

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
 Data File : VN087286.D
 Acq On : 07 Jul 2025 12:02
 Operator : JC\MD
 Sample : Q2487-20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0707WBS02

Quant Time: Jul 08 01:31:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:15:00 2025
 Response via : Initial Calibration

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

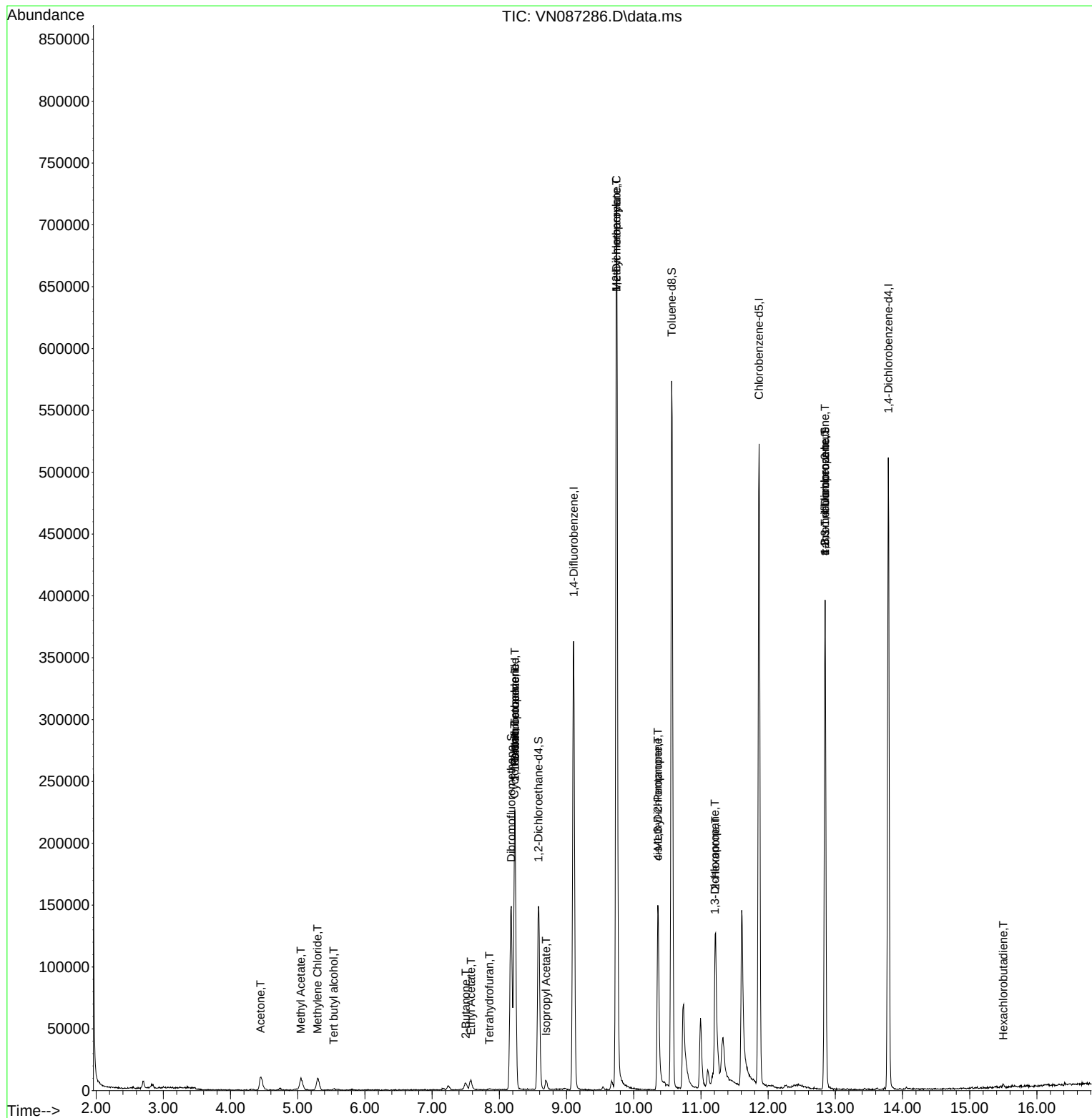
Internal Standards						
1) Pentafluorobenzene	8.230	168	178305	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	333547	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	319292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147659	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	124994	55.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.720%			
35) Dibromofluoromethane	8.177	113	111946	52.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.840%			
50) Toluene-d8	10.565	98	415727	49.939	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.847	95	137665	46.478	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.960%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.536	59	1310	3.212	ug/l #	72
16) Acetone	4.448	43	22128	25.864	ug/l	97
18) Methyl Acetate	5.048	43	18381	9.385	ug/l	95
20) Methylene Chloride	5.295	84	7866	4.150	ug/l #	95
25) 2-Butanone	7.500	43	9591	7.173	ug/l	93
29) Tetrahydrofuran	7.853	42	583	0.677	ug/l #	25
31) Cyclohexane	8.224	56	3172	1.041	ug/l #	25
36) 1,1-Dichloropropene	8.236	75	12111	4.170	ug/l #	48
37) Ethyl Acetate	7.577	43	13156	4.214	ug/l #	90
38) Carbon Tetrachloride	8.230	117	17056	5.183	ug/l #	14
43) Isopropyl Acetate	8.694	43	7996	1.651	ug/l #	89
45) 1,2-Dichloropropane	9.741	63	963	0.491	ug/l #	45
48) Methyl methacrylate	9.741	41	69841	34.225	ug/l #	35
51) 4-Methyl-2-Pentanone	10.359	43	60566	20.444	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	36385	10.460	ug/l #	66
57) 1,3-Dichloropropane	11.206	76	1560	0.429	ug/l #	41
59) 2-Hexanone	11.212	43	23579	11.112	ug/l #	54
76) 1,2,3-Trichloropropane	12.847	75	69345	24.690	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69345	57.995	ug/l #	14
94) Hexachlorobutadiene	15.500	225	475	0.547	ug/l #	68

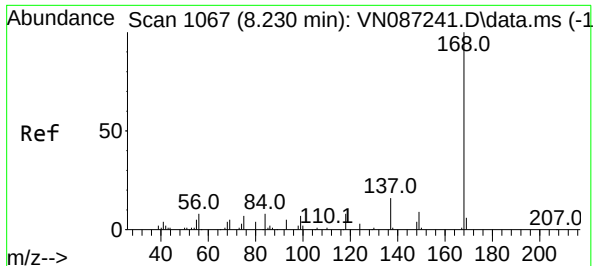
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration

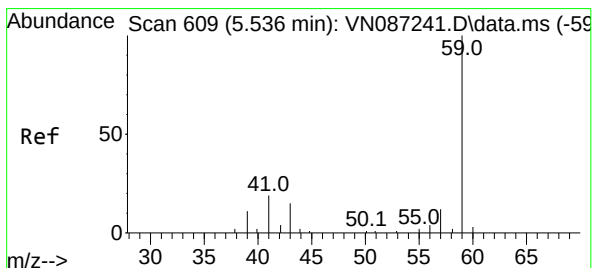
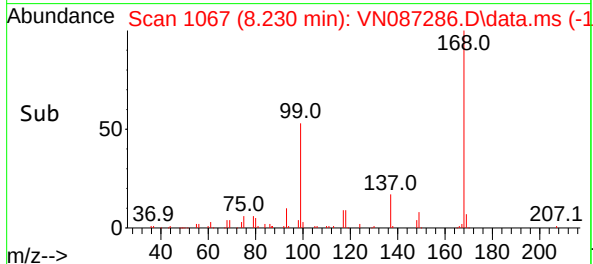
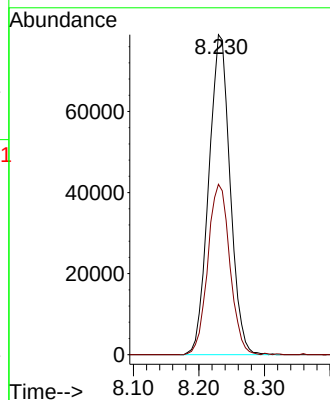
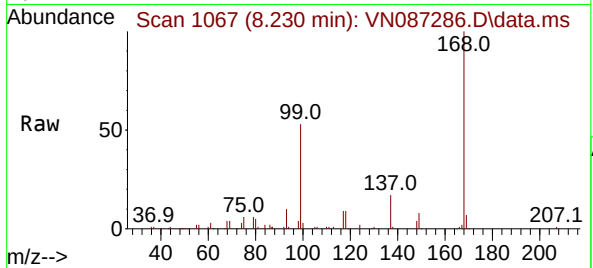




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

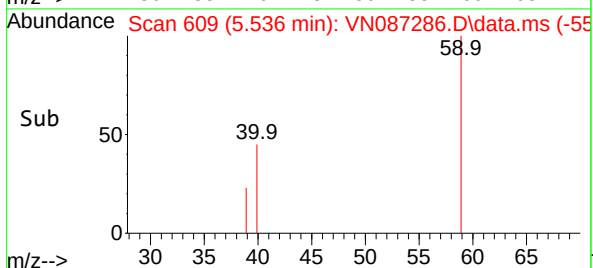
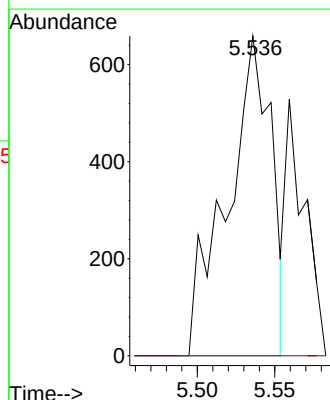
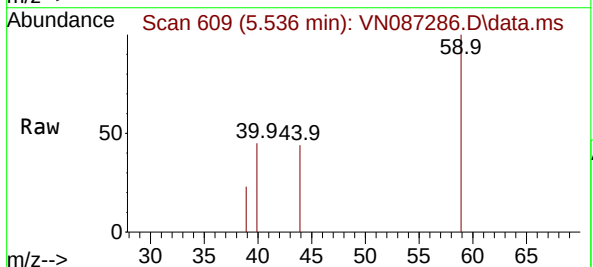
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

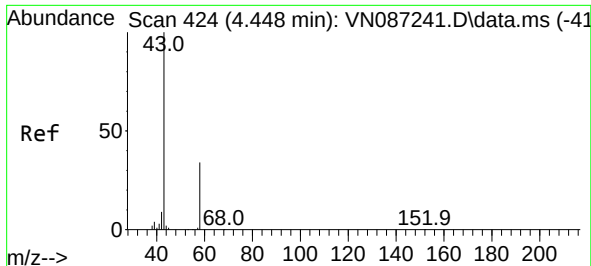
Tgt Ion:168 Resp: 178305
Ion Ratio Lower Upper
168 100
99 53.3 42.6 64.0



#11
Tert butyl alcohol
Concen: 3.212 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 59 Resp: 1310
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#16

Acetone

Concen: 25.864 ug/l

RT: 4.448 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

Instrument :

MSVOA_N

ClientSampleId :

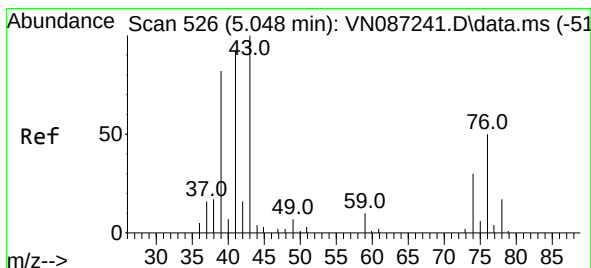
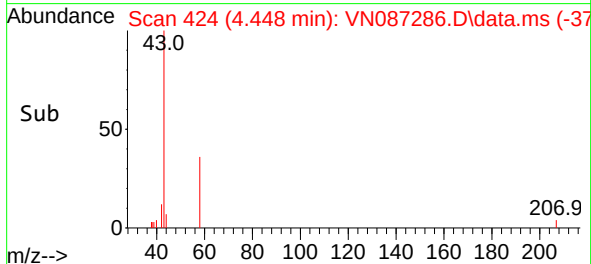
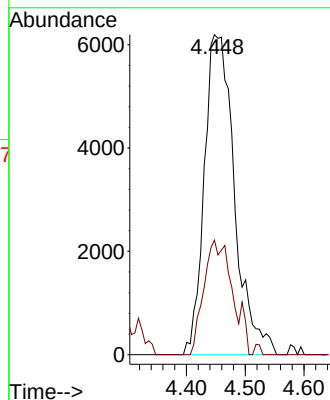
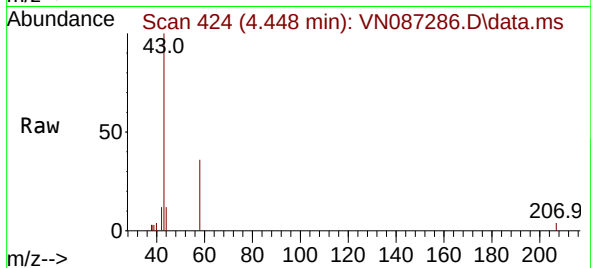
VN0707WBS02

Tgt Ion: 43 Resp: 22128

Ion Ratio Lower Upper

43 100

58 35.8 27.1 40.7



#18

Methyl Acetate

Concen: 9.385 ug/l

RT: 5.048 min Scan# 526

Delta R.T. 0.000 min

Lab File: VN087286.D

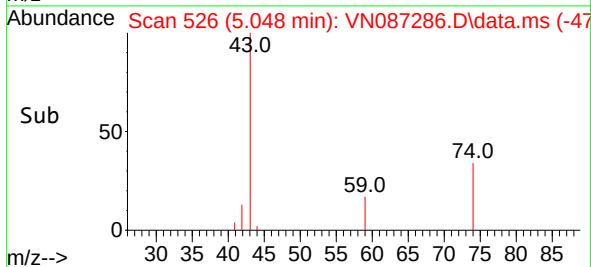
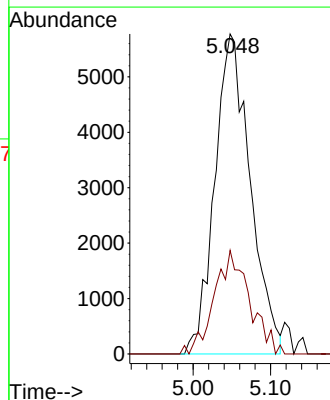
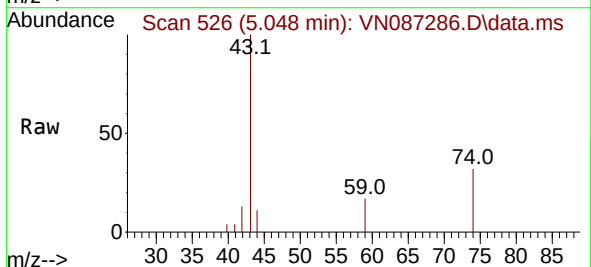
Acq: 07 Jul 2025 12:02

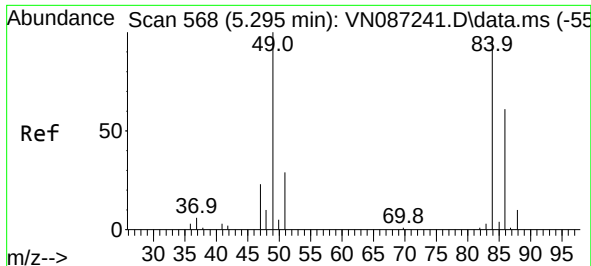
Tgt Ion: 43 Resp: 18381

Ion Ratio Lower Upper

43 100

74 32.2 23.8 35.6

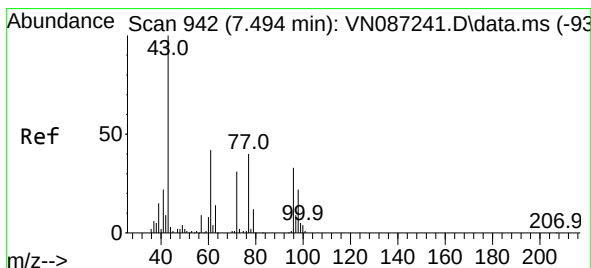
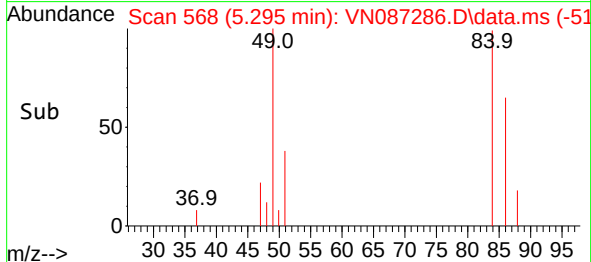
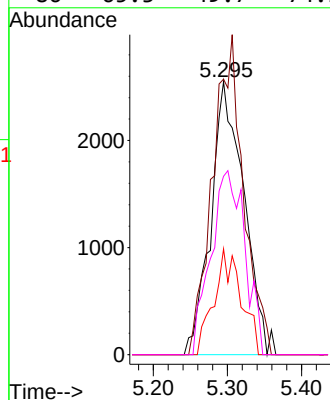
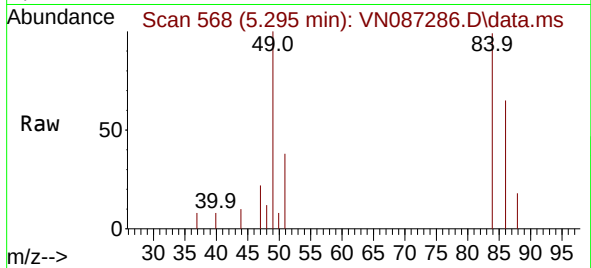




#20
Methylene Chloride
Concen: 4.150 ug/l
RT: 5.295 min Scan# 501
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

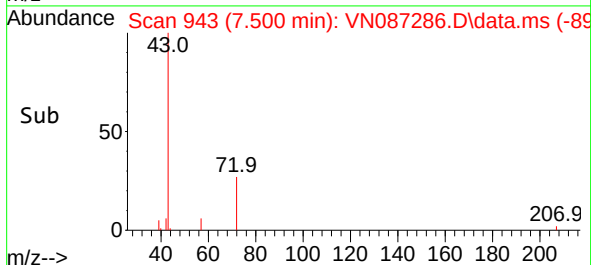
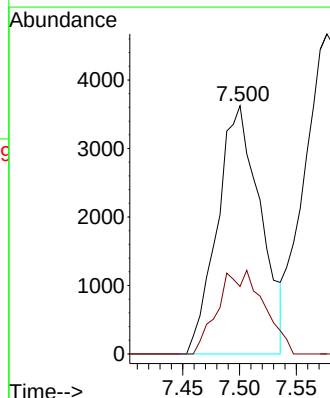
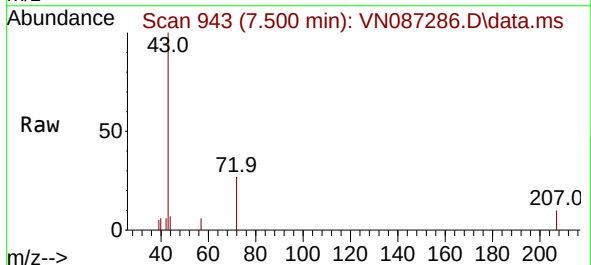
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

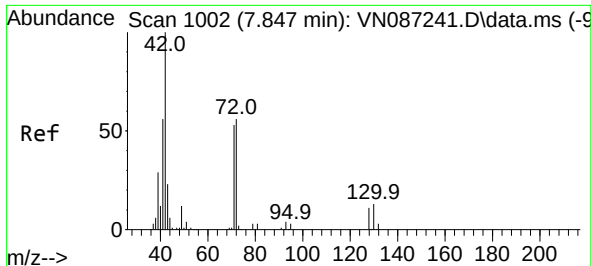
Tgt Ion: 84	Resp:	7866	
Ion	Ratio	Lower	Upper
84	100		
49	100.8	82.1	123.1
51	38.7	23.5	35.3#
86	65.3	49.7	74.5



#25
2-Butanone
Concen: 7.173 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 43	Resp:	9591	
Ion	Ratio	Lower	Upper
43	100		
72	27.2	24.8	37.2





#29

Tetrahydrofuran

Concen: 0.677 ug/l

RT: 7.853 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

Instrument :

MSVOA_N

ClientSampleId :

VN0707WBS02

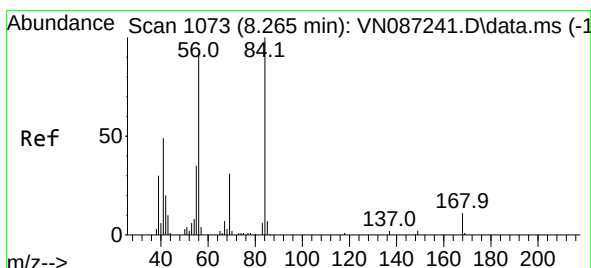
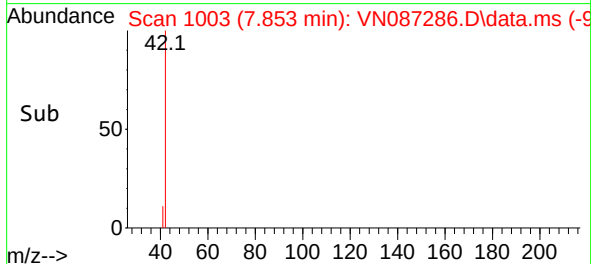
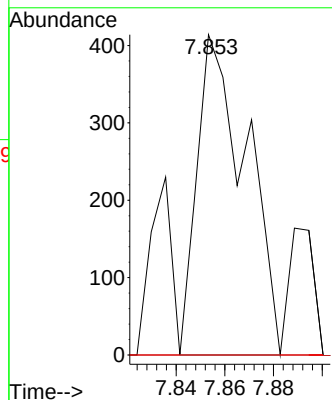
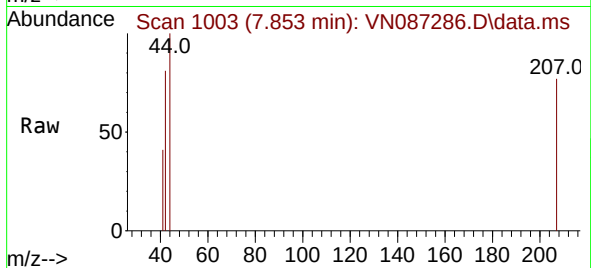
Tgt Ion: 42 Resp: 583

Ion Ratio Lower Upper

42 100

72 0.0 44.2 66.4#

71 0.0 41.1 61.7#



#31

Cyclohexane

Concen: 1.041 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

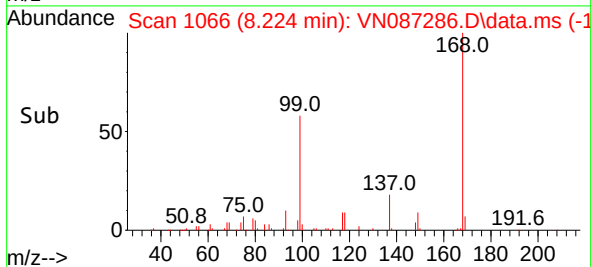
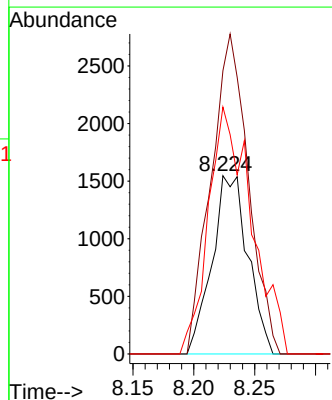
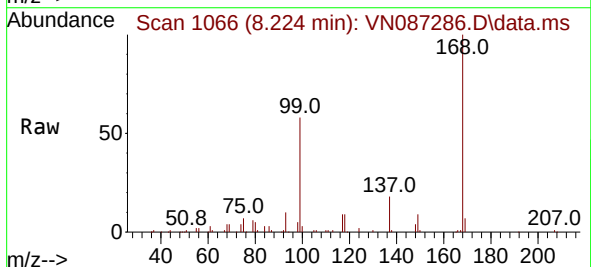
Tgt Ion: 56 Resp: 3172

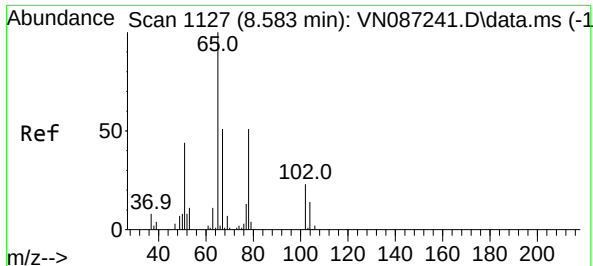
Ion Ratio Lower Upper

56 100

69 158.9 27.0 40.6#

84 138.5 86.2 129.4#





#33

1,2-Dichloroethane-d4

Concen: 55.855 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

Instrument :

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ClientSampleId :

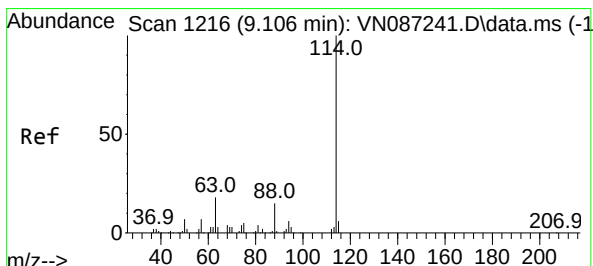
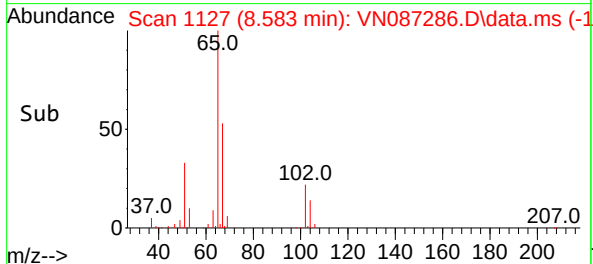
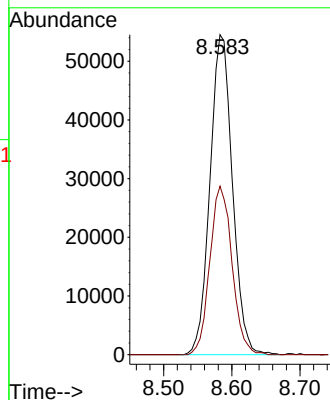
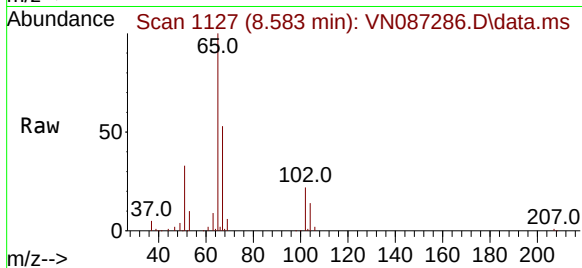
VN0707WBS02

Tgt Ion: 65 Resp: 124994

Ion Ratio Lower Upper

65 100

67 52.1 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

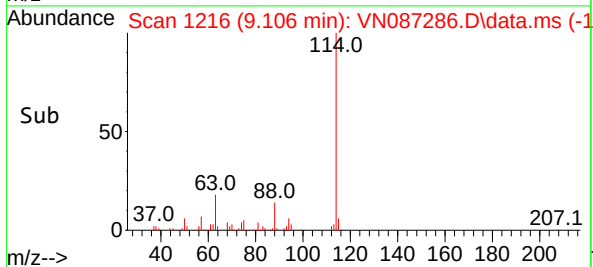
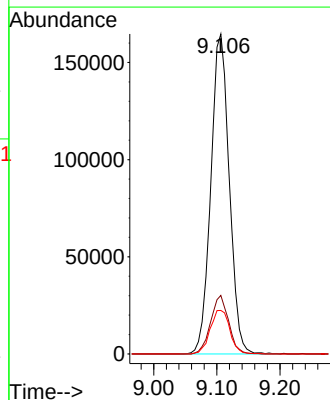
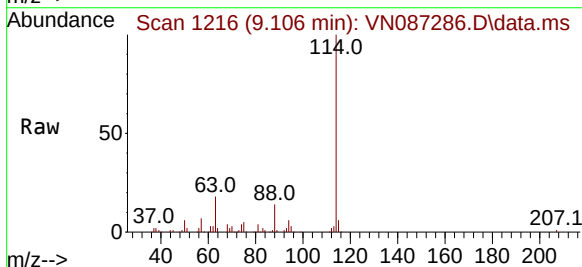
Tgt Ion: 114 Resp: 333547

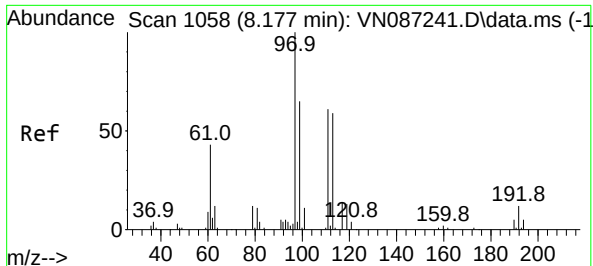
Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

88 13.6 0.0 29.6

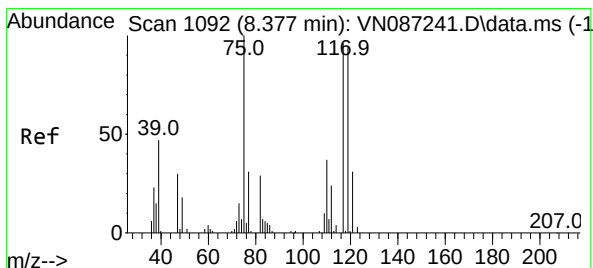
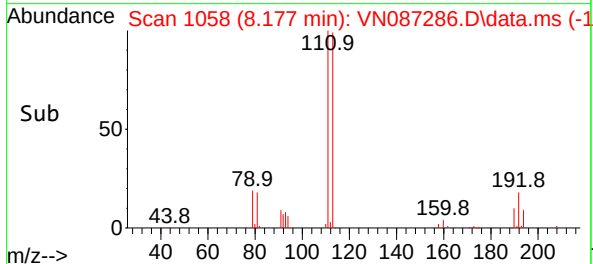
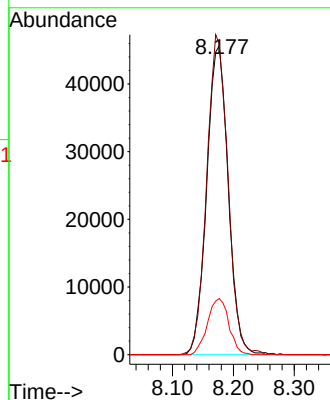
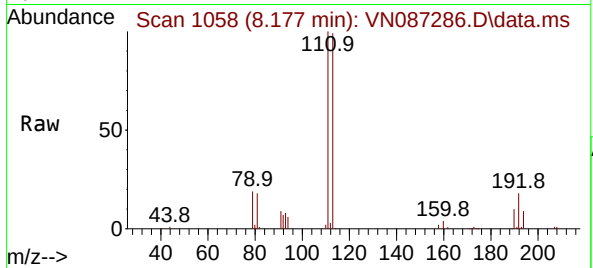




#35
Dibromofluoromethane
Concen: 52.416 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

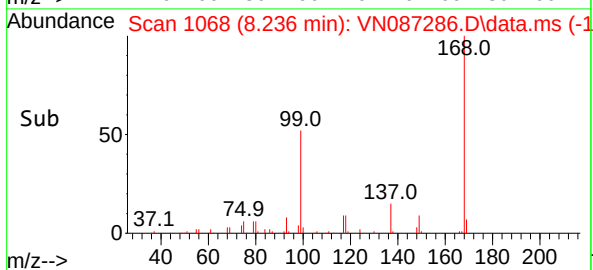
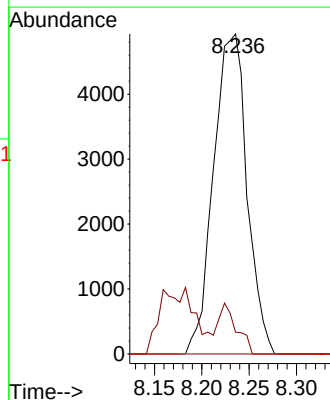
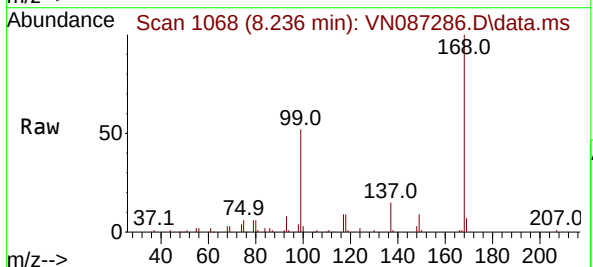
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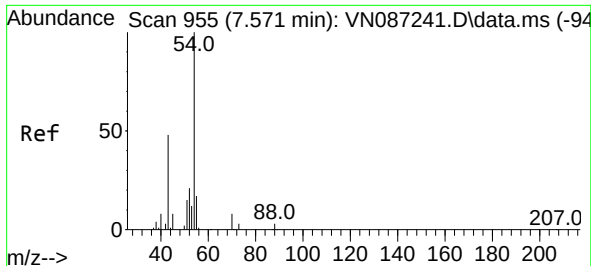
Tgt Ion:113 Resp: 111946
Ion Ratio Lower Upper
113 100
111 102.1 81.4 122.2
192 18.1 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.170 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 75 Resp: 12111
Ion Ratio Lower Upper
75 100
110 8.5 18.7 56.1#
77 0.0 24.5 36.7#

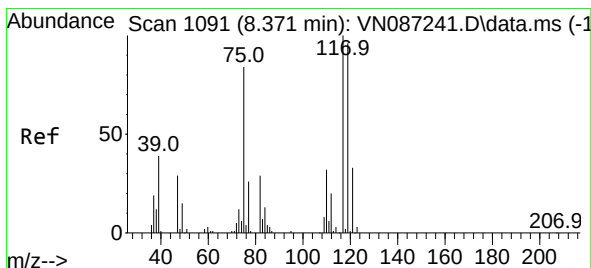
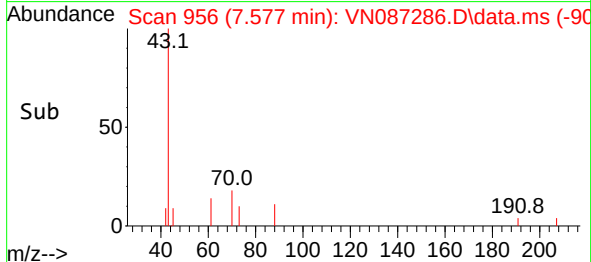
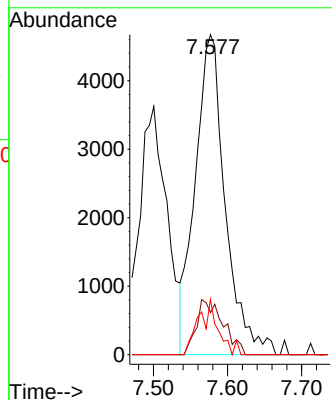
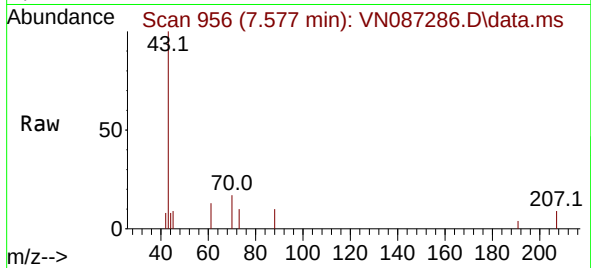




#37
Ethyl Acetate
Concen: 4.214 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

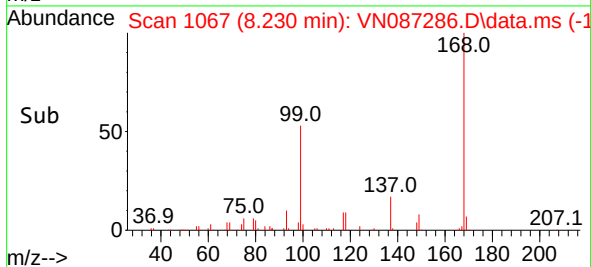
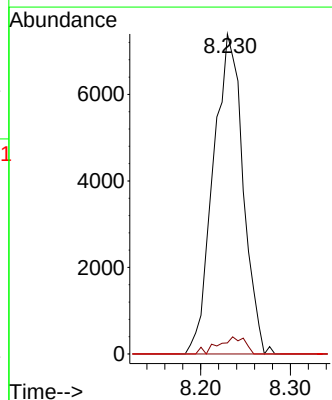
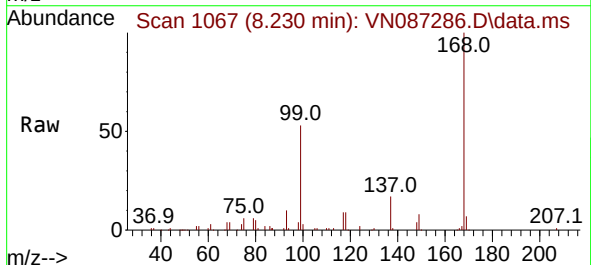
Instrument :
MSVOA_N
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VN0707WBS02

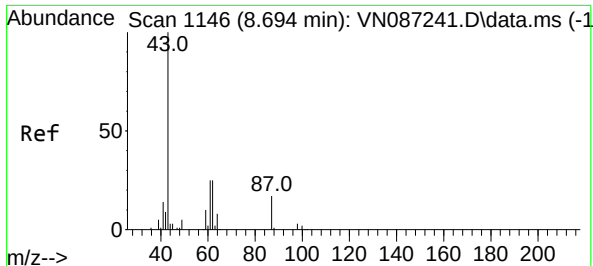
Tgt Ion: 43 Resp: 13156
Ion Ratio Lower Upper
43 100
61 15.3 11.3 16.9
70 5.5 9.9 14.9#



#38
Carbon Tetrachloride
Concen: 5.183 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 117 Resp: 17056
Ion Ratio Lower Upper
117 100
119 3.5 77.2 115.8#
121 0.0 26.6 39.8#

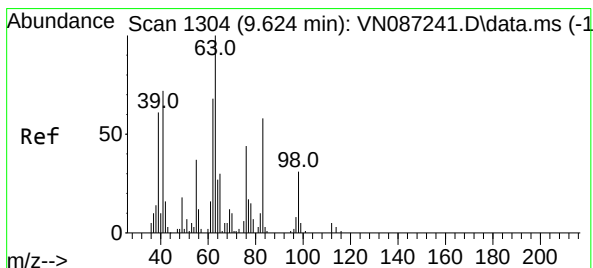
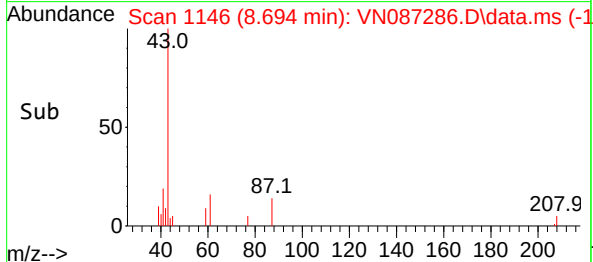
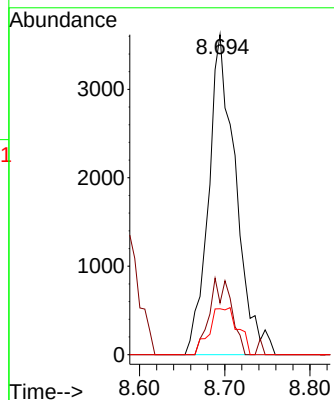
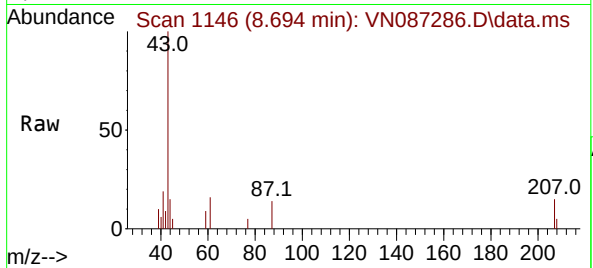




#43
Isopropyl Acetate
Concen: 1.651 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

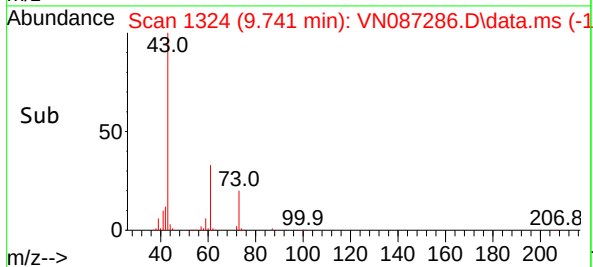
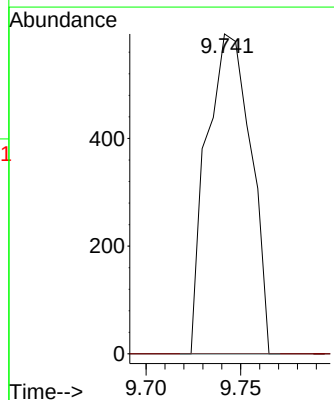
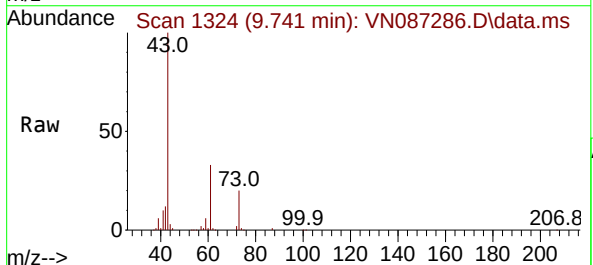
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

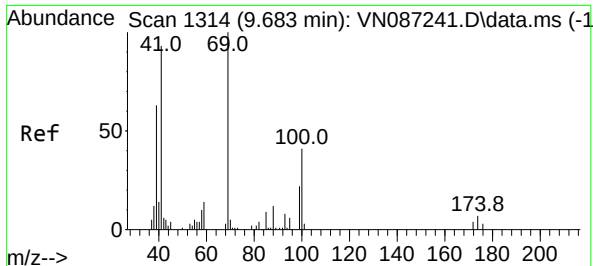
Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.3	22.4	33.6#
87	15.4	12.8	19.2



#45
1,2-Dichloropropane
Concen: 0.491 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.8	35.8#

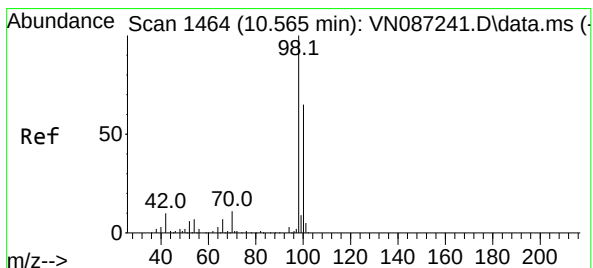
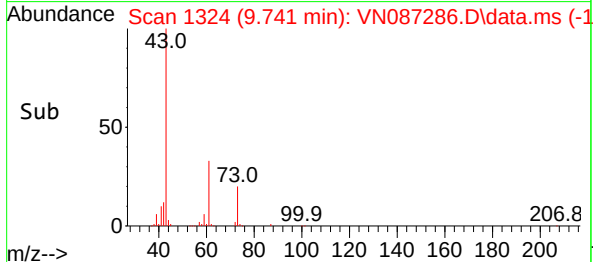
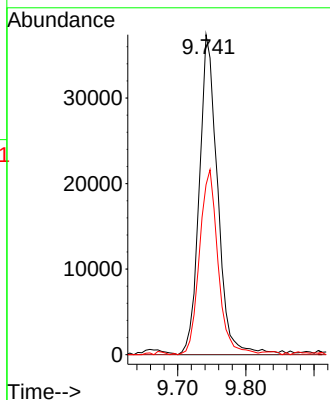
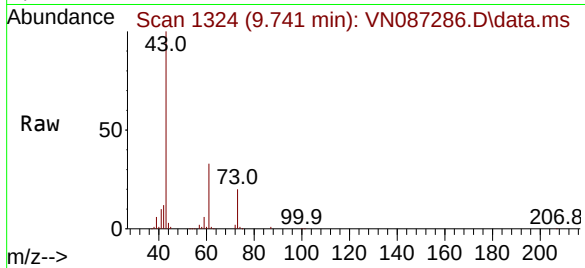




#48
Methyl methacrylate
Concen: 34.225 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

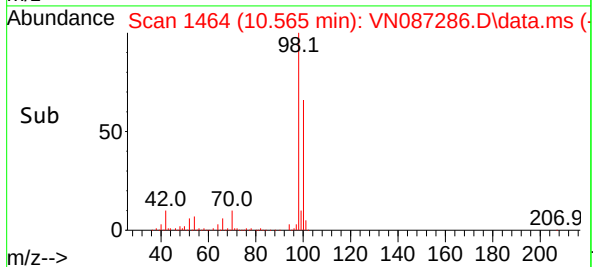
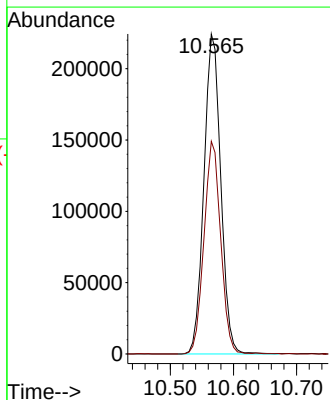
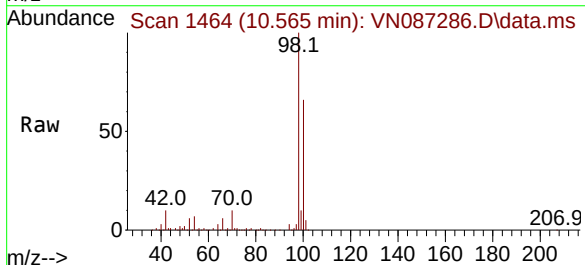
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

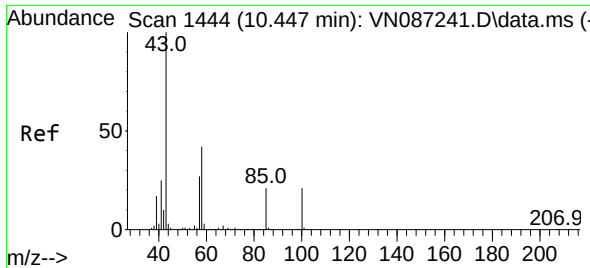
Tgt Ion: 41 Resp: 69841
Ion Ratio Lower Upper
41 100
69 0.0 81.4 122.2#
39 58.8 56.9 85.3



#50
Toluene-d8
Concen: 49.939 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 98 Resp: 415727
Ion Ratio Lower Upper
98 100
100 65.8 52.1 78.1

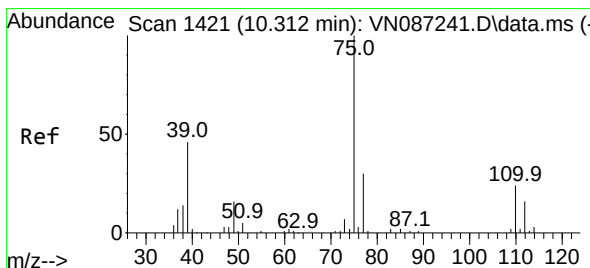
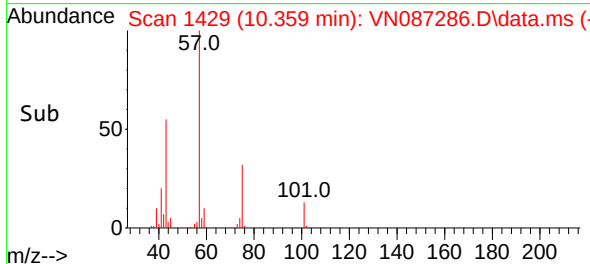
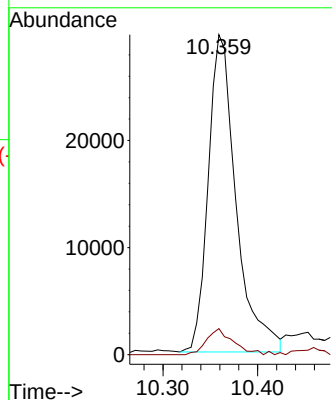
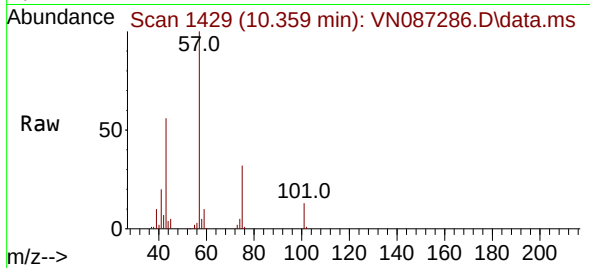




#51
4-Methyl-2-Pentanone
Concen: 20.444 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

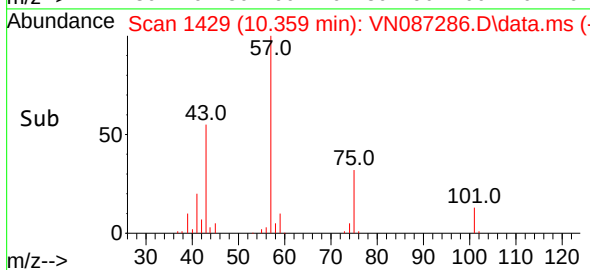
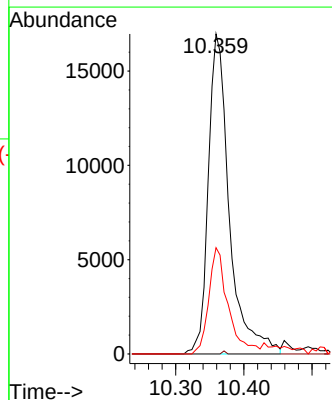
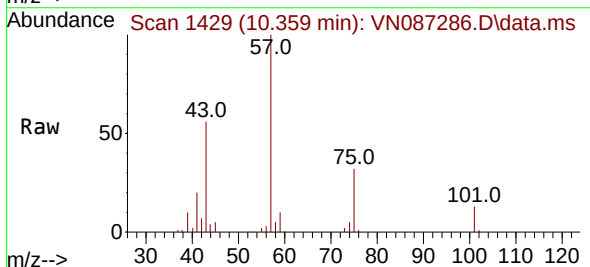
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

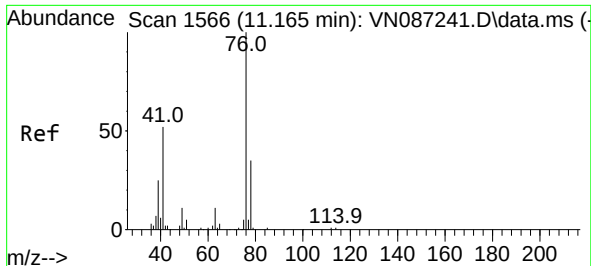
Tgt Ion: 43 Resp: 60566
Ion Ratio Lower Upper
43 100
58 7.8 34.2 51.2#



#54
cis-1,3-Dichloropropene
Concen: 10.460 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 75 Resp: 36385
Ion Ratio Lower Upper
75 100
77 0.0 24.1 36.1#
39 33.2 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 0.429 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN087286.D

Acq: 07 Jul 2025 12:02

Instrument :

MSVOA_N

ClientSampleId :

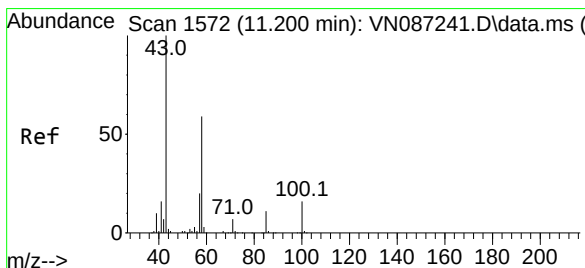
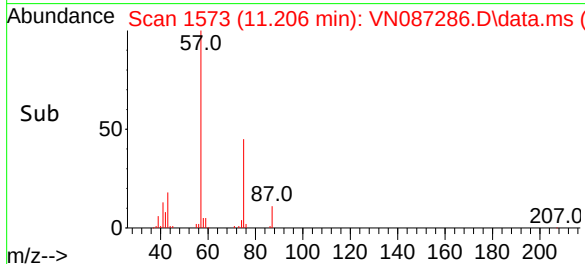
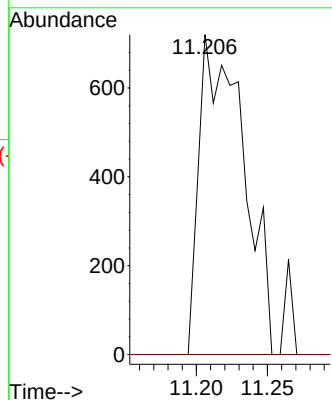
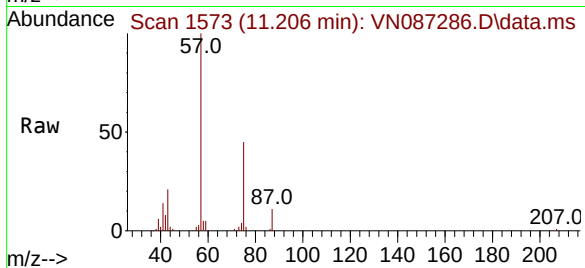
VN0707WBS02

Tgt Ion: 76 Resp: 1560

Ion Ratio Lower Upper

76 100

78 0.0 27.1 40.7#



#59

2-Hexanone

Concen: 11.112 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087286.D

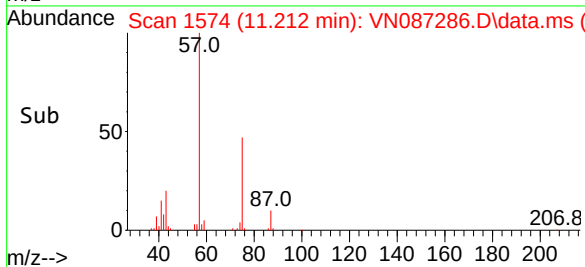
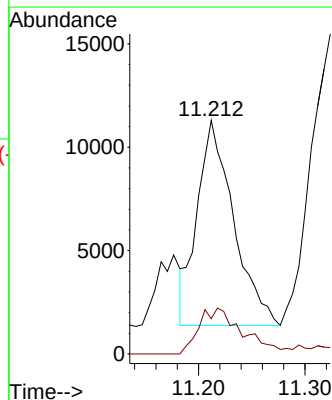
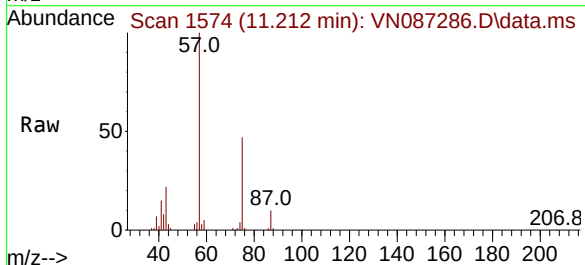
Acq: 07 Jul 2025 12:02

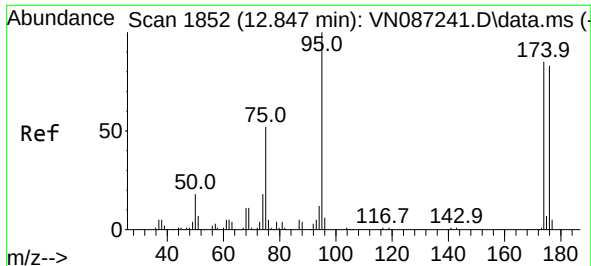
Tgt Ion: 43 Resp: 23579

Ion Ratio Lower Upper

43 100

58 27.1 31.1 93.3#

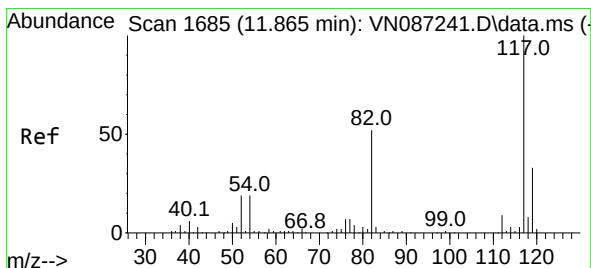
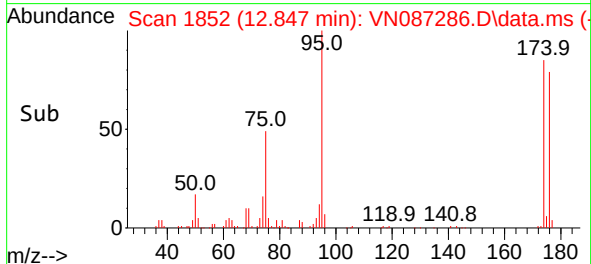
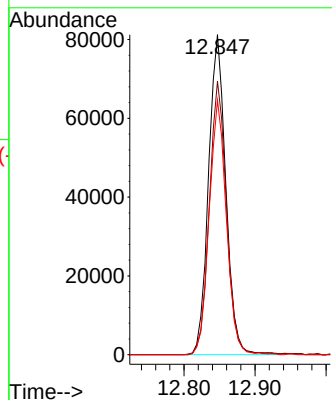
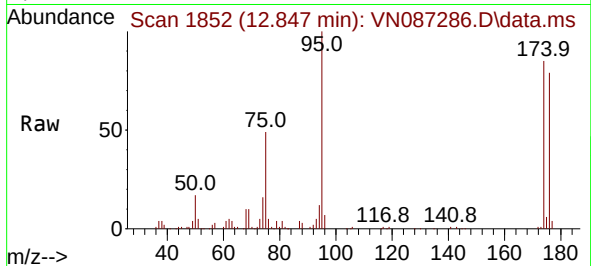




#62
4-Bromofluorobenzene
Concen: 46.478 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

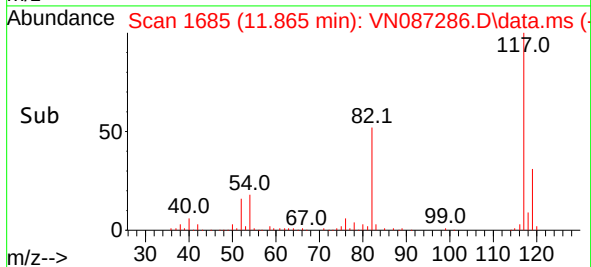
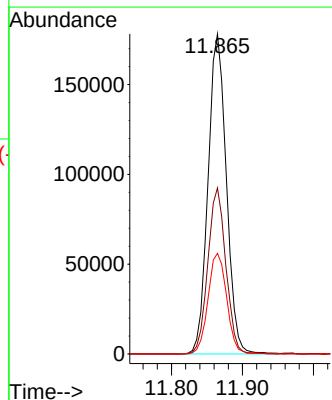
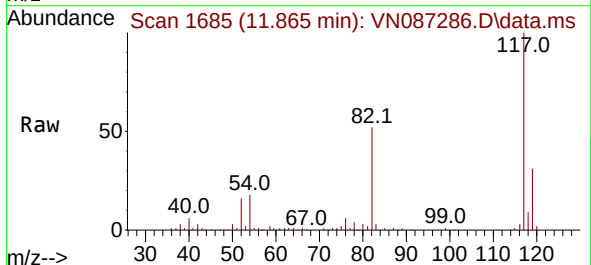
Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

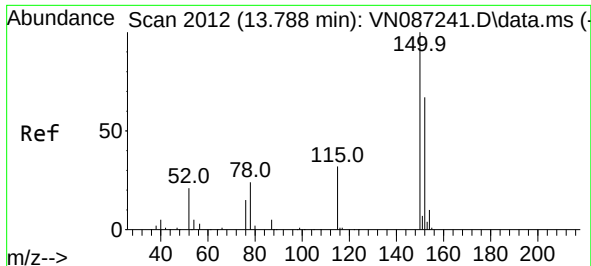
Tgt Ion: 95 Resp: 137665
Ion Ratio Lower Upper
95 100
174 85.1 0.0 169.6
176 79.1 0.0 161.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 117 Resp: 319292
Ion Ratio Lower Upper
117 100
82 51.9 41.9 62.9
119 31.5 26.2 39.4

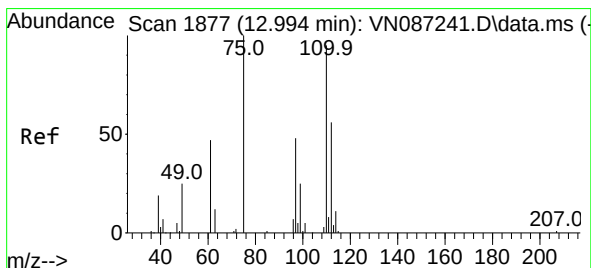
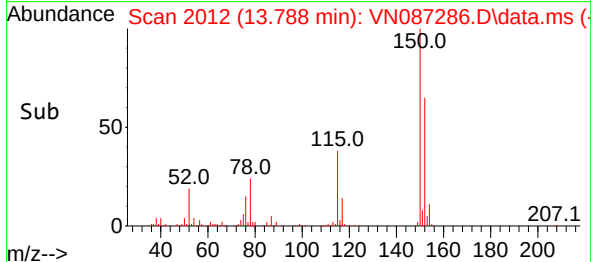
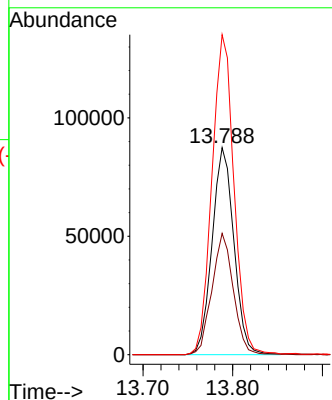
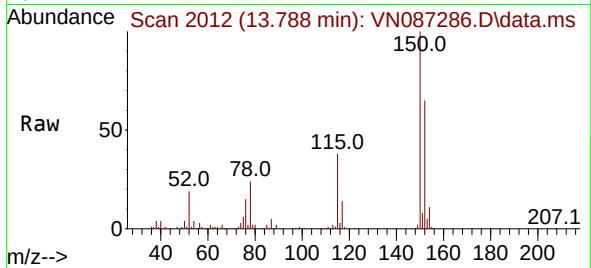




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. 0.000 min
 Lab File: VN087286.D
 Acq: 07 Jul 2025 12:02

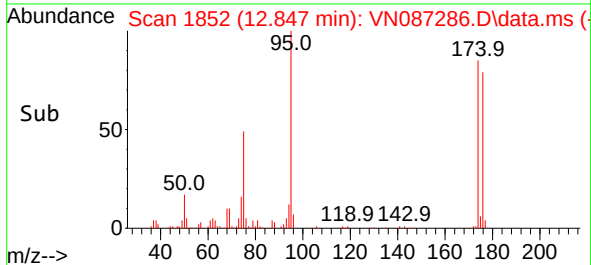
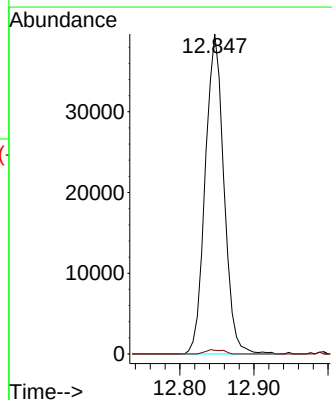
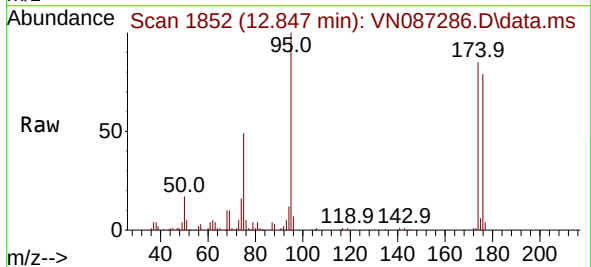
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0707WBS02

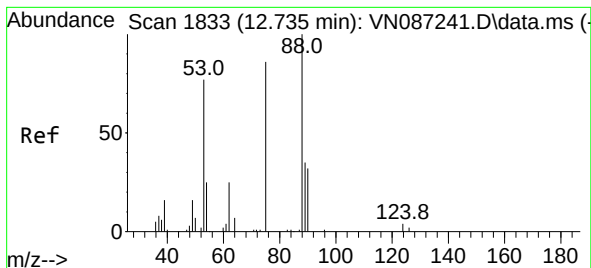
Tgt Ion:152 Resp: 147659
 Ion Ratio Lower Upper
 152 100
 115 57.5 28.3 84.9
 150 155.8 0.0 344.6



#76
 1,2,3-Trichloropropane
 Concen: 24.690 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN087286.D
 Acq: 07 Jul 2025 12:02

Tgt Ion: 75 Resp: 69345
 Ion Ratio Lower Upper
 75 100
 77 1.3 82.0 245.8#

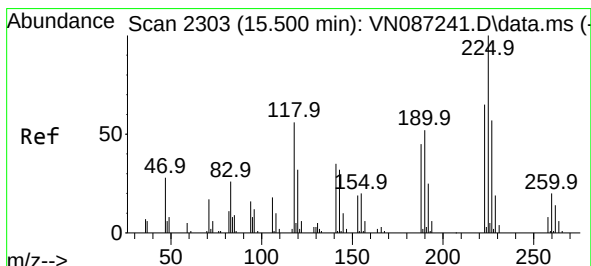
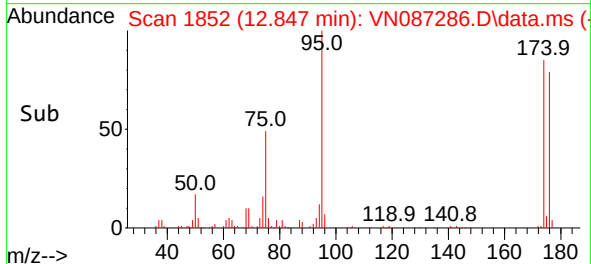
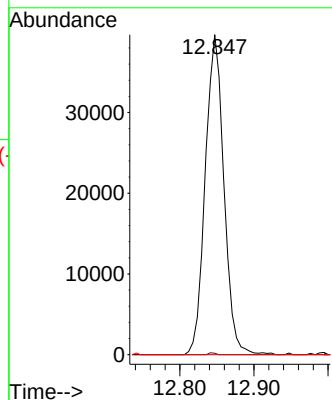
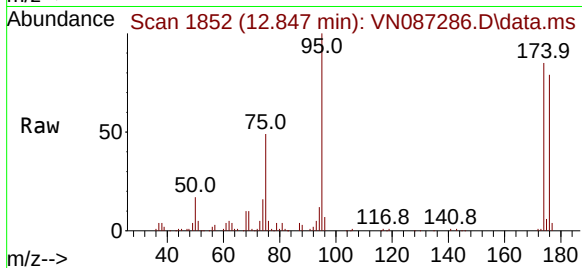




#81
trans-1,4-Dichloro-2-butene
Concen: 57.995 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Instrument :
MSVOA_N
ClientSampleId :
VN0707WBS02

Tgt Ion: 75 Resp: 69345
Ion Ratio Lower Upper
75 100
53 0.2 70.6 105.8#
89 0.0 36.1 54.1#



#94
Hexachlorobutadiene
Concen: 0.547 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN087286.D
Acq: 07 Jul 2025 12:02

Tgt Ion: 225 Resp: 475
Ion Ratio Lower Upper
225 100
223 116.0 33.5 100.4#
227 62.1 30.9 92.7

