

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087444.D
 Acq On : 30 Jul 2025 14:49
 Operator : JC\MD
 Sample : Q2730-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave(july)

Quant Time: Jul 31 01:15:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

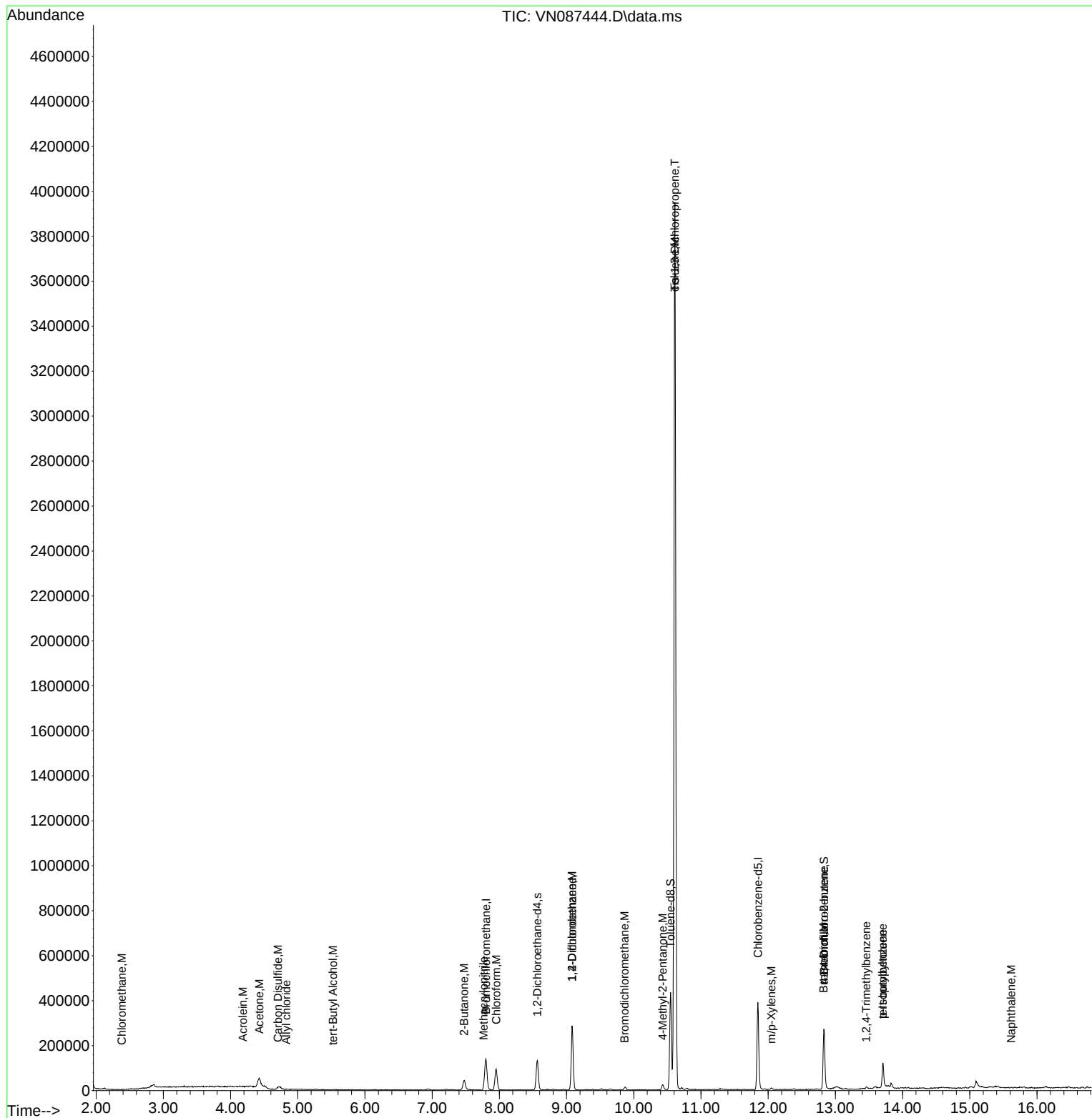
Internal Standards						
1) Bromochloromethane	7.800	128	40620	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	232160	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	207024	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	102919	33.134	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.433%#
60) 4-Bromofluorobenzene	12.829	95	91549	26.929	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.767%
63) Toluene-d8	10.547	98	290430	30.548	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.833%
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1199	0.477	ug/l #	88
13) Acrolein	4.183	56	1276	4.129	ug/l	83
15) Acetone	4.430	58	18619	48.895	ug/l	94
16) Carbon Disulfide	4.706	76	2713	0.439	ug/l #	77
17) Allyl chloride	4.830	41	947	0.234	ug/l	83
23) tert-Butyl Alcohol	5.524	59	402	0.631	ug/l #	100
25) Chloroform	7.953	83	86926	18.441	ug/l	92
30) 2-Butanone	7.477	43	71094	29.774	ug/l	98
35) Methacrylonitrile	7.765	41	827	0.302	ug/l #	39
36) 1,2-Dichloroethane	9.082	62	9415	2.624	ug/l #	100
41) Bromodichloromethane	9.865	83	7944	2.050	ug/l #	80
49) cis-1,3-Dichloropropene	10.612	75	20406	4.455	ug/l #	1
56) Bromoform	12.823	173	503	0.244	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	18700	4.010	ug/l #	93
62) Toluene	10.612	91	2904212	248.572	ug/l	99
67) m/p-Xylenes	12.047	106	1183	0.247	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	52411	33.129	ug/l #	14
79) tert-butylbenzene	13.706	119	61048	7.096	ug/l	64
80) 1,2,4-Trimethylbenzene	13.459	105	3760	0.381	ug/l	95
82) p-Isopropyltoluene	13.706	119	61048	5.886	ug/l	95
91) Naphthalene	15.617	128	3445	0.291	ug/l	96

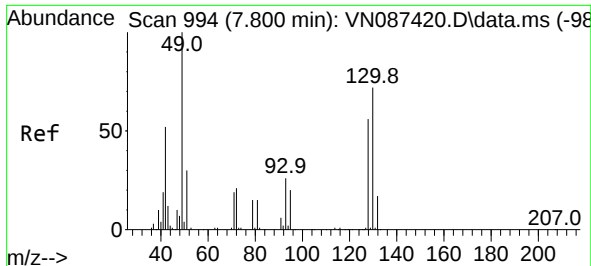
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jul 28 11:35:47 2025
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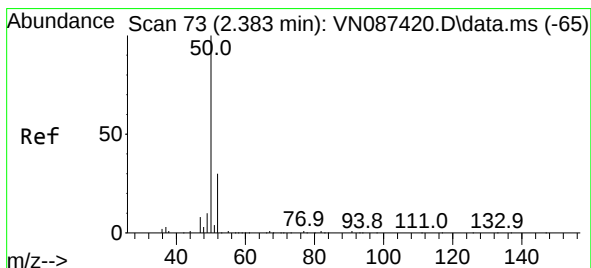
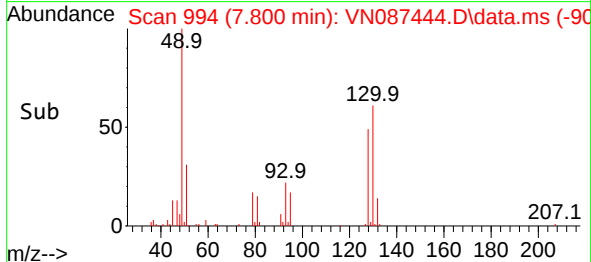
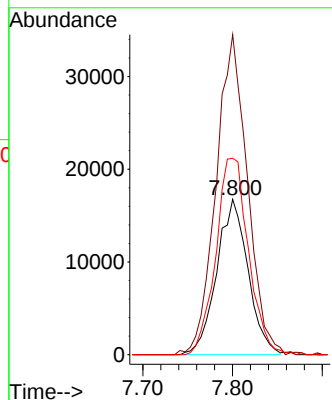
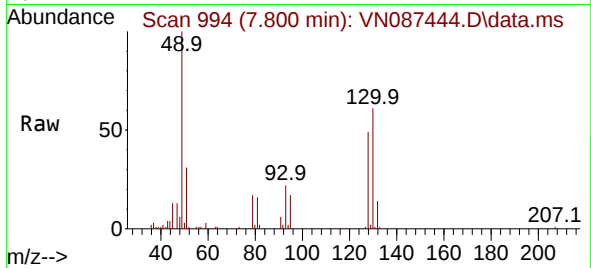




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

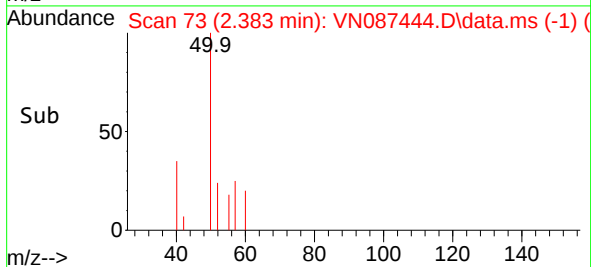
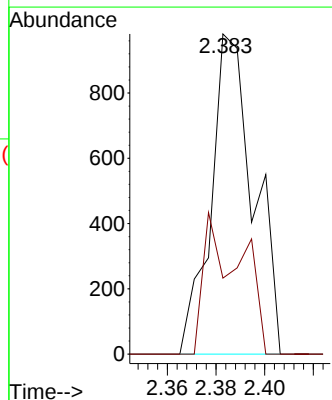
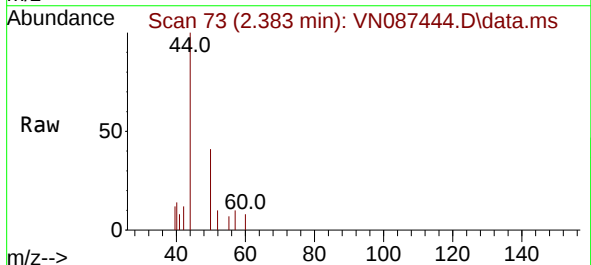
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

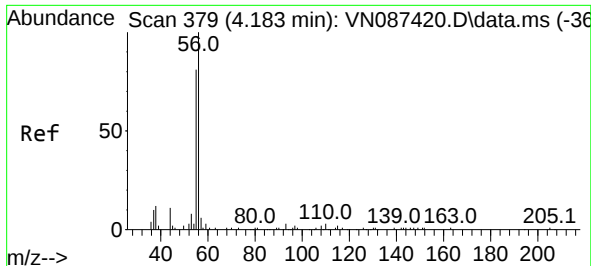
Tgt Ion:128 Resp: 40620
Ion Ratio Lower Upper
128 100
49 206.1 0.0 457.3
130 131.8 0.0 316.0



#3
Chloromethane
Concen: 0.477 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 50 Resp: 1199
Ion Ratio Lower Upper
50 100
52 23.8 24.3 36.5#

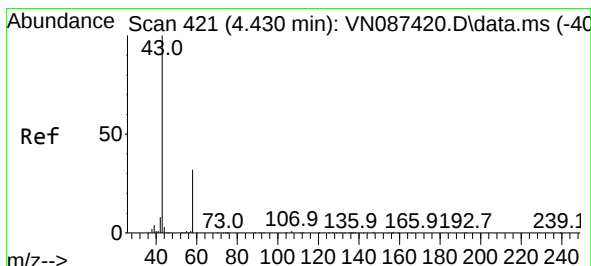
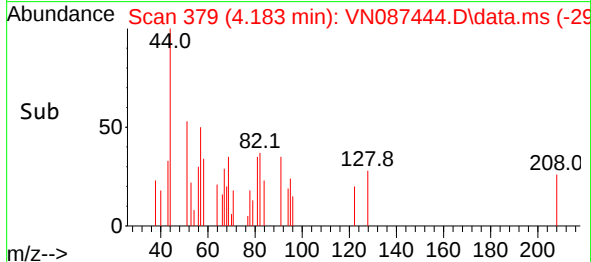
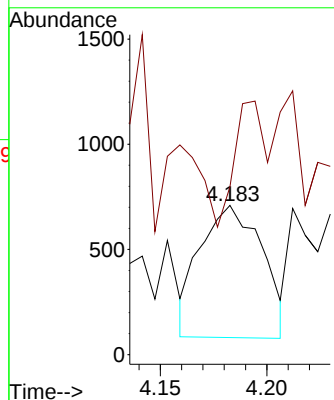
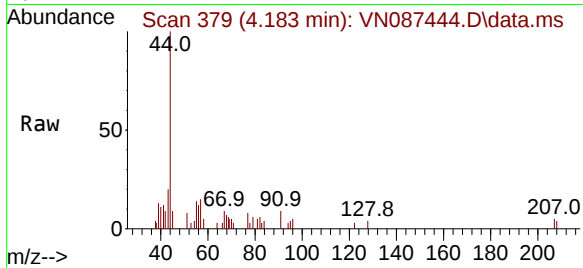




#13
Acrolein
Concen: 4.129 ug/l
RT: 4.183 min Scan# 379
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

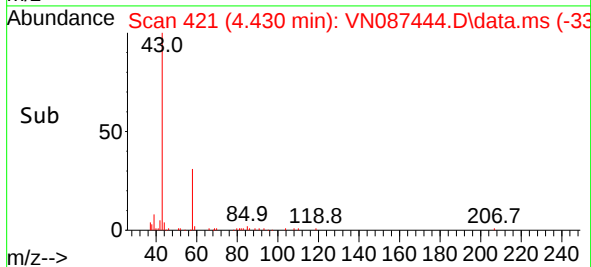
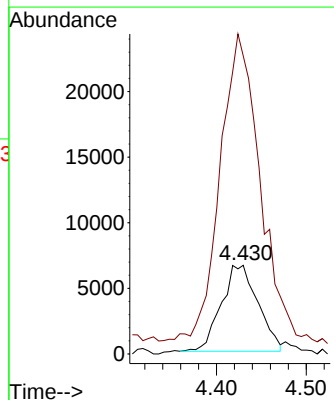
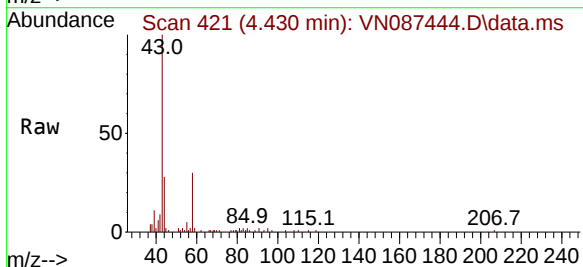
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

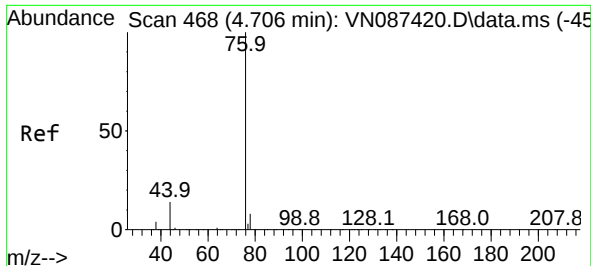
Tgt Ion: 56 Resp: 1276
Ion Ratio Lower Upper
56 100
55 59.6 58.9 88.3



#15
Acetone
Concen: 48.895 ug/l
RT: 4.430 min Scan# 421
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 58 Resp: 18619
Ion Ratio Lower Upper
58 100
43 323.5 248.4 372.6

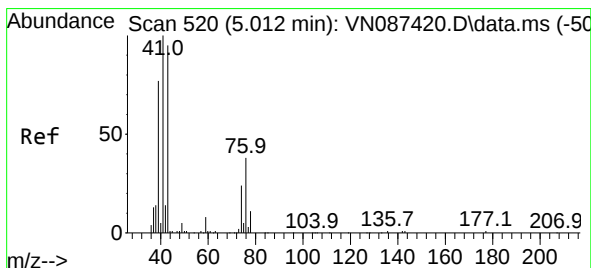
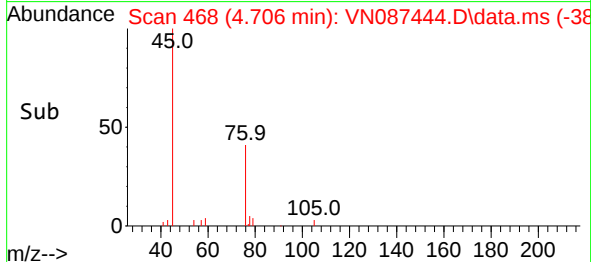
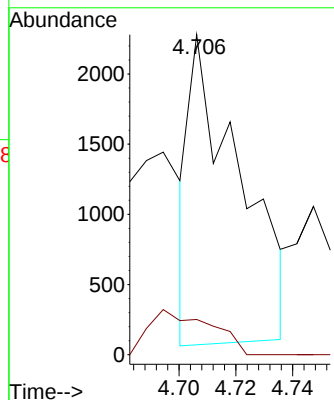
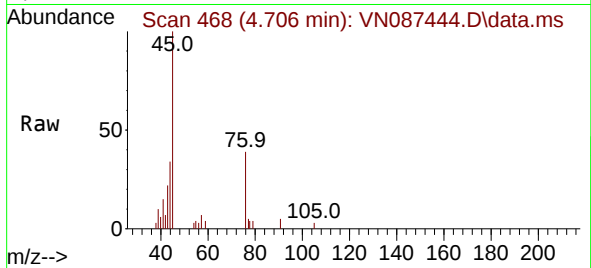




#16
Carbon Disulfide
Concen: 0.439 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

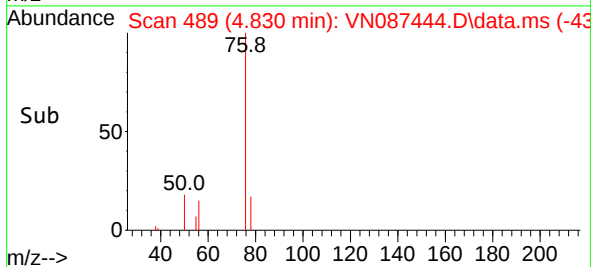
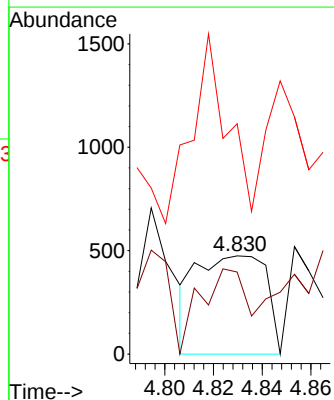
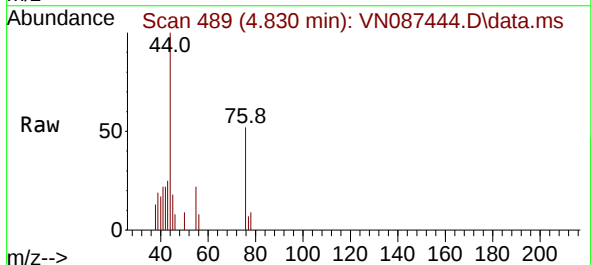
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

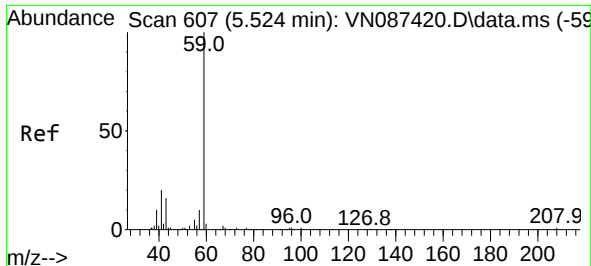
Tgt Ion: 76 Resp: 2713
Ion Ratio Lower Upper
76 100
78 16.4 6.6 10.0#



#17
Allyl chloride
Concen: 0.234 ug/l
RT: 4.830 min Scan# 489
Delta R.T. -0.182 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 41 Resp: 947
Ion Ratio Lower Upper
41 100
39 83.6 35.9 107.8
76 21.7 17.5 52.5

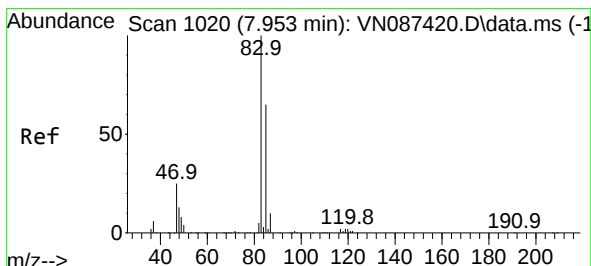
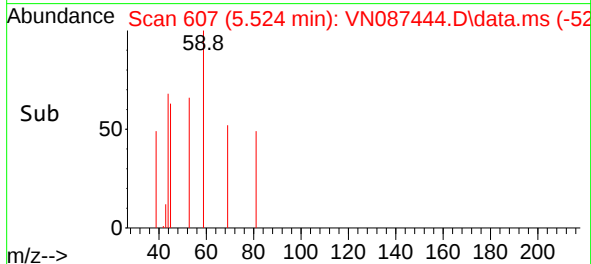
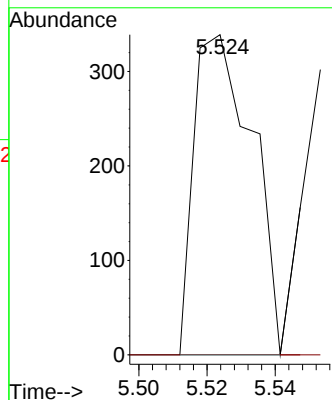
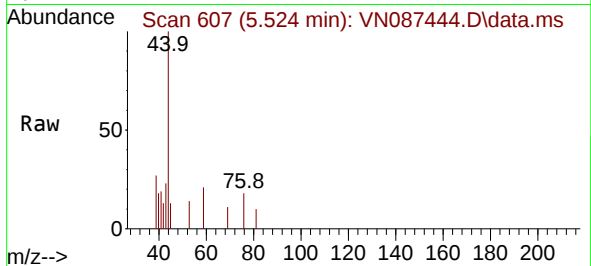




#23
tert-Butyl Alcohol
Concen: 0.631 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

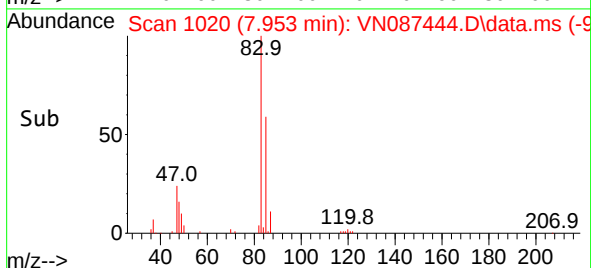
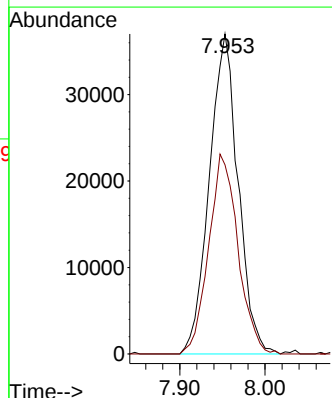
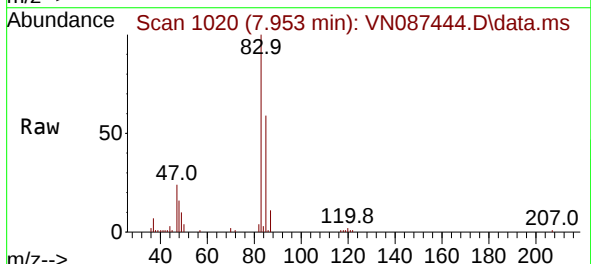
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

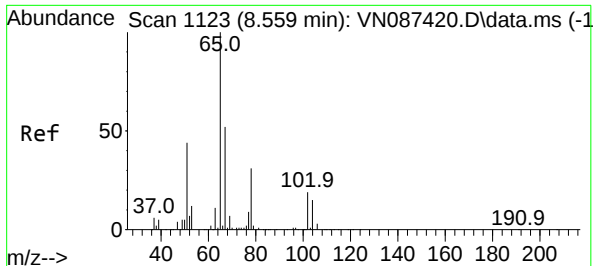
Tgt Ion: 59 Resp: 402
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 18.441 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 83 Resp: 86926
Ion Ratio Lower Upper
83 100
85 59.1 52.0 78.0





#27

1,2-Dichloroethane-d4

Concen: 33.134 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

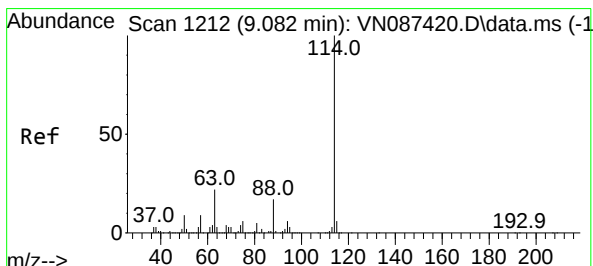
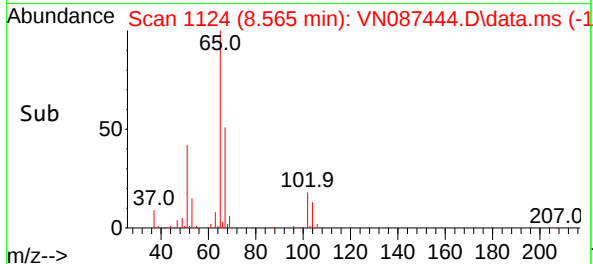
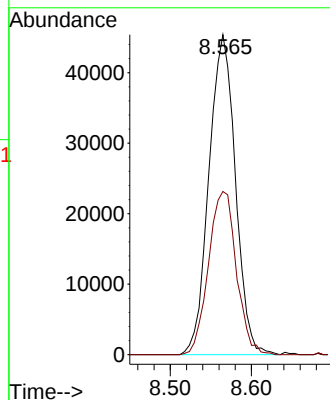
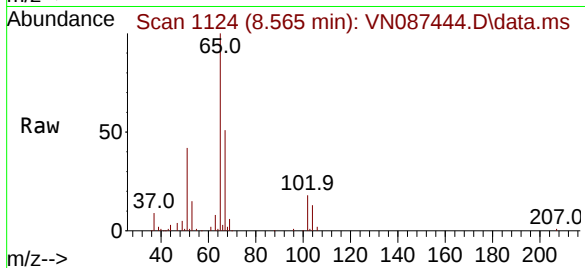
002 35th Ave(july)

Tgt Ion: 65 Resp: 102919

Ion Ratio Lower Upper

65 100

67 53.6 42.3 63.5



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

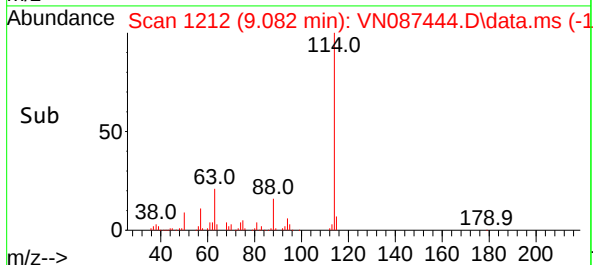
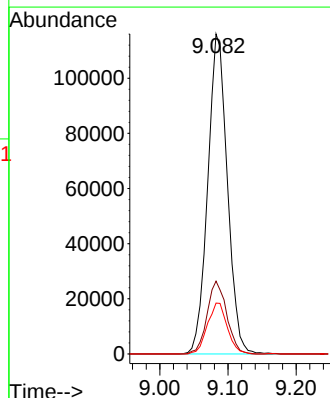
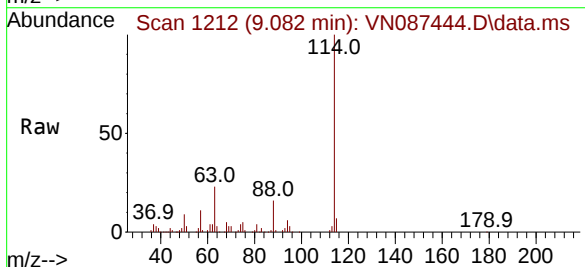
Tgt Ion: 114 Resp: 232160

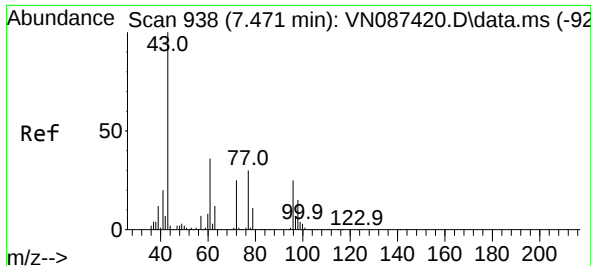
Ion Ratio Lower Upper

114 100

63 22.8 17.8 26.6

88 16.1 13.0 19.4

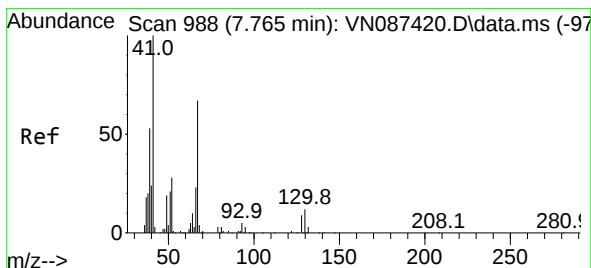
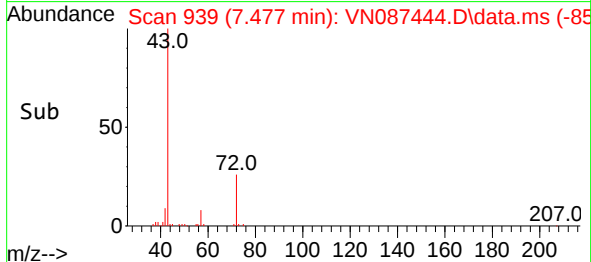
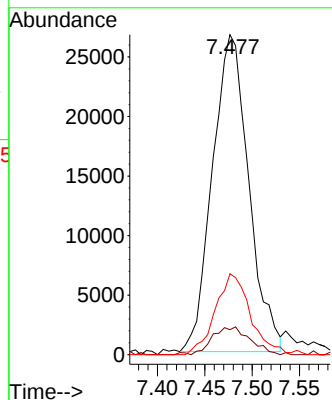
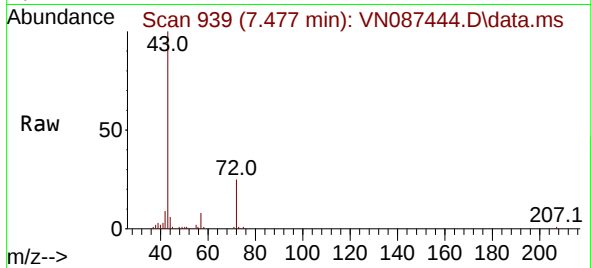




#30
2-Butanone
Concen: 29.774 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

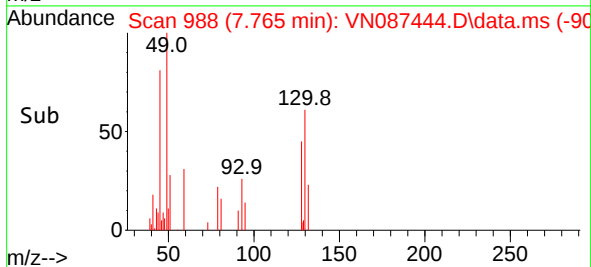
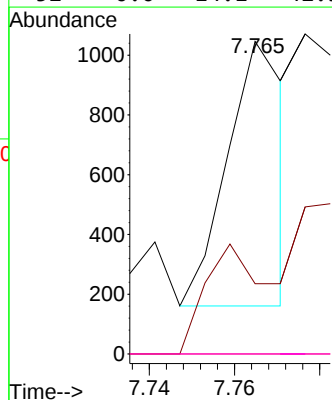
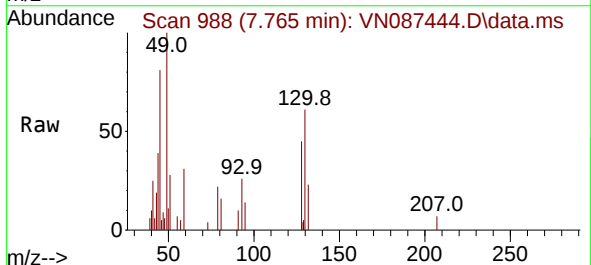
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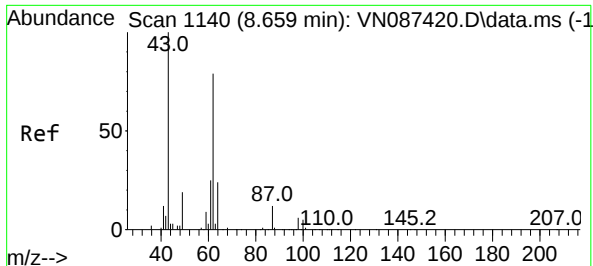
Tgt Ion: 43 Resp: 71094
Ion Ratio Lower Upper
43 100
57 9.0 6.0 9.0
72 24.5 20.3 30.5



#35
Methacrylonitrile
Concen: 0.302 ug/l
RT: 7.765 min Scan# 988
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 41 Resp: 827
Ion Ratio Lower Upper
41 100
39 26.6 26.7 80.1#
67 0.0 33.5 100.4#
52 0.0 14.1 42.3#





#36

1,2-Dichloroethane

Concen: 2.624 ug/l

RT: 9.082 min Scan# 1140

Delta R.T. 0.423 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

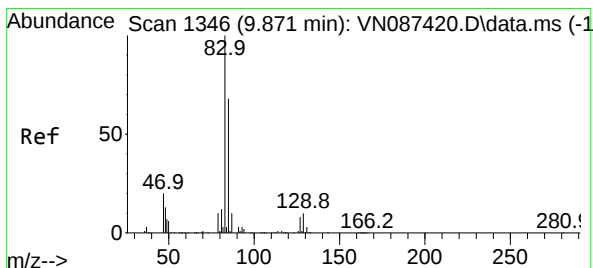
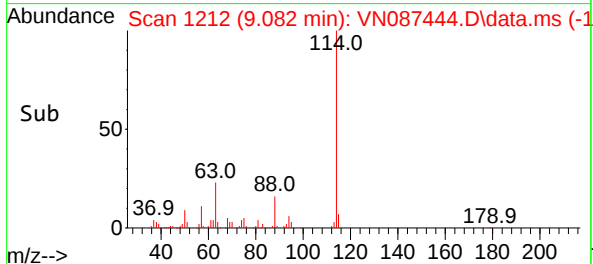
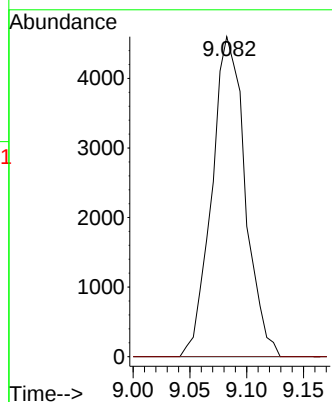
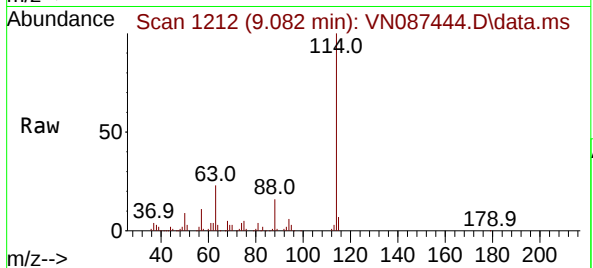
002 35th Ave(july)

Tgt Ion: 62 Resp: 9415

Ion Ratio Lower Upper

62 100

98 0.0 0.2 0.2#



#41

Bromodichloromethane

Concen: 2.050 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. -0.006 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

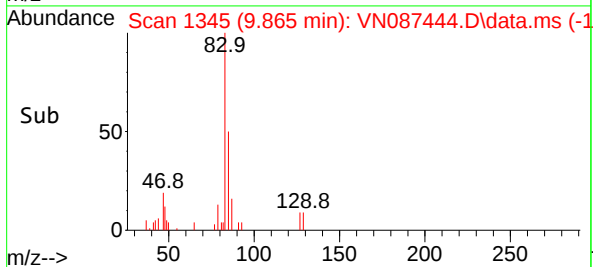
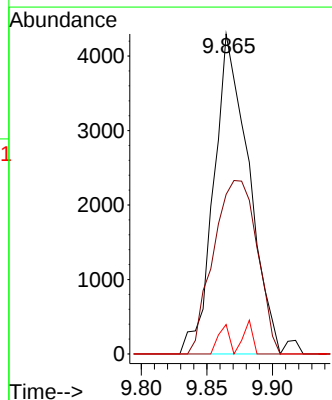
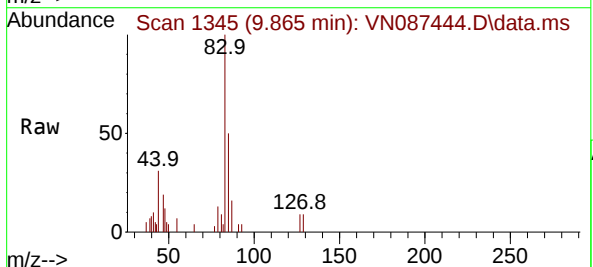
Tgt Ion: 83 Resp: 7944

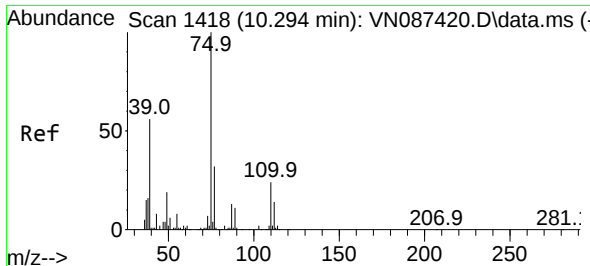
Ion Ratio Lower Upper

83 100

85 49.8 54.5 81.7#

127 9.2 6.6 10.0





#49

cis-1,3-Dichloropropene

Concen: 4.455 ug/l

RT: 10.612 min Scan# 1418

Delta R.T. 0.318 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(july)

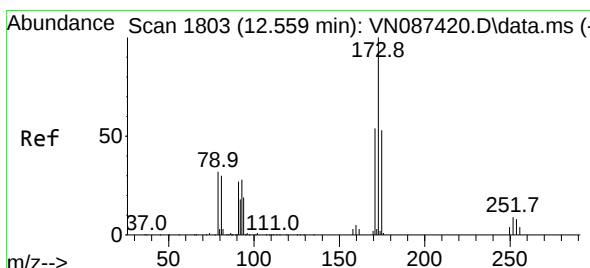
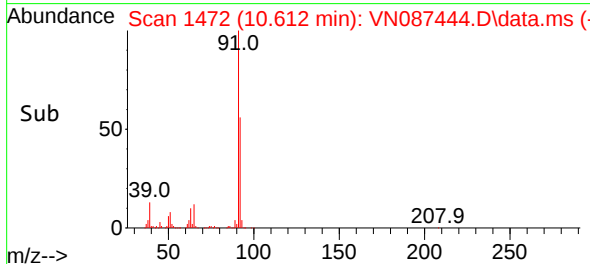
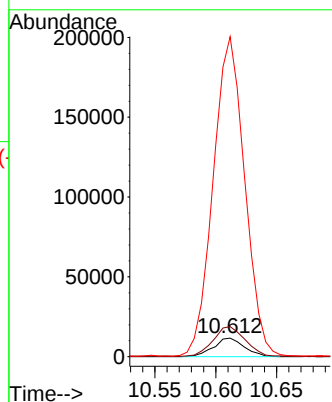
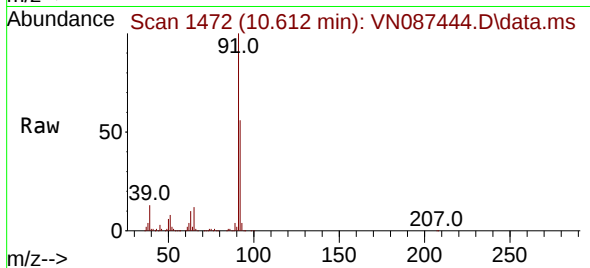
Tgt Ion: 75 Resp: 20406

Ion Ratio Lower Upper

75 100

77 160.2 26.1 39.1#

39 1722.1 45.0 67.4#



#56

Bromoform

Concen: 0.244 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. 0.265 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

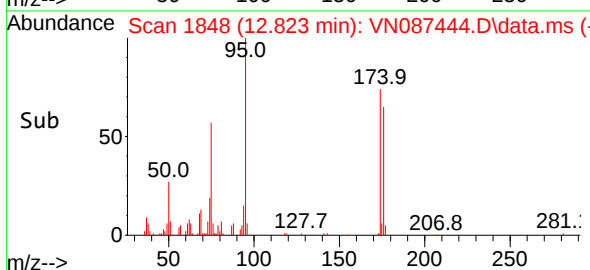
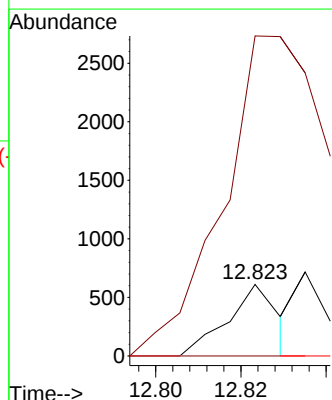
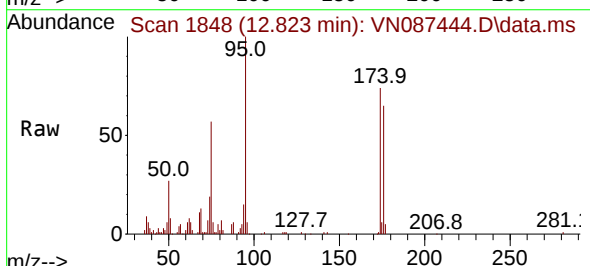
Tgt Ion: 173 Resp: 503

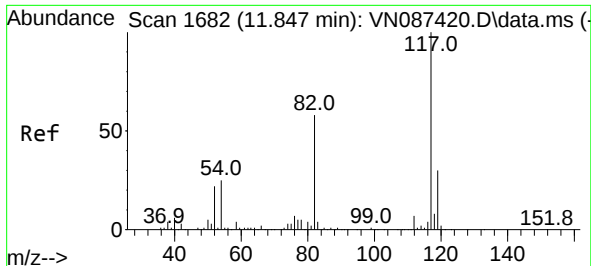
Ion Ratio Lower Upper

173 100

175 991.8 38.4 57.6#

254 0.0 6.4 9.6#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(july)

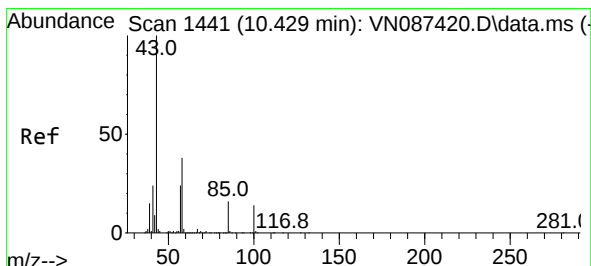
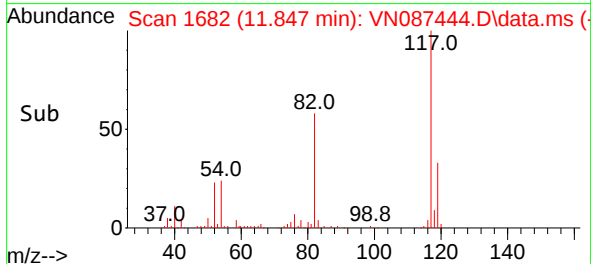
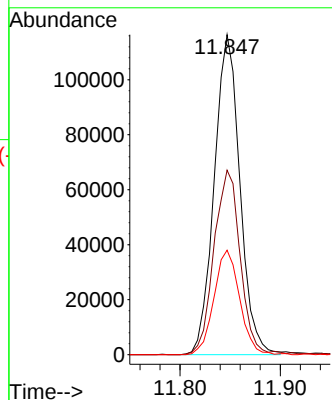
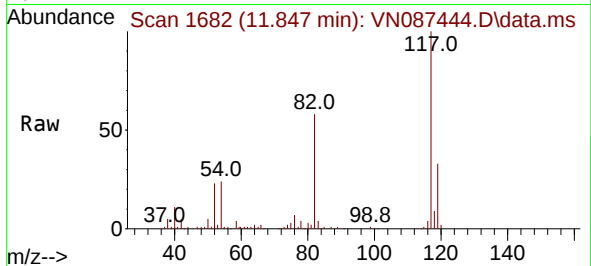
Tgt Ion:117 Resp: 207024

Ion Ratio Lower Upper

117 100

82 58.5 46.2 69.4

119 32.6 25.7 38.5



#58

4-Methyl-2-Pentanone

Concen: 4.010 ug/l

RT: 10.429 min Scan# 1441

Delta R.T. -0.000 min

Lab File: VN087444.D

Acq: 30 Jul 2025 14:49

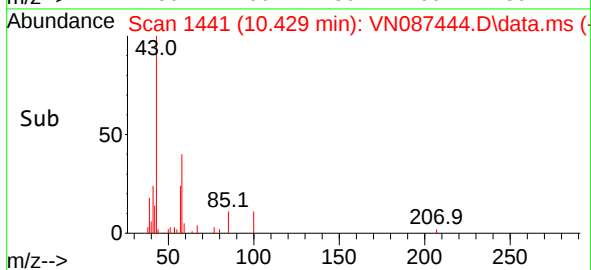
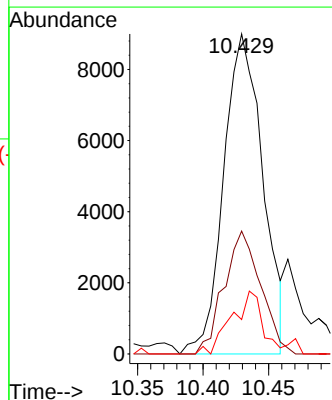
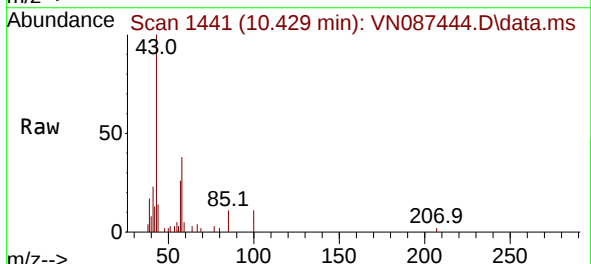
Tgt Ion: 43 Resp: 18700

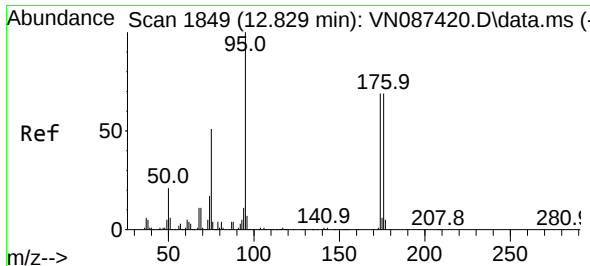
Ion Ratio Lower Upper

43 100

58 36.0 29.9 44.9

85 8.3 12.8 19.2#

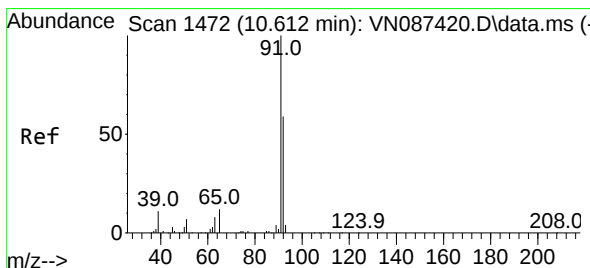
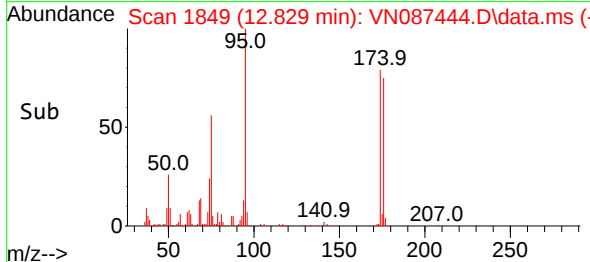
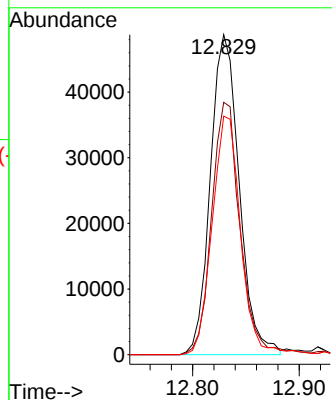
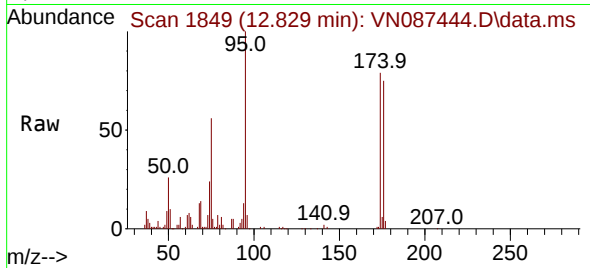




#60
4-Bromofluorobenzene
Concen: 26.929 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

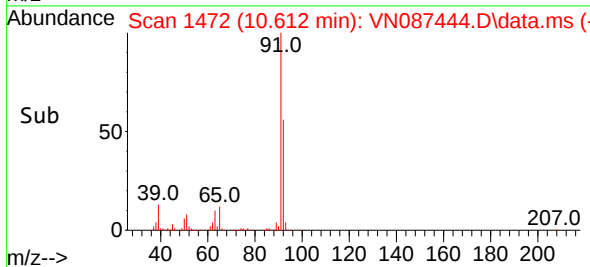
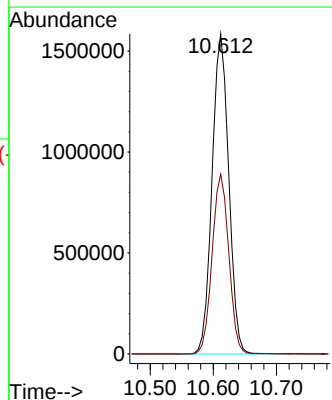
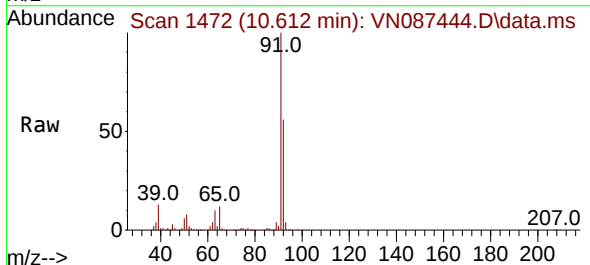
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

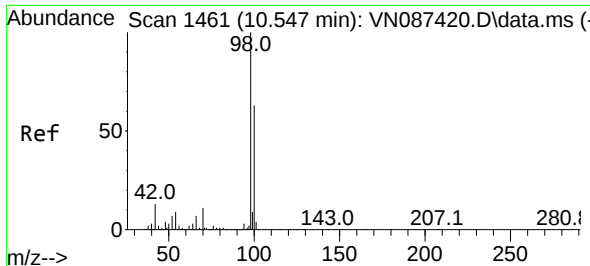
Tgt Ion: 95 Resp: 91549
Ion Ratio Lower Upper
95 100
174 77.8 57.8 86.8
176 72.0 54.9 82.3



#62
Toluene
Concen: 248.572 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 91 Resp: 2904212
Ion Ratio Lower Upper
91 100
92 56.2 45.6 68.4

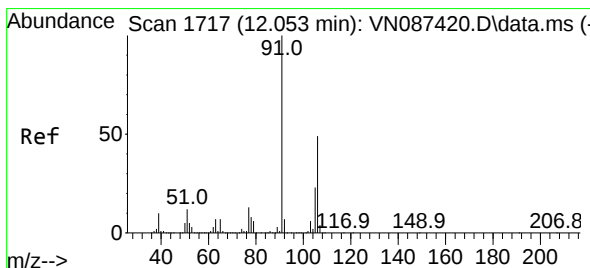
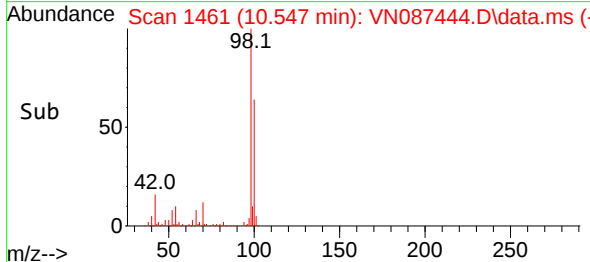
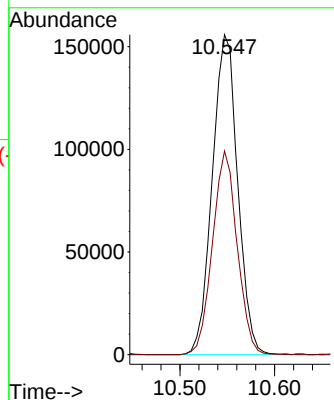
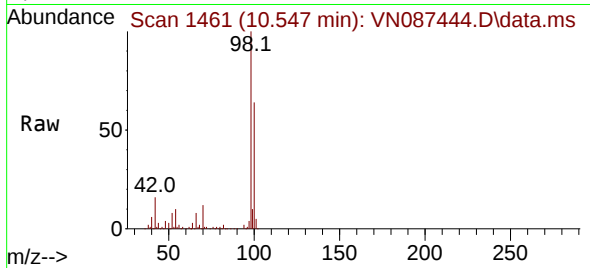




#63
Toluene-d8
Concen: 30.548 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

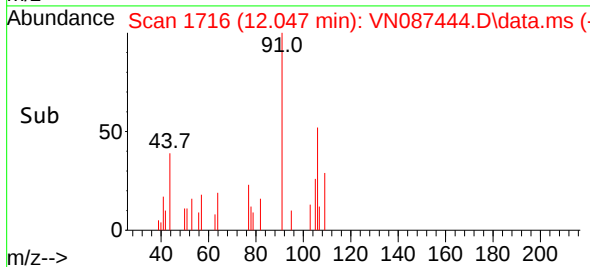
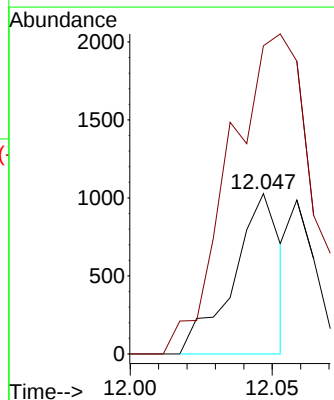
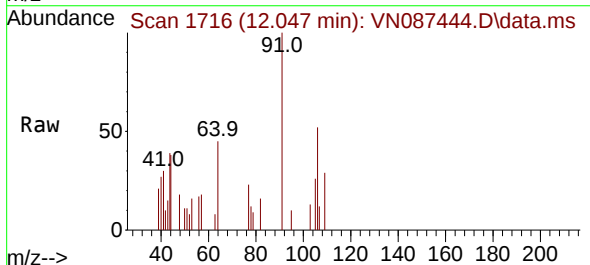
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

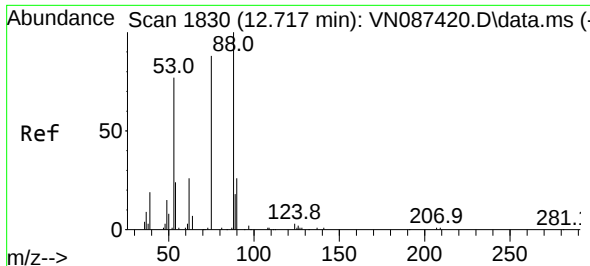
Tgt Ion: 98 Resp: 290430
Ion Ratio Lower Upper
98 100
100 61.8 50.7 76.1



#67
m/p-Xylenes
Concen: 0.247 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.006 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 106 Resp: 1183
Ion Ratio Lower Upper
106 100
91 360.4 165.4 248.2#

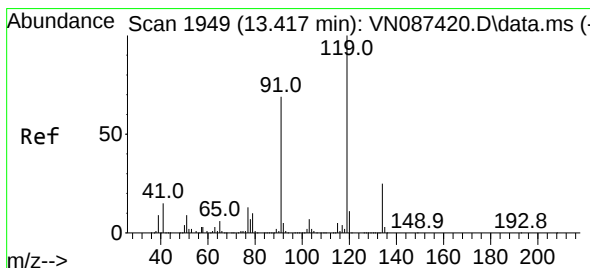
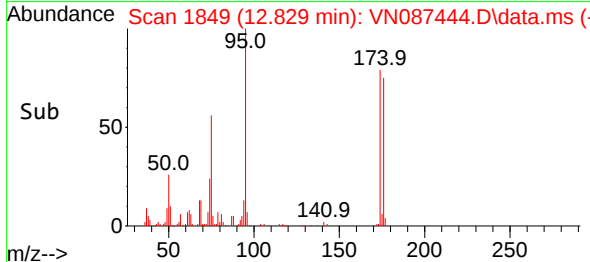
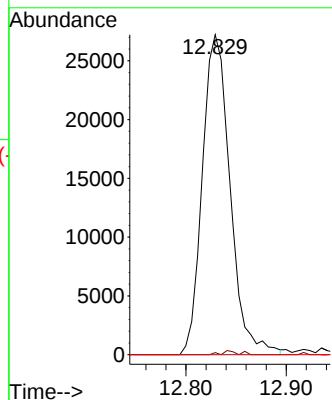
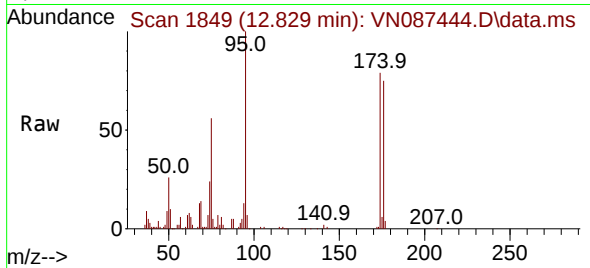




#77
t-1,4-Dichloro-2-butene
Concen: 33.129 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

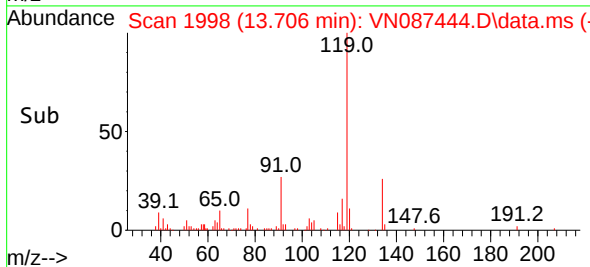
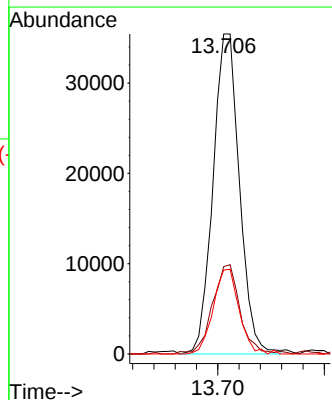
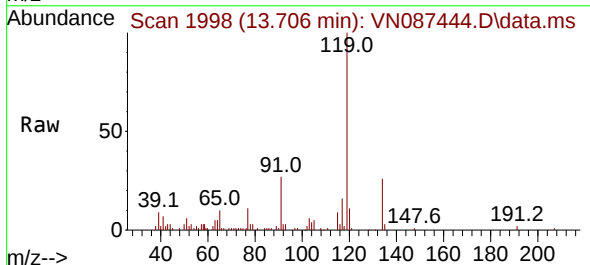
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

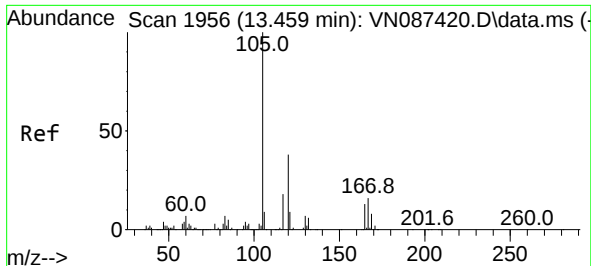
Tgt Ion: 75 Resp: 52411
Ion Ratio Lower Upper
75 100
53 0.7 44.3 132.8#
89 0.0 22.4 67.3#



#79
tert-butylbenzene
Concen: 7.096 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.288 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion: 119 Resp: 61048
Ion Ratio Lower Upper
119 100
91 28.4 0.0 135.4
134 25.8 0.0 49.2

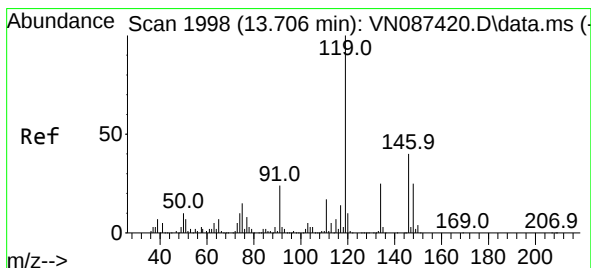
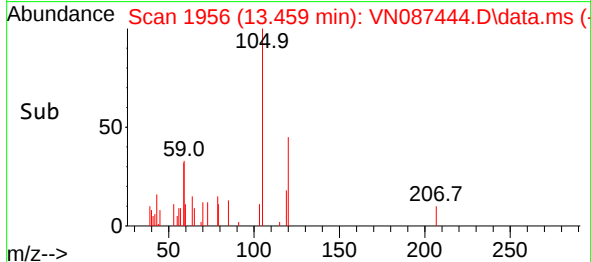
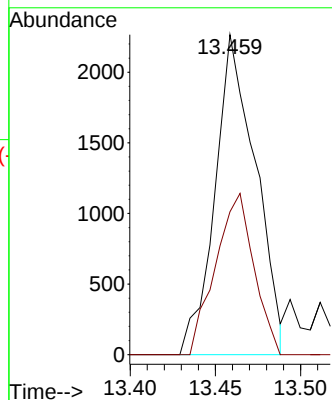
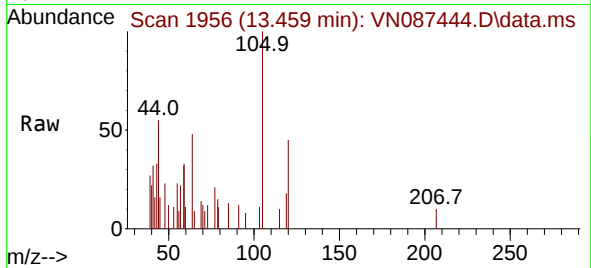




#80
1,2,4-Trimethylbenzene
Concen: 0.381 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

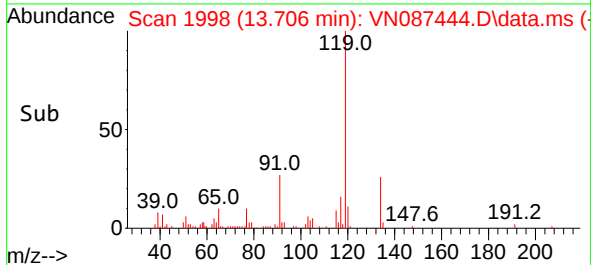
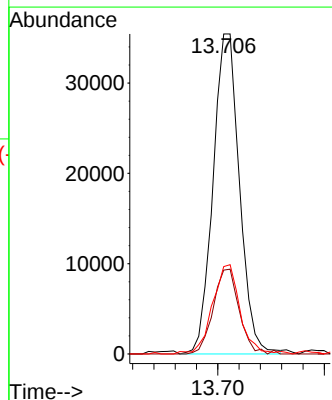
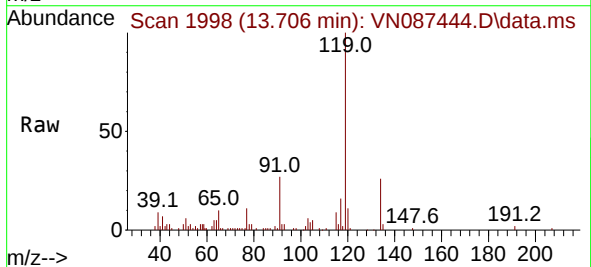
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(july)

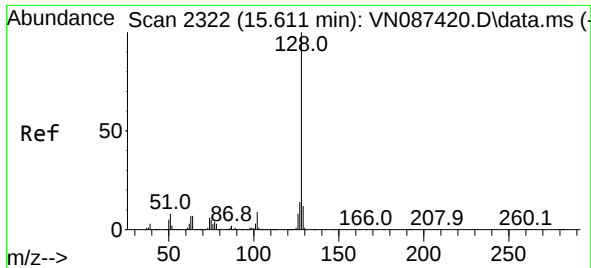
Tgt Ion:105 Resp: 3760
Ion Ratio Lower Upper
105 100
120 47.6 0.0 88.6



#82
p-Isopropyltoluene
Concen: 5.886 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087444.D
Acq: 30 Jul 2025 14:49

Tgt Ion:119 Resp: 61048
Ion Ratio Lower Upper
119 100
134 25.8 0.0 50.8
91 28.4 0.0 47.6





#91

Naphthalene

Concen: 0.291 ug/l

RT: 15.617 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087444.D

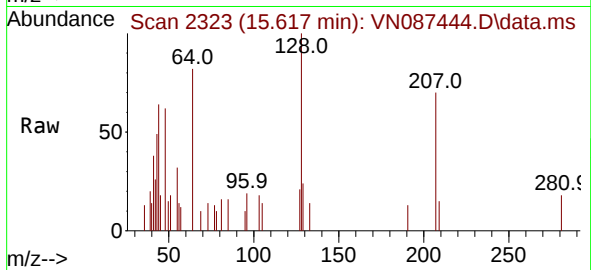
Acq: 30 Jul 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(july)



Tgt Ion:	128	Resp:	3445
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.7	16.1
129	9.2	9.1	13.7

