

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087311.D
 Acq On : 09 Jul 2025 13:54
 Operator : JC\MD
 Sample : Q2533-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35th-Ave(JUNE)

Quant Time: Jul 10 01:26:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

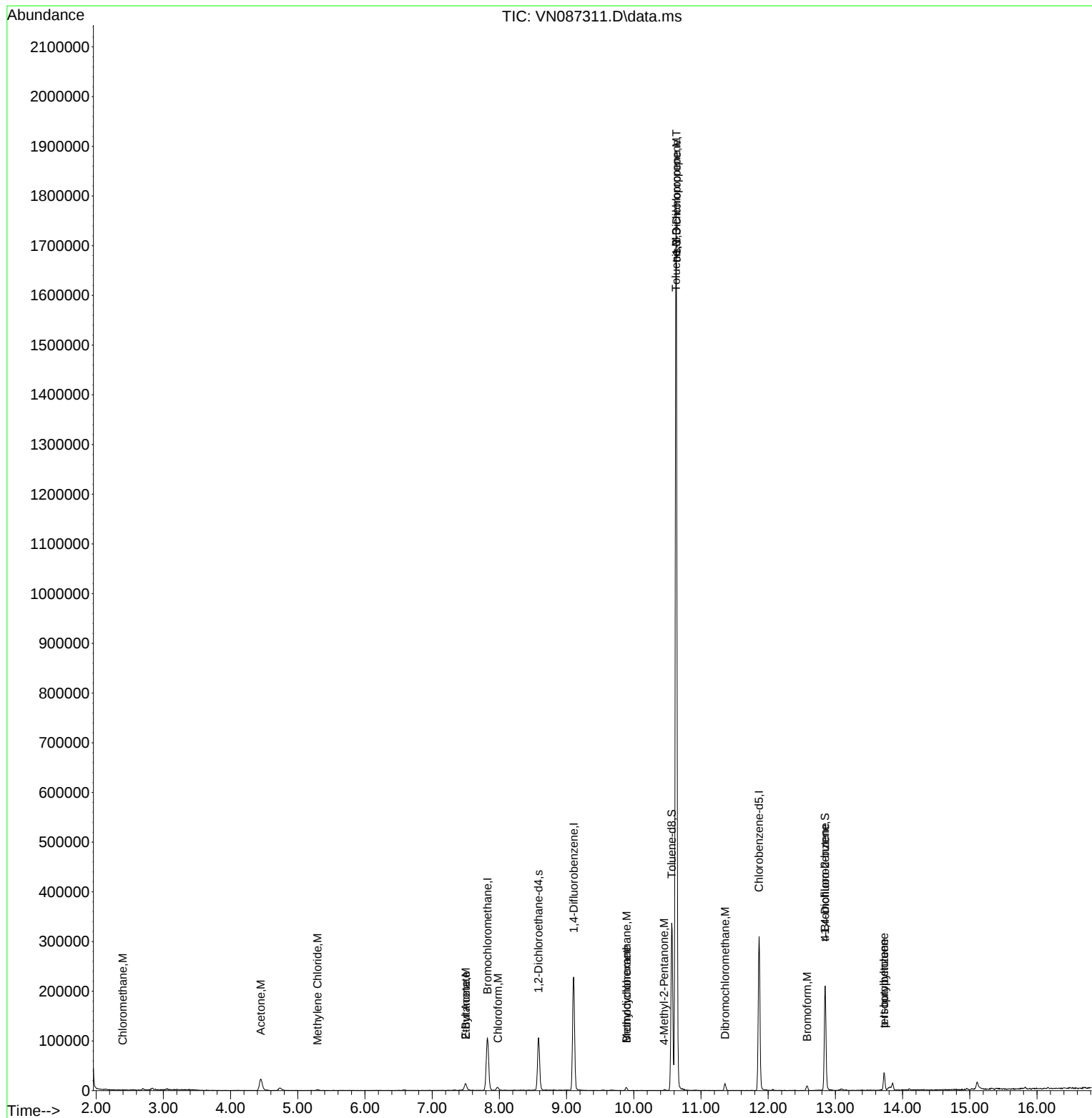
Internal Standards						
1) Bromochloromethane	7.824	128	39994	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	207389	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	187985	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	87755	29.122	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.067%
60) 4-Bromofluorobenzene	12.847	95	79110	27.272	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.900%
63) Toluene-d8	10.565	98	244251	28.938	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.467%
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	781	0.318	ug/l #	42
15) Acetone	4.447	58	15906	30.763	ug/l	91
18) Methylene Chloride	5.294	84	583	0.208	ug/l #	33
25) Chloroform	7.977	83	6099	1.256	ug/l	93
30) 2-Butanone	7.500	43	21983	10.082	ug/l #	90
38) Methylcyclohexane	9.894	83	4419	1.191	ug/l #	16
41) Bromodichloromethane	9.894	83	4497	1.275	ug/l #	94
43) Ethyl Acetate	7.500	43	21983	5.585	ug/l #	65
48) t-1,3-Dichloropropene	10.635	75	9653	2.455	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	9653	2.309	ug/l #	1
53) Dibromochloromethane	11.359	129	8070	3.097	ug/l	90
56) Bromoform	12.582	173	5123	2.860	ug/l #	82
58) 4-Methyl-2-Pentanone	10.453	43	2098	0.555	ug/l #	76
62) Toluene	10.629	91	1392706	131.176	ug/l	99
77) t-1,4-Dichloro-2-butene	12.847	75	40677	27.921	ug/l #	13
79) tert-butylbenzene	13.723	119	19495	2.692	ug/l	62
82) p-Isopropyltoluene	13.723	119	19495	2.226	ug/l	95

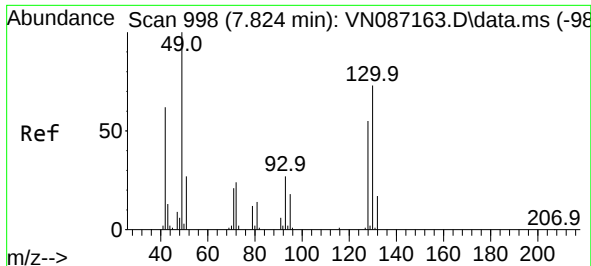
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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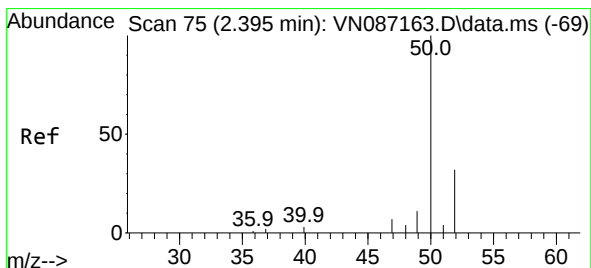
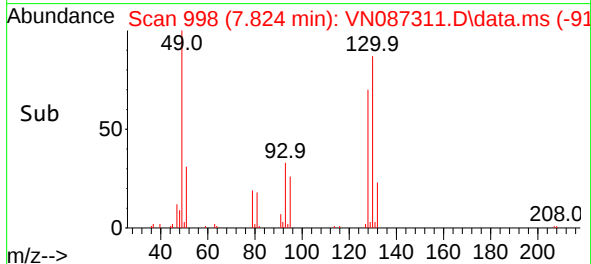
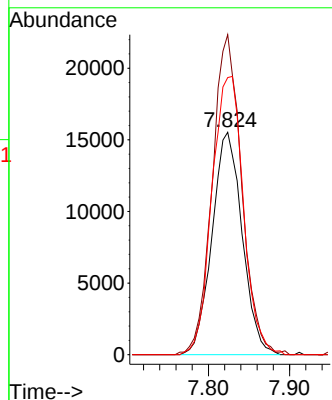
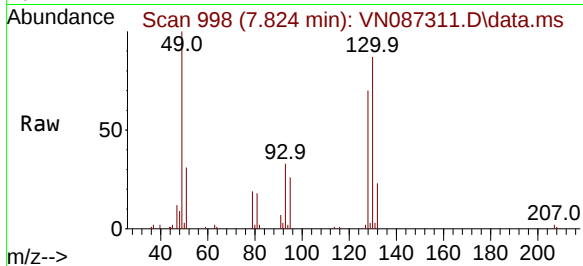




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

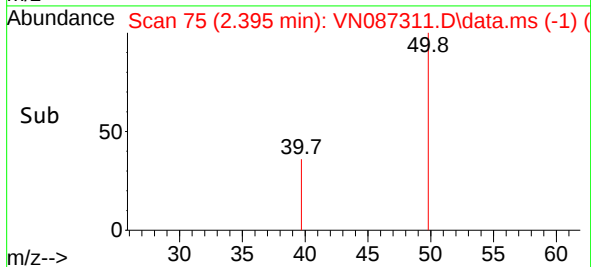
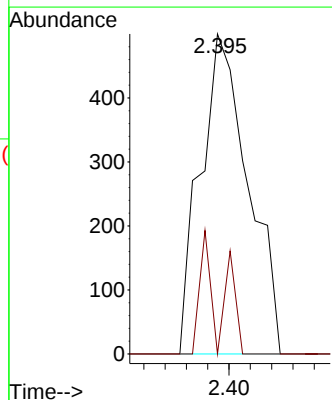
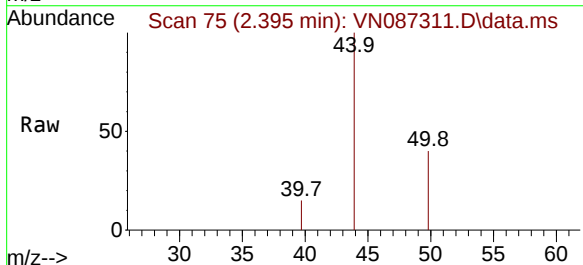
Instrument :
MSVOA_N
ClientSampleId :
002-35th-Ave(JUNE)

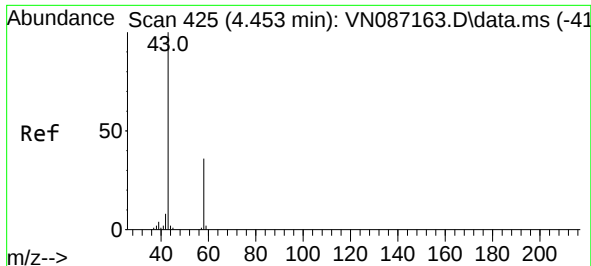
Tgt Ion:128 Resp: 39994
Ion Ratio Lower Upper
128 100
49 140.0 0.0 450.5
130 130.6 0.0 320.7



#3
Chloromethane
Concen: 0.318 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 50 Resp: 781
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#





#15

Acetone

Concen: 30.763 ug/l

RT: 4.447 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN087311.D

Acq: 09 Jul 2025 13:54

Instrument :

MSVOA_N

ClientSampleId :

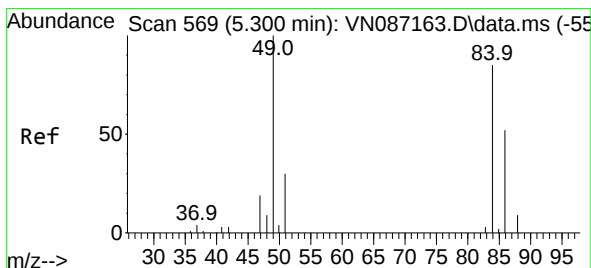
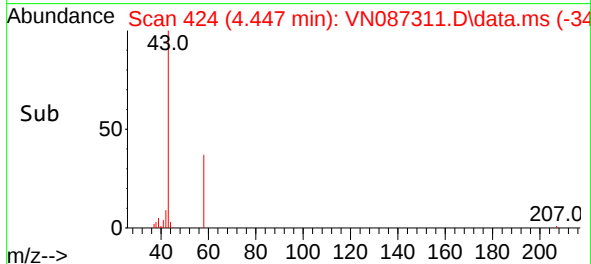
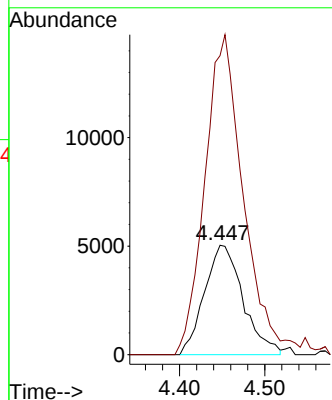
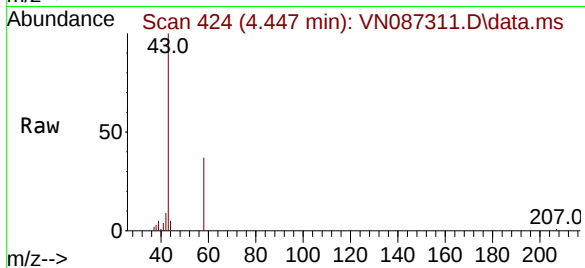
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Tgt Ion: 58 Resp: 15906

Ion Ratio Lower Upper

58 100

43 264.2 224.3 336.5



#18

Methylene Chloride

Concen: 0.208 ug/l

RT: 5.294 min Scan# 568

Delta R.T. -0.006 min

Lab File: VN087311.D

Acq: 09 Jul 2025 13:54

Tgt Ion: 84 Resp: 583

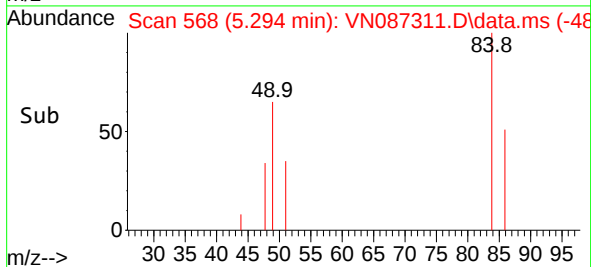
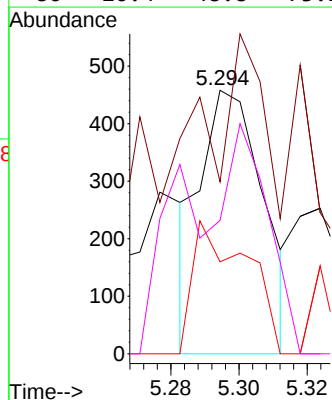
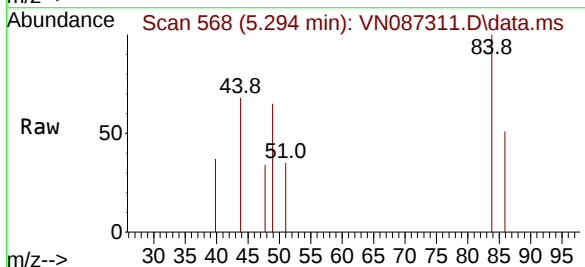
Ion Ratio Lower Upper

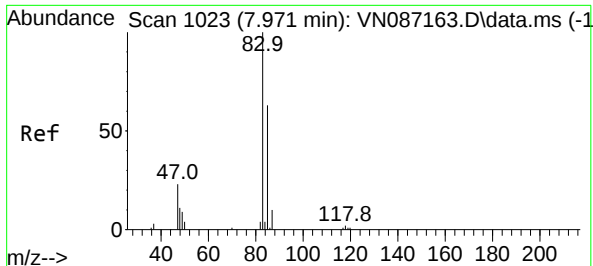
84 100

49 23.1 94.0 141.0#

51 57.8 28.3 42.5#

86 26.4 48.8 73.2#





#25

Chloroform

Concen: 1.256 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN087311.D

Acq: 09 Jul 2025 13:54

Instrument :

MSVOA_N

ClientSampleId :

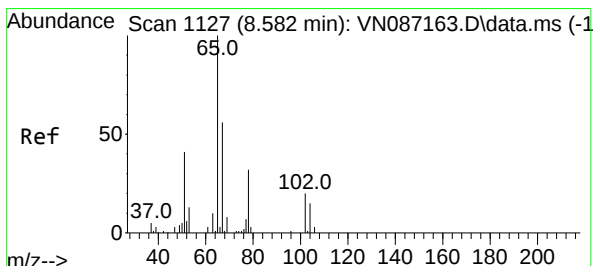
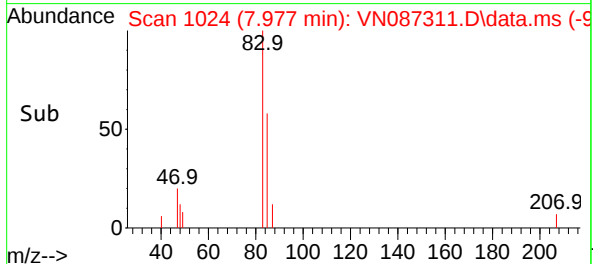
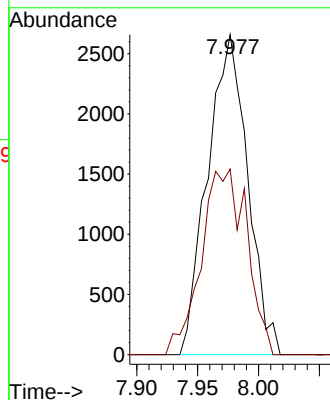
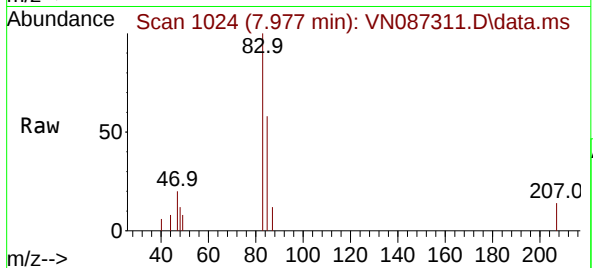
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Tgt Ion: 83 Resp: 6099

Ion Ratio Lower Upper

83 100

85 58.0 50.7 76.1



#27

1,2-Dichloroethane-d4

Concen: 29.122 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN087311.D

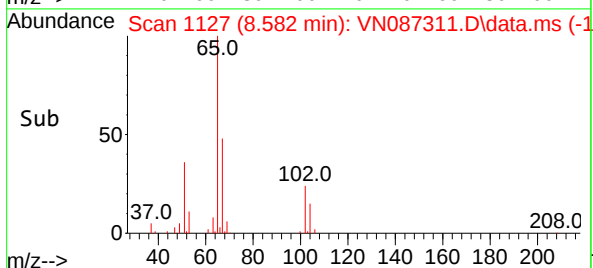
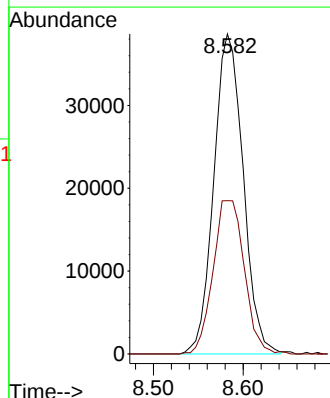
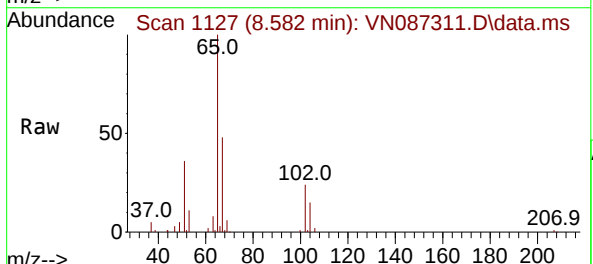
Acq: 09 Jul 2025 13:54

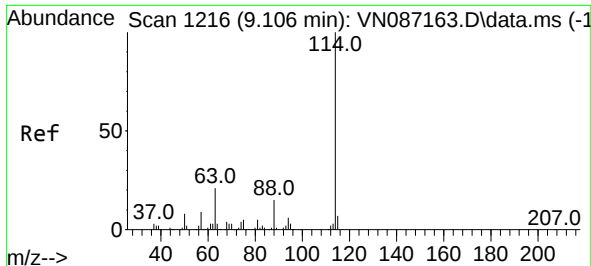
Tgt Ion: 65 Resp: 87755

Ion Ratio Lower Upper

65 100

67 50.9 41.9 62.9

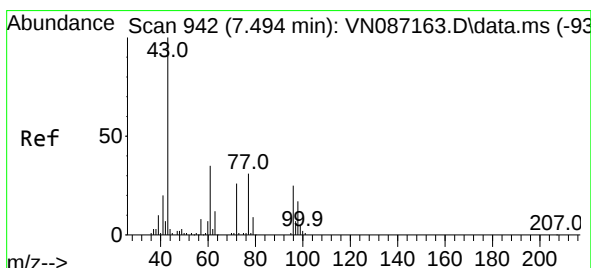
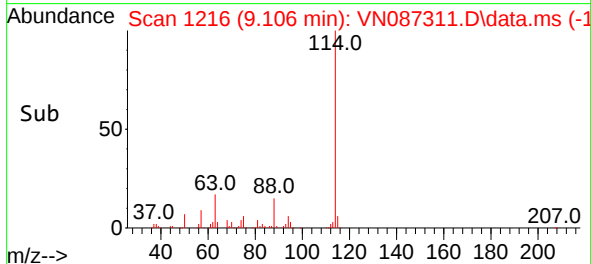
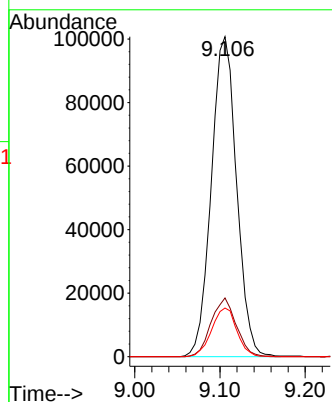
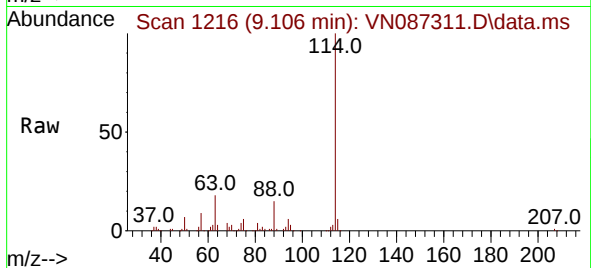




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

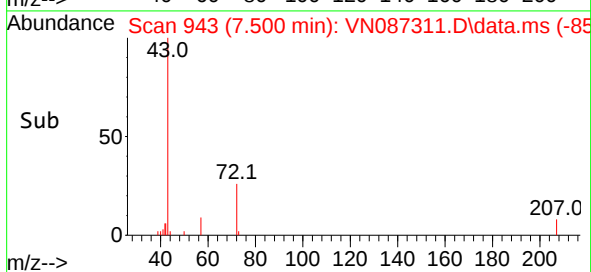
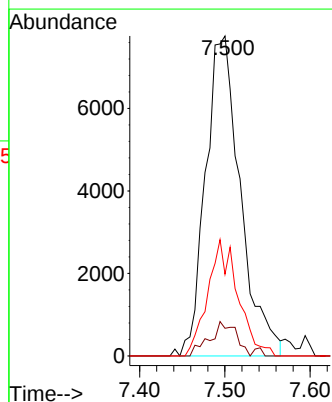
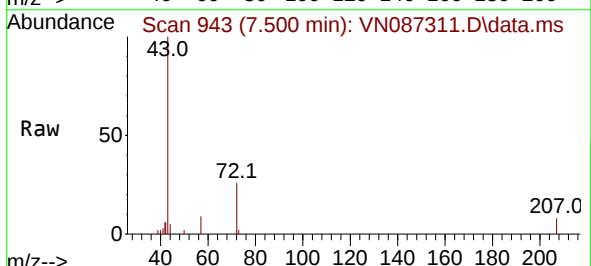
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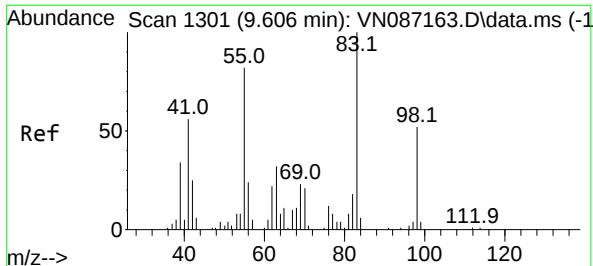
Tgt Ion:114 Resp: 207389
Ion Ratio Lower Upper
114 100
63 18.2 17.0 25.4
88 15.1 12.6 19.0



#30
2-Butanone
Concen: 10.082 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 43 Resp: 21983
Ion Ratio Lower Upper
43 100
57 1.3 6.3 9.5#
72 31.3 21.8 32.6

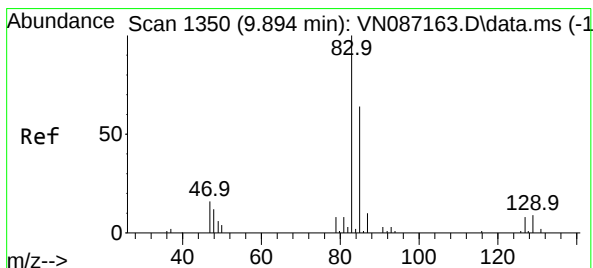
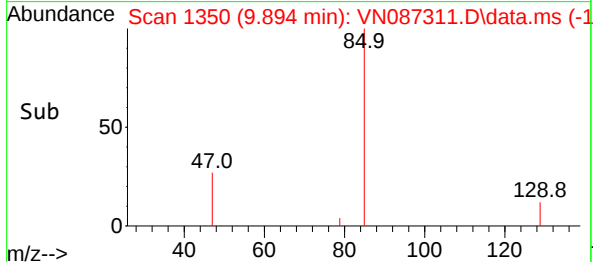
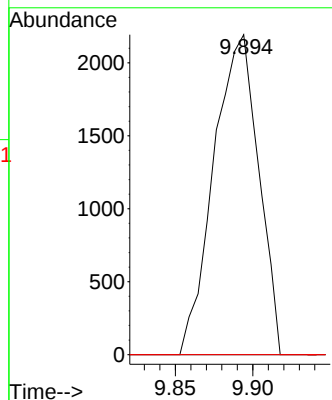
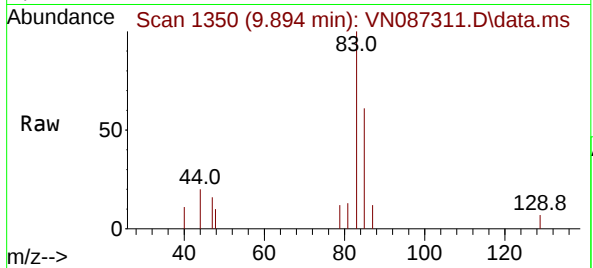




#38
Methylcyclohexane
Concen: 1.191 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.288 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

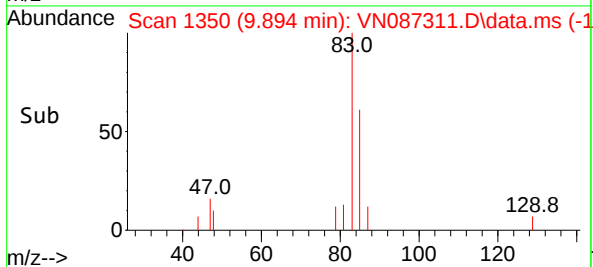
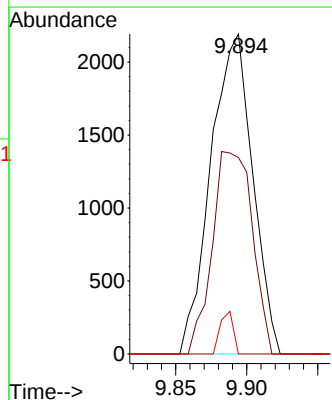
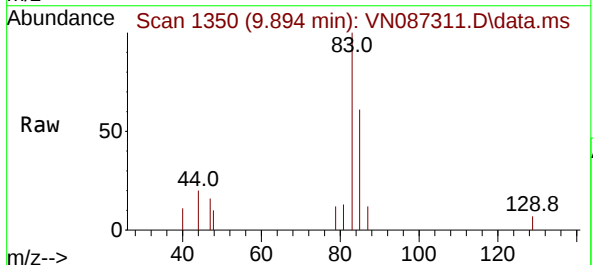
Instrument :
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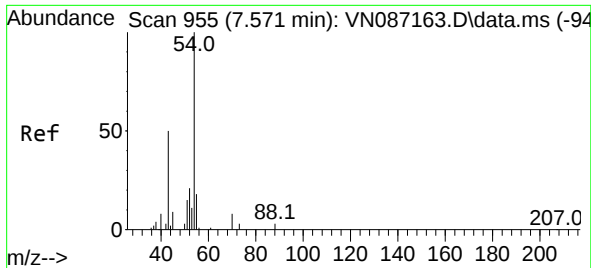
Tgt Ion: 83 Resp: 4419
Ion Ratio Lower Upper
83 100
55 0.0 40.1 120.2#
98 0.0 24.4 73.2#



#41
Bromodichloromethane
Concen: 1.275 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 83 Resp: 4497
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2
127 0.0 6.1 9.1#

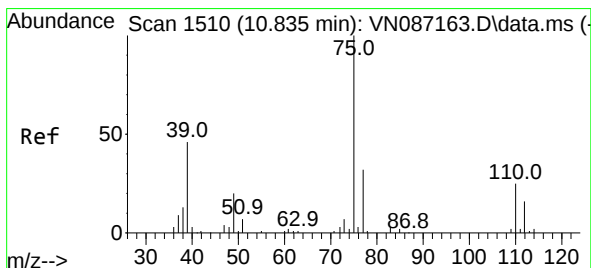
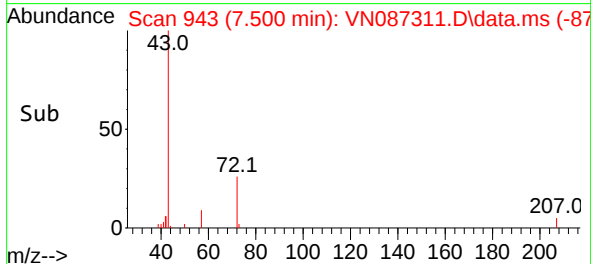
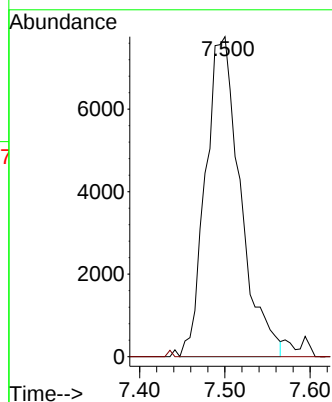
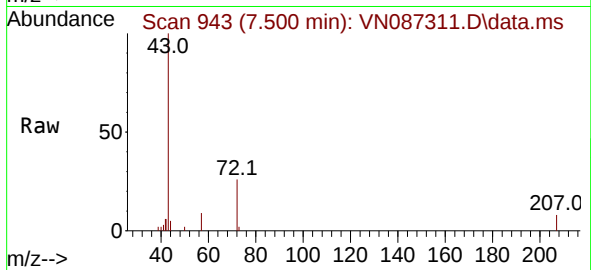




#43
Ethyl Acetate
Concen: 5.585 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.071 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

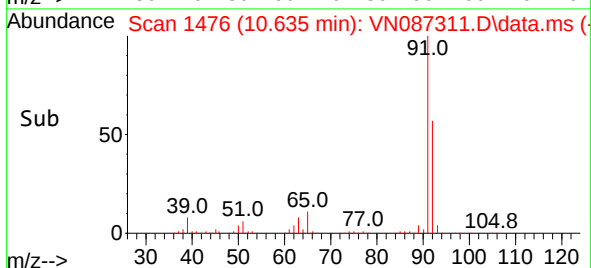
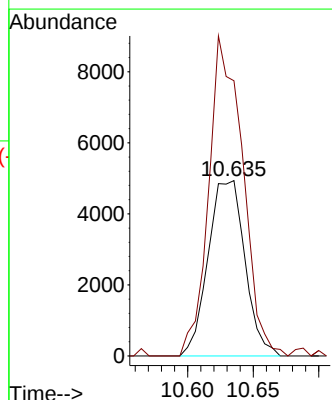
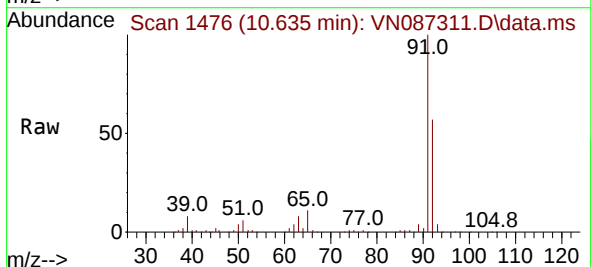
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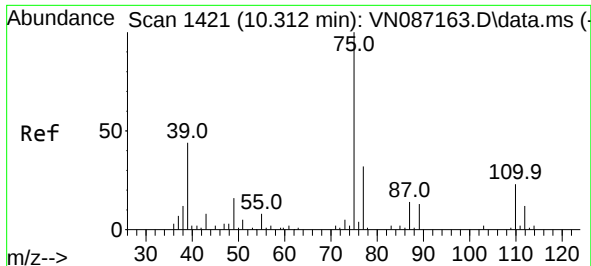
Tgt Ion: 43 Resp: 21983
Ion Ratio Lower Upper
43 100
45 0.0 11.5 17.3#



#48
t-1,3-Dichloropropene
Concen: 2.455 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.200 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 75 Resp: 9653
Ion Ratio Lower Upper
75 100
77 156.9 25.4 38.0#

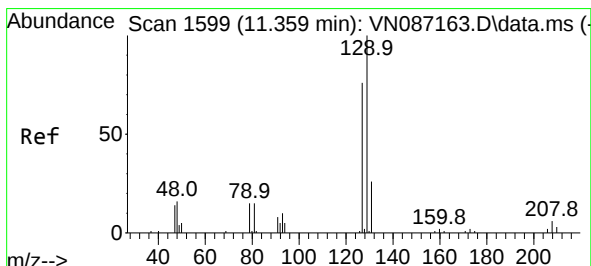
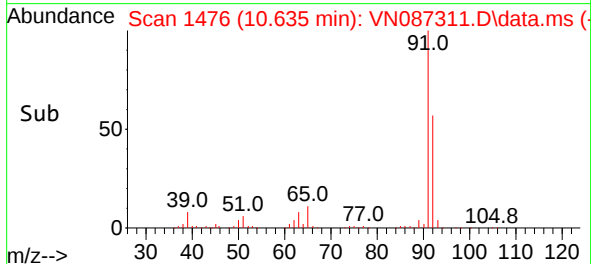
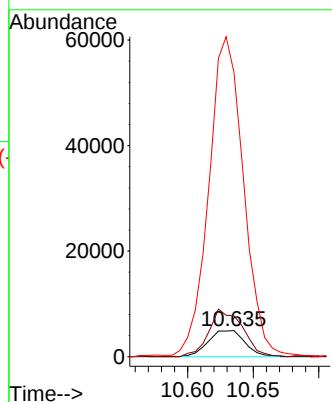
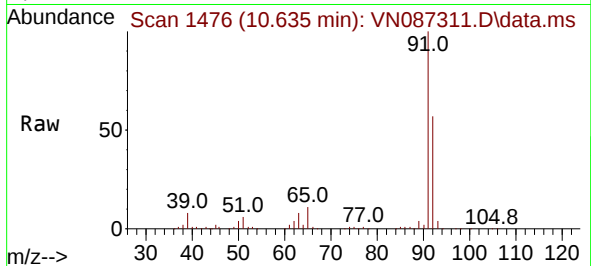




#49
 cis-1,3-Dichloropropene
 Concen: 2.309 ug/l
 RT: 10.635 min Scan# 1421
 Delta R.T. 0.323 min
 Lab File: VN087311.D
 Acq: 09 Jul 2025 13:54

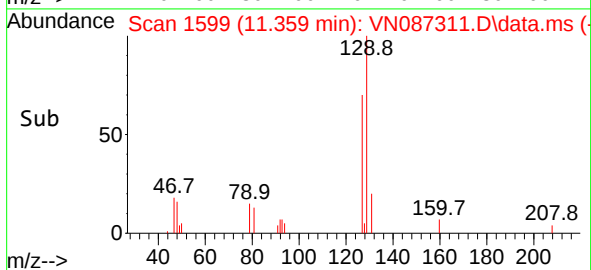
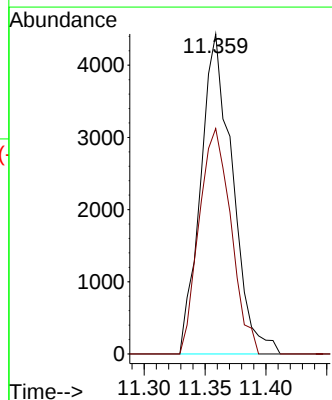
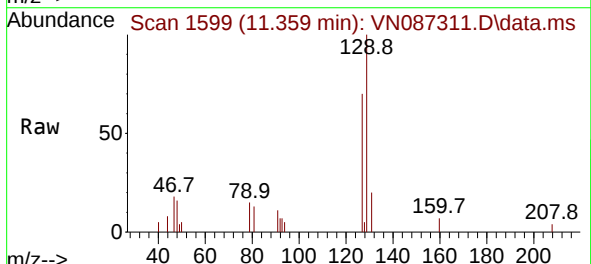
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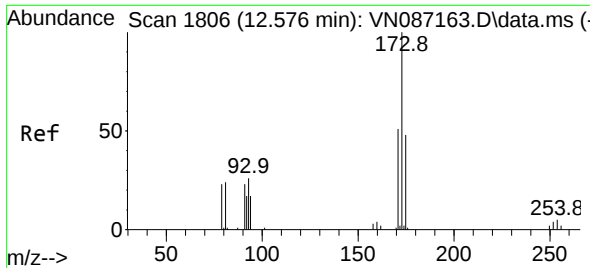
Tgt Ion: 75 Resp: 9653
 Ion Ratio Lower Upper
 75 100
 77 156.9 25.4 38.2#
 39 1073.8 35.3 52.9#



#53
 Dibromochloromethane
 Concen: 3.097 ug/l
 RT: 11.359 min Scan# 1599
 Delta R.T. -0.000 min
 Lab File: VN087311.D
 Acq: 09 Jul 2025 13:54

Tgt Ion: 129 Resp: 8070
 Ion Ratio Lower Upper
 129 100
 127 70.6 39.6 118.8

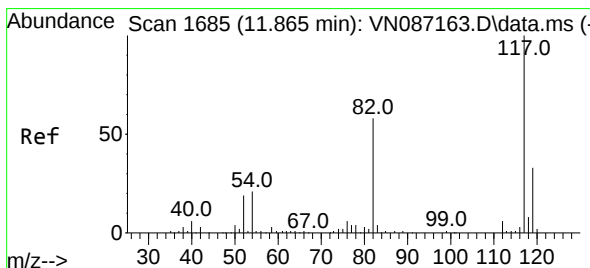
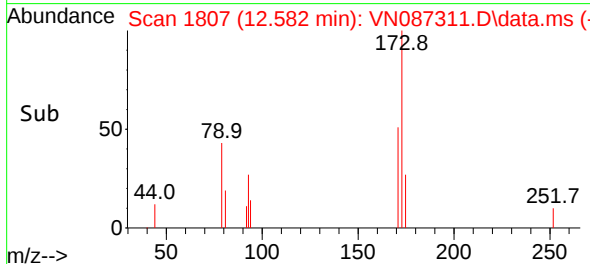
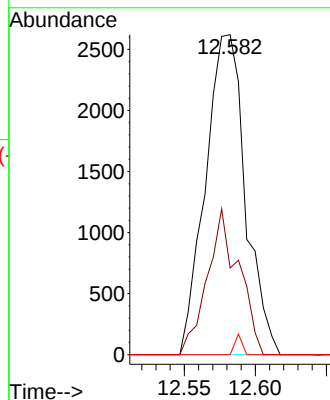
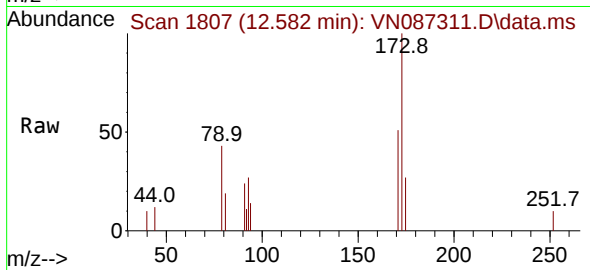




#56
Bromoform
Concen: 2.860 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

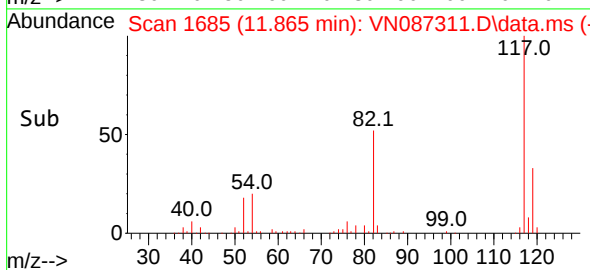
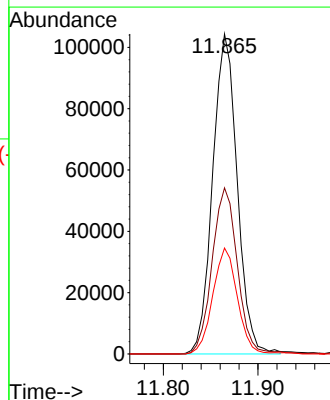
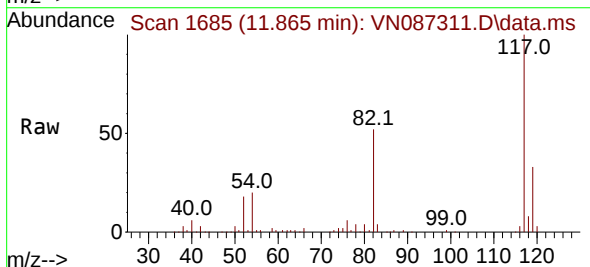
Instrument :
MSVOA_N
ClientSampleId :
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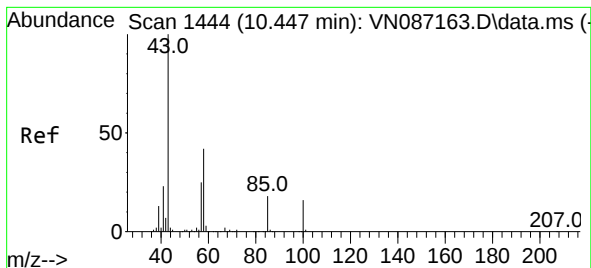
Tgt Ion:173 Resp: 5123
Ion Ratio Lower Upper
173 100
175 35.9 38.7 58.1#
254 0.0 4.2 6.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion:117 Resp: 187985
Ion Ratio Lower Upper
117 100
82 53.2 45.4 68.2
119 33.0 26.2 39.4

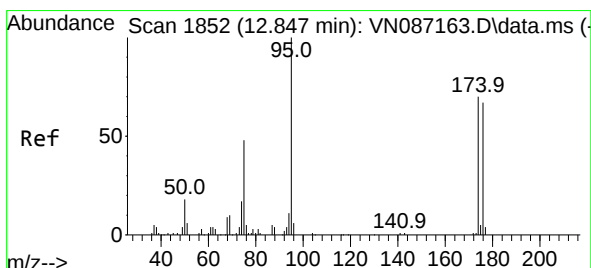
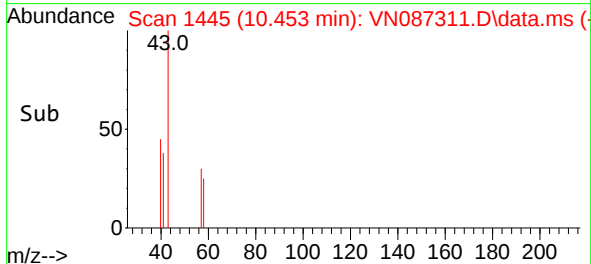
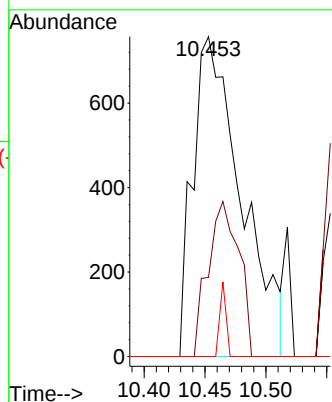
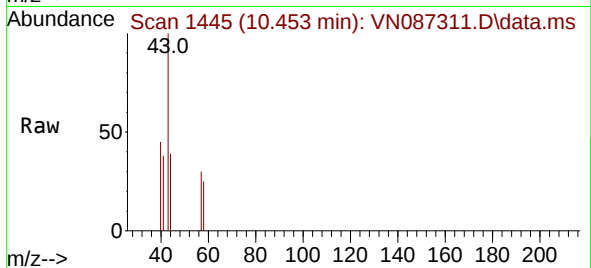




#58
4-Methyl-2-Pentanone
Concen: 0.555 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

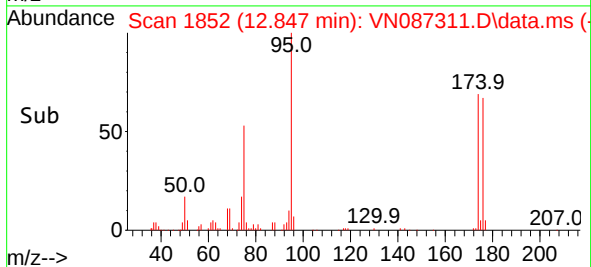
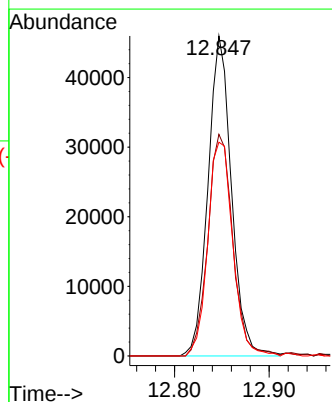
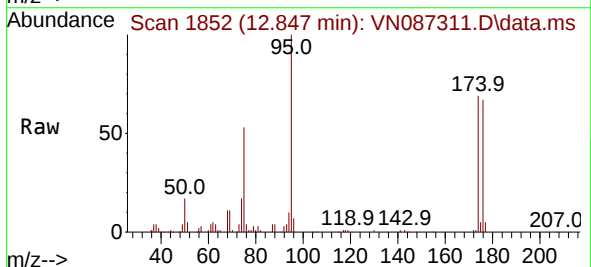
Instrument :
MSVOA_N
ClientSampleId :
002-35th-Ave(JUNE)

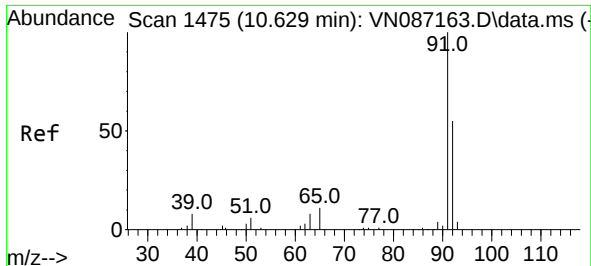
Tgt Ion: 43 Resp: 2098
Ion Ratio Lower Upper
43 100
58 30.8 32.6 49.0#
85 0.0 14.6 22.0#



#60
4-Bromofluorobenzene
Concen: 27.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 95 Resp: 79110
Ion Ratio Lower Upper
95 100
174 73.1 54.5 81.7
176 71.1 51.9 77.9

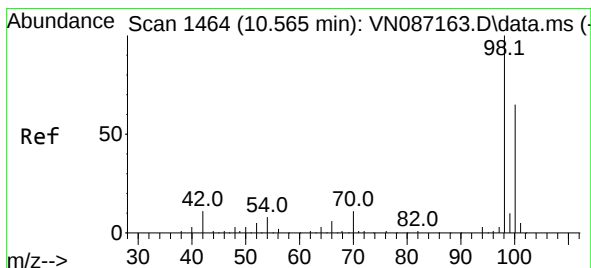
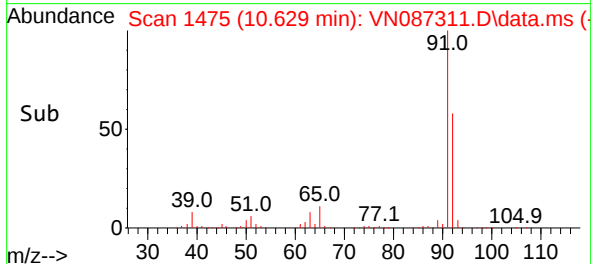
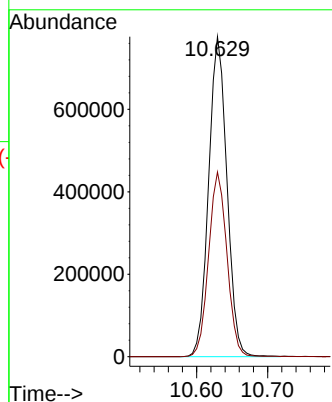
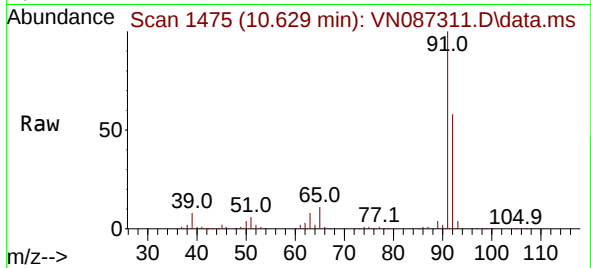




#62
Toluene
Concen: 131.176 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

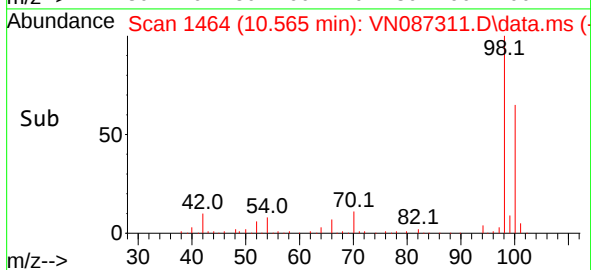
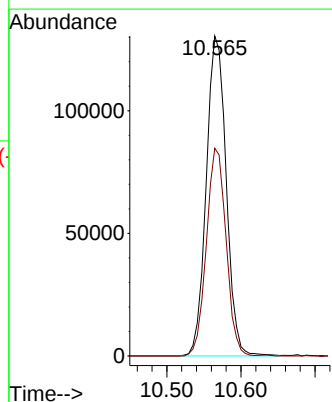
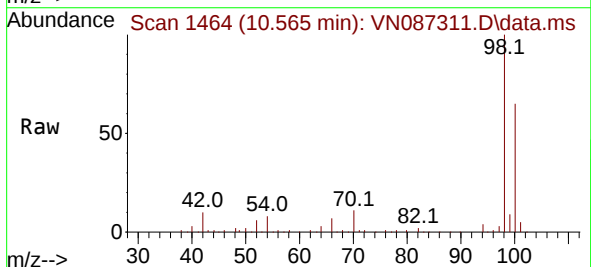
Instrument :
MSVOA_N
ClientSampleId :
002-35th-Ave(JUNE)

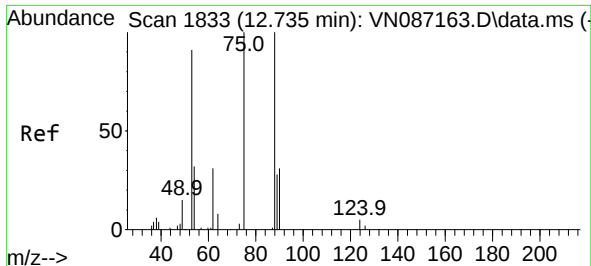
Tgt Ion: 91 Resp: 1392706
Ion Ratio Lower Upper
91 100
92 57.8 45.8 68.8



#63
Toluene-d8
Concen: 28.938 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

Tgt Ion: 98 Resp: 244251
Ion Ratio Lower Upper
98 100
100 64.1 52.5 78.7

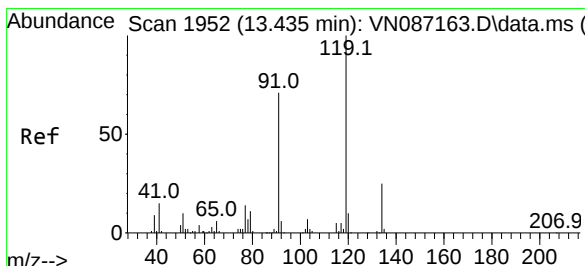
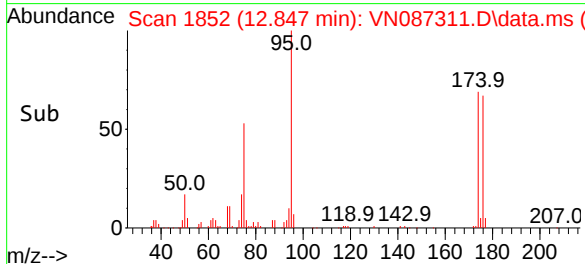
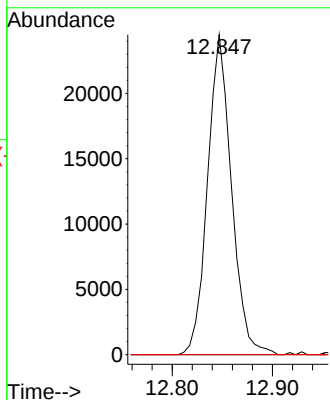
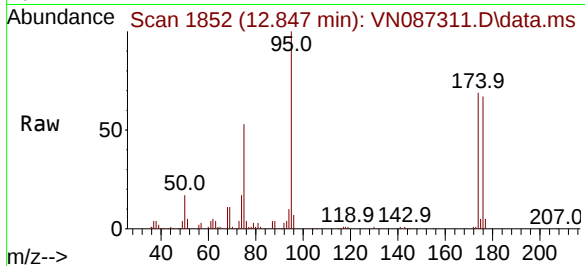




#77
t-1,4-Dichloro-2-butene
Concen: 27.921 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

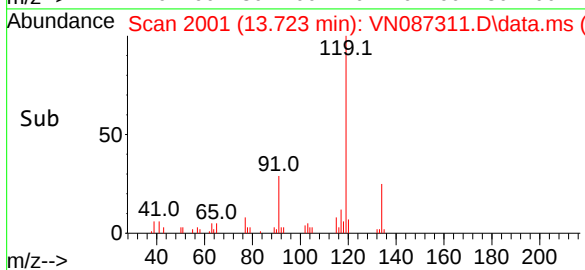
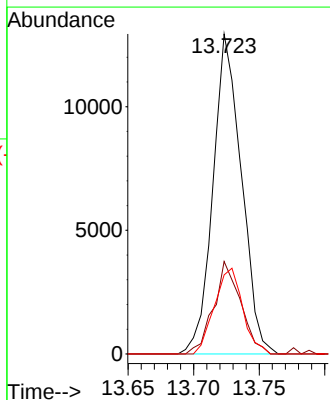
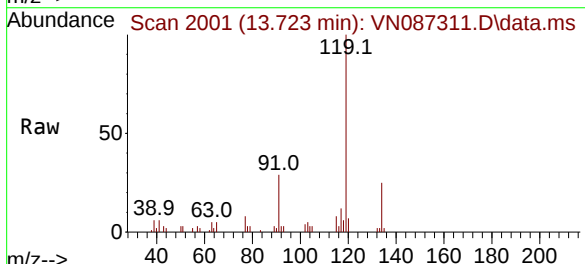
Instrument :
MSVOA_N
ClientSampleId :
002-35th-Ave(JUNE)

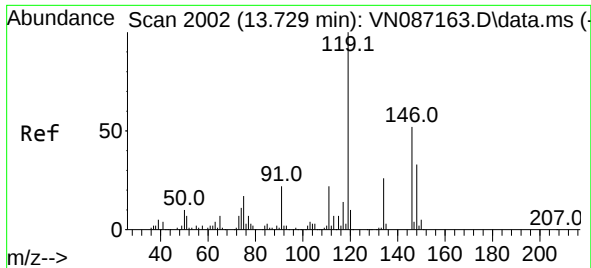
Tgt Ion: 75 Resp: 40677
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#



#79
tert-butylbenzene
Concen: 2.692 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.288 min
Lab File: VN087311.D
Acq: 09 Jul 2025 13:54

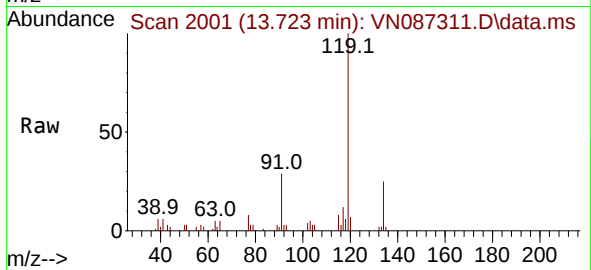
Tgt Ion: 119 Resp: 19495
Ion Ratio Lower Upper
119 100
91 27.6 0.0 137.0
134 26.6 0.0 49.4





#82
 p-Isopropyltoluene
 Concen: 2.226 ug/l
 RT: 13.723 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN087311.D
 Acq: 09 Jul 2025 13:54

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35th-Ave(JUNE)



Tgt Ion:	119	Resp:	19495
Ion Ratio	Lower	Upper	
119	100		
134	26.6	0.0	51.2
91	27.6	0.0	46.4

