

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087546.D
 Acq On : 13 Aug 2025 19:18
 Operator : JC\MD
 Sample : Q2836-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:06:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

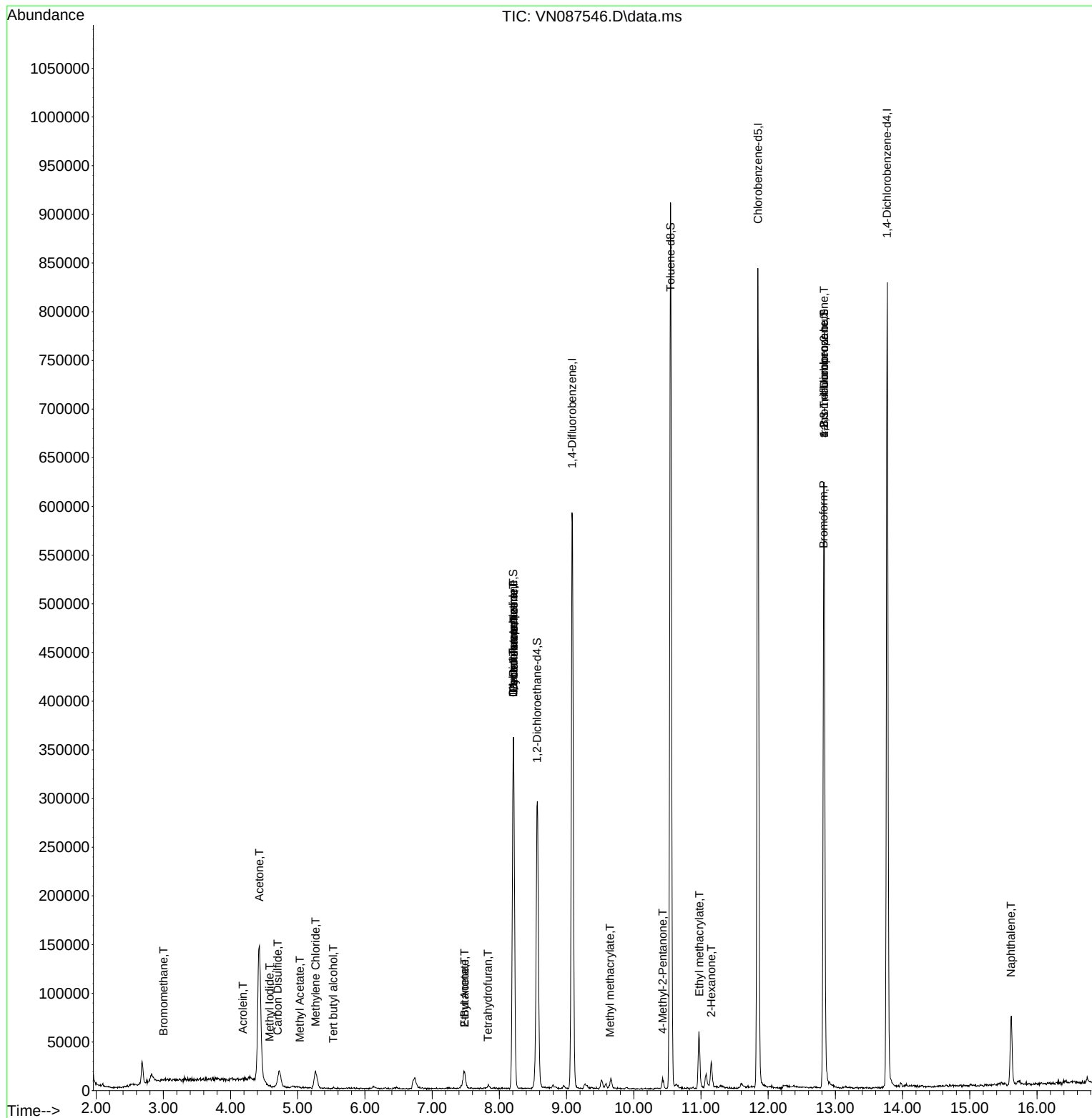
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.212	168	238732	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	484976	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	435515	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	203025	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	250418	61.820	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	123.640%
35) Dibromofluoromethane	8.206	113	700	0.209	ug/l	0.06
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.420%#
50) Toluene-d8	10.547	98	594500	49.819	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.640%
62) 4-Bromofluorobenzene	12.829	95	217928	49.430	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.860%
Target Compounds						Qvalue
5) Bromomethane	3.000	94	879	0.536	ug/l #	4
10) Methyl Iodide	4.583	142	61	5.653	ug/l #	40
11) Tert butyl alcohol	5.530	59	369	0.480	ug/l #	89
13) Acrolein	4.183	56	1095	1.774	ug/l #	23
16) Acetone	4.430	43	284371	149.725	ug/l	99
17) Carbon Disulfide	4.700	76	1803	0.223	ug/l #	71
18) Methyl Acetate	5.030	43	2423	0.508	ug/l #	58
20) Methylene Chloride	5.265	84	12073	3.160	ug/l #	80
25) 2-Butanone	7.482	43	31044	10.579	ug/l	93
29) Tetrahydrofuran	7.829	42	985	0.517	ug/l #	26
31) Cyclohexane	8.212	56	7817	1.570	ug/l #	45
36) 1,1-Dichloropropene	8.206	75	25720	5.819	ug/l #	50
37) Ethyl Acetate	7.482	43	31044	4.863	ug/l #	70
38) Carbon Tetrachloride	8.206	117	28224	5.797	ug/l #	14
48) Methyl methacrylate	9.647	41	2769	0.621	ug/l #	41
51) 4-Methyl-2-Pentanone	10.429	43	8237	1.314	ug/l #	87
56) Ethyl methacrylate	10.976	69	268	0.681	ug/l #	1
59) 2-Hexanone	11.153	43	21725	5.225	ug/l #	25
71) Bromoform	12.823	173	1215	0.452	ug/l #	29
76) 1,2,3-Trichloropropane	12.829	75	126729	27.836	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	126729	76.164	ug/l #	8
95) Naphthalene	15.611	128	62569	4.880	ug/l	99

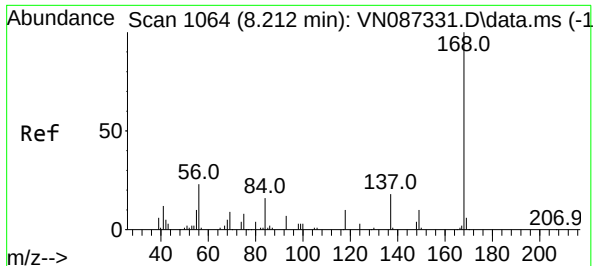
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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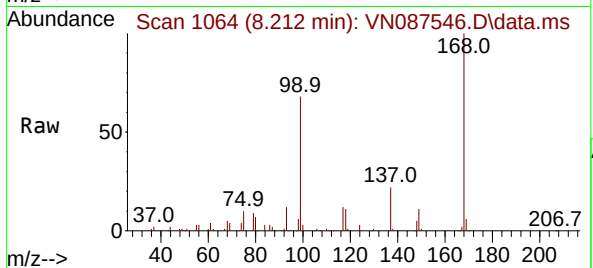
Quant Time: Aug 14 04:06:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



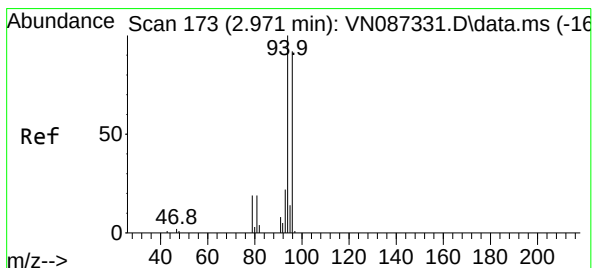
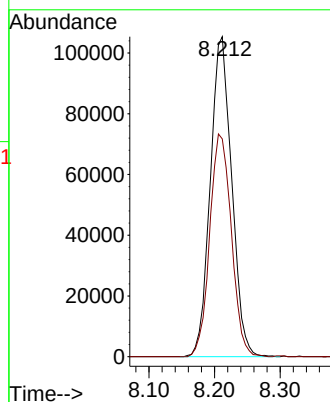
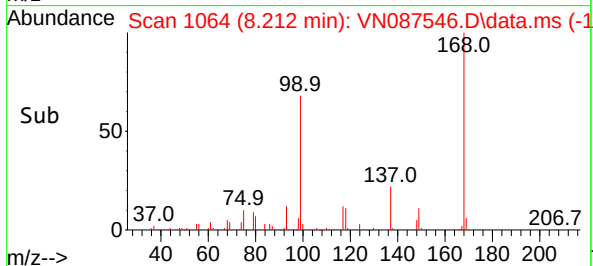


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

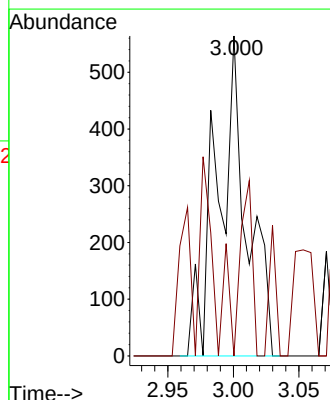
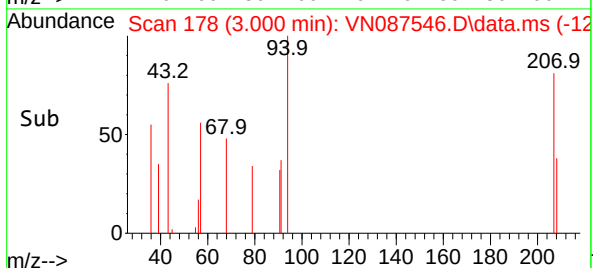
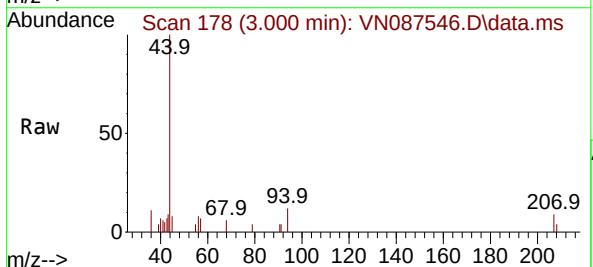


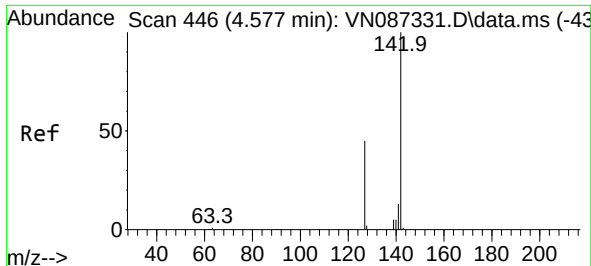
Tgt Ion:168 Resp: 238732
Ion Ratio Lower Upper
168 100
99 68.0 47.9 71.9



#5
Bromomethane
Concen: 0.536 ug/l
RT: 3.000 min Scan# 178
Delta R.T. 0.029 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

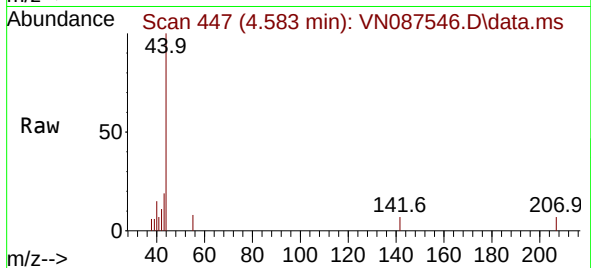
Tgt Ion: 94 Resp: 879
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#



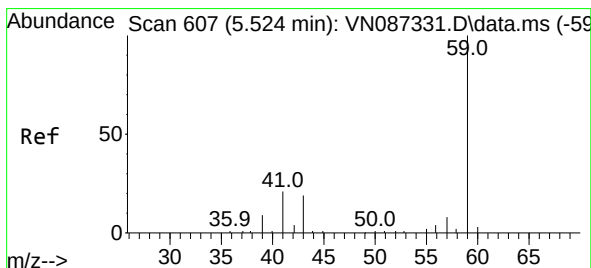
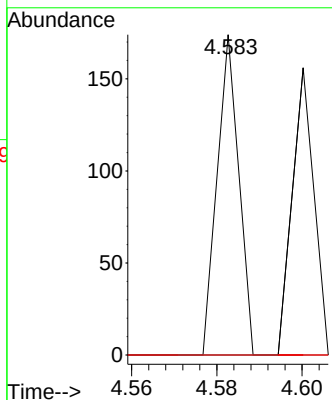
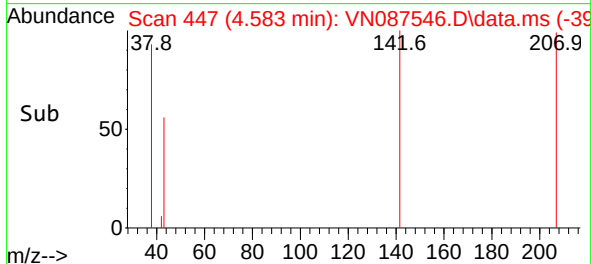


#10
Methyl Iodide
Concen: 5.653 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

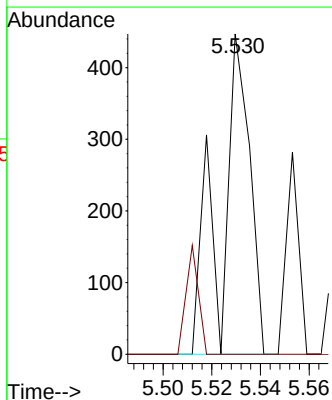
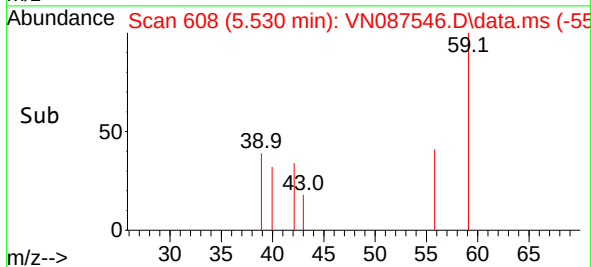
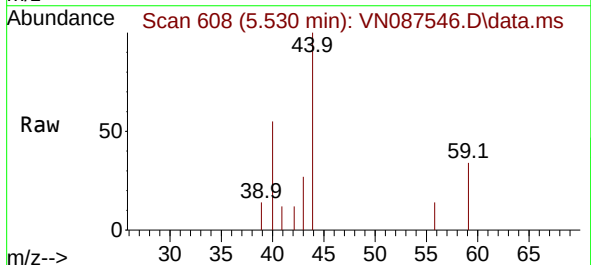


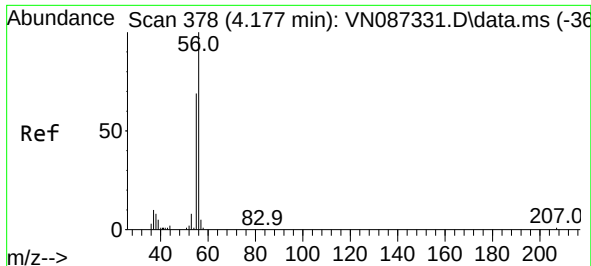
Tgt Ion:142 Resp: 61
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.480 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 59 Resp: 369
Ion Ratio Lower Upper
59 100
57 14.6 8.3 12.5#

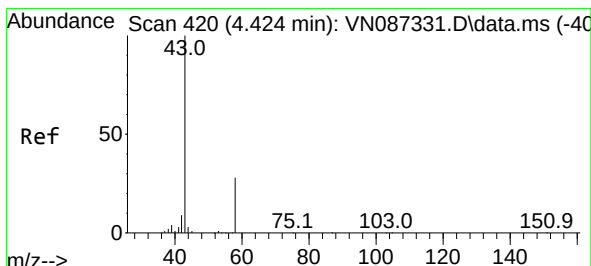
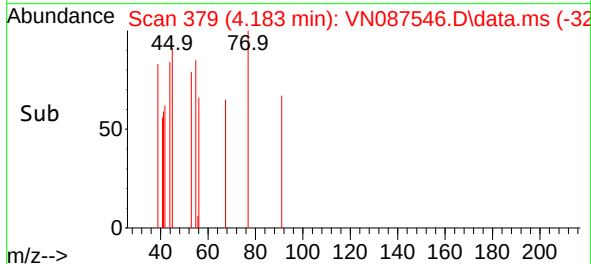
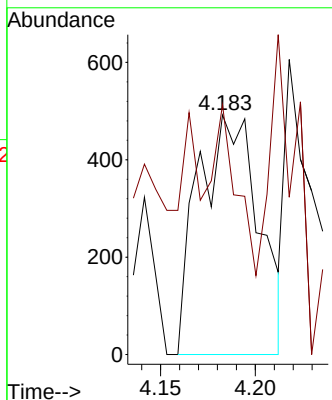
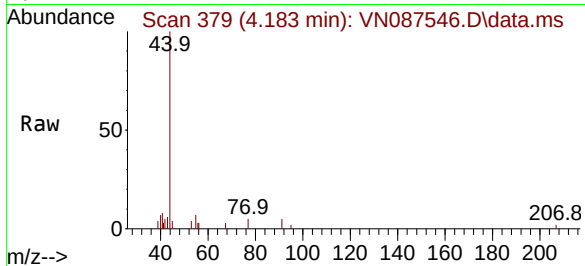




#13
Acrolein
Concen: 1.774 ug/l
RT: 4.183 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

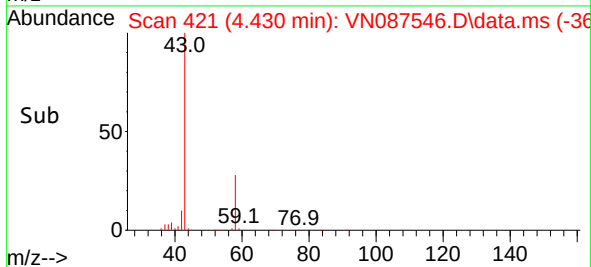
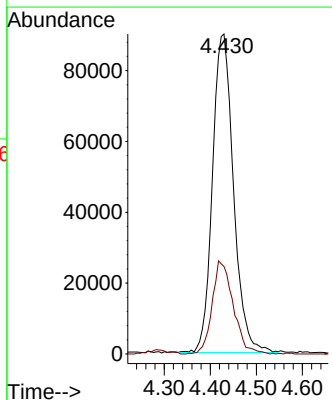
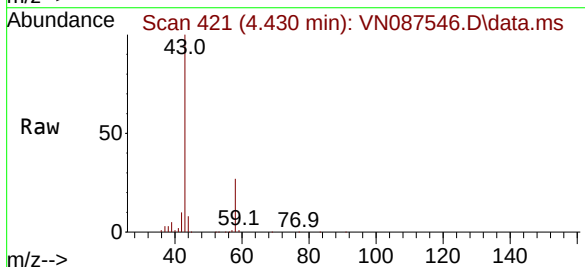
Instrument :
MSVOA_N
ClientSampleId :

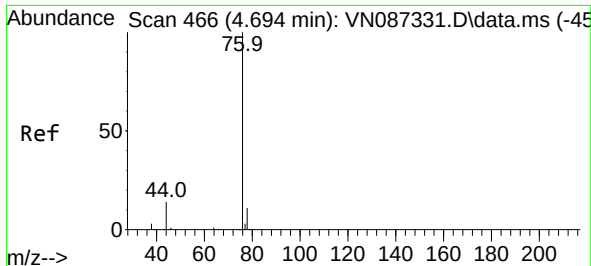
Tgt Ion: 56 Resp: 1095
Ion Ratio Lower Upper
56 100
55 7.1 56.2 84.4#



#16
Acetone
Concen: 149.725 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 43 Resp: 284371
Ion Ratio Lower Upper
43 100
58 27.3 22.3 33.5

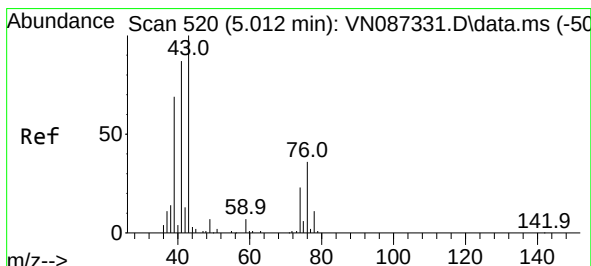
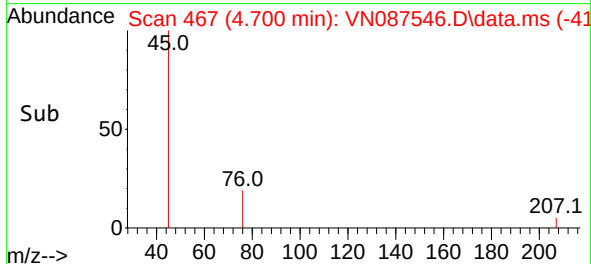
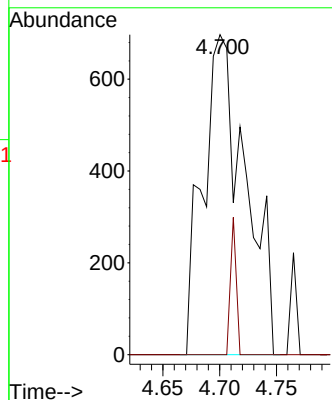
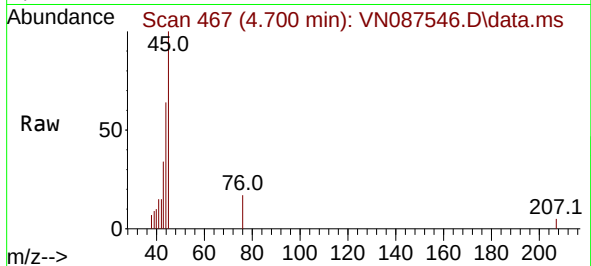




#17
Carbon Disulfide
Concen: 0.223 ug/l
RT: 4.700 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

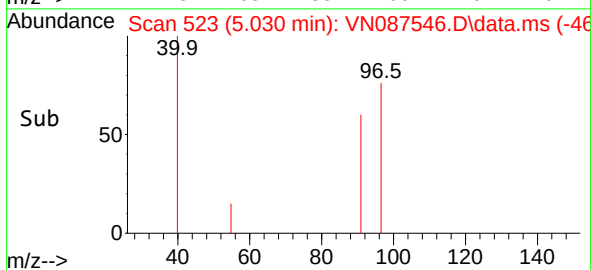
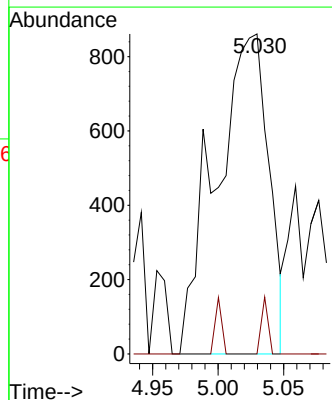
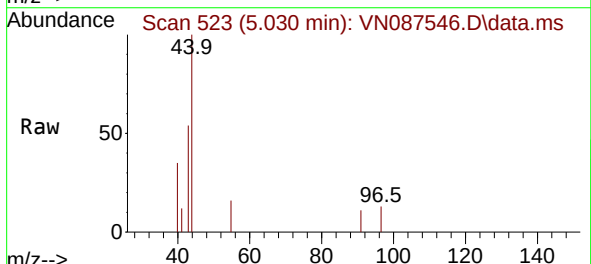
Instrument :
MSVOA_N
ClientSampleId :

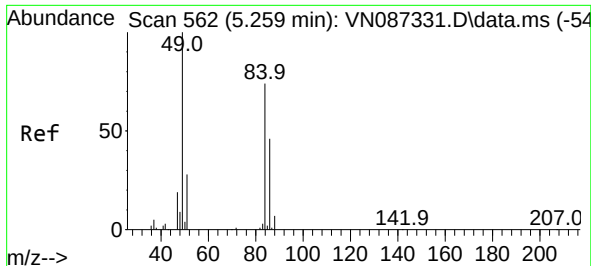
Tgt Ion: 76 Resp: 1803
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#18
Methyl Acetate
Concen: 0.508 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

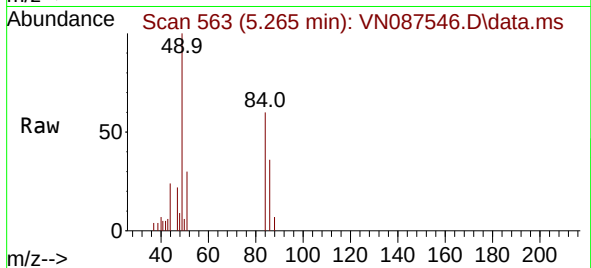
Tgt Ion: 43 Resp: 2423
Ion Ratio Lower Upper
43 100
74 2.2 17.8 26.6#



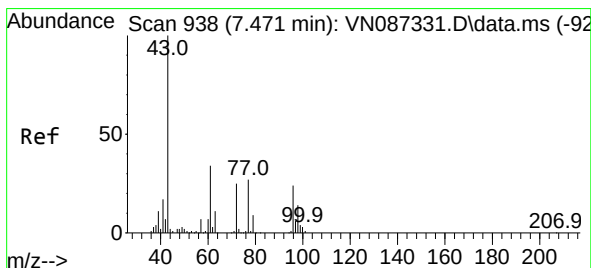
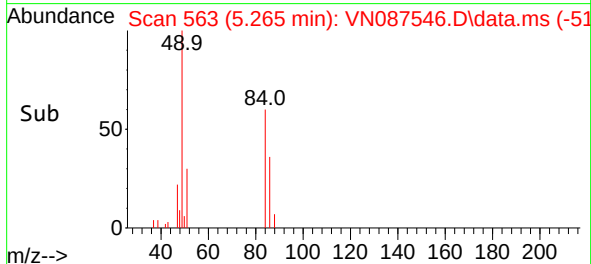
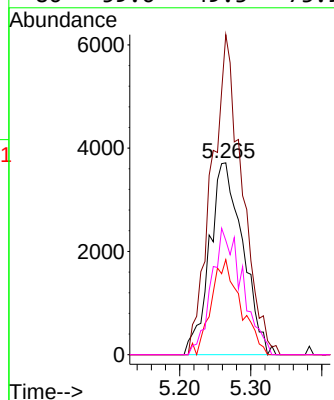


#20
Methylene Chloride
Concen: 3.160 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

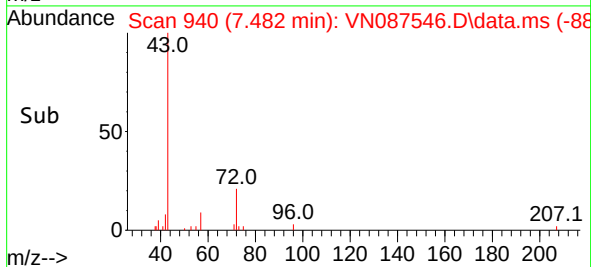
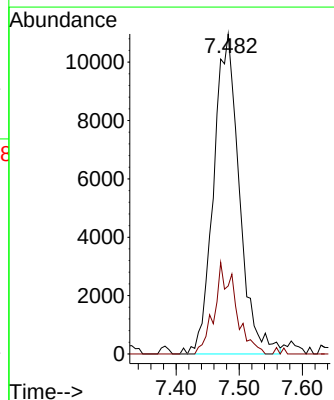
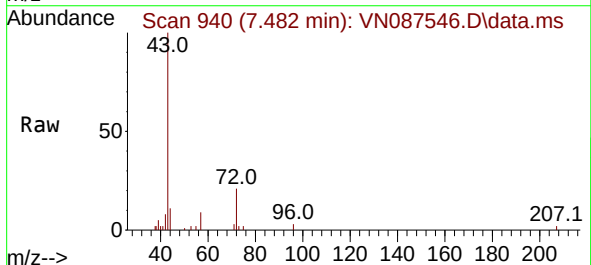


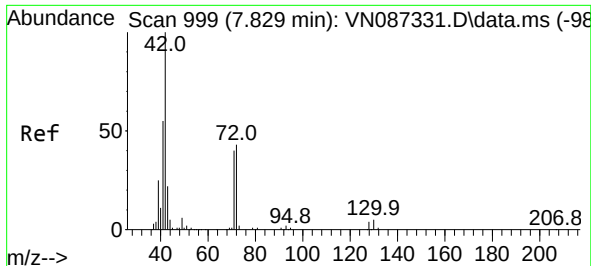
Tgt Ion: 84 Resp: 12073
Ion Ratio Lower Upper
84 100
49 166.9 107.5 161.3#
51 49.6 30.2 45.2#
86 59.6 49.3 73.9



#25
2-Butanone
Concen: 10.579 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 43 Resp: 31044
Ion Ratio Lower Upper
43 100
72 21.2 19.6 29.4





#29

Tetrahydrofuran

Concen: 0.517 ug/l

RT: 7.829 min Scan# 999

Delta R.T. -0.000 min

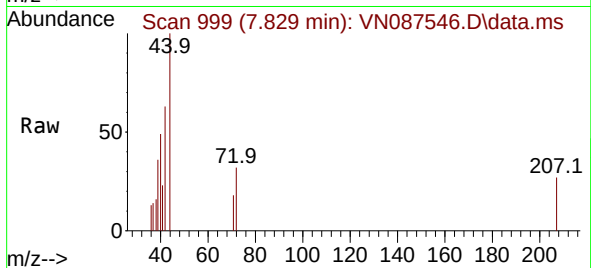
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Acq: 13 Aug 2025 19:18

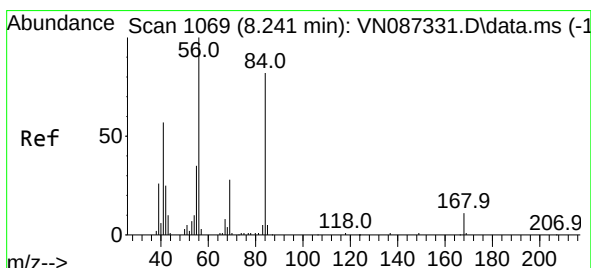
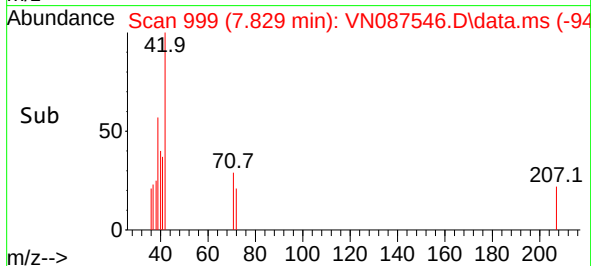
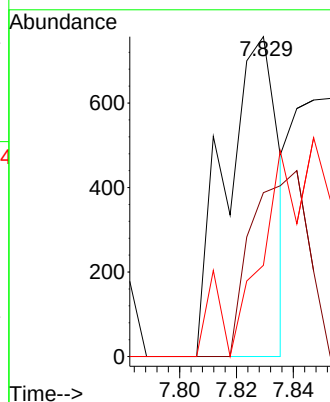
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	985
Ion Ratio	Lower	Upper	
42	100		
72	68.2	33.4	50.0#
71	104.5	31.2	46.8#



#31

Cyclohexane

Concen: 1.570 ug/l

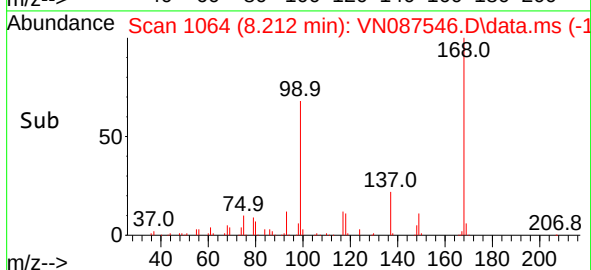
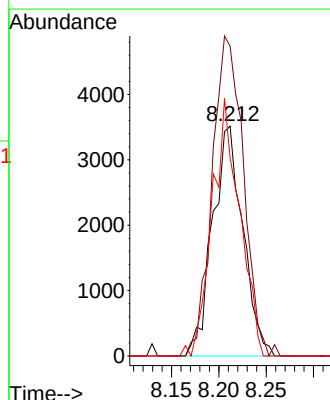
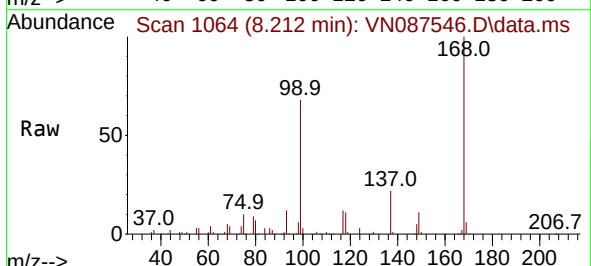
RT: 8.212 min Scan# 1064

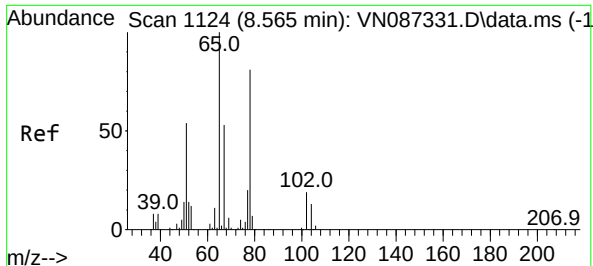
Delta R.T. -0.029 min

Lab File: VN087546.D

Acq: 13 Aug 2025 19:18

Tgt Ion:	56	Resp:	7817
Ion Ratio	Lower	Upper	
56	100		
69	134.9	22.7	34.1#
84	86.2	65.8	98.6





#33

1,2-Dichloroethane-d4

Concen: 61.820 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN087546.D

Acq: 13 Aug 2025 19:18

Instrument :

MSVOA_N

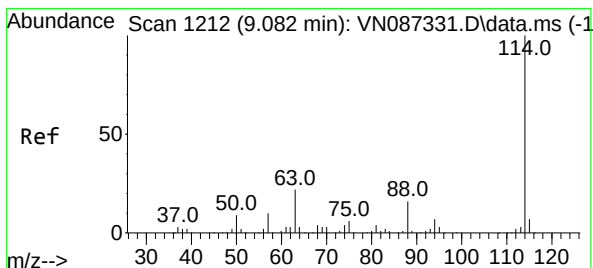
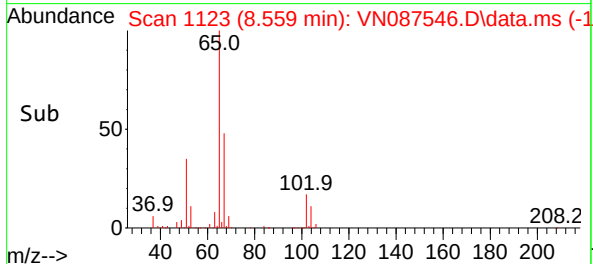
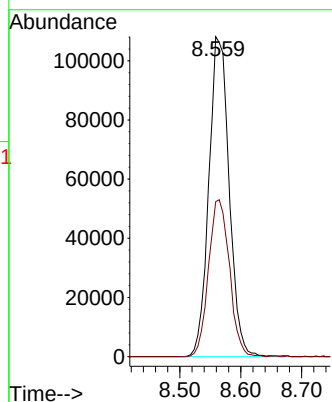
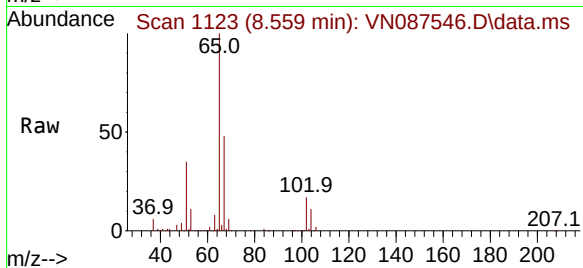
ClientSampleId :

Tgt Ion: 65 Resp: 250418

Ion Ratio Lower Upper

65 100

67 50.6 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087546.D

Acq: 13 Aug 2025 19:18

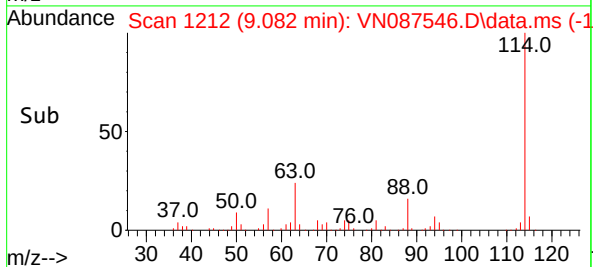
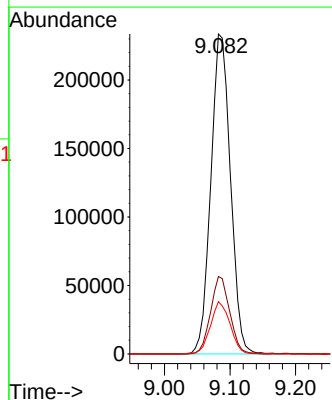
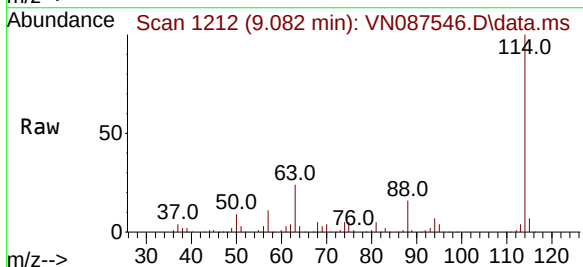
Tgt Ion: 114 Resp: 484976

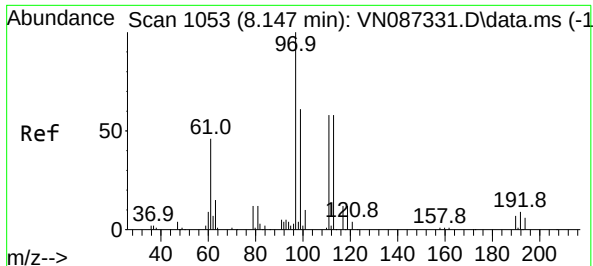
Ion Ratio Lower Upper

114 100

63 24.2 0.0 44.6

88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 0.209 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. 0.059 min

Lab File: VN087546.D

Acq: 13 Aug 2025 19:18

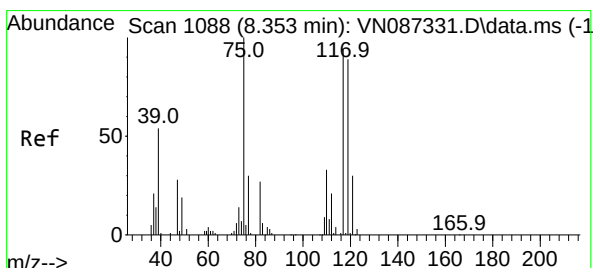
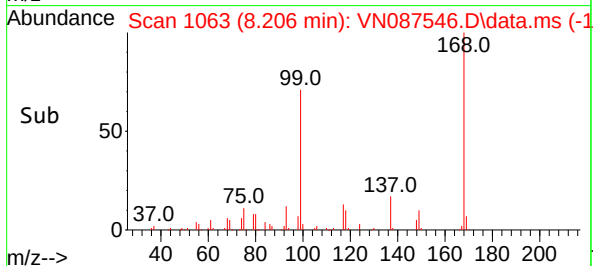
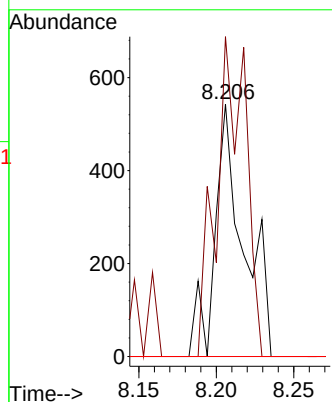
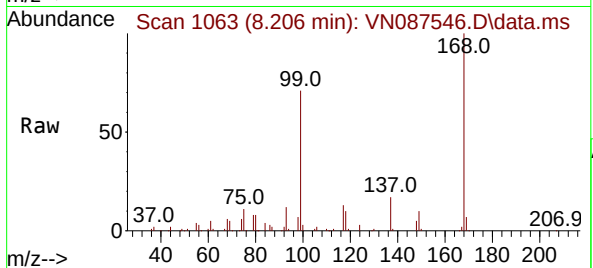
Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:113 Resp: 700

Ion	Ratio	Lower	Upper
113	100		
111	130.1	82.5	123.7#
192	0.0	13.7	20.5#



#36

1,1-Dichloropropene

Concen: 5.819 ug/l

RT: 8.206 min Scan# 1063

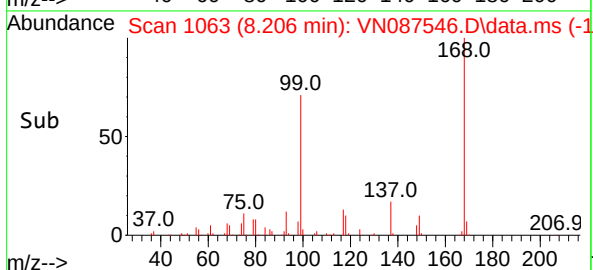
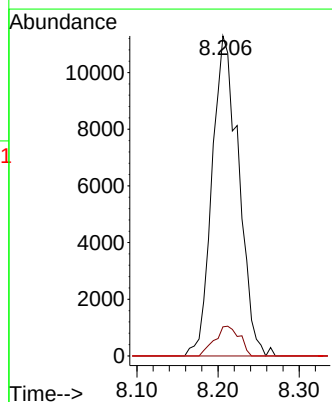
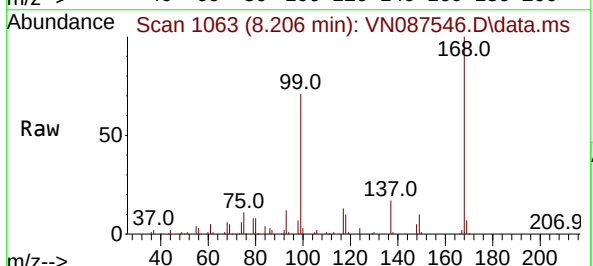
Delta R.T. -0.147 min

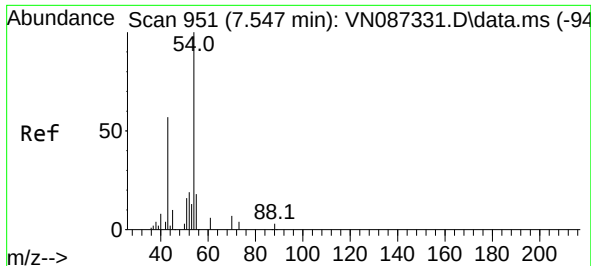
Lab File: VN087546.D

Acq: 13 Aug 2025 19:18

Tgt Ion: 75 Resp: 25720

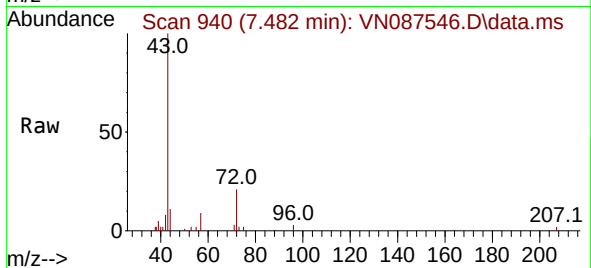
Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.7	50.1#
77	0.0	25.2	37.8#



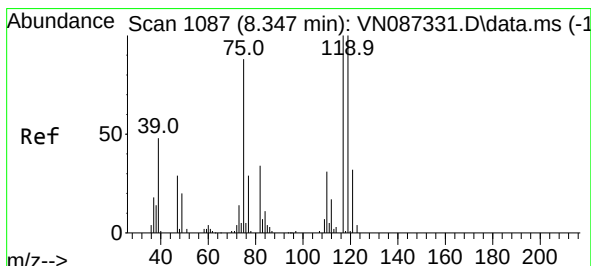
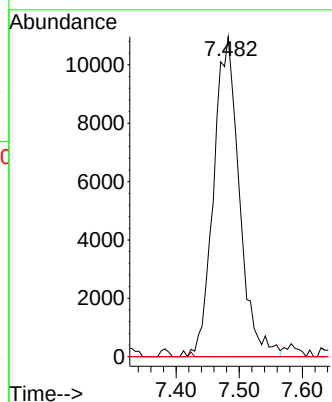
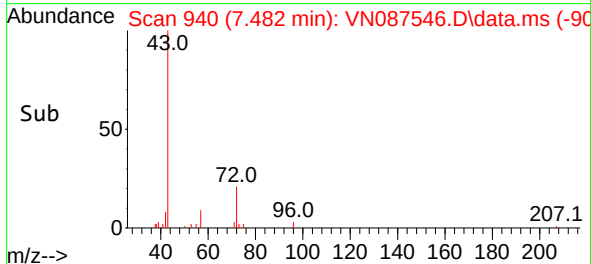


#37
Ethyl Acetate
Concen: 4.863 ug/l
RT: 7.482 min Scan# 94
Delta R.T. -0.065 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

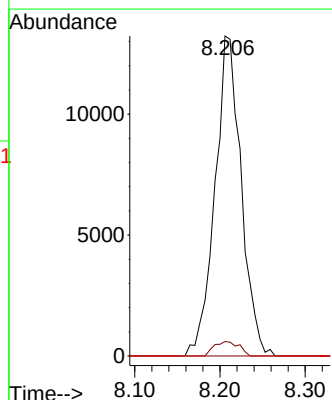
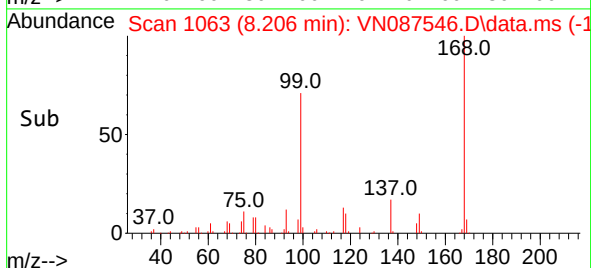
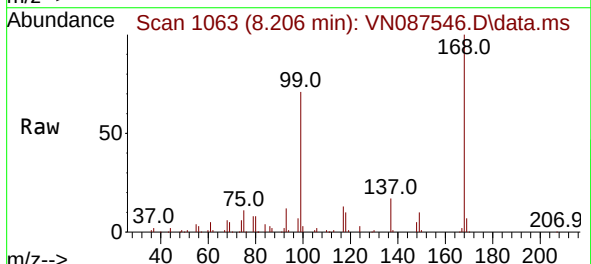


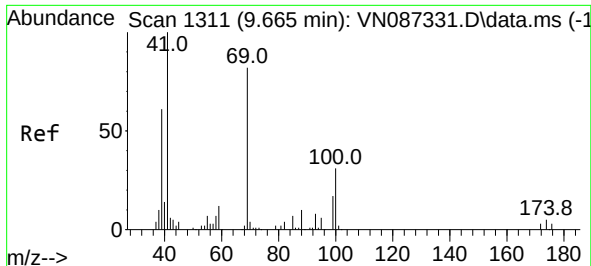
Tgt Ion: 43 Resp: 31044
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.4 11.0#



#38
Carbon Tetrachloride
Concen: 5.797 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

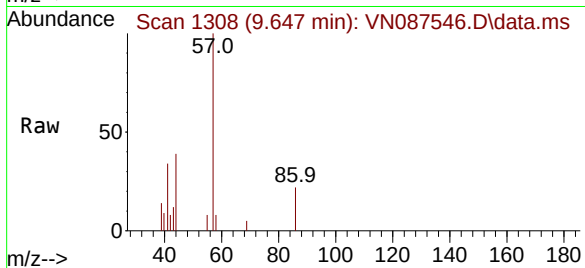
Tgt Ion: 117 Resp: 28224
Ion Ratio Lower Upper
117 100
119 4.5 80.2 120.2#
121 0.0 25.4 38.2#



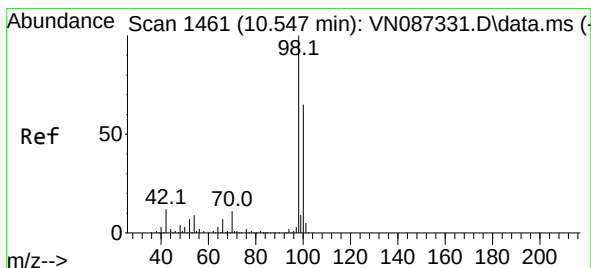
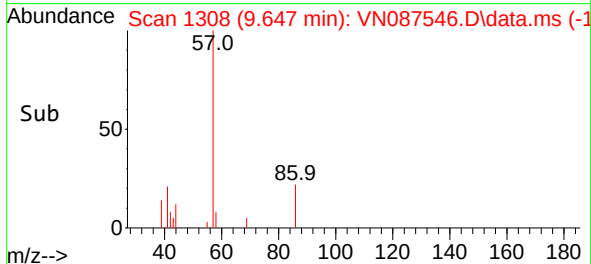
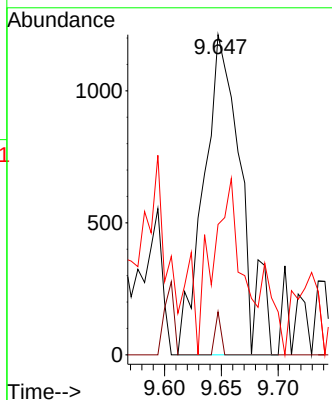


#48
Methyl methacrylate
Concen: 0.621 ug/l
RT: 9.647 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

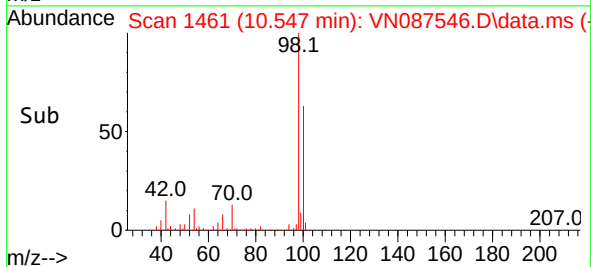
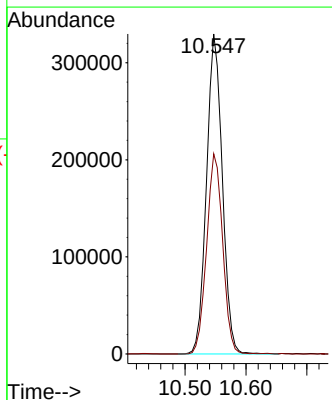
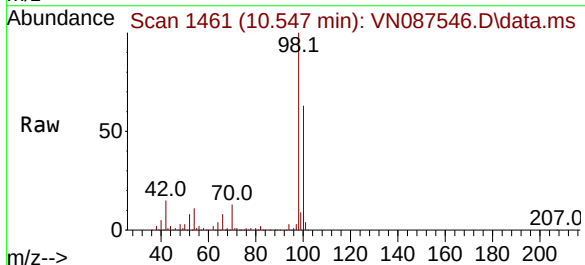


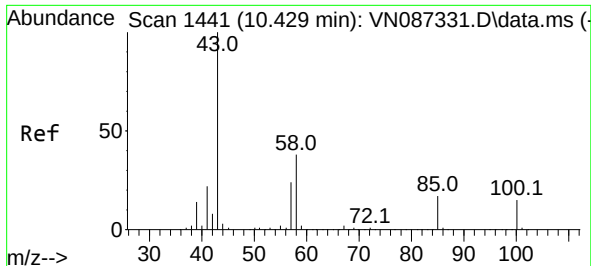
Tgt Ion: 41 Resp: 2769
Ion Ratio Lower Upper
41 100
69 2.1 64.1 96.1#
39 43.4 45.5 68.3#



#50
Toluene-d8
Concen: 49.819 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 98 Resp: 594500
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1

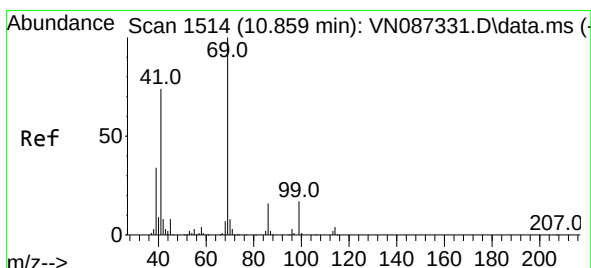
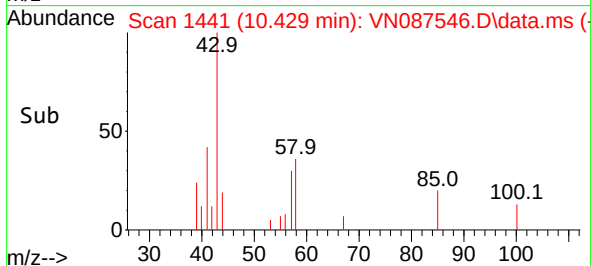
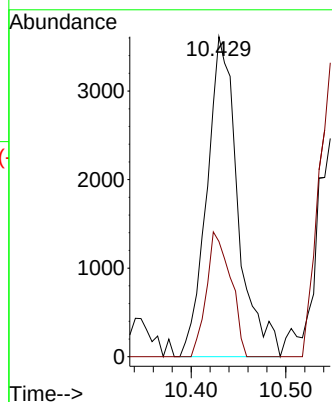
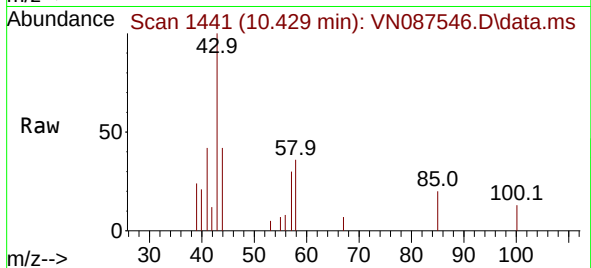




#51
4-Methyl-2-Pentanone
Concen: 1.314 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

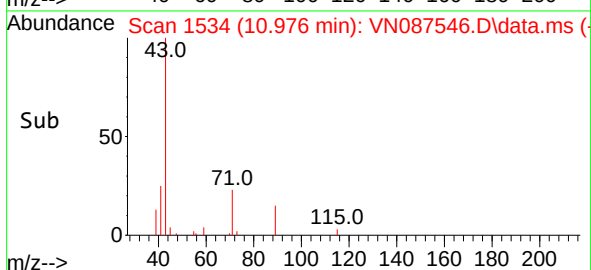
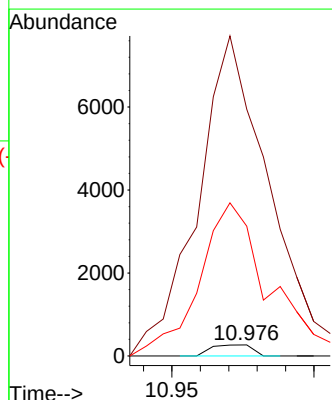
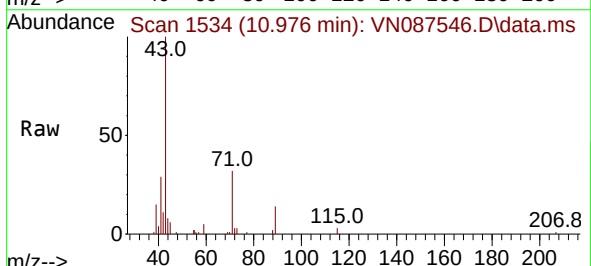
Instrument :
MSVOA_N
ClientSampleId :

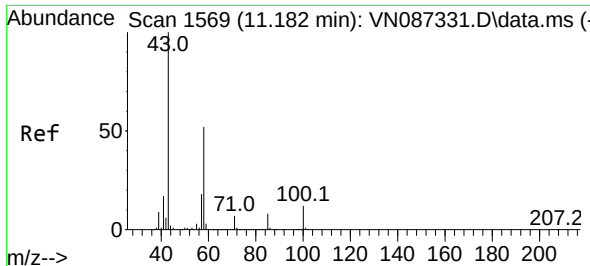
Tgt Ion: 43 Resp: 8237
Ion Ratio Lower Upper
43 100
58 30.5 30.8 46.2#



#56
Ethyl methacrylate
Concen: 0.681 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.117 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 69 Resp: 268
Ion Ratio Lower Upper
69 100
41 5263.4 55.1 82.7#
39 2451.9 27.9 41.9#

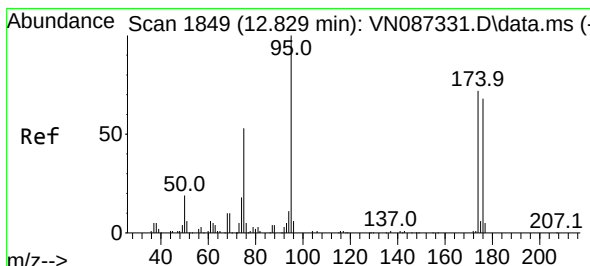
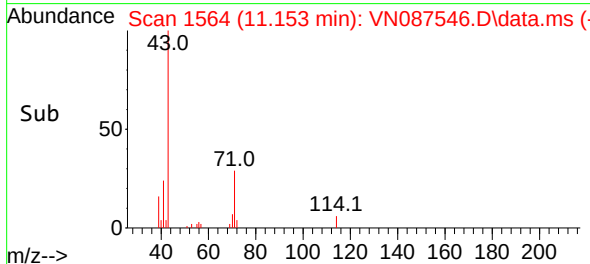
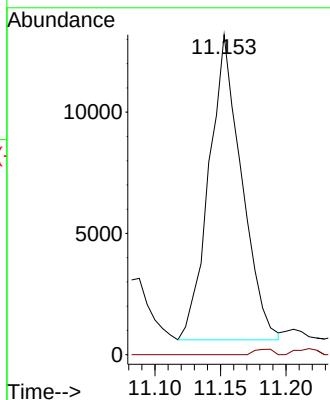
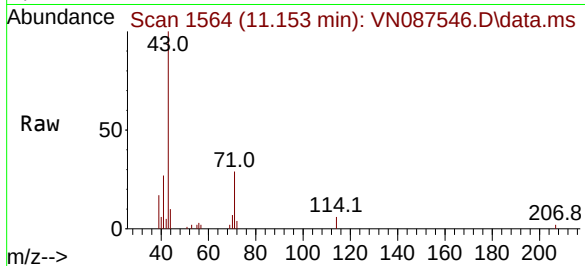




#59
2-Hexanone
Concen: 5.225 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.029 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

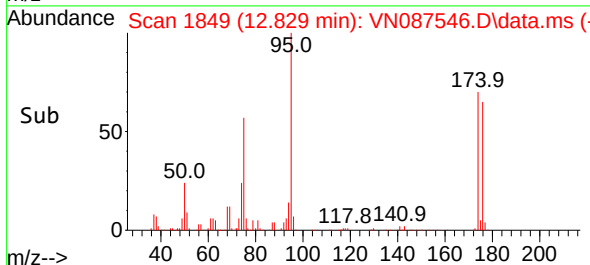
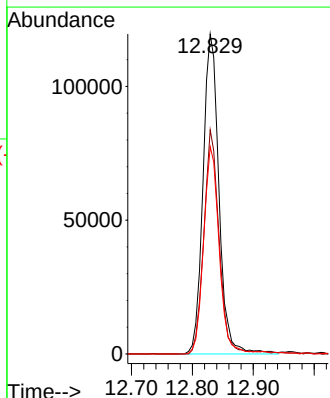
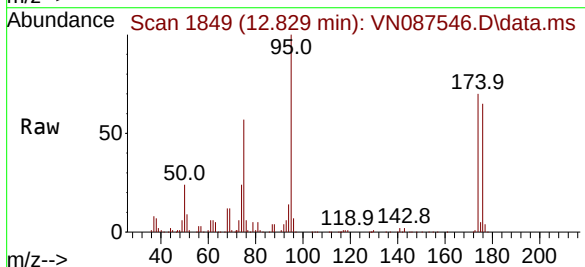
Instrument :
MSVOA_N
ClientSampleId :

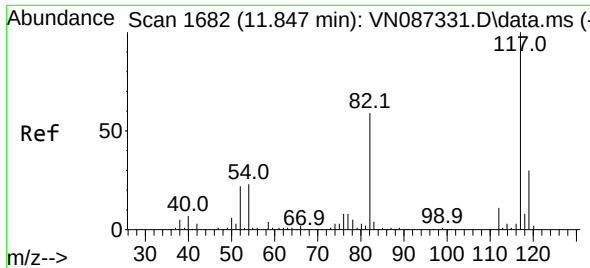
Tgt Ion: 43 Resp: 21725
Ion Ratio Lower Upper
43 100
58 0.0 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 49.430 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 95 Resp: 217928
Ion Ratio Lower Upper
95 100
174 66.5 0.0 149.4
176 62.9 0.0 141.2

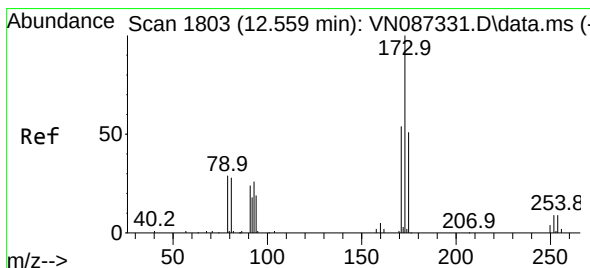
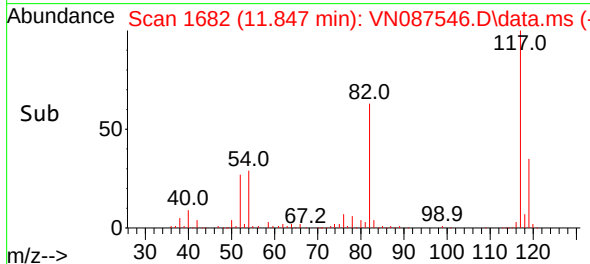
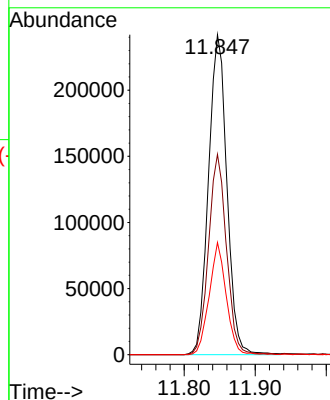
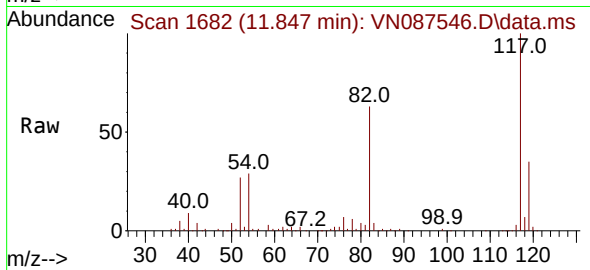




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

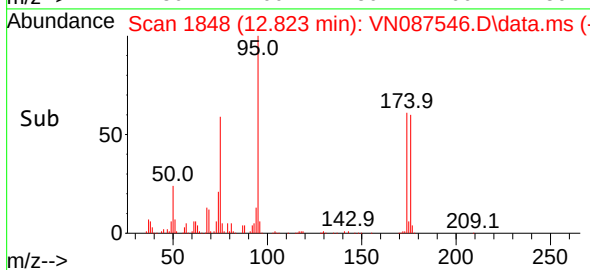
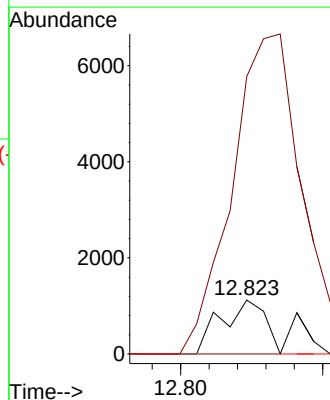
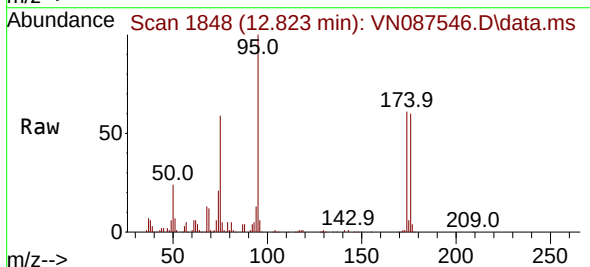
Instrument :
MSVOA_N
ClientSampleId :

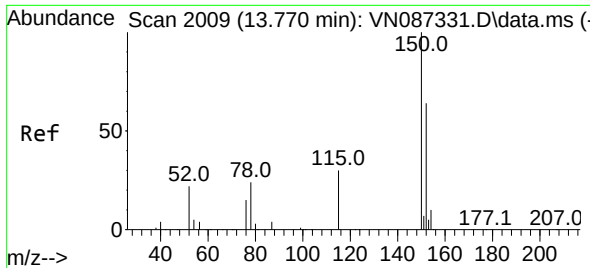
Tgt Ion:117 Resp: 435515
Ion Ratio Lower Upper
117 100
82 62.6 47.4 71.2
119 35.1 23.8 35.8



#71
Bromoform
Concen: 0.452 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

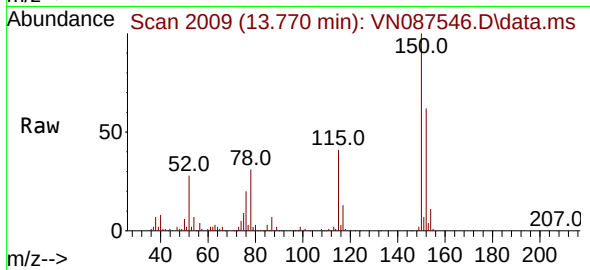
Tgt Ion:173 Resp: 1215
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0



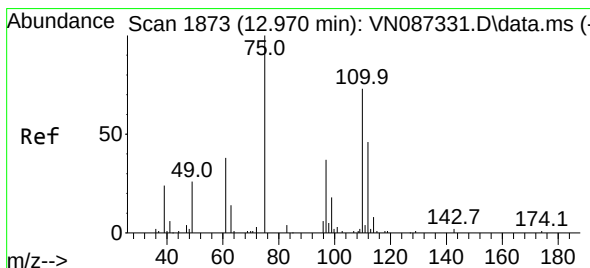
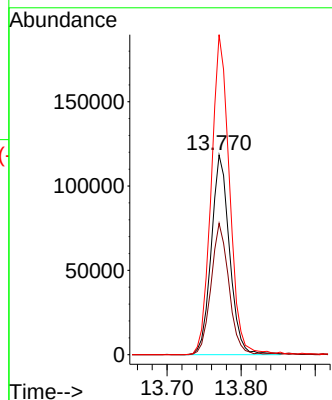
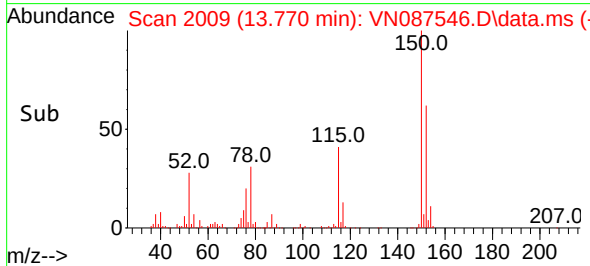


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

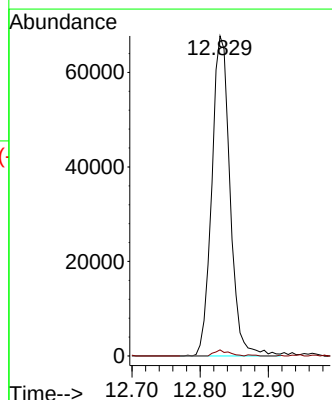
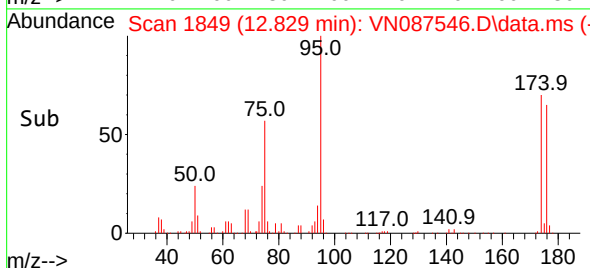
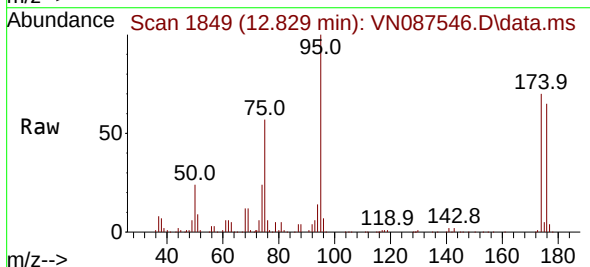


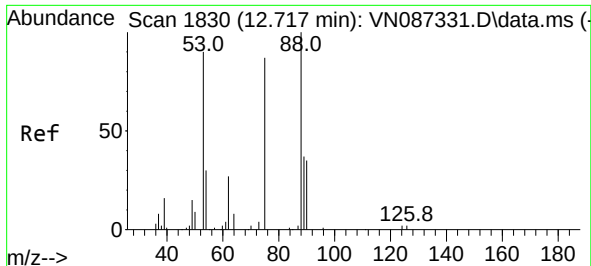
Tgt Ion:152 Resp: 203025
Ion Ratio Lower Upper
152 100
115 64.2 31.1 93.5
150 159.8 0.0 349.0



#76
1,2,3-Trichloropropane
Concen: 27.836 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087546.D
Acq: 13 Aug 2025 19:18

Tgt Ion: 75 Resp: 126729
Ion Ratio Lower Upper
75 100
77 1.5 94.5 283.6#

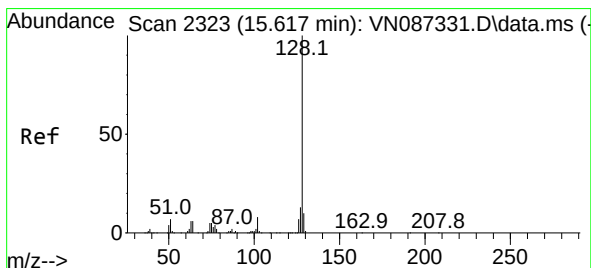
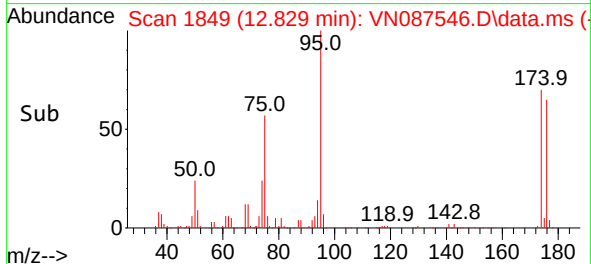
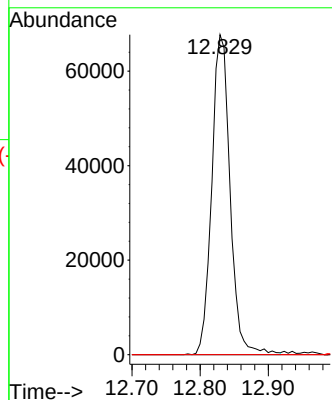
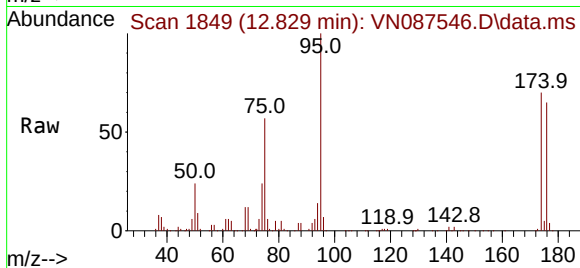




#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.164 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087546.D
 Acq: 13 Aug 2025 19:18

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 126729
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.5 125.3#
 89 0.0 38.4 57.6#



#95
 Naphthalene
 Concen: 4.880 ug/l
 RT: 15.611 min Scan# 2322
 Delta R.T. -0.006 min
 Lab File: VN087546.D
 Acq: 13 Aug 2025 19:18

Tgt Ion:128 Resp: 62569
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.5 15.7
 129 11.2 8.4 12.6

