

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092425\
 Data File : VN087944.D
 Acq On : 24 Sep 2025 13:11
 Operator : JC\MD
 Sample : Q3167-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 25 03:10:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

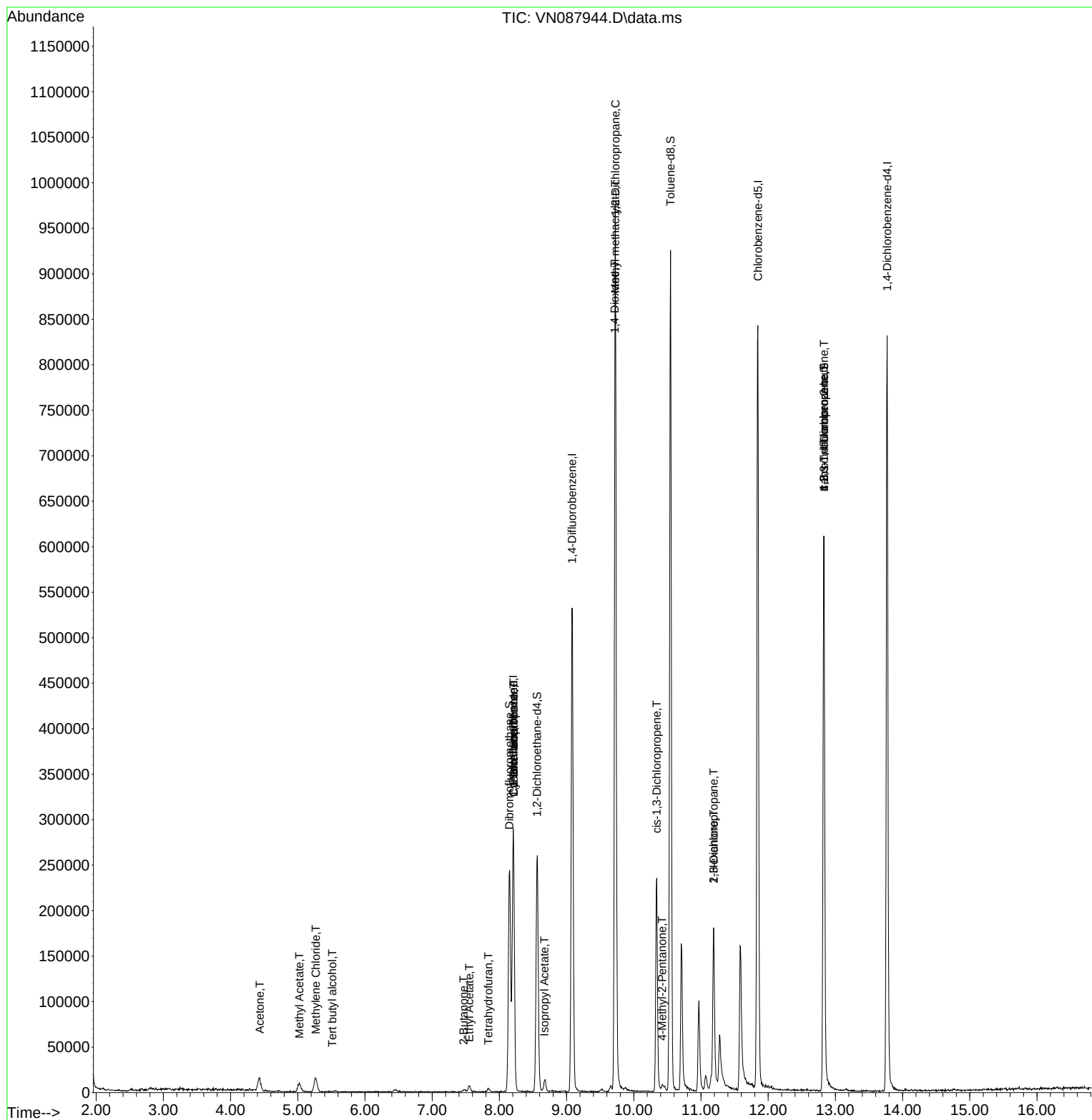
Internal Standards						
1) Pentafluorobenzene	8.206	168	199415	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	456277	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	488745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228467	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	215063	64.083	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 128.160%#		
35) Dibromofluoromethane	8.147	113	173904	52.494	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 104.980%		
50) Toluene-d8	10.547	98	613878	52.694	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 105.380%		
62) 4-Bromofluorobenzene	12.829	95	210558	50.564	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 101.120%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.512	59	183	0.379	ug/l #	71
16) Acetone	4.436	43	25817	18.697	ug/l	98
18) Methyl Acetate	5.024	43	19802	5.730	ug/l	93
20) Methylene Chloride	5.271	84	11872	4.248	ug/l	89
25) 2-Butanone	7.471	43	4761	2.256	ug/l #	84
29) Tetrahydrofuran	7.835	42	1340	0.992	ug/l #	77
31) Cyclohexane	8.212	56	5671	1.507	ug/l #	52
36) 1,1-Dichloropropene	8.212	75	17457	4.382	ug/l #	49
37) Ethyl Acetate	7.553	43	9220	1.763	ug/l #	90
38) Carbon Tetrachloride	8.212	117	20838	4.559	ug/l #	18
43) Isopropyl Acetate	8.671	43	14668	1.781	ug/l #	91
45) 1,2-Dichloropropane	9.729	63	1376	0.416	ug/l #	43
48) Methyl methacrylate	9.723	41	96953	25.427	ug/l #	42
49) 1,4-Dioxane	9.718	88	64	1.136	ug/l #	1
51) 4-Methyl-2-Pentanone	10.423	43	3422	0.666	ug/l #	77
54) cis-1,3-Dichloropropene	10.341	75	40892	7.516	ug/l #	63
57) 1,3-Dichloropropane	11.188	76	2305	0.416	ug/l #	42
59) 2-Hexanone	11.188	43	31257	9.201	ug/l #	54
76) 1,2,3-Trichloropropane	12.829	75	115352	25.613	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	115352	71.124	ug/l #	9

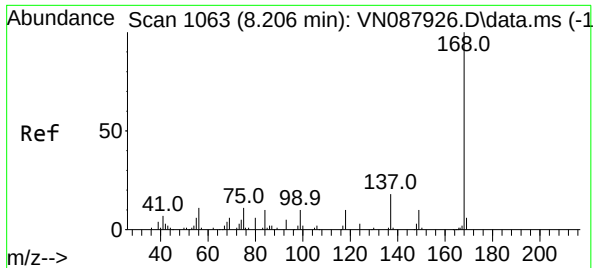
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 24 05:05:30 2025
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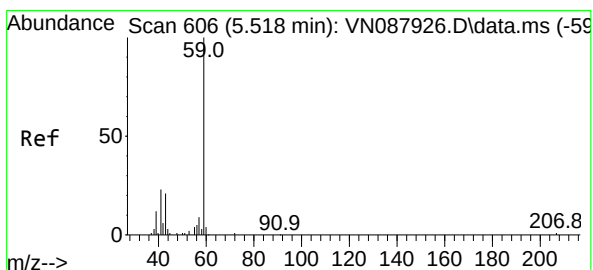
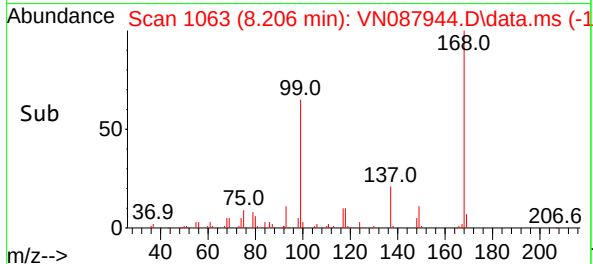
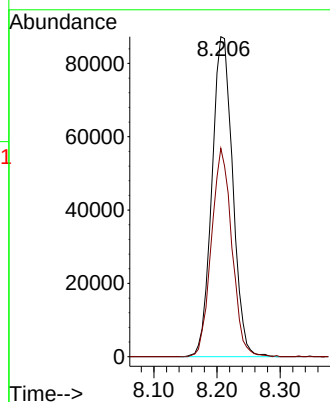
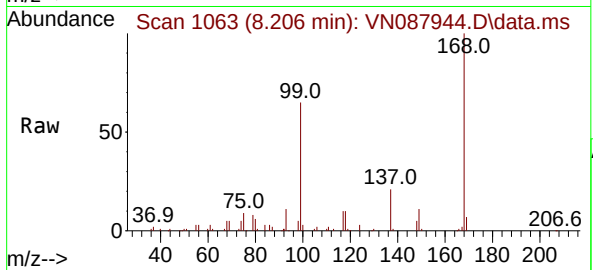




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

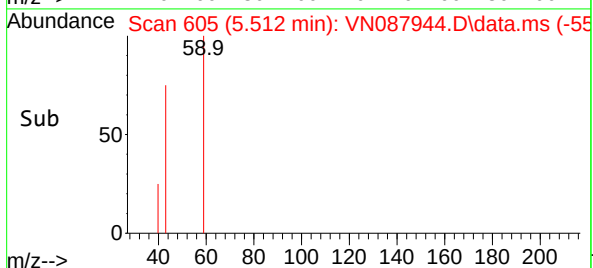
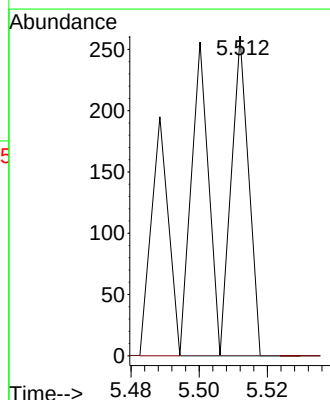
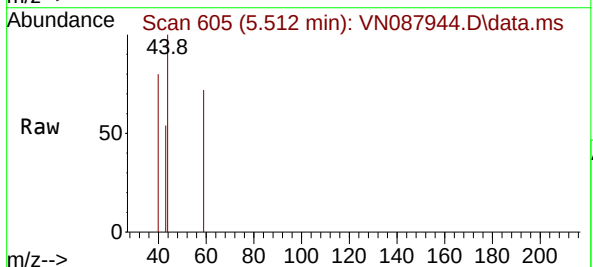
Instrument :
MSVOA_N
ClientSampleId :

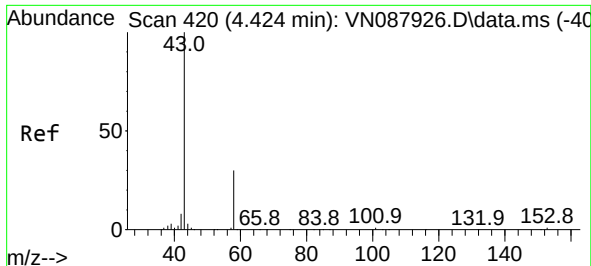
Tgt Ion:168 Resp: 199415
Ion Ratio Lower Upper
168 100
99 65.1 52.2 78.2



#11
Tert butyl alcohol
Concen: 0.379 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 59 Resp: 183
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

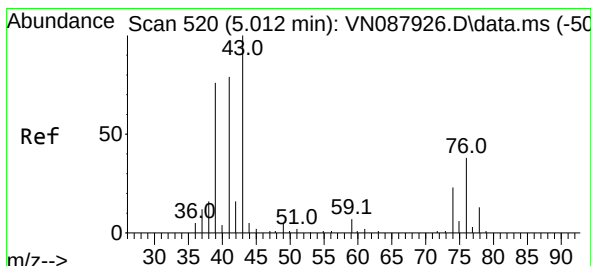
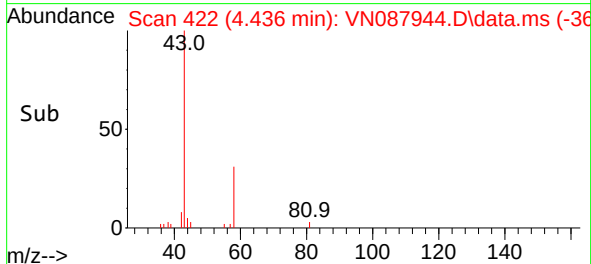
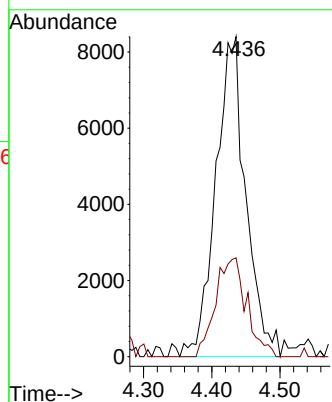
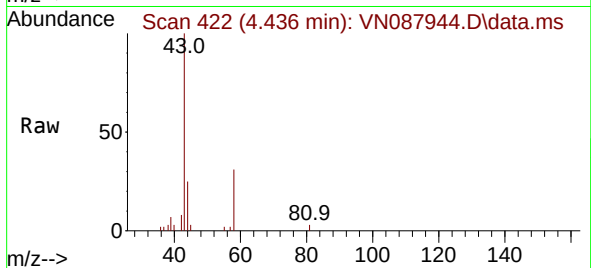




#16
Acetone
Concen: 18.697 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

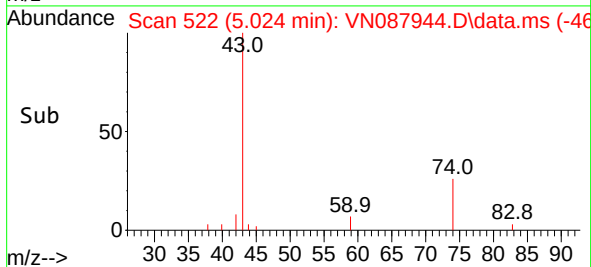
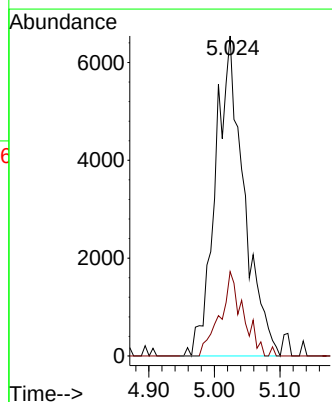
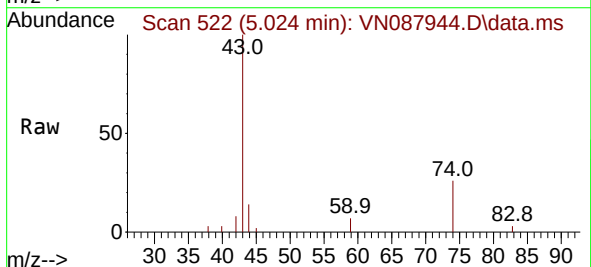
Instrument :
MSVOA_N
ClientSampleId :

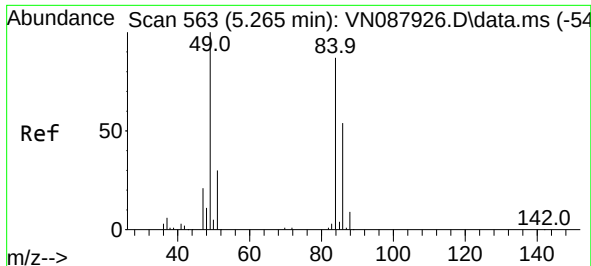
Tgt Ion: 43 Resp: 25817
Ion Ratio Lower Upper
43 100
58 30.9 24.1 36.1



#18
Methyl Acetate
Concen: 5.730 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

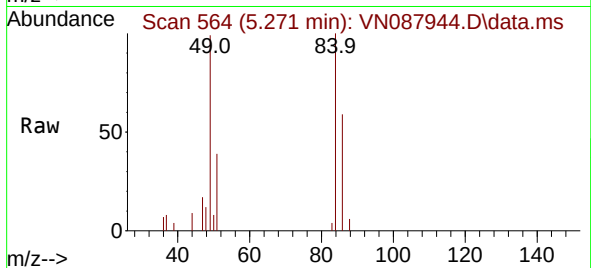
Tgt Ion: 43 Resp: 19802
Ion Ratio Lower Upper
43 100
74 21.0 19.7 29.5



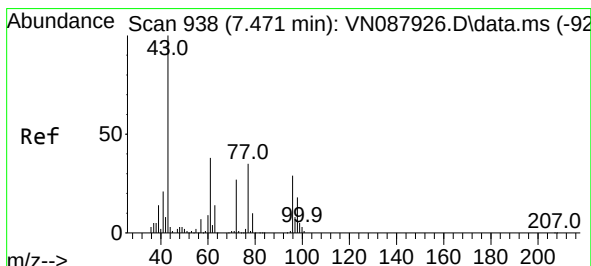
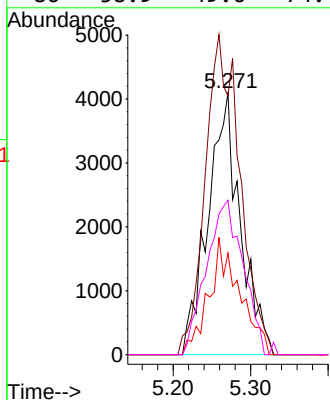
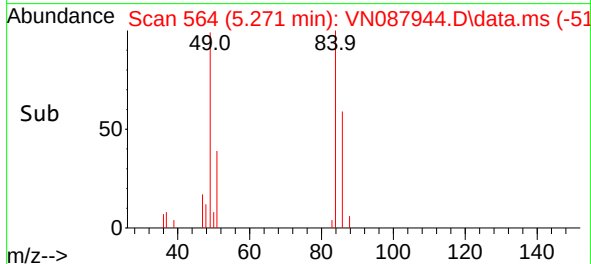


#20
Methylene Chloride
Concen: 4.248 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :

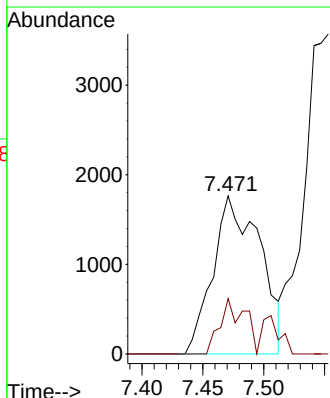
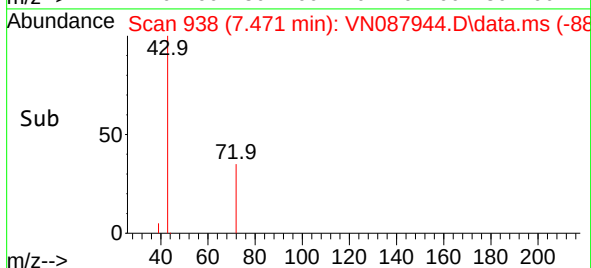
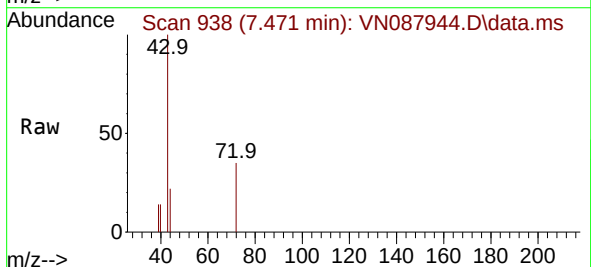


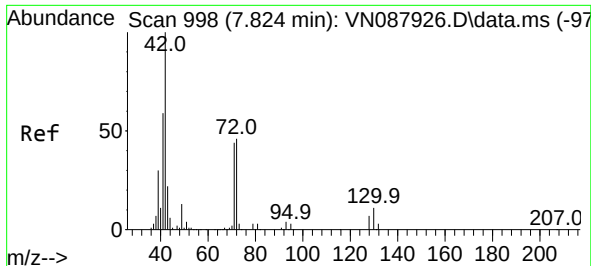
Tgt Ion:	84	Resp:	11872
Ion	Ratio	Lower	Upper
84	100		
49	98.7	92.1	138.1
51	38.7	27.7	41.5
86	58.9	49.6	74.4



#25
2-Butanone
Concen: 2.256 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion:	43	Resp:	4761
Ion	Ratio	Lower	Upper
43	100		
72	35.0	21.5	32.3#





#29

Tetrahydrofuran

Concen: 0.992 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.012 min

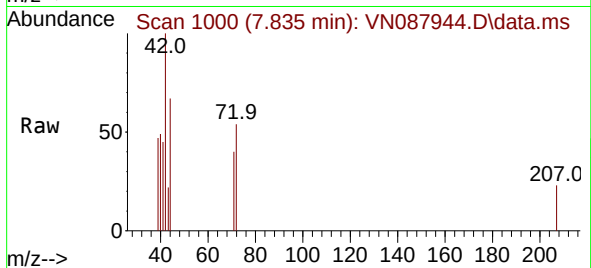
Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

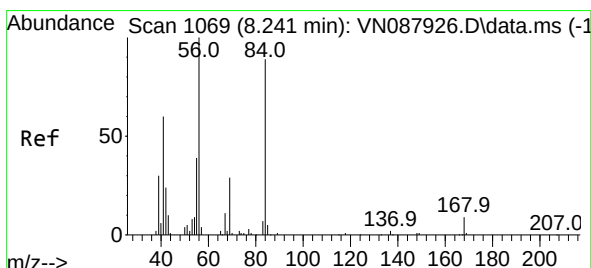
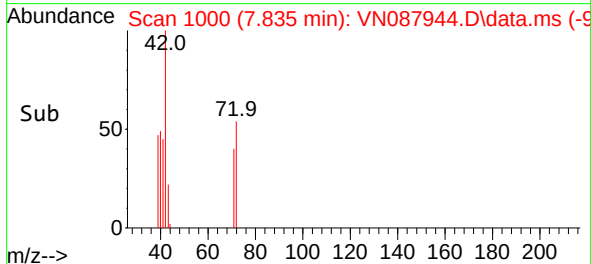
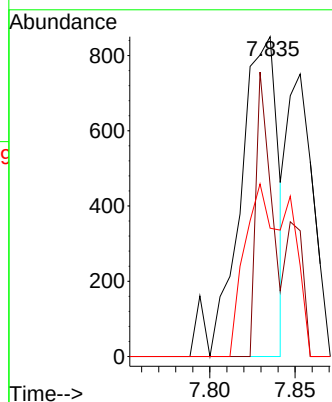
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	1340
Ion Ratio	Lower	Upper	
42	100		
72	54.7	36.5	54.7
71	63.3	33.8	50.8



#31

Cyclohexane

Concen: 1.507 ug/l

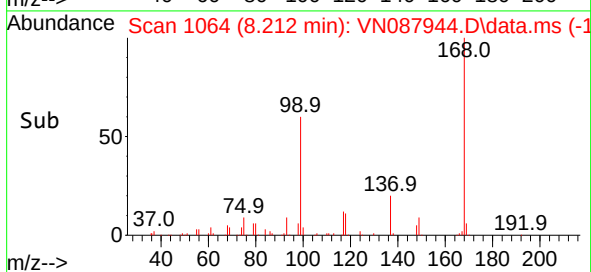
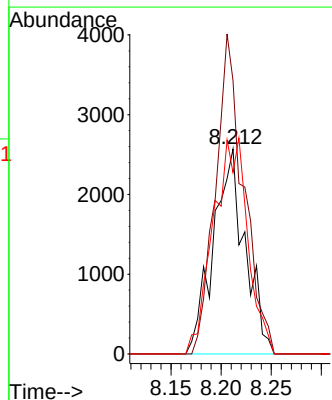
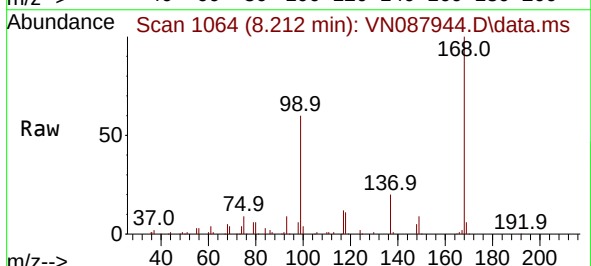
RT: 8.212 min Scan# 1064

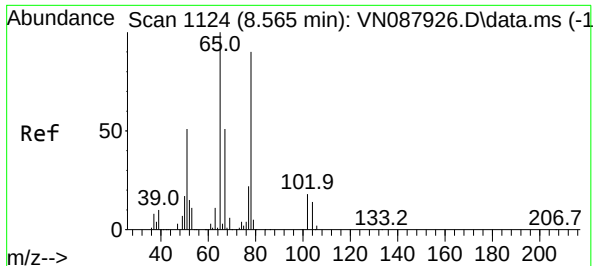
Delta R.T. -0.030 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

Tgt Ion:	56	Resp:	5671
Ion Ratio	Lower	Upper	
56	100		
69	133.4	23.4	35.0
84	88.5	70.8	106.2





#33

1,2-Dichloroethane-d4

Concen: 64.083 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN087944.D

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Instrument :

MSVOA_N

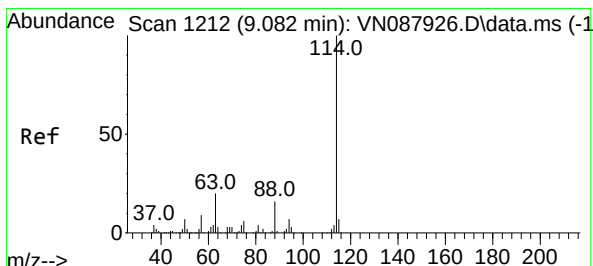
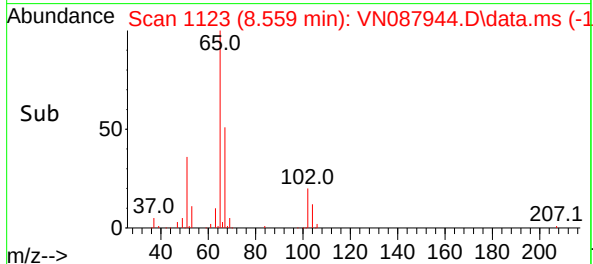
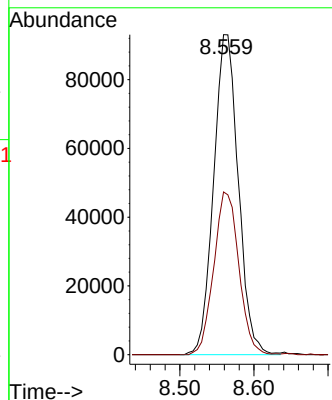
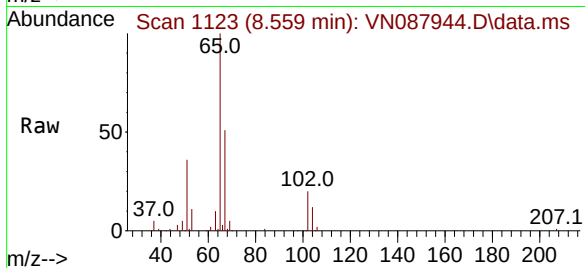
ClientSampleId :

Tgt Ion: 65 Resp: 215063

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

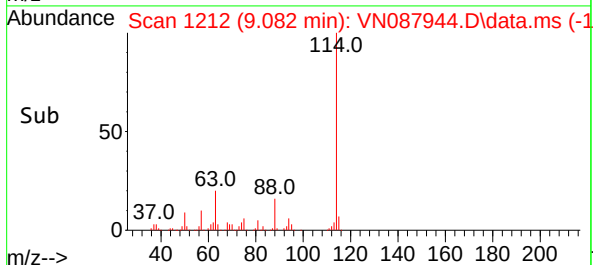
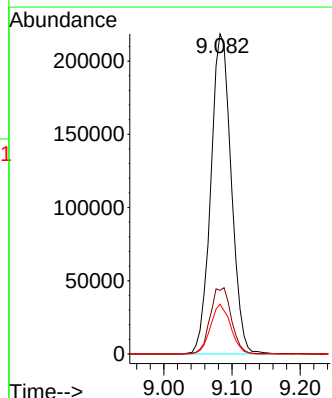
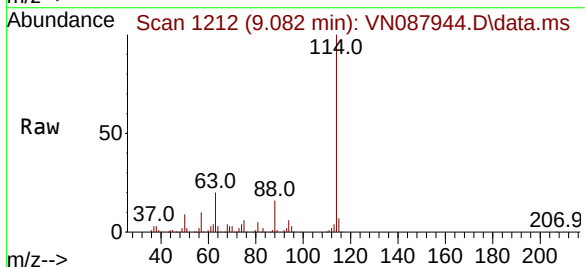
Tgt Ion: 114 Resp: 456277

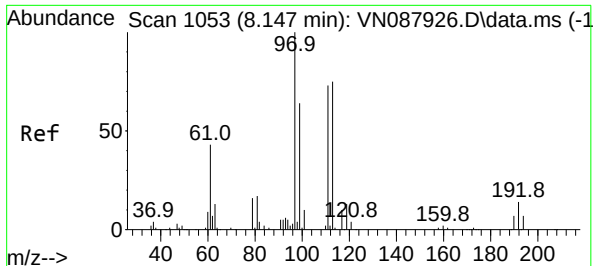
Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.0

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.494 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.000 min

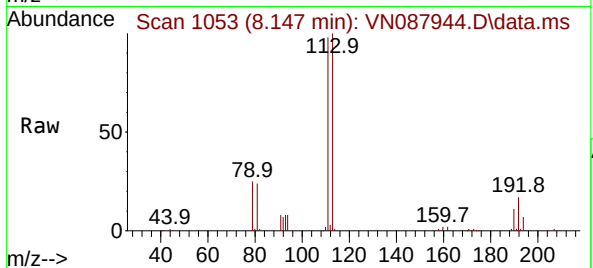
Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :



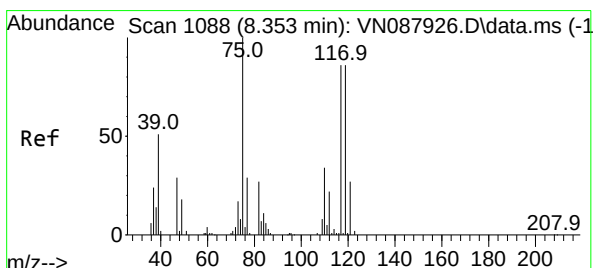
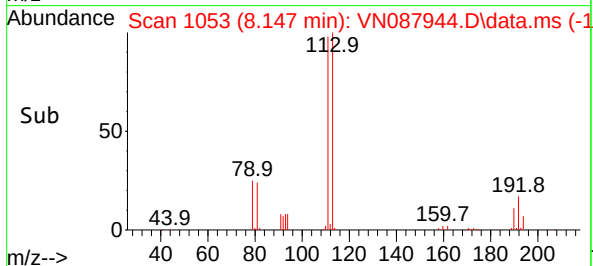
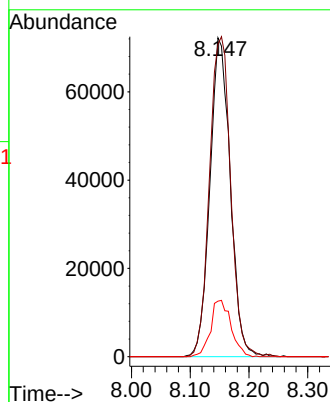
Tgt Ion:113 Resp: 173904

Ion Ratio Lower Upper

113 100

111 104.4 82.2 123.2

192 17.8 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.382 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

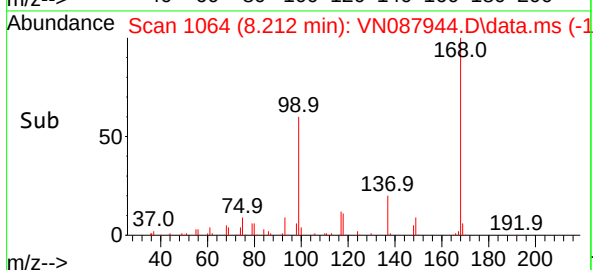
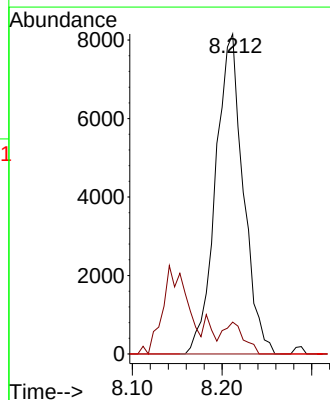
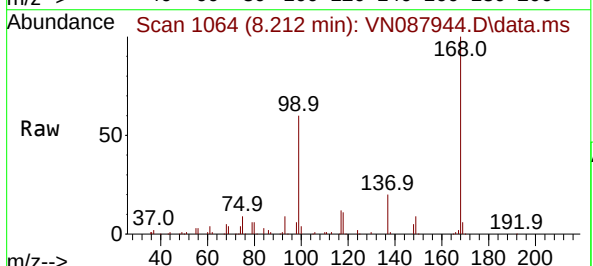
Tgt Ion: 75 Resp: 17457

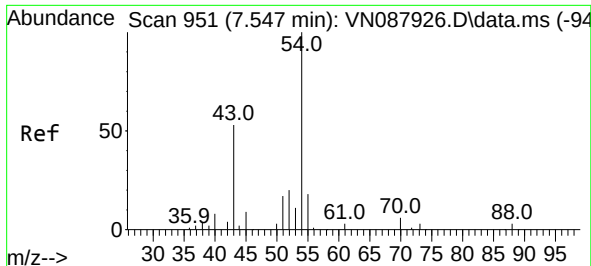
Ion Ratio Lower Upper

75 100

110 7.4 17.1 51.3#

77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.763 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.006 min

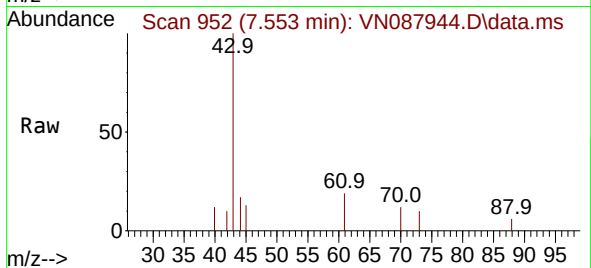
Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

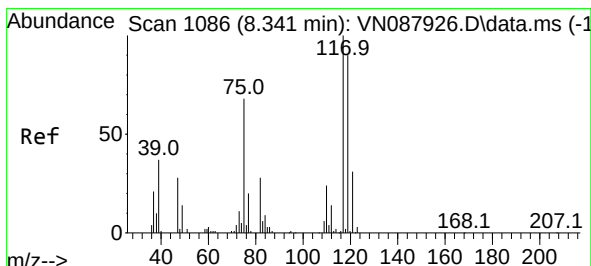
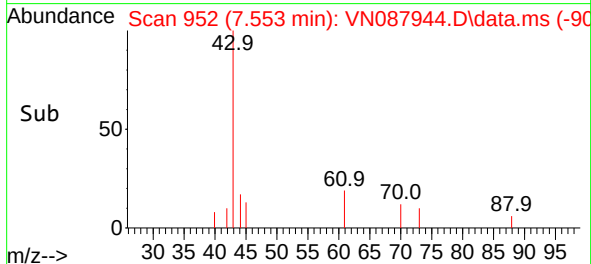
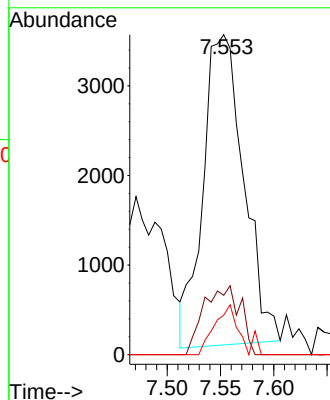
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp: 9220
Ion Ratio	Lower Upper
43	100
61	19.8 10.7 16.1#
70	8.9 7.8 11.8



#38

Carbon Tetrachloride

Concen: 4.559 ug/l

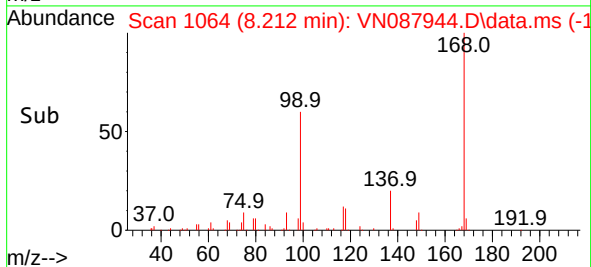
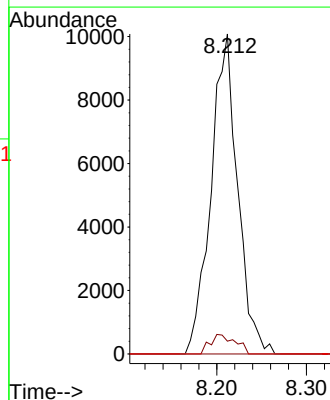
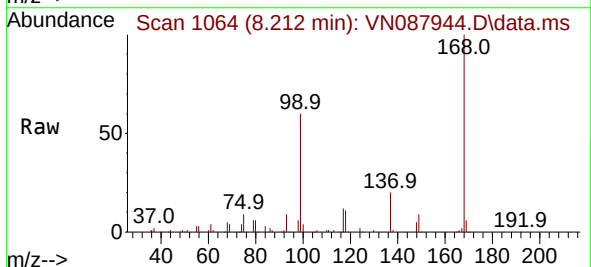
RT: 8.212 min Scan# 1064

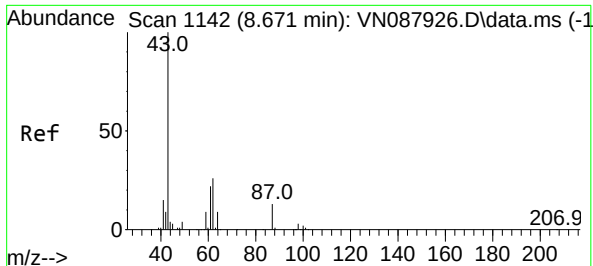
Delta R.T. -0.130 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

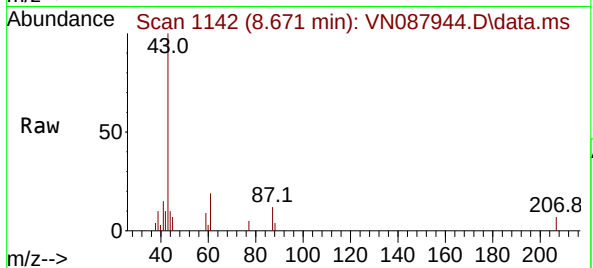
Tgt Ion: 117	Resp: 20838
Ion Ratio	Lower Upper
117	100
119	4.0 72.1 108.1#
121	0.0 24.6 36.8#



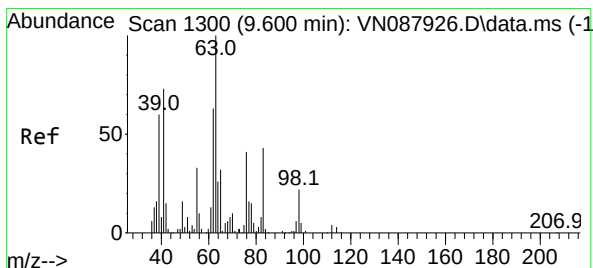
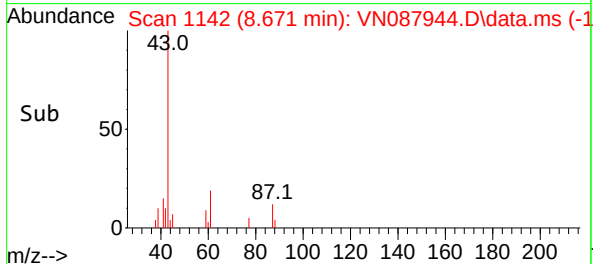
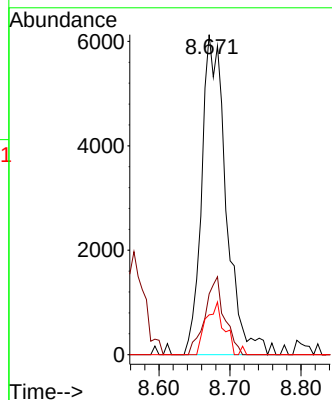


#43
Isopropyl Acetate
Concen: 1.781 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :

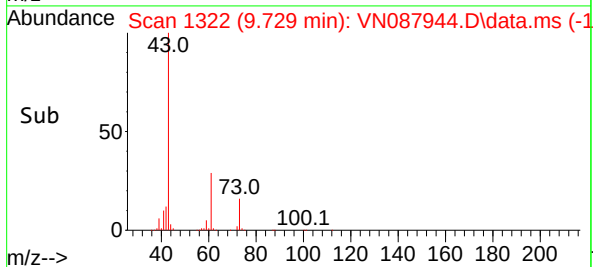
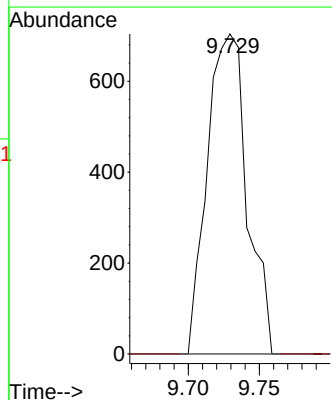
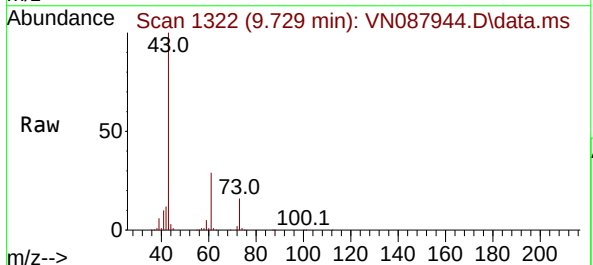


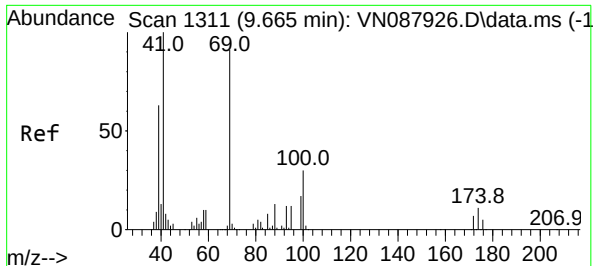
Tgt Ion: 43 Resp: 14668
Ion Ratio Lower Upper
43 100
61 19.4 20.2 30.2#
87 12.0 10.9 16.3



#45
1,2-Dichloropropane
Concen: 0.416 ug/l
RT: 9.729 min Scan# 1322
Delta R.T. 0.129 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 63 Resp: 1376
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.0#

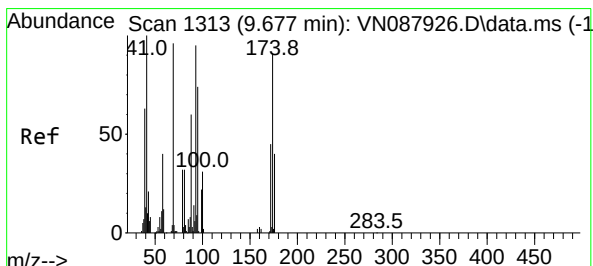
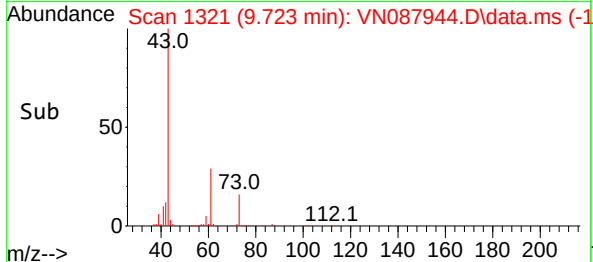
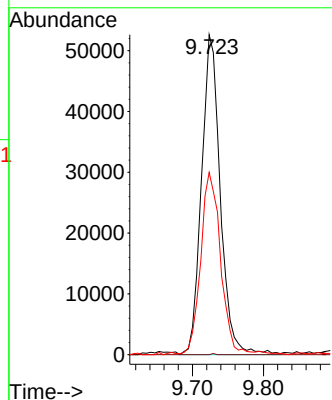
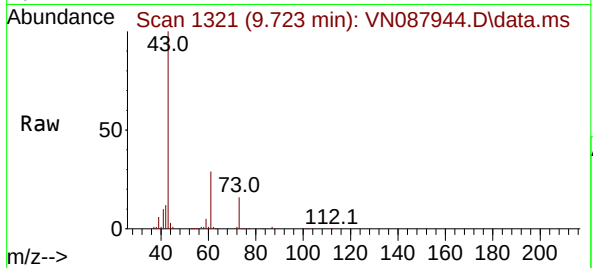




#48
Methyl methacrylate
Concen: 25.427 ug/l
RT: 9.723 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

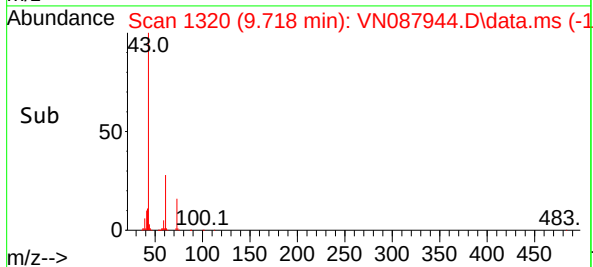
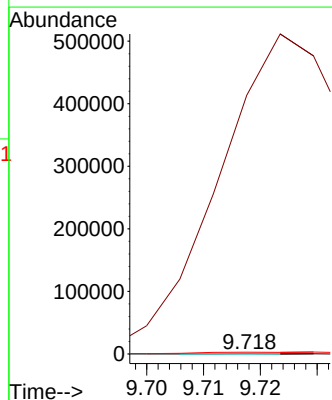
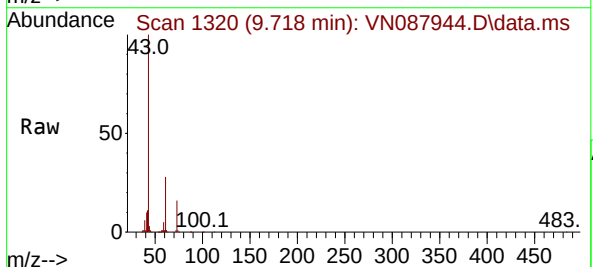
Instrument :
MSVOA_N
ClientSampleId :

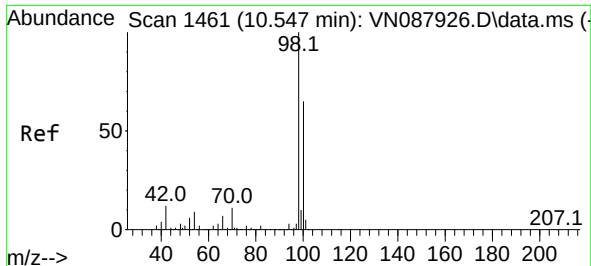
Tgt Ion: 41 Resp: 96953
Ion Ratio Lower Upper
41 100
69 0.1 70.9 106.3#
39 59.0 52.9 79.3



#49
1,4-Dioxane
Concen: 1.136 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.041 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 1481214.1 22.6 33.8#
58 9926.6 57.4 86.2#

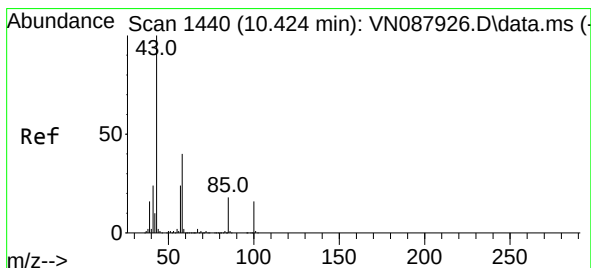
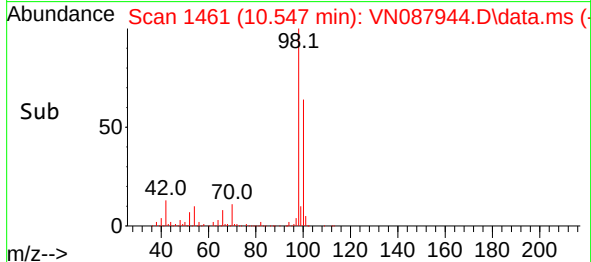
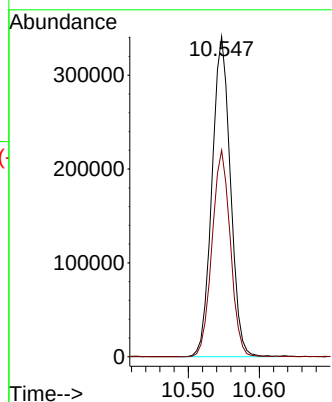
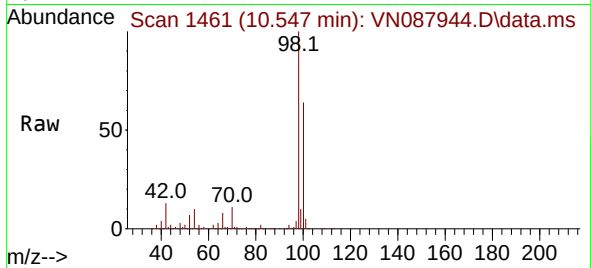




#50
Toluene-d8
Concen: 52.694 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

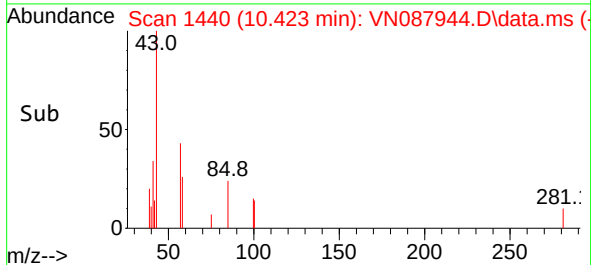
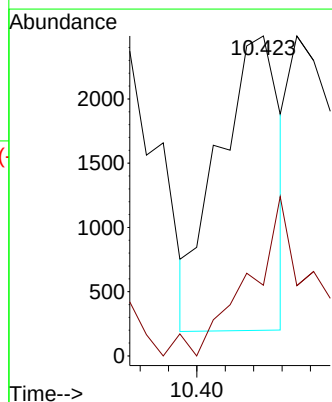
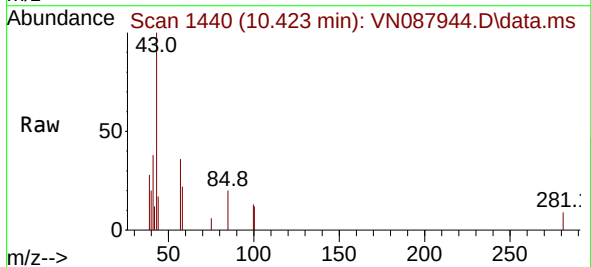
Instrument :
MSVOA_N
ClientSampleId :

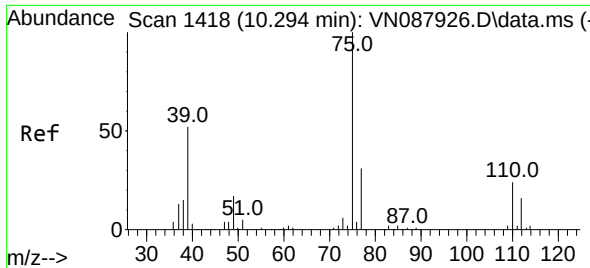
Tgt Ion: 98 Resp: 613878
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.666 ug/l
RT: 10.423 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 43 Resp: 3422
Ion Ratio Lower Upper
43 100
58 52.9 31.0 46.6#

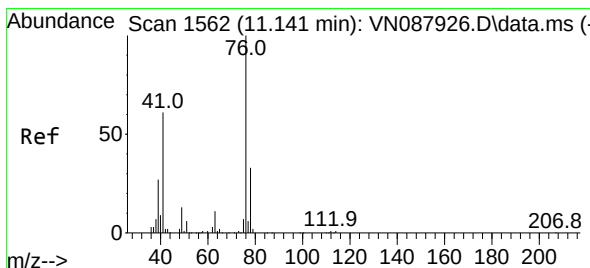
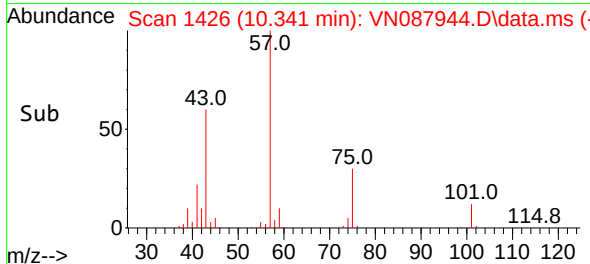
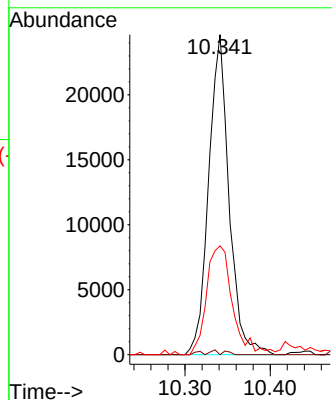
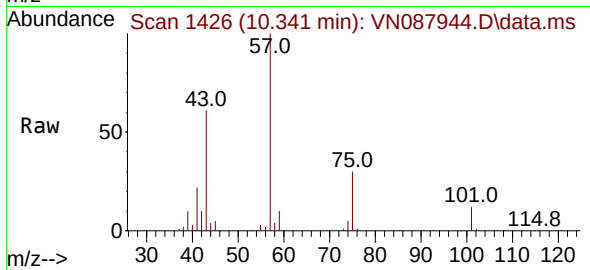




#54
cis-1,3-Dichloropropene
Concen: 7.516 ug/l
RT: 10.341 min Scan# 1418
Delta R.T. 0.047 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

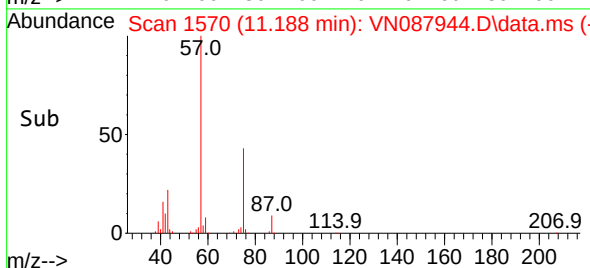
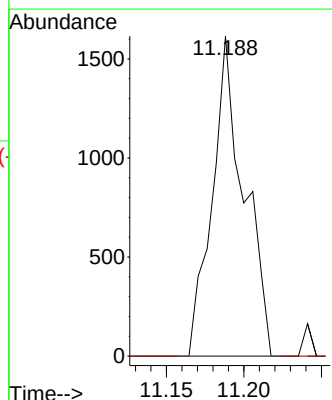
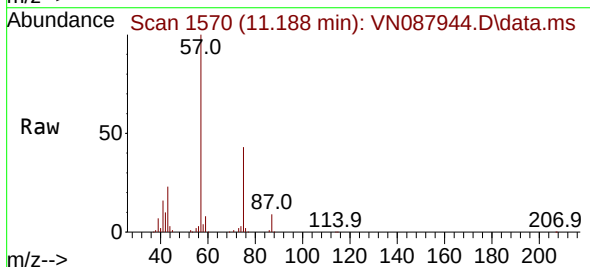
Instrument :
MSVOA_N
ClientSampleId :

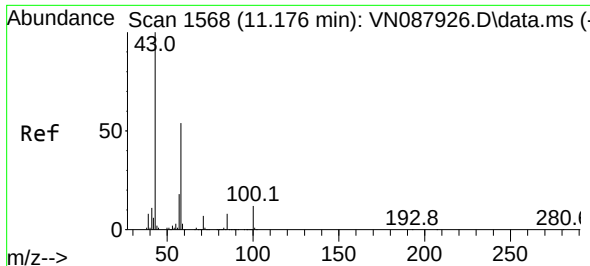
Tgt Ion: 75 Resp: 40892
Ion Ratio Lower Upper
75 100
77 0.0 24.7 37.1#
39 34.0 41.4 62.0#



#57
1,3-Dichloropropane
Concen: 0.416 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 76 Resp: 2305
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

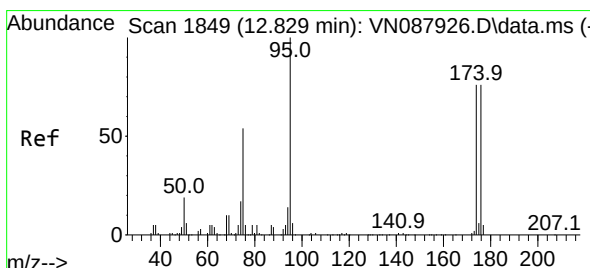
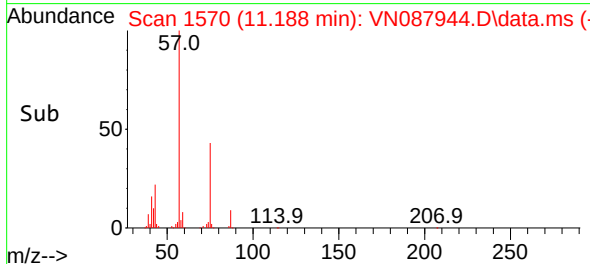
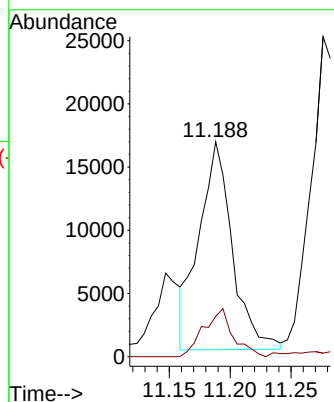
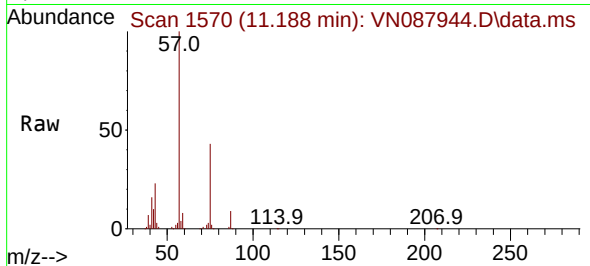




#59
2-Hexanone
Concen: 9.201 ug/l
RT: 11.188 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

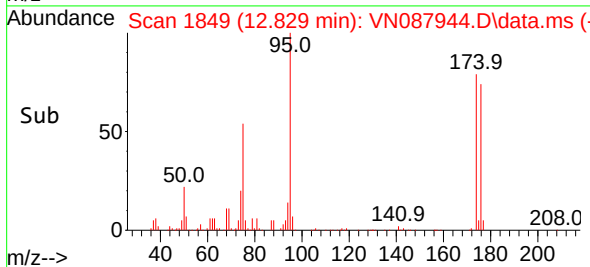
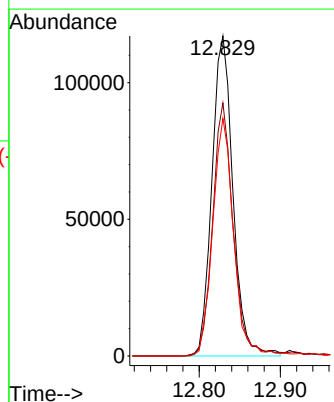
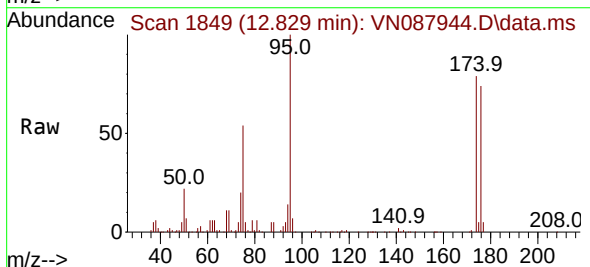
Instrument :
MSVOA_N
ClientSampleId :

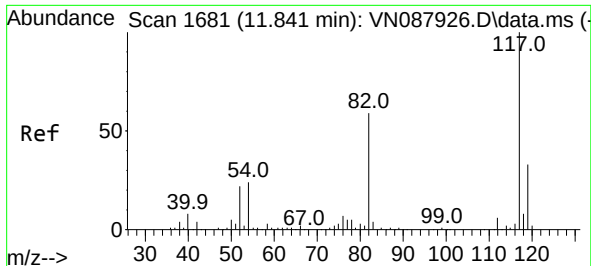
Tgt Ion: 43 Resp: 31257
Ion Ratio Lower Upper
43 100
58 20.2 26.4 79.2#



#62
4-Bromofluorobenzene
Concen: 50.564 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion: 95 Resp: 210558
Ion Ratio Lower Upper
95 100
174 77.4 0.0 159.2
176 74.7 0.0 152.6

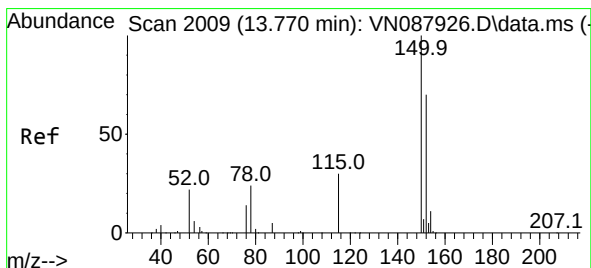
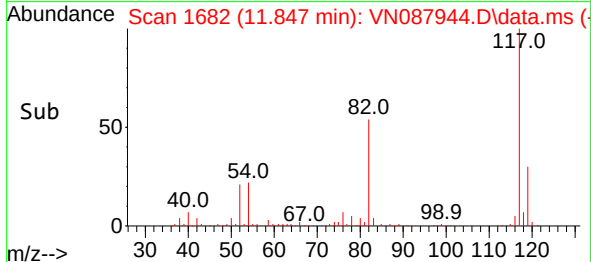
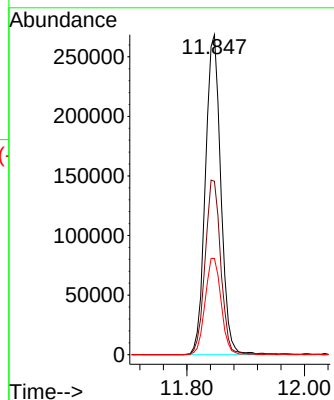
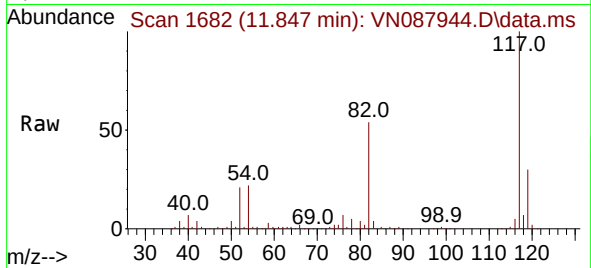




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

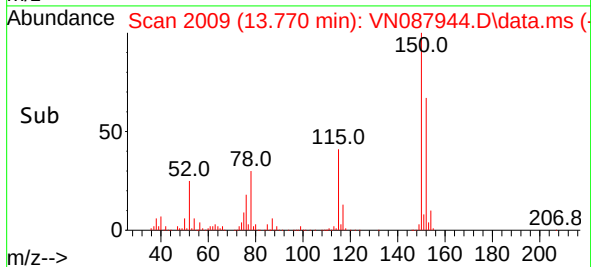
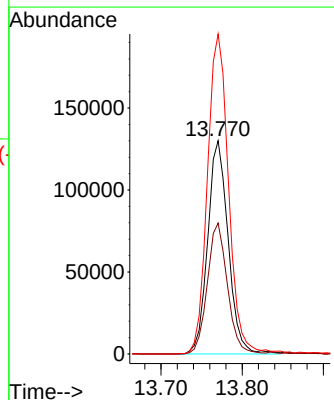
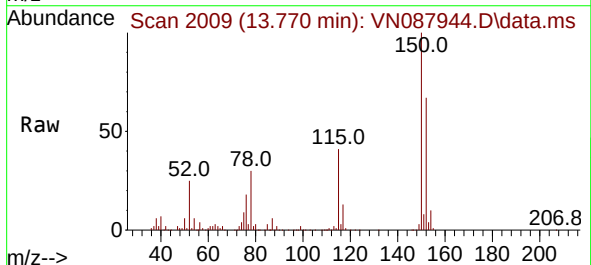
Instrument :
MSVOA_N
ClientSampleId :

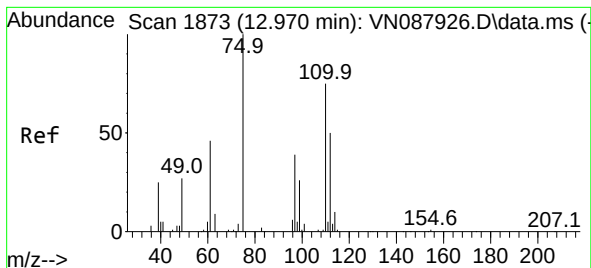
Tgt Ion:117 Resp: 488745
Ion Ratio Lower Upper
117 100
82 54.2 47.0 70.4
119 30.0 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN087944.D
Acq: 24 Sep 2025 13:11

Tgt Ion:152 Resp: 228467
Ion Ratio Lower Upper
152 100
115 60.0 29.9 89.7
150 154.6 0.0 335.0





#76

1,2,3-Trichloropropane

Concen: 25.613 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

Instrument :

MSVOA_N

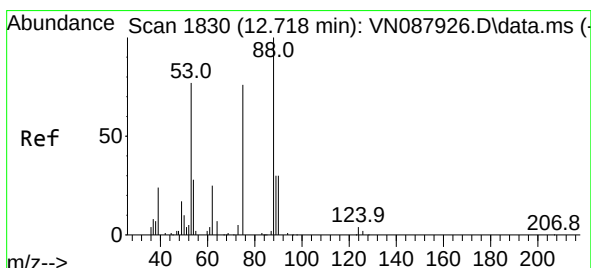
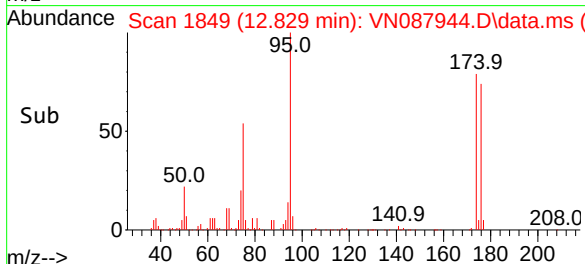
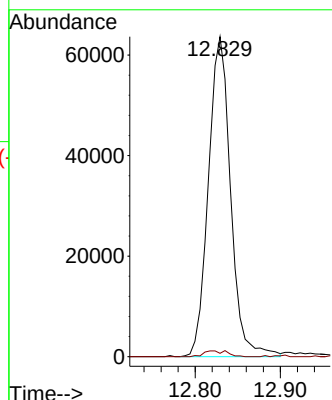
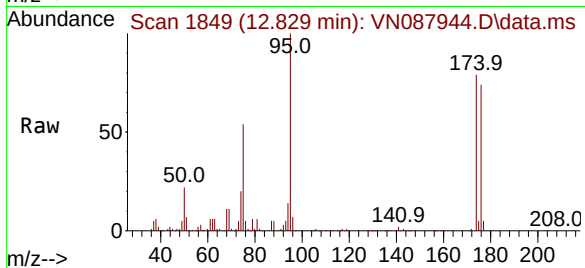
ClientSampleId :

Tgt Ion: 75 Resp: 115352

Ion Ratio Lower Upper

75 100

77 1.9 89.5 268.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.124 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087944.D

Acq: 24 Sep 2025 13:11

Tgt Ion: 75 Resp: 115352

Ion Ratio Lower Upper

75 100

53 0.0 82.0 123.0#

89 0.1 36.1 54.1#

