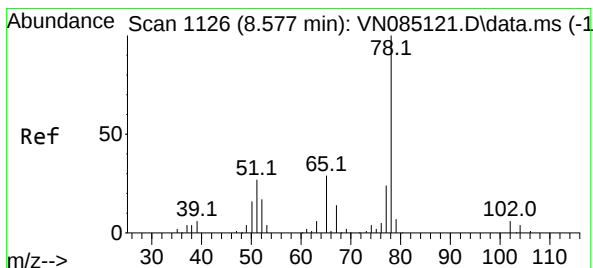
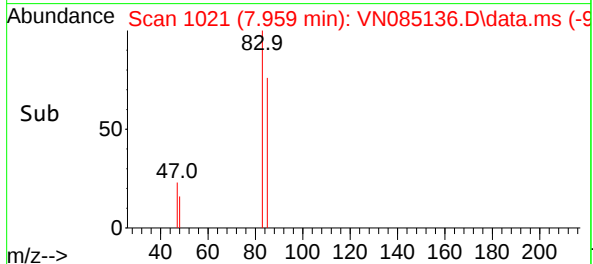
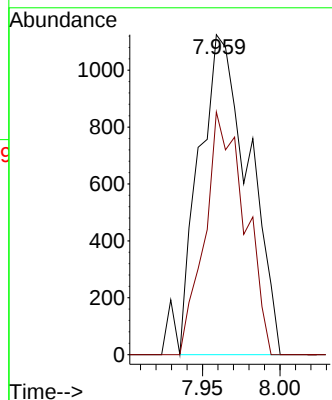
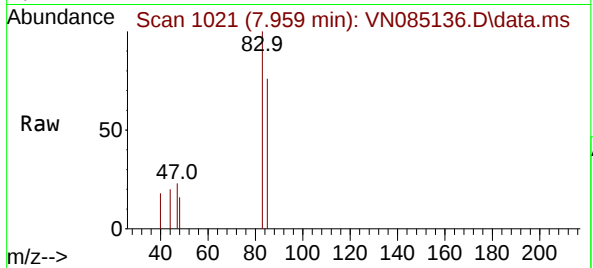




#25
Chloroform
Concen: 0.725 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

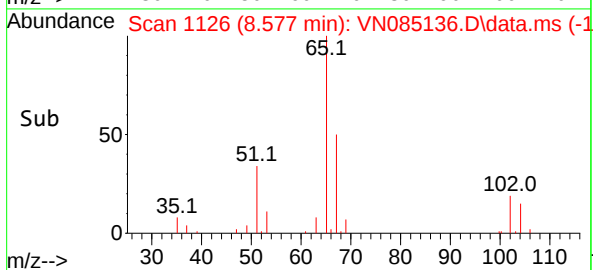
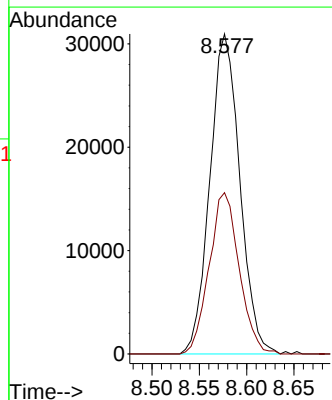
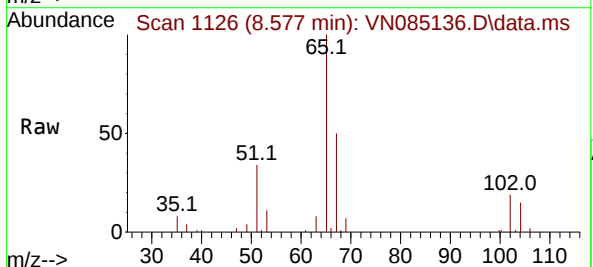
Instrument :
MSVOA_N
ClientSampleId :

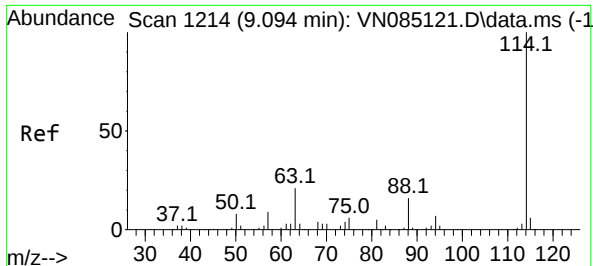
Tgt Ion: 83 Resp: 2493
Ion Ratio Lower Upper
83 100
85 75.8 49.4 74.0#



#27
1,2-Dichloroethane-d4
Concen: 30.830 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 65 Resp: 68066
Ion Ratio Lower Upper
65 100
67 50.5 39.9 59.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. -0.000 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

Instrument :

MSVOA_N

ClientSampleId :

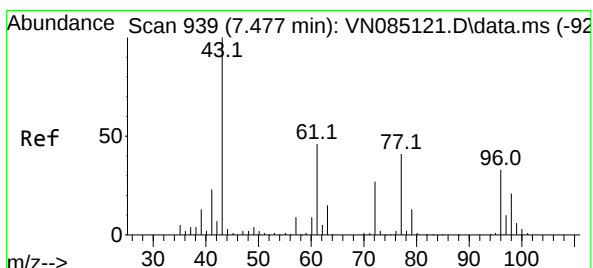
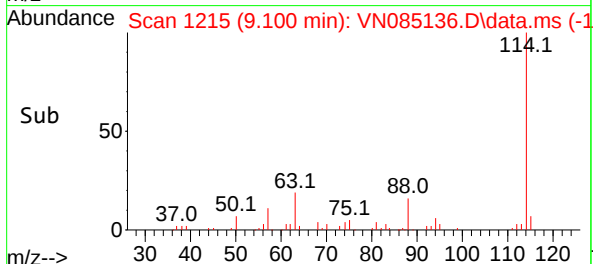
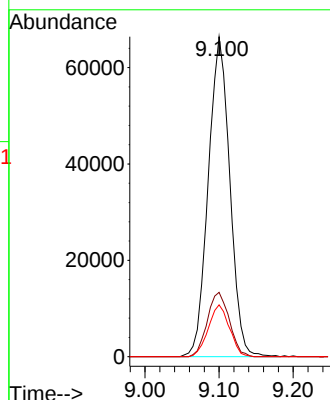
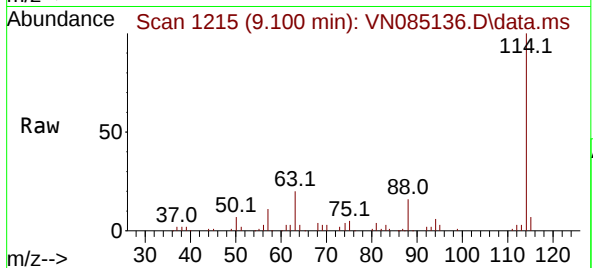
Tgt Ion:114 Resp: 134160

Ion Ratio Lower Upper

114 100

63 20.5 16.2 24.2

88 15.8 12.5 18.7



#30

2-Butanone

Concen: 12.806 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

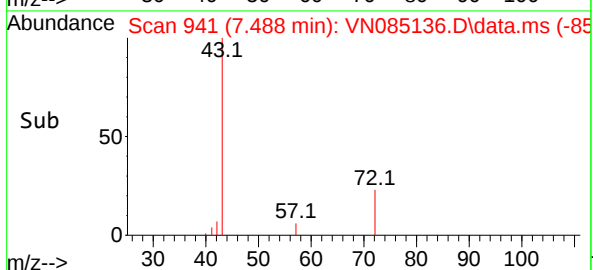
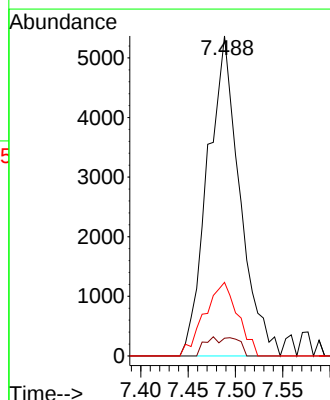
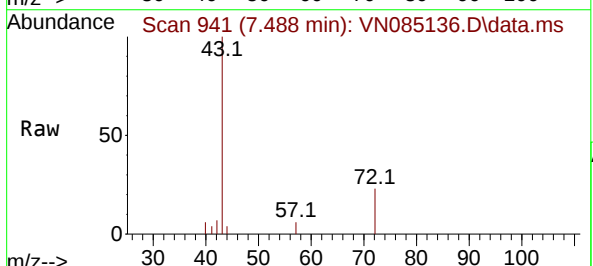
Tgt Ion: 43 Resp: 12722

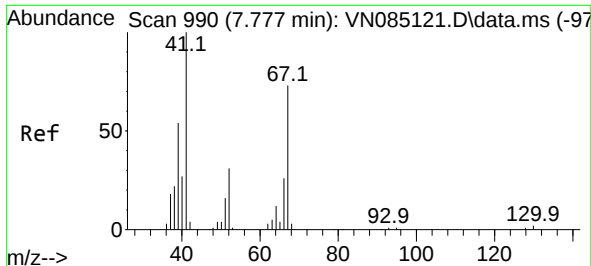
Ion Ratio Lower Upper

43 100

57 3.1 6.9 10.3#

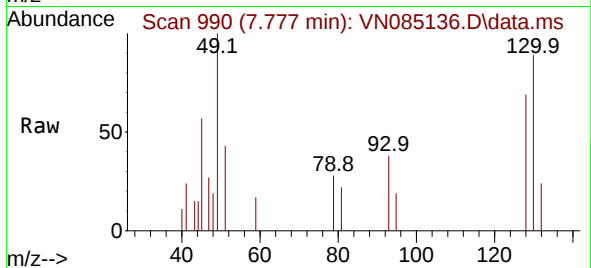
72 23.7 21.8 32.8



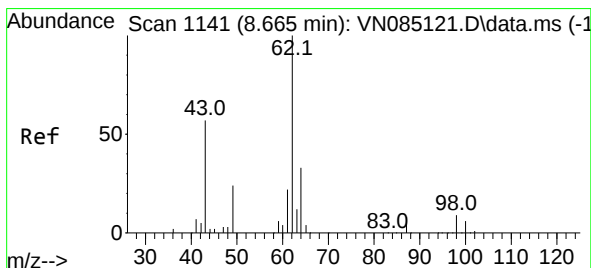
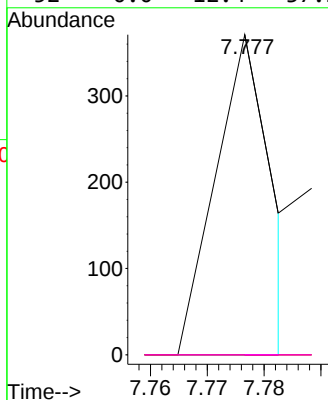
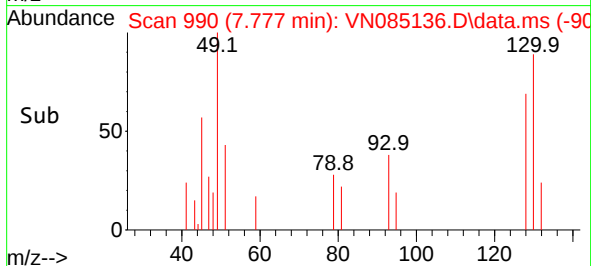


#35
Methacrylonitrile
Concen: 0.227 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Instrument :
MSVOA_N
ClientSampleId :

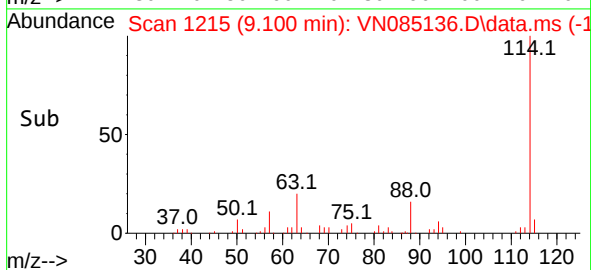
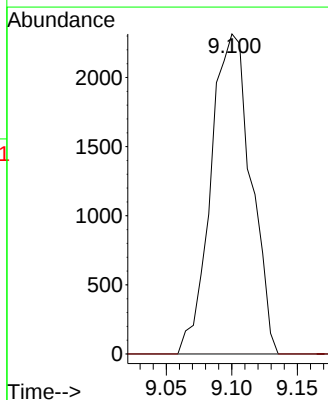
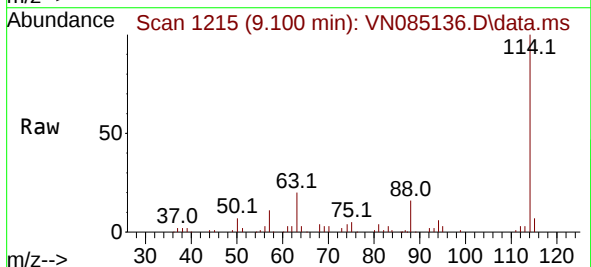


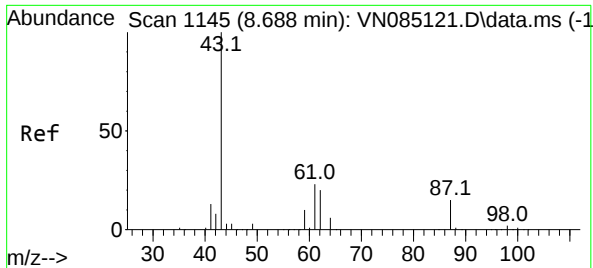
Tgt Ion: 41	Resp: 254
Ion Ratio	Lower Upper
41 100	
39 0.0	24.4 73.2#
67 0.0	37.0 110.9#
52 0.0	12.4 37.2#



#36
1,2-Dichloroethane
Concen: 2.132 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.435 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 62	Resp: 4936
Ion Ratio	Lower Upper
62 100	
98 0.0	7.3 10.9#

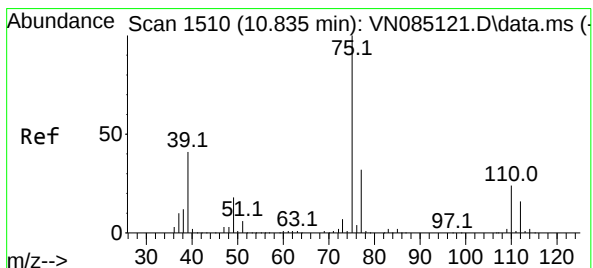
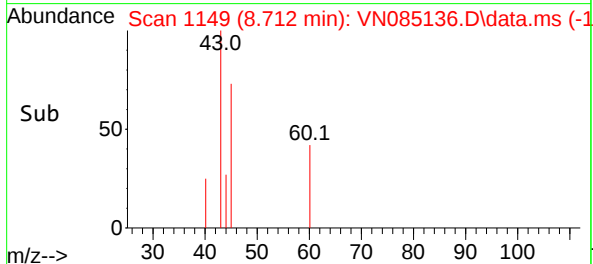
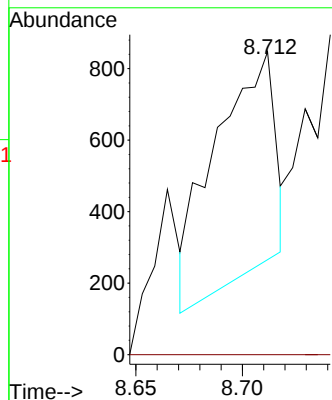
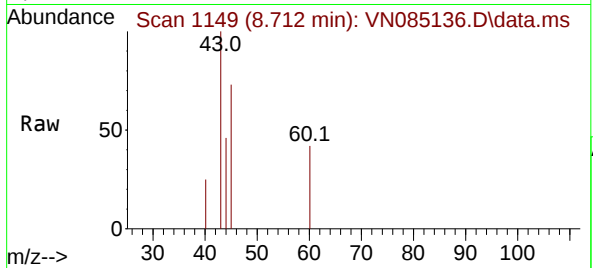




#44
Isopropyl Acetate
Concen: 0.354 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.024 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

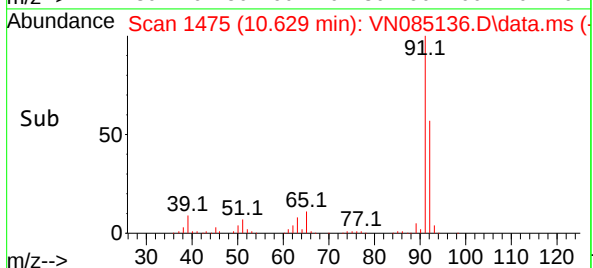
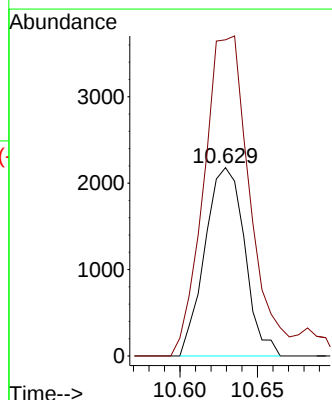
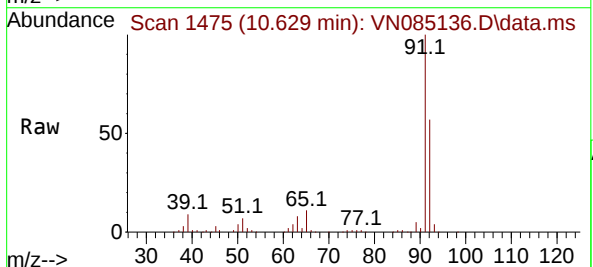
Instrument :
MSVOA_N
ClientSampleId :

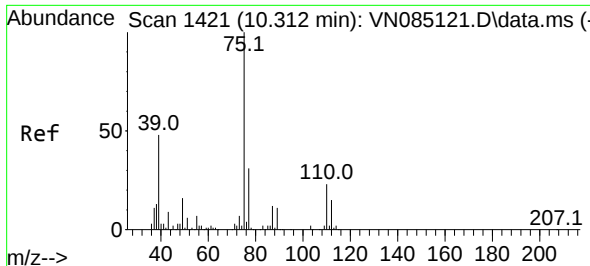
Tgt Ion: 43 Resp: 1217
Ion Ratio Lower Upper
43 100
61 0.0 21.5 32.3#



#48
t-1,3-Dichloropropene
Concen: 1.570 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

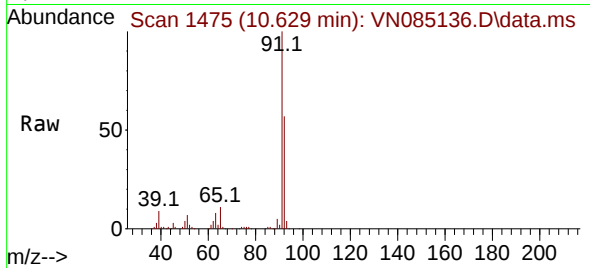
Tgt Ion: 75 Resp: 3894
Ion Ratio Lower Upper
75 100
77 158.3 25.5 38.3#



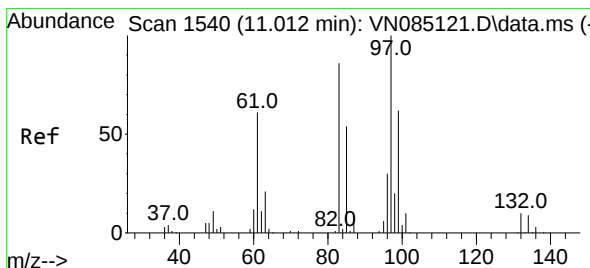
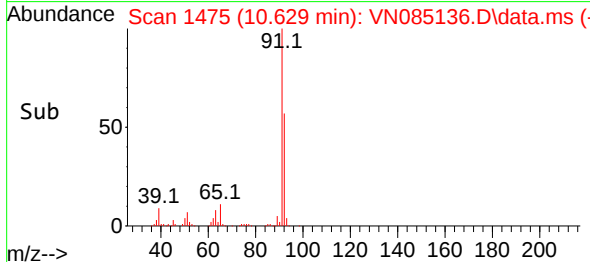
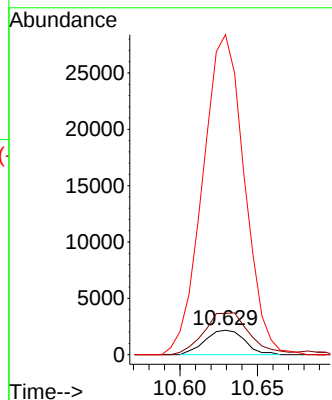


#49
 cis-1,3-Dichloropropene
 Concen: 1.443 ug/l
 RT: 10.629 min Scan# 1421
 Delta R.T. 0.318 min
 Lab File: VN085136.D
 Acq: 06 Dec 2024 18:51

Instrument :
 MSVOA_N
 ClientSampleId :

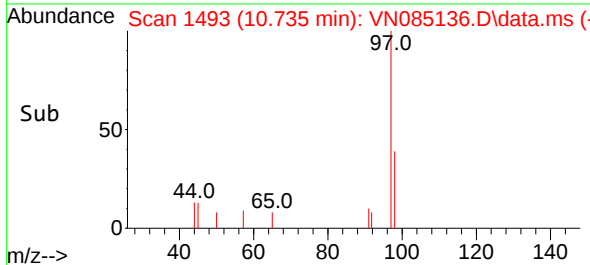
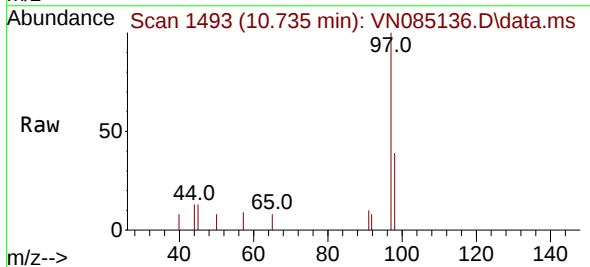
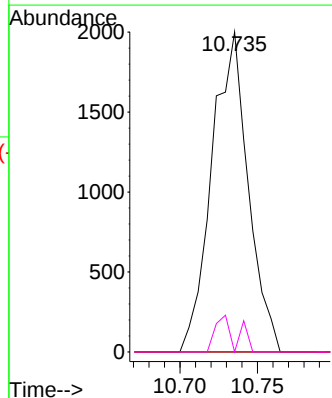


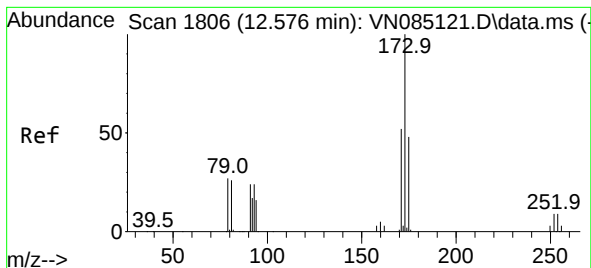
Tgt Ion: 75 Resp: 3894
 Ion Ratio Lower Upper
 75 100
 77 158.3 23.8 35.6#
 39 1284.4 37.3 55.9#



#50
 1,1,2-Trichloroethane
 Concen: 2.050 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.276 min
 Lab File: VN085136.D
 Acq: 06 Dec 2024 18:51

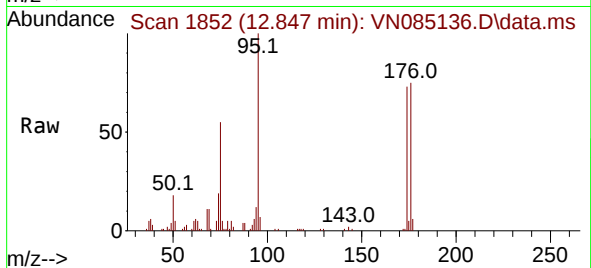
Tgt Ion: 97 Resp: 3264
 Ion Ratio Lower Upper
 97 100
 83 0.0 65.8 98.8#
 85 0.0 40.8 61.2#
 99 0.0 44.0 66.0#



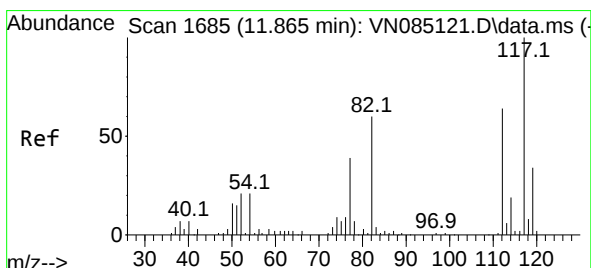
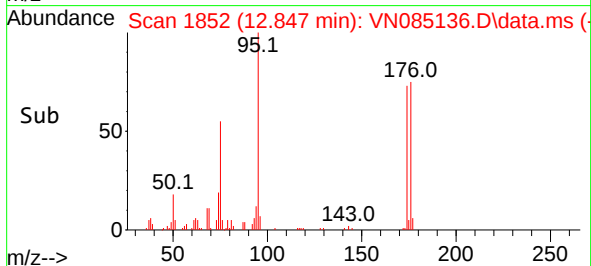
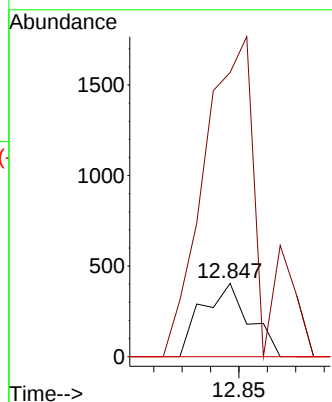


#56
Bromoform
Concen: 0.361 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Instrument :
MSVOA_N
ClientSampleId :

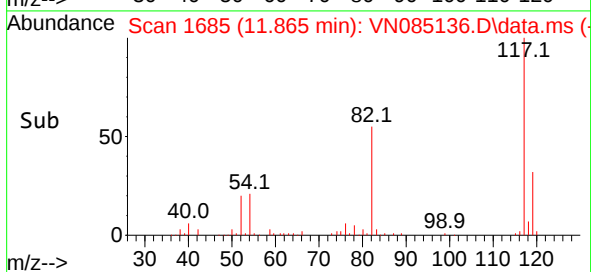
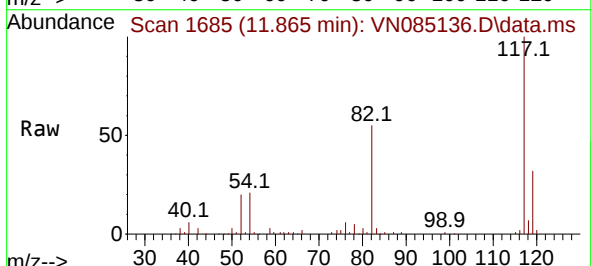
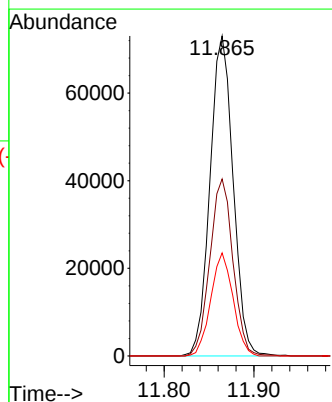


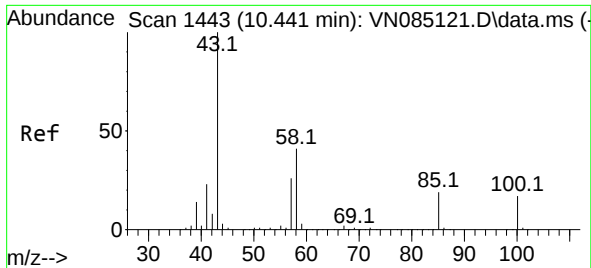
Tgt Ion:173 Resp: 469
Ion Ratio Lower Upper
173 100
175 440.5 40.2 60.2#
254 0.0 6.2 9.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

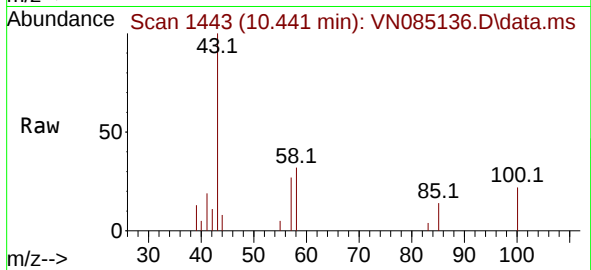
Tgt Ion:117 Resp: 130946
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.4
119 31.0 25.4 38.2



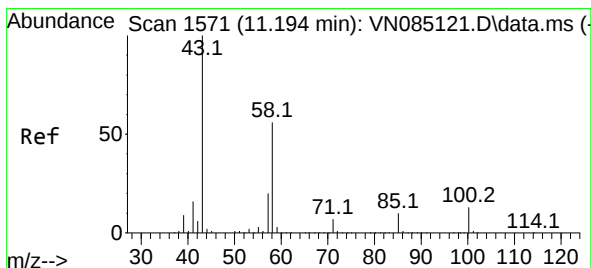
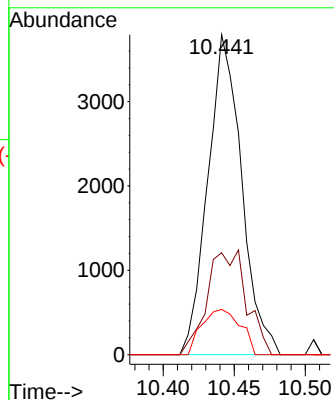
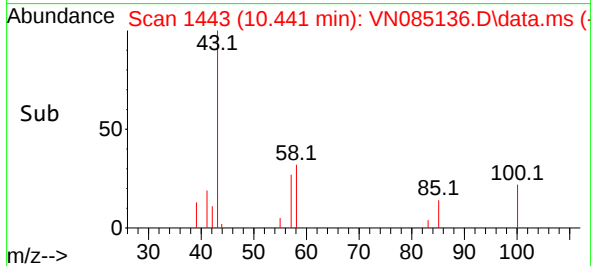


#58
4-Methyl-2-Pentanone
Concen: 2.932 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Instrument :
MSVOA_N
ClientSampleId :

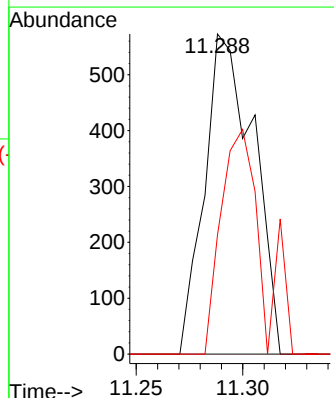
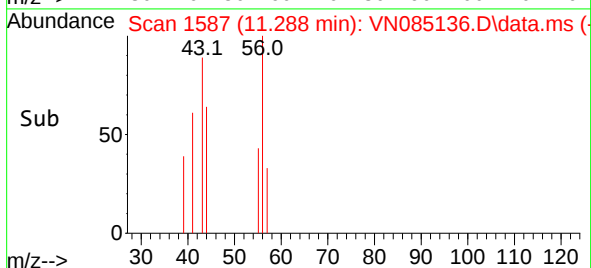
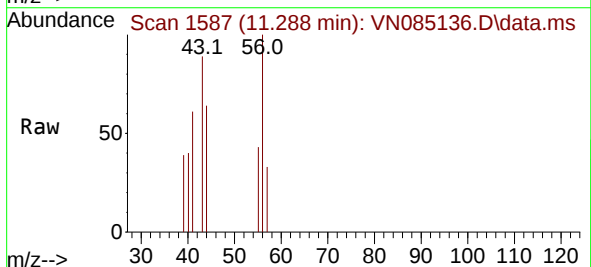


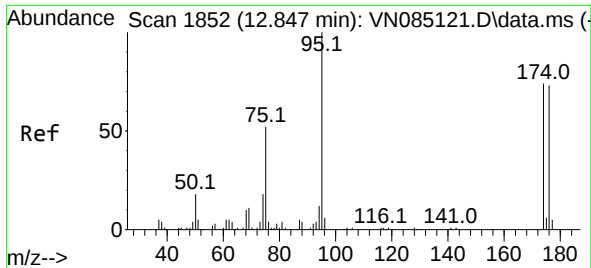
Tgt Ion: 43 Resp: 6266
Ion Ratio Lower Upper
43 100
58 24.4 31.6 47.4#
85 16.2 15.0 22.6



#59
2-Hexanone
Concen: 0.564 ug/l
RT: 11.288 min Scan# 1587
Delta R.T. 0.094 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
58 0.0 43.6 65.4#
57 49.0 15.4 23.0#

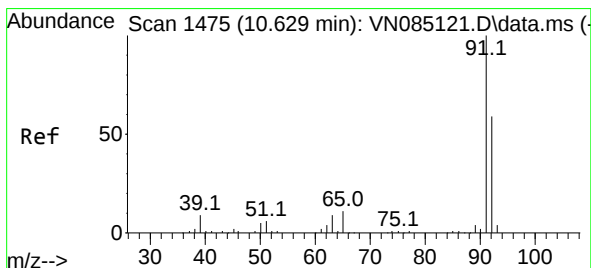
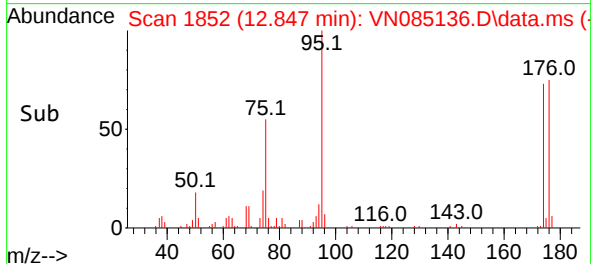
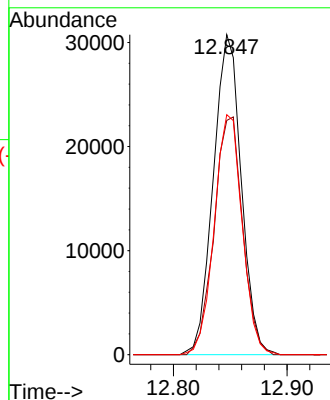
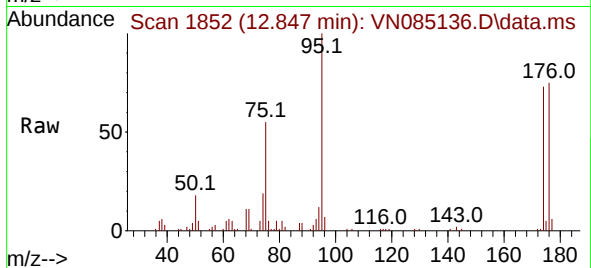




#60
4-Bromofluorobenzene
Concen: 24.252 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

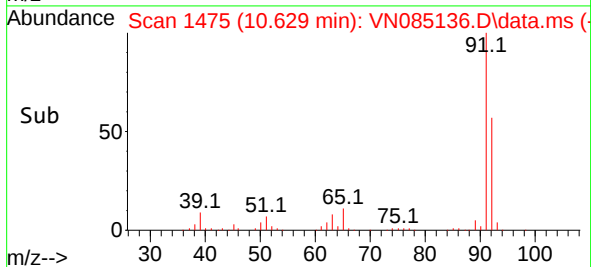
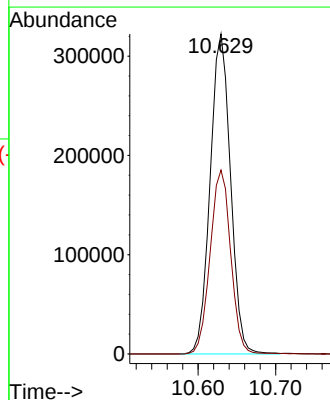
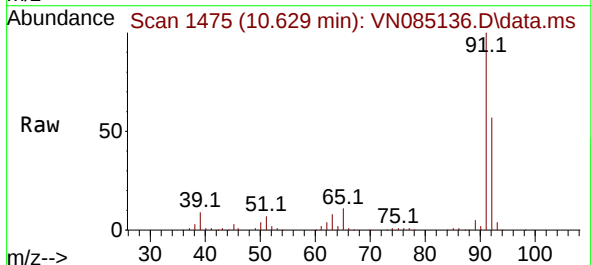
Instrument :
MSVOA_N
ClientSampleId :

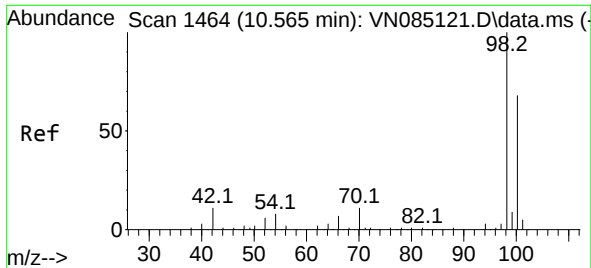
Tgt Ion: 95 Resp: 52545
Ion Ratio Lower Upper
95 100
174 75.8 60.3 90.5
176 74.9 57.4 86.0



#62
Toluene
Concen: 77.148 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 91 Resp: 589161
Ion Ratio Lower Upper
91 100
92 57.9 46.5 69.7

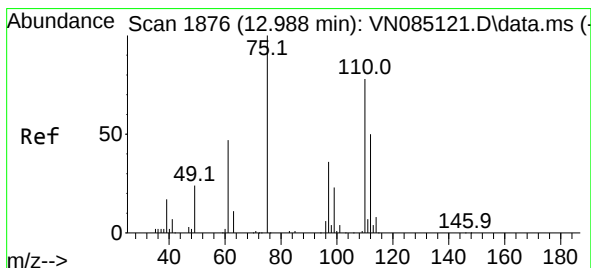
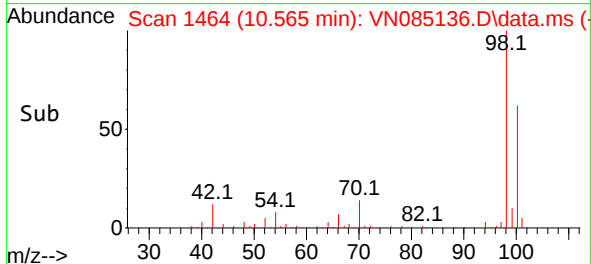
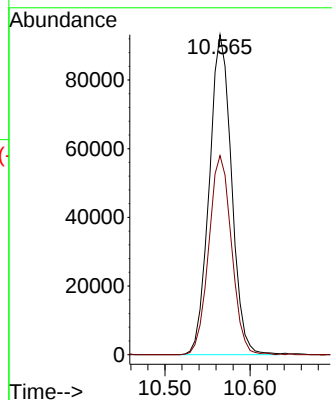
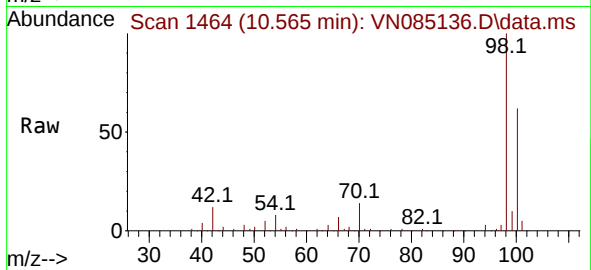




#63
Toluene-d8
Concen: 27.587 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

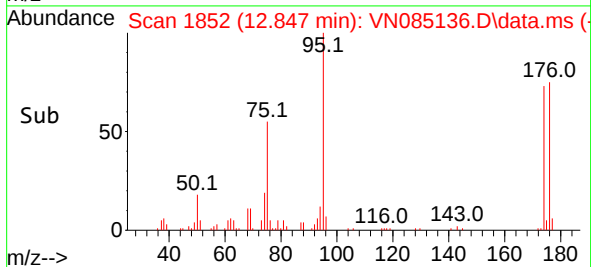
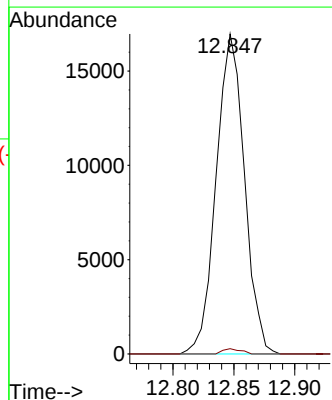
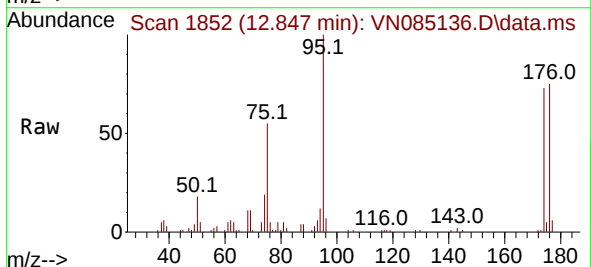
Instrument :
MSVOA_N
ClientSampleId :

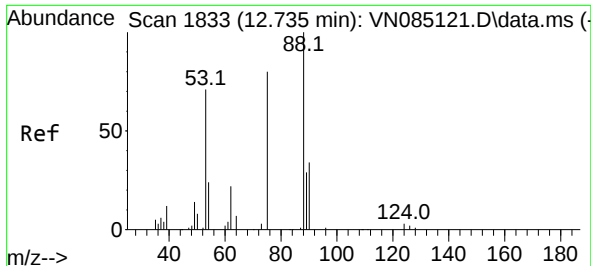
Tgt Ion: 98 Resp: 169452
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



#72
1,2,3-Trichloropropane
Concen: 12.068 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085136.D
Acq: 06 Dec 2024 18:51

Tgt Ion: 75 Resp: 27394
Ion Ratio Lower Upper
75 100
77 1.1 0.0 339.0





#77

t-1,4-Dichloro-2-butene

Concen: 33.211 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

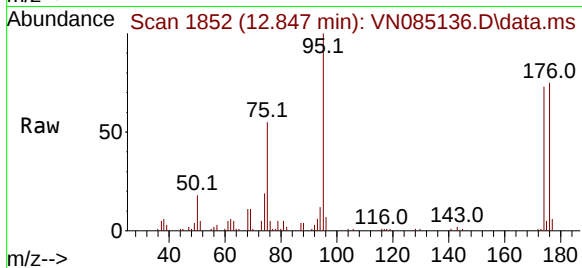
Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

Instrument :

MSVOA_N

ClientSampleId :



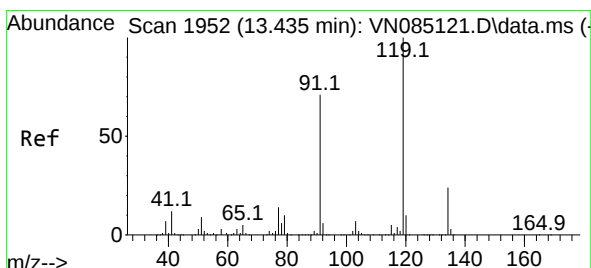
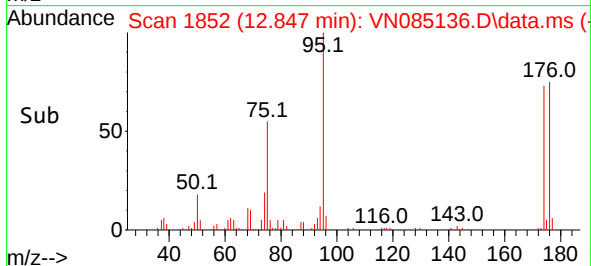
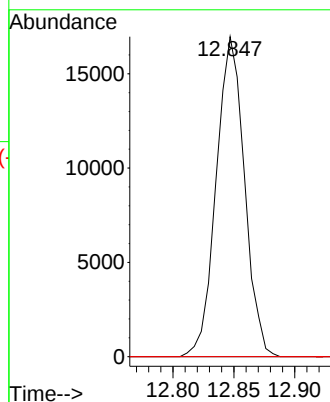
Tgt Ion: 75 Resp: 27394

Ion Ratio Lower Upper

75 100

53 0.0 49.1 147.3#

89 0.0 22.9 68.5#



#79

tert-butylbenzene

Concen: 1.842 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

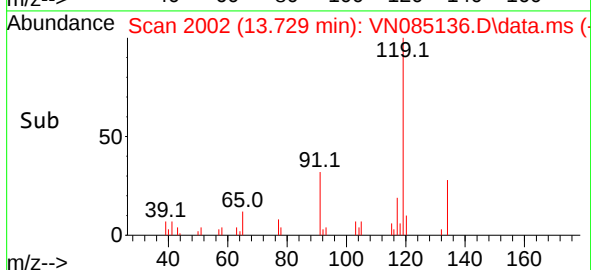
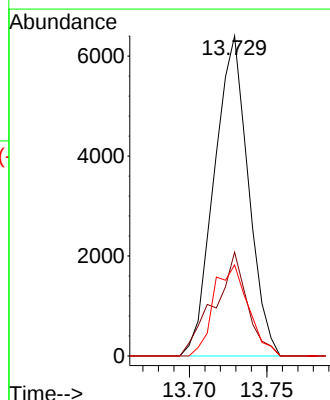
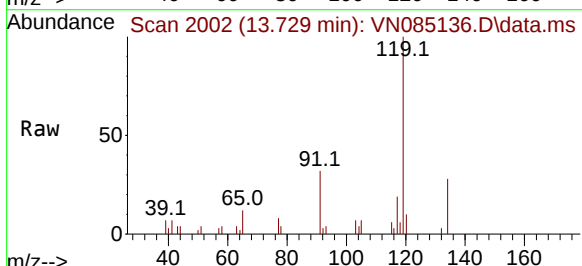
Tgt Ion: 119 Resp: 9787

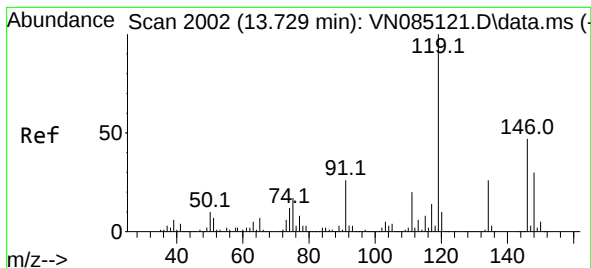
Ion Ratio Lower Upper

119 100

91 31.6 0.0 139.2

134 28.9 0.0 48.0





#82

p-Isopropyltoluene

Concen: 1.564 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

Instrument :

MSVOA_N

ClientSampleId :

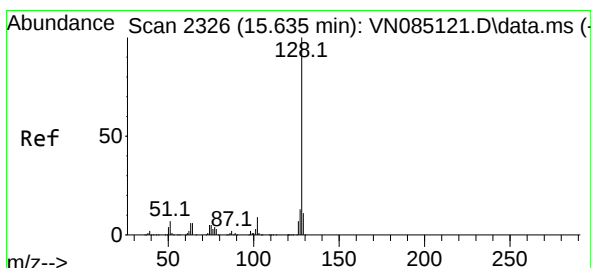
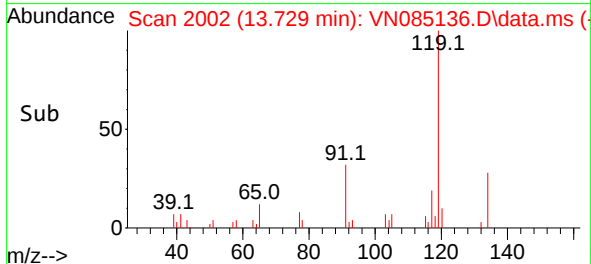
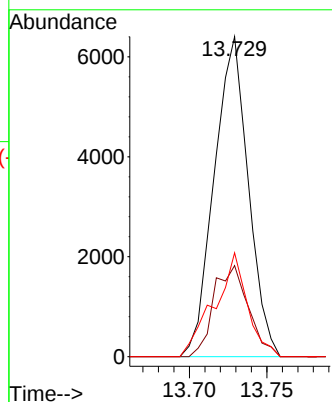
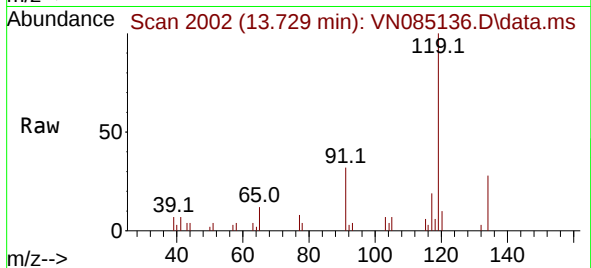
Tgt Ion:119 Resp: 9787

Ion Ratio Lower Upper

119 100

134 28.9 0.0 51.6

91 31.6 0.0 50.4



#91

Naphthalene

Concen: 0.252 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085136.D

Acq: 06 Dec 2024 18:51

Tgt Ion:128 Resp: 1256

Ion Ratio Lower Upper

128 100

127 0.0 11.0 16.4#

129 0.0 8.7 13.1#

