

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052025\
 Data File : VN086707.D
 Acq On : 20 May 2025 10:51
 Operator : JC\MD
 Sample : VN0520MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0520MBL01

Quant Time: May 21 01:40:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

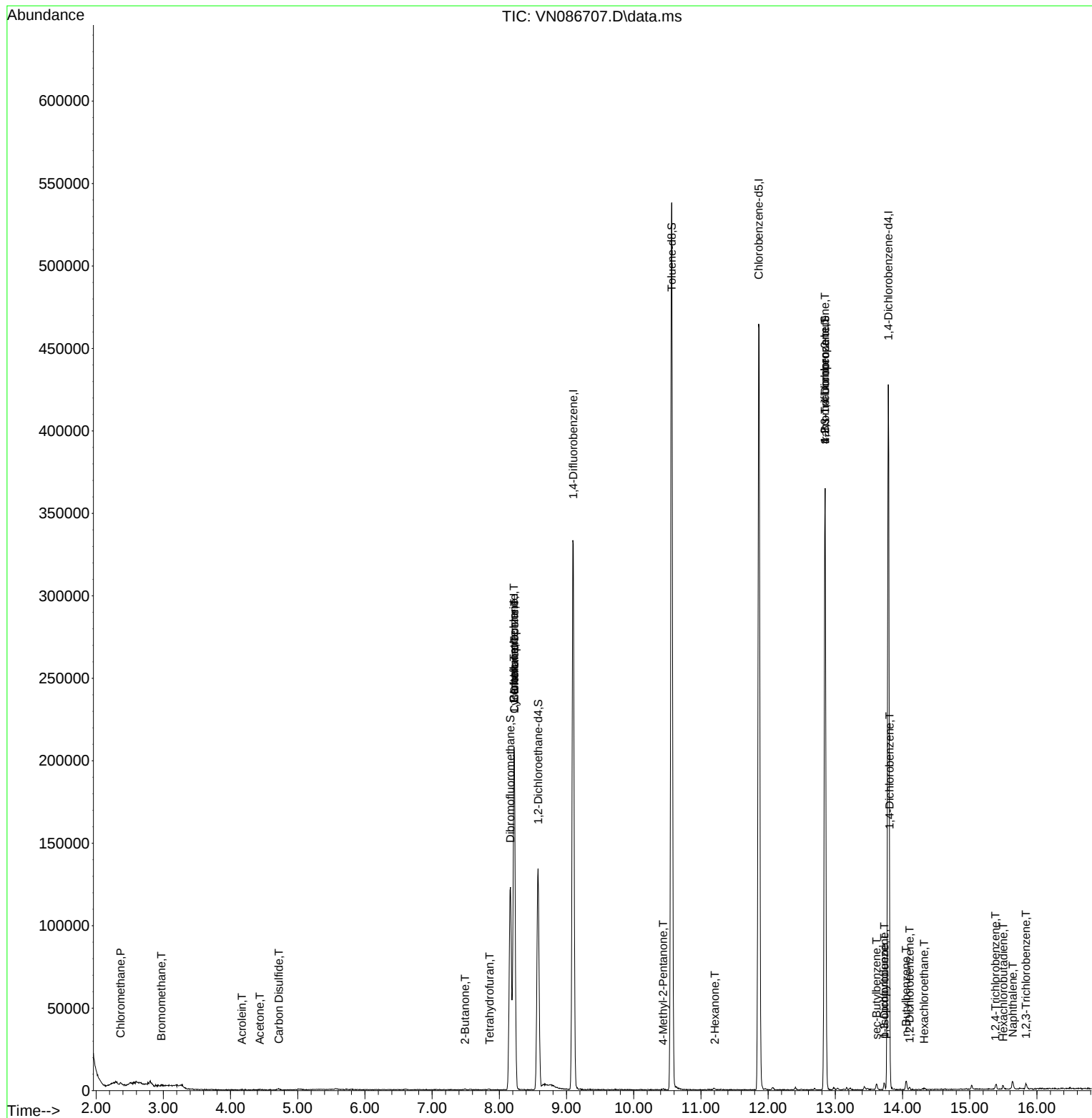
Internal Standards						
1) Pentafluorobenzene	8.218	168	151819	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	301784	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	287807	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119988	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111251	53.031	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.060%	
35) Dibromofluoromethane	8.165	113	95135	52.934	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.860%	
50) Toluene-d8	10.565	98	389420	52.286	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.580%	
62) 4-Bromofluorobenzene	12.847	95	138025	52.485	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.960%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1127	0.454	ug/l	95
5) Bromomethane	2.971	94	422	0.329	ug/l	85
13) Acrolein	4.171	56	141	0.345	ug/l #	63
16) Acetone	4.436	43	627	0.799	ug/l #	72
17) Carbon Disulfide	4.718	76	1565	0.334	ug/l #	75
25) 2-Butanone	7.489	43	461	0.380	ug/l #	46
29) Tetrahydrofuran	7.853	42	517	0.653	ug/l #	30
31) Cyclohexane	8.224	56	3295	1.047	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	12775	4.819	ug/l #	47
38) Carbon Tetrachloride	8.218	117	15793	6.046	ug/l #	16
51) 4-Methyl-2-Pentanone	10.435	43	543	0.201	ug/l #	33
59) 2-Hexanone	11.206	43	934	0.472	ug/l	75
76) 1,2,3-Trichloropropane	12.847	75	68346	25.186	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68346	63.561	ug/l #	15
85) sec-Butylbenzene	13.612	105	3041	0.350	ug/l	97
86) p-Isopropyltoluene	13.729	119	2475	0.348	ug/l	90
87) 1,3-Dichlorobenzene	13.729	146	962	0.238	ug/l #	72
88) 1,4-Dichlorobenzene	13.806	146	1185	0.296	ug/l #	1
89) n-Butylbenzene	14.053	91	3761	0.637	ug/l	96
90) Hexachloroethane	14.323	117	282	0.239	ug/l	70
91) 1,2-Dichlorobenzene	14.106	146	777	0.202	ug/l	89
93) 1,2,4-Trichlorobenzene	15.382	180	1365	0.842	ug/l	88
94) Hexachlorobutadiene	15.500	225	570	0.848	ug/l	91
95) Naphthalene	15.641	128	5527	0.982	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.835	180	1391	0.876	ug/l	87

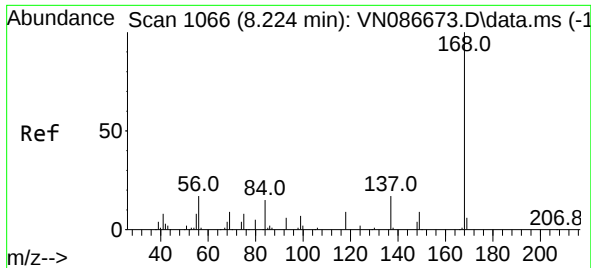
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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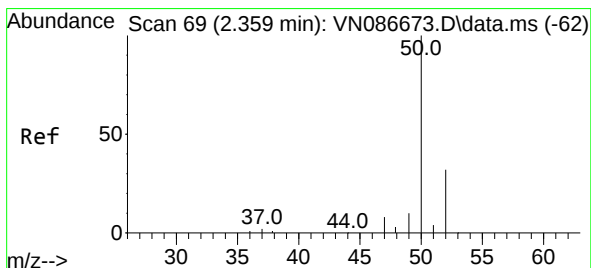
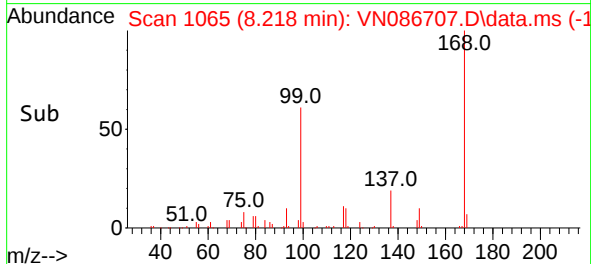
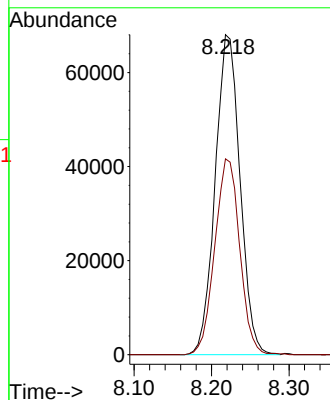
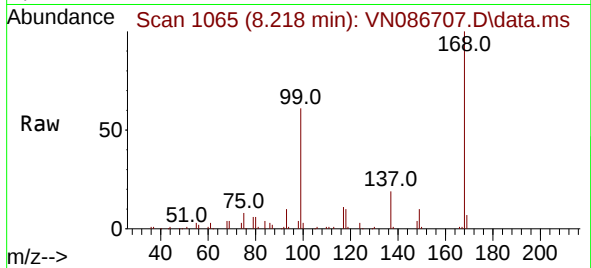




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

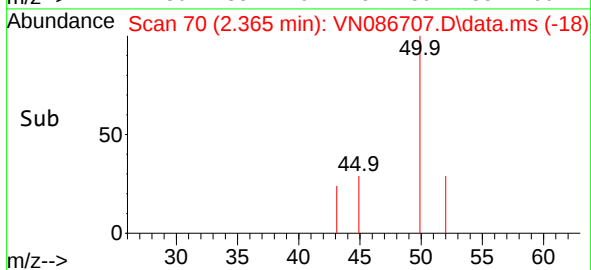
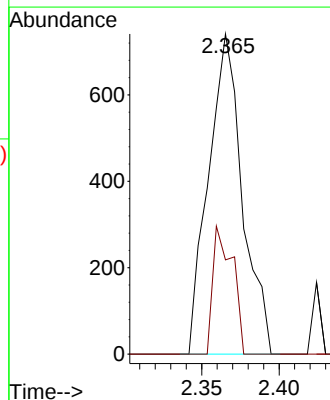
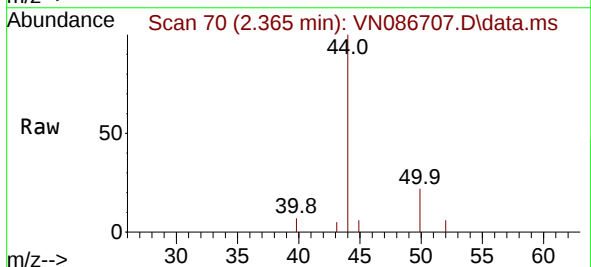
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

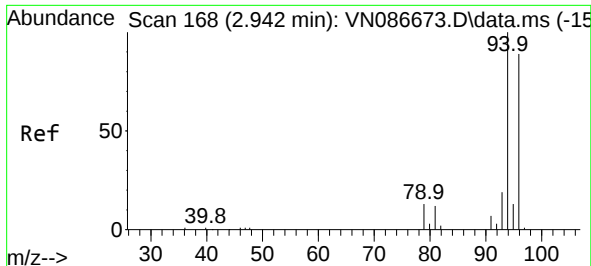
Tgt Ion:168 Resp: 151819
Ion Ratio Lower Upper
168 100
99 61.2 47.0 70.4



#3
Chloromethane
Concen: 0.454 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 50 Resp: 1127
Ion Ratio Lower Upper
50 100
52 29.4 25.9 38.9

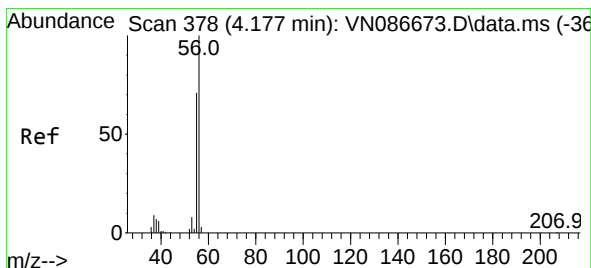
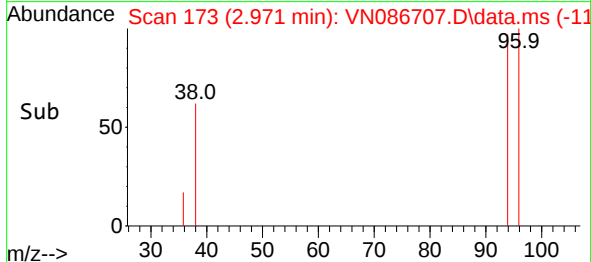
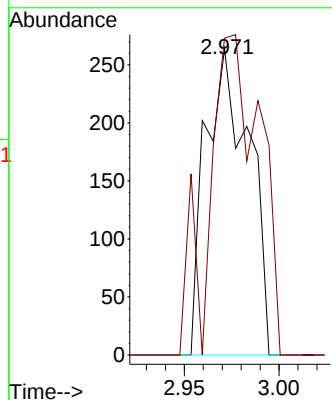
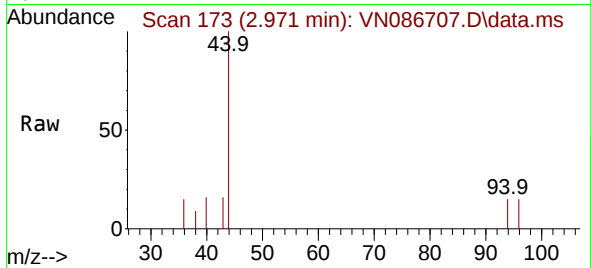




#5
Bromomethane
Concen: 0.329 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

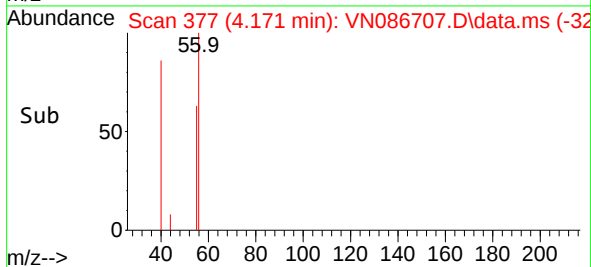
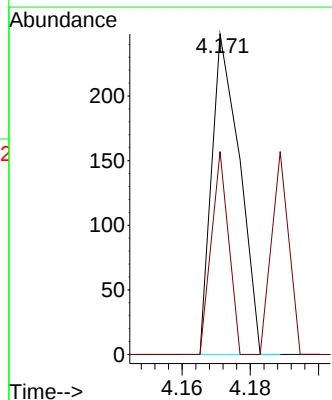
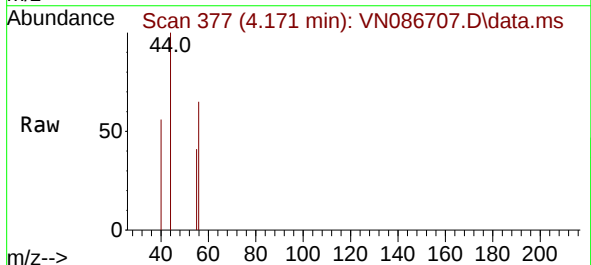
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

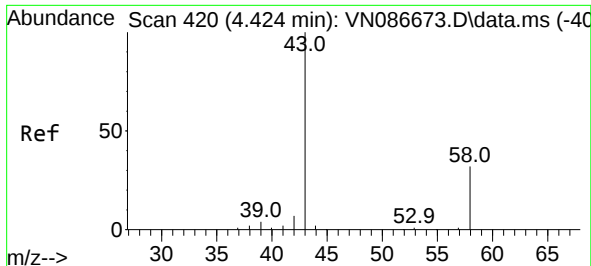
Tgt Ion: 94 Resp: 422
Ion Ratio Lower Upper
94 100
96 103.4 71.2 106.8



#13
Acrolein
Concen: 0.345 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 56 Resp: 141
Ion Ratio Lower Upper
56 100
55 39.0 55.7 83.5#

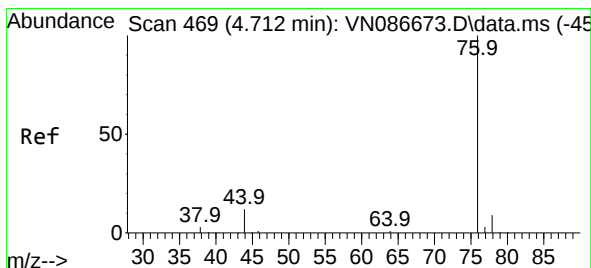
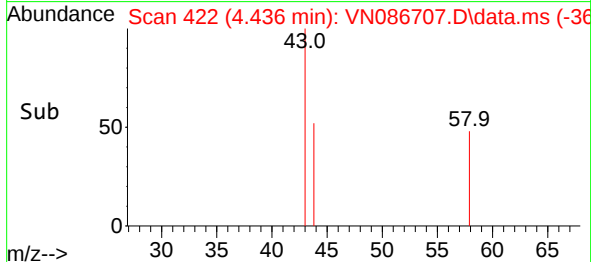
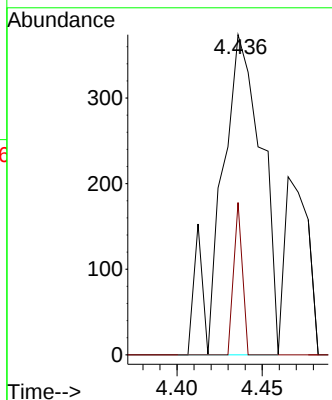
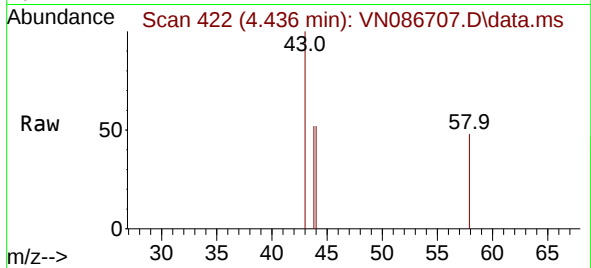




#16
Acetone
Concen: 0.799 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

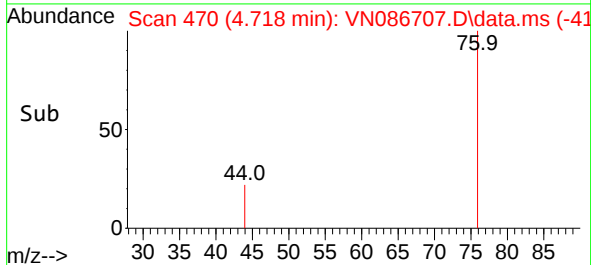
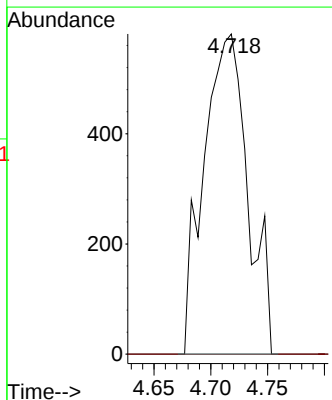
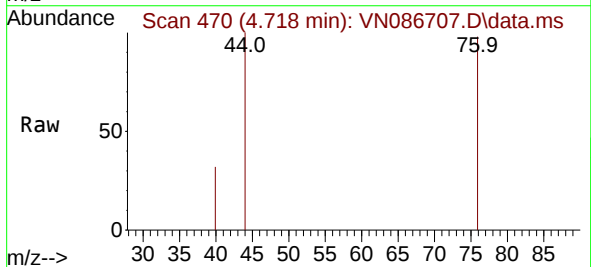
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

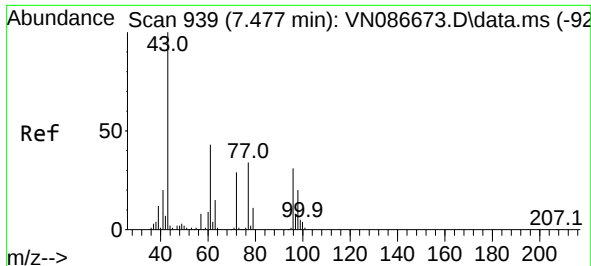
Tgt Ion: 43 Resp: 627
Ion Ratio Lower Upper
43 100
58 47.6 25.8 38.6#



#17
Carbon Disulfide
Concen: 0.334 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

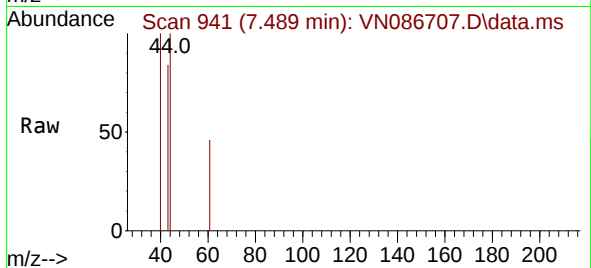
Tgt Ion: 76 Resp: 1565
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



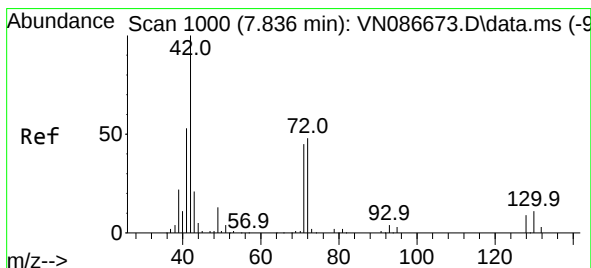
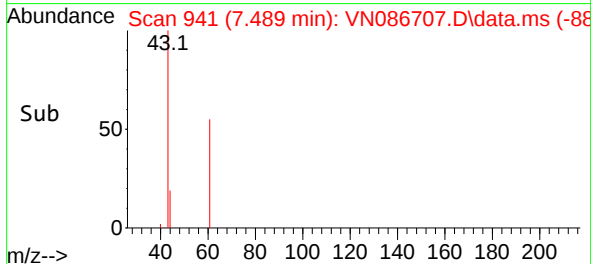
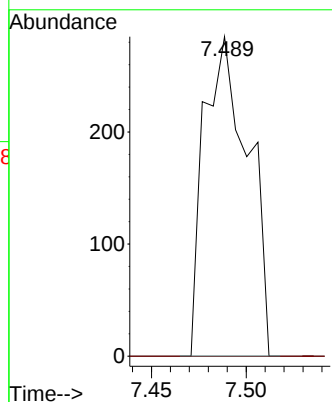


#25
2-Butanone
Concen: 0.380 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

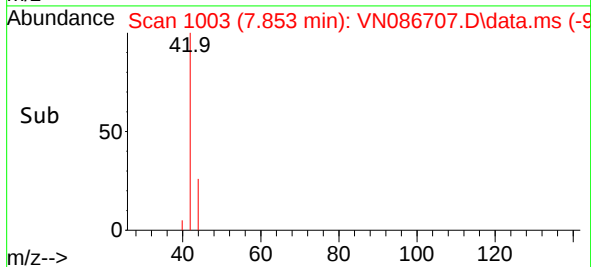
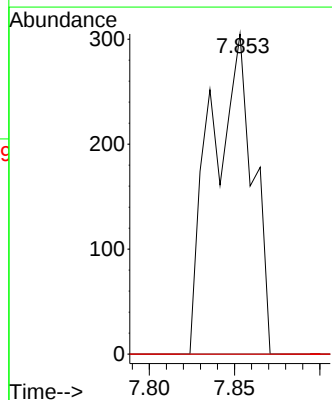
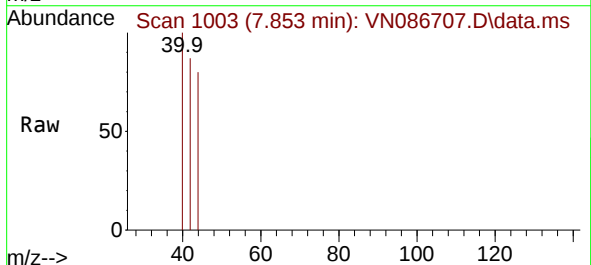


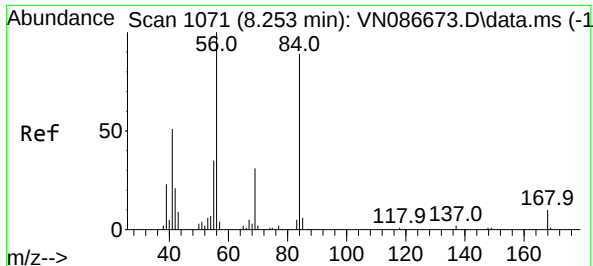
Tgt Ion: 43 Resp: 461
Ion Ratio Lower Upper
43 100
72 0.0 23.1 34.7#



#29
Tetrahydrofuran
Concen: 0.653 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

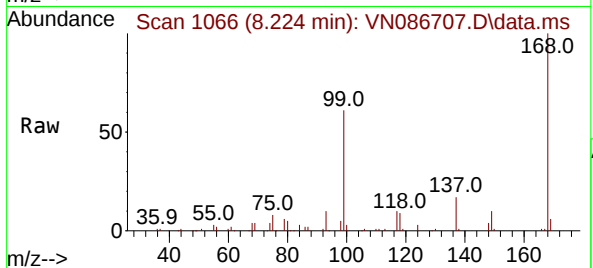
Tgt Ion: 42 Resp: 517
Ion Ratio Lower Upper
42 100
72 0.0 38.7 58.1#
71 0.0 36.2 54.4#



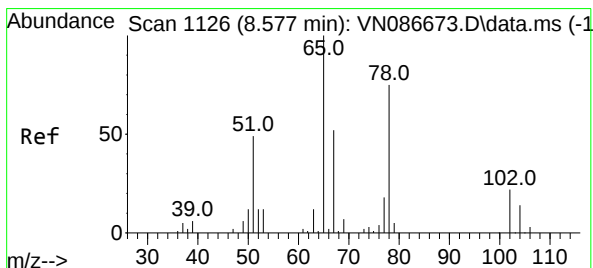
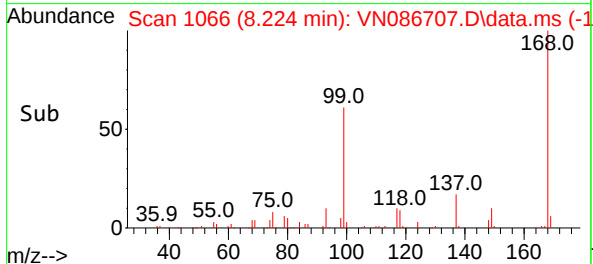
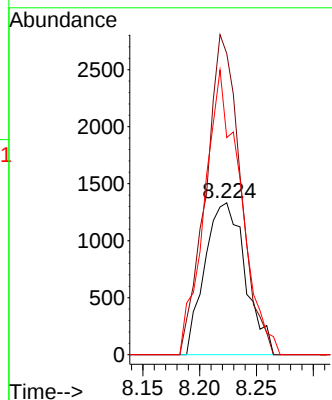


#31
Cyclohexane
Concen: 1.047 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

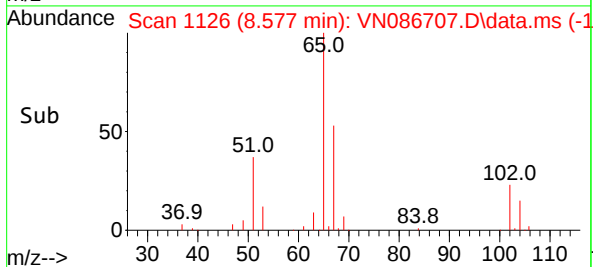
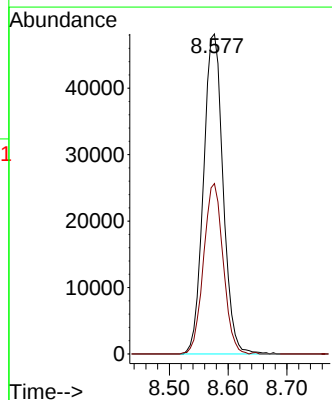
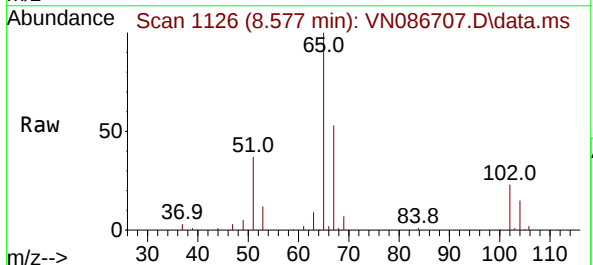


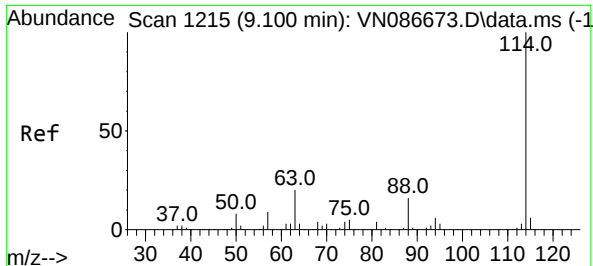
Tgt Ion: 56 Resp: 3295
Ion Ratio Lower Upper
56 100
69 198.3 25.0 37.6#
84 143.0 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 53.031 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 65 Resp: 111251
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.4

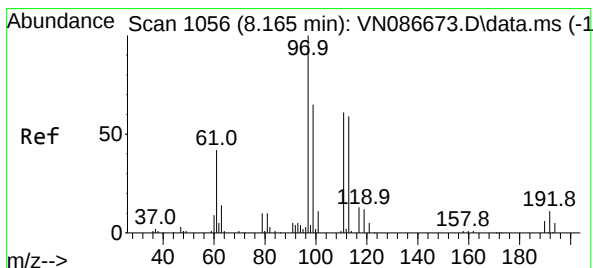
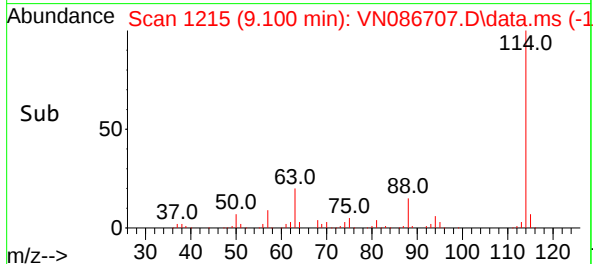
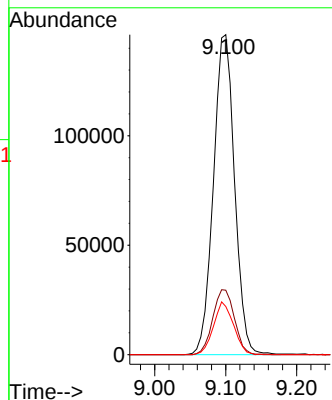
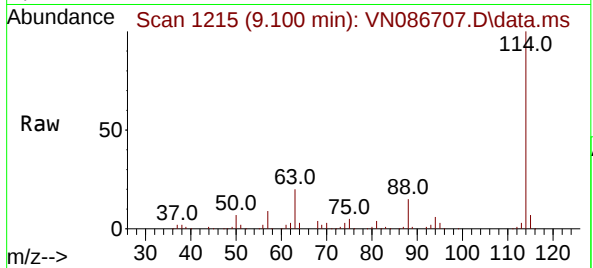




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

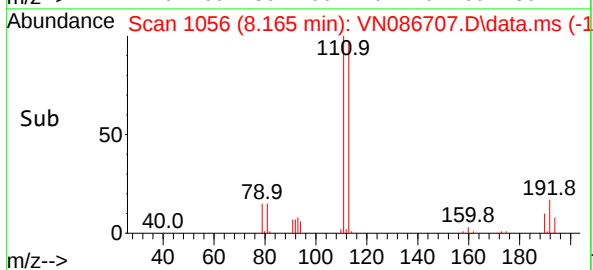
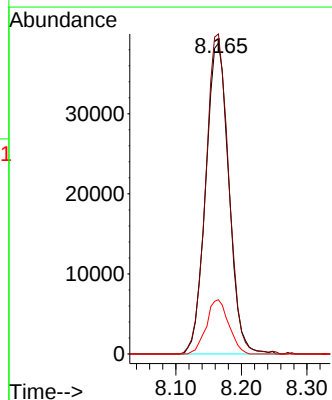
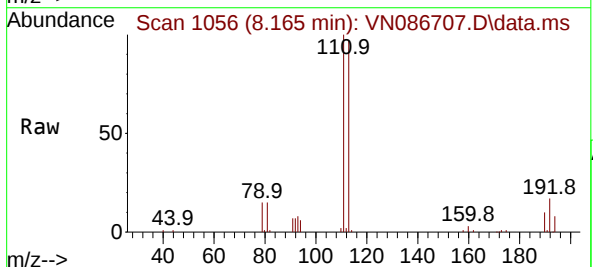
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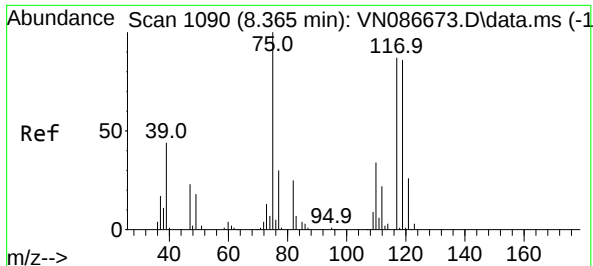
Tgt Ion:114 Resp: 301784
Ion Ratio Lower Upper
114 100
63 20.1 0.0 40.2
88 15.0 0.0 31.2



#35
Dibromofluoromethane
Concen: 52.934 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion:113 Resp: 95135
Ion Ratio Lower Upper
113 100
111 102.5 82.2 123.2
192 16.8 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.819 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0520MBL01

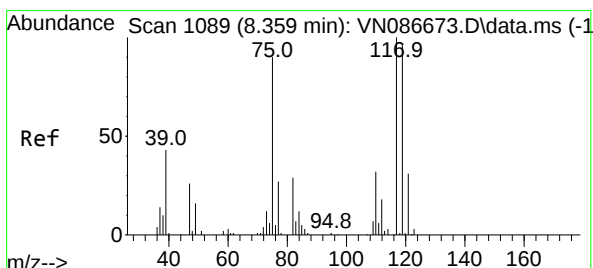
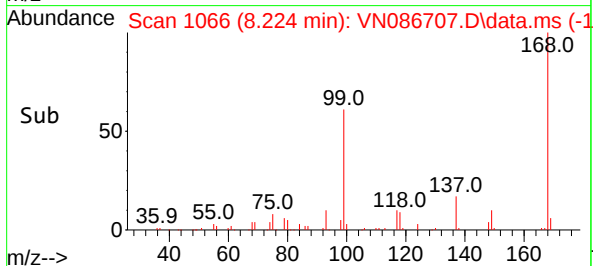
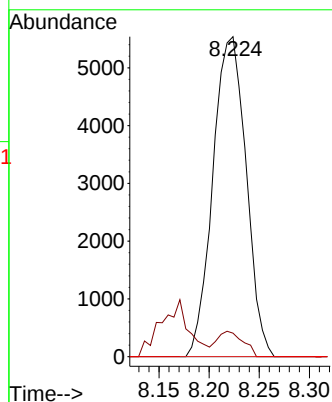
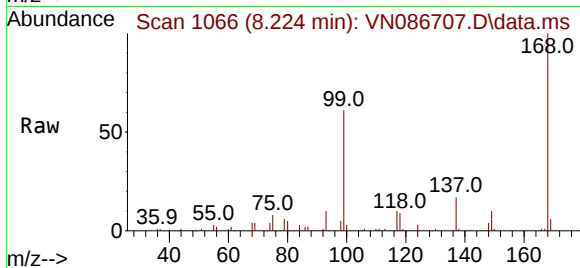
Tgt Ion: 75 Resp: 12775

Ion Ratio Lower Upper

75 100

110 6.2 17.5 52.5#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.046 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

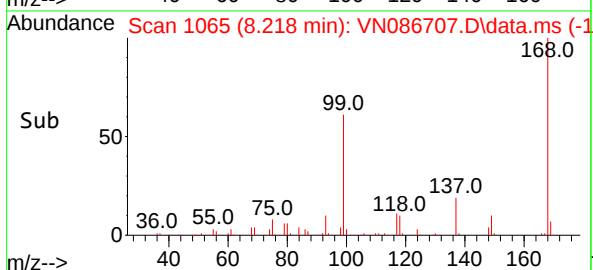
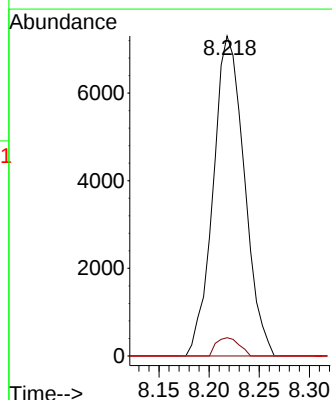
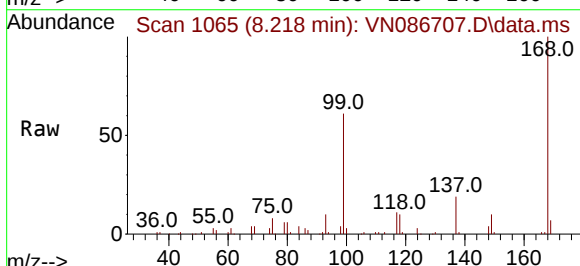
Tgt Ion: 117 Resp: 15793

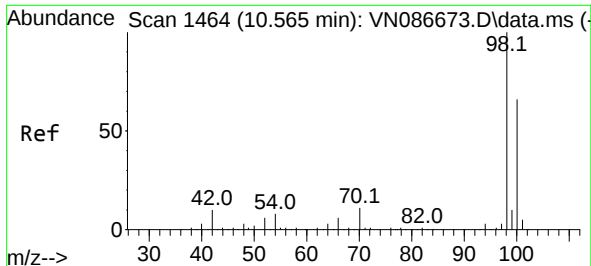
Ion Ratio Lower Upper

117 100

119 5.7 77.0 115.6#

121 0.0 25.0 37.6#

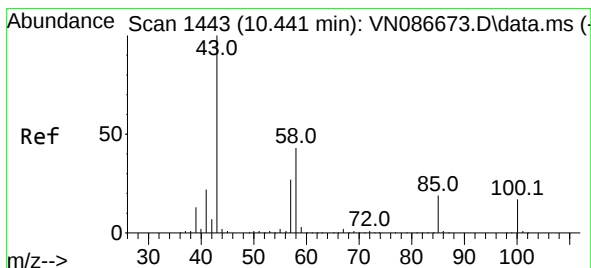
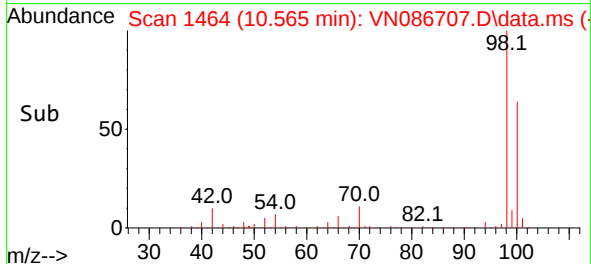
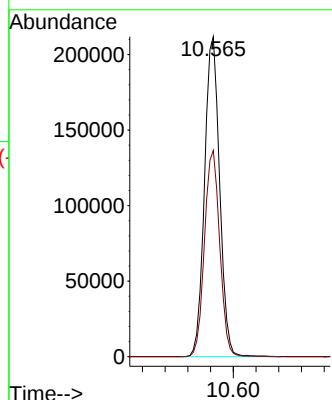
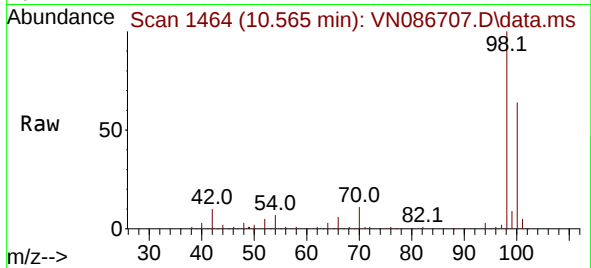




#50
Toluene-d8
Concen: 52.286 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

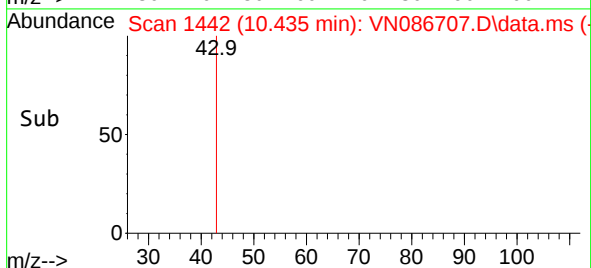
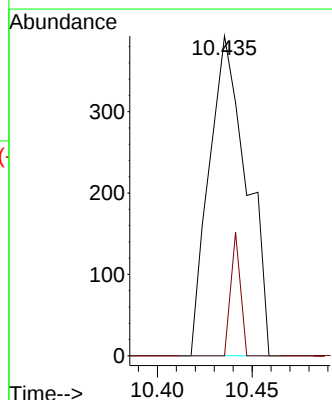
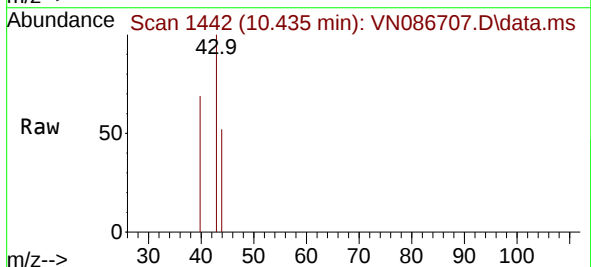
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

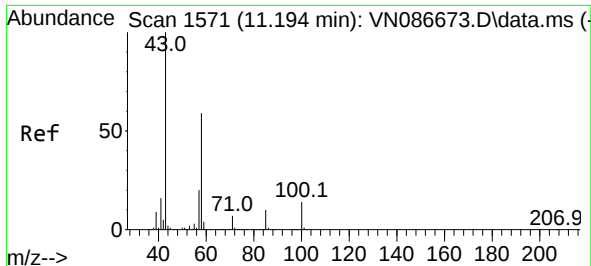
Tgt Ion: 98 Resp: 389420
Ion Ratio Lower Upper
98 100
100 65.2 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.201 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 43 Resp: 543
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

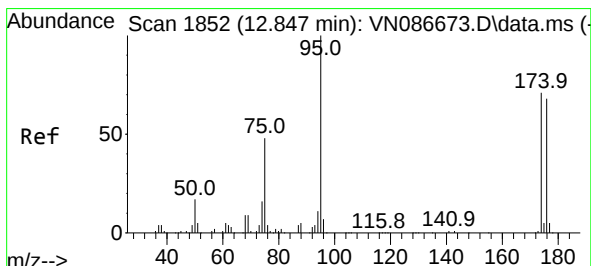
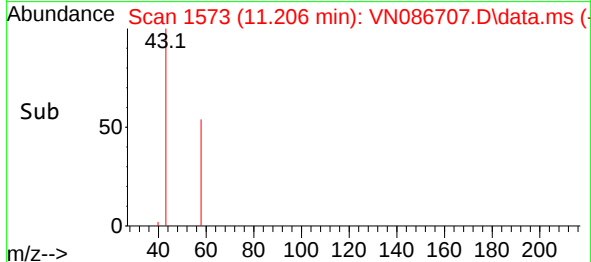
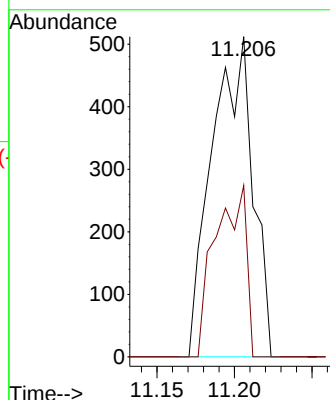
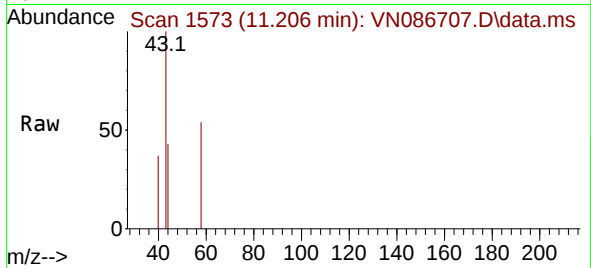




#59
2-Hexanone
Concen: 0.472 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

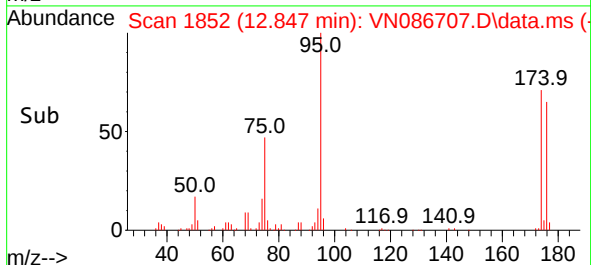
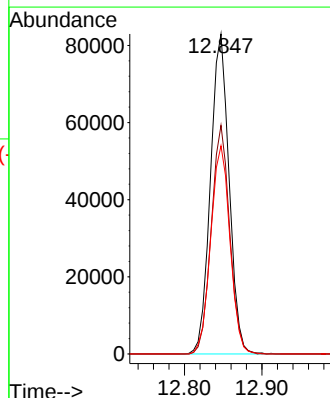
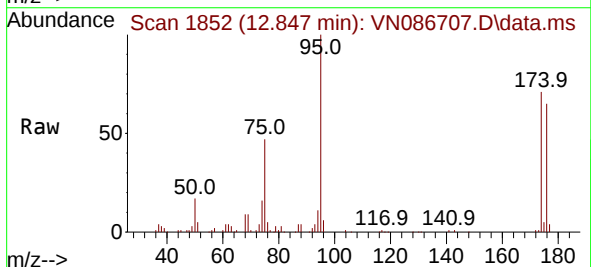
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

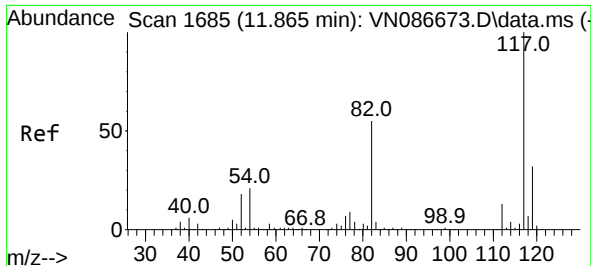
Tgt Ion: 43 Resp: 934
Ion Ratio Lower Upper
43 100
58 40.6 29.8 89.5



#62
4-Bromofluorobenzene
Concen: 52.485 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

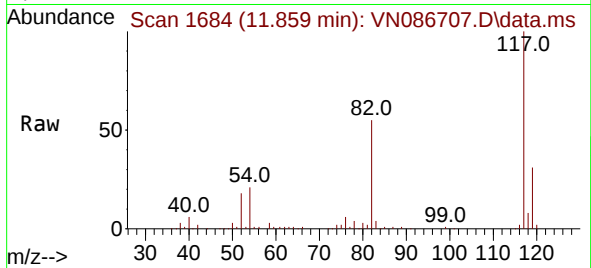
Tgt Ion: 95 Resp: 138025
Ion Ratio Lower Upper
95 100
174 71.1 0.0 145.4
176 67.3 0.0 137.8



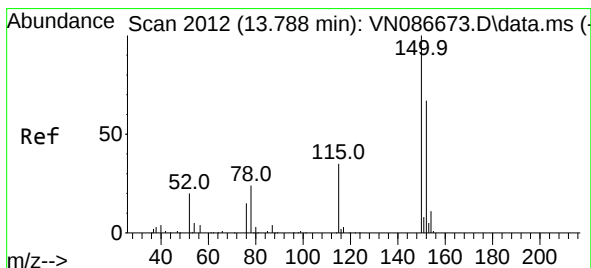
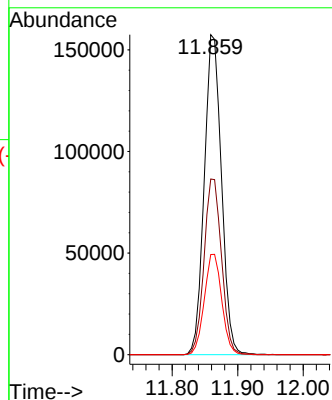
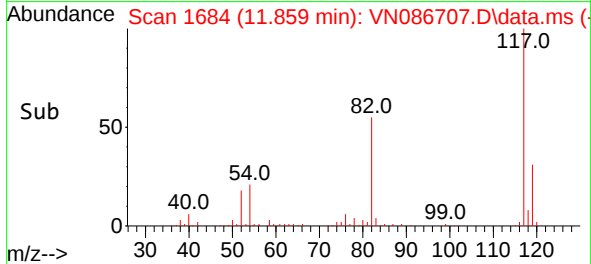


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 117
Delta R.T. -0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

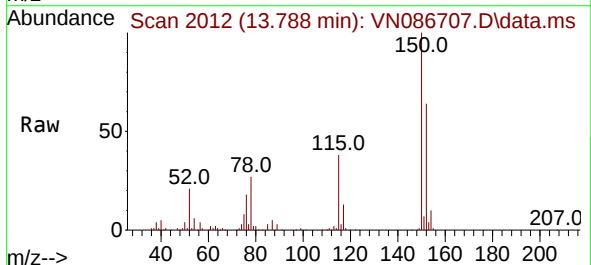
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01



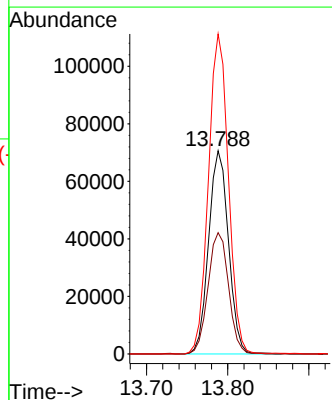
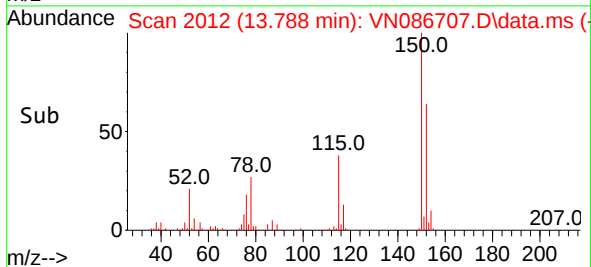
Tgt Ion:117 Resp: 287807
Ion Ratio Lower Upper
117 100
82 54.9 44.2 66.2
119 31.3 25.4 38.2

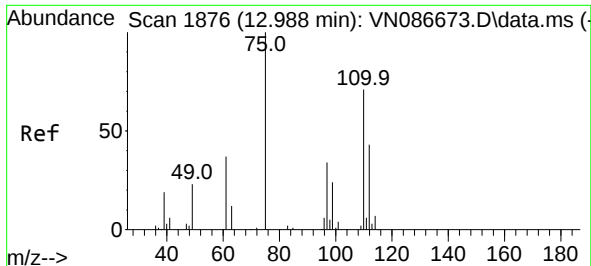


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51



Tgt Ion:152 Resp: 119988
Ion Ratio Lower Upper
152 100
115 61.6 30.0 90.1
150 158.1 0.0 347.8

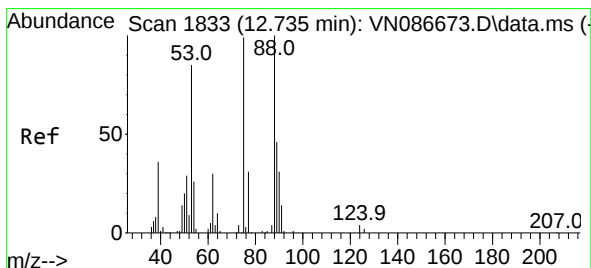
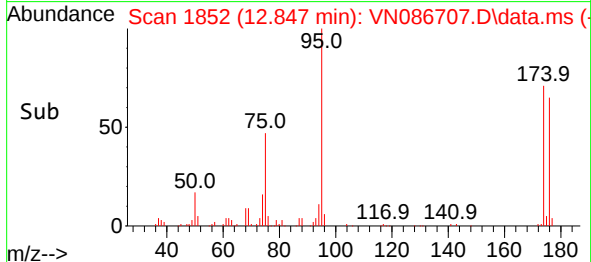
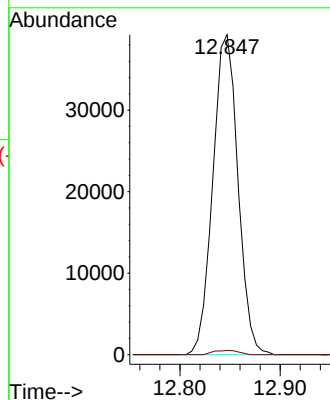
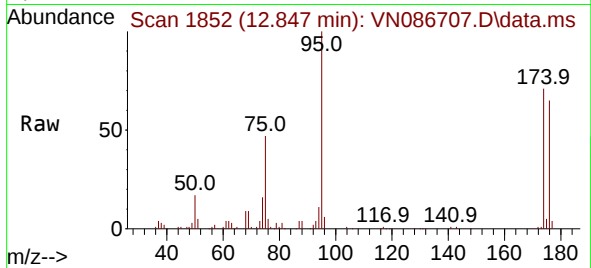




#76
1,2,3-Trichloropropane
Concen: 25.186 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

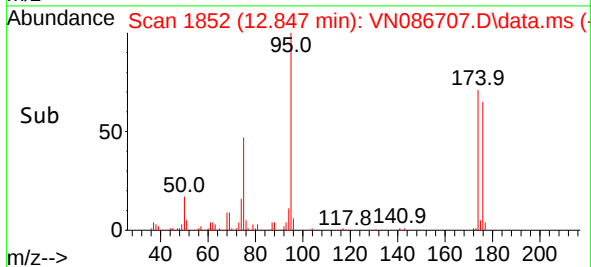
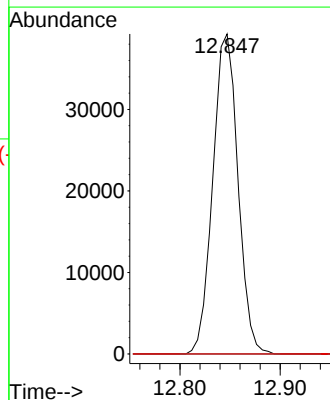
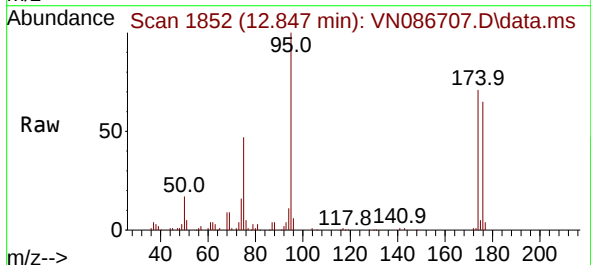
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

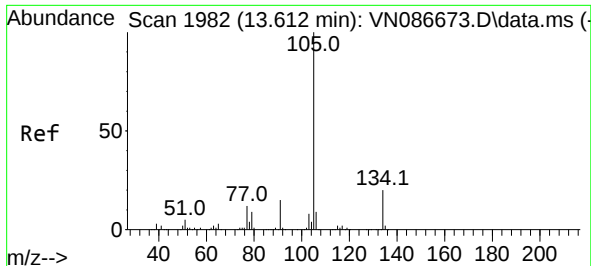
Tgt Ion: 75 Resp: 68346
Ion Ratio Lower Upper
75 100
77 1.3 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.561 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 75 Resp: 68346
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.0 32.4 48.6#

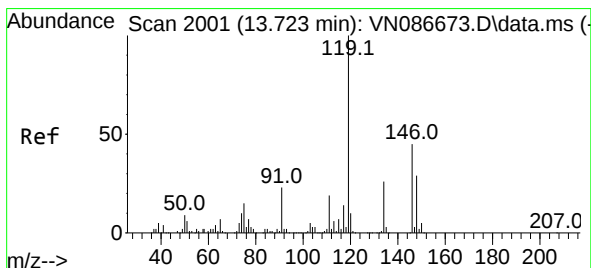
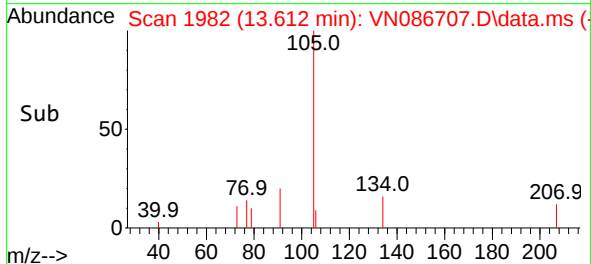
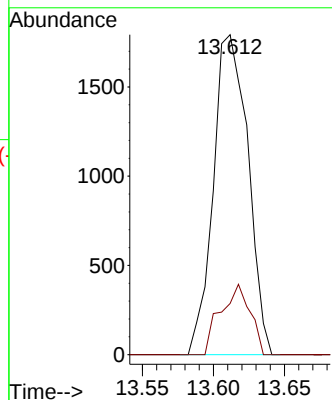
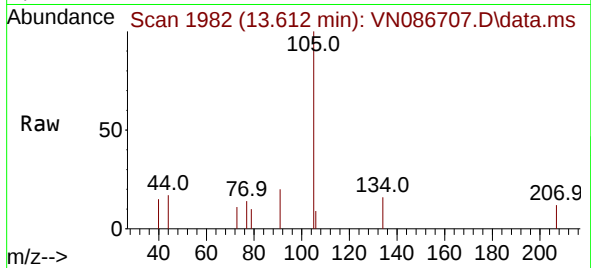




#85
 sec-Butylbenzene
 Concen: 0.350 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086707.D
 Acq: 20 May 2025 10:51

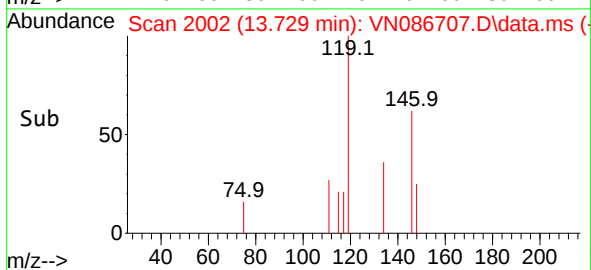
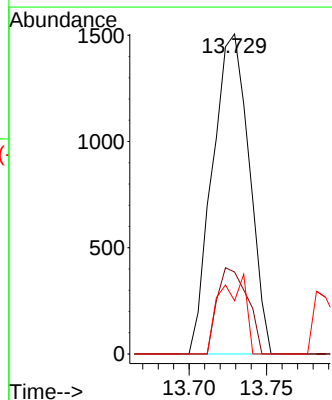
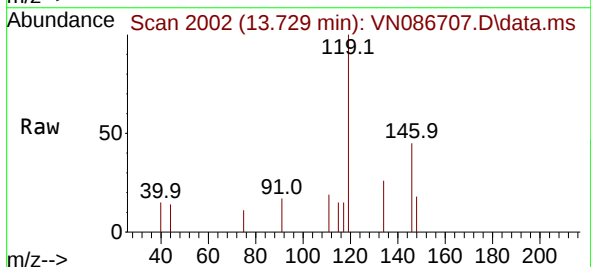
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0520MBL01

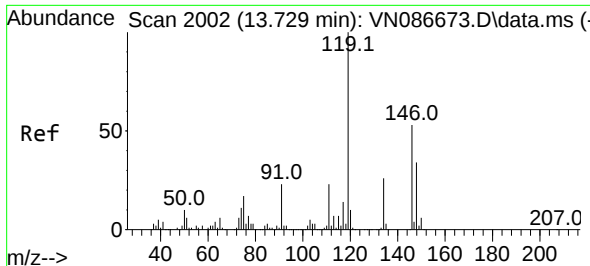
Tgt Ion:105 Resp: 3041
 Ion Ratio Lower Upper
 105 100
 134 18.7 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 0.348 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086707.D
 Acq: 20 May 2025 10:51

Tgt Ion:119 Resp: 2475
 Ion Ratio Lower Upper
 119 100
 134 22.2 13.1 39.1
 91 17.3 11.5 34.5

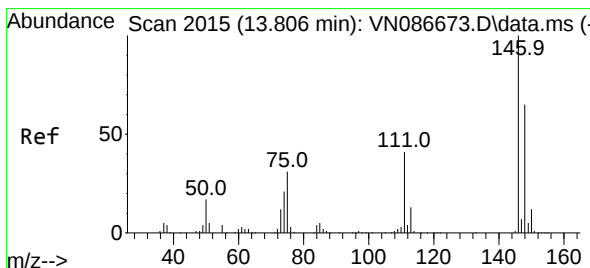
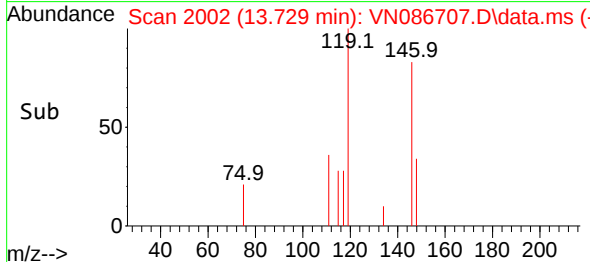
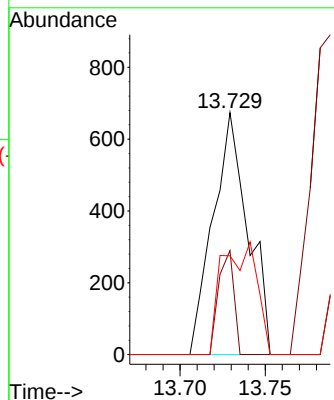
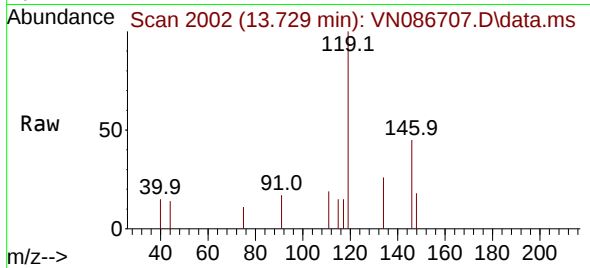




#87
 1,3-Dichlorobenzene
 Concen: 0.238 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN086707.D
 Acq: 20 May 2025 10:51

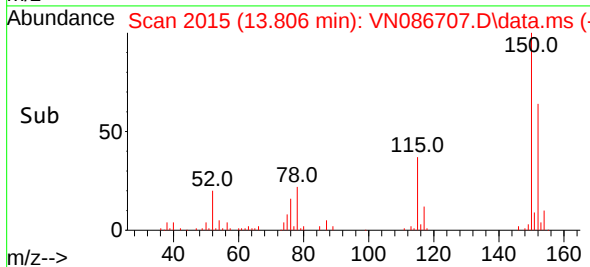
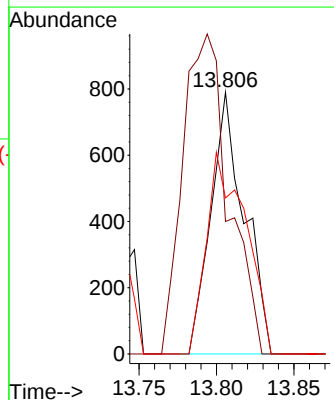
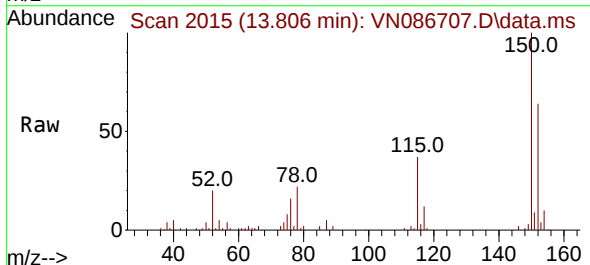
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0520MBL01

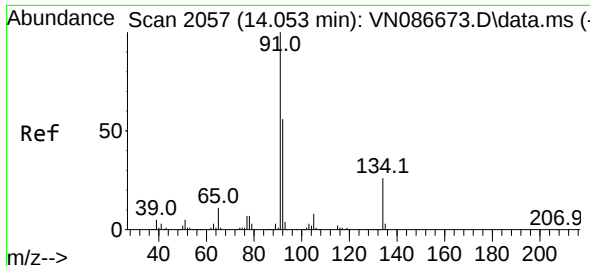
Tgt Ion:146 Resp: 962
 Ion Ratio Lower Upper
 146 100
 111 18.8 20.9 62.7#
 148 46.5 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 0.296 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: VN086707.D
 Acq: 20 May 2025 10:51

Tgt Ion:146 Resp: 1185
 Ion Ratio Lower Upper
 146 100
 111 166.8 20.6 61.8#
 148 90.0 32.0 96.0

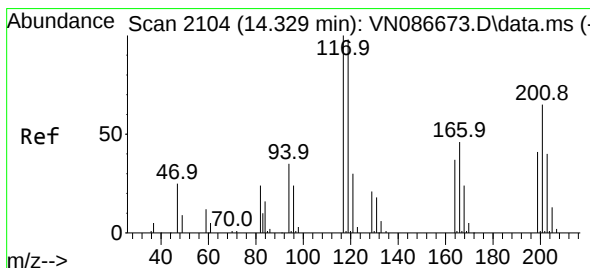
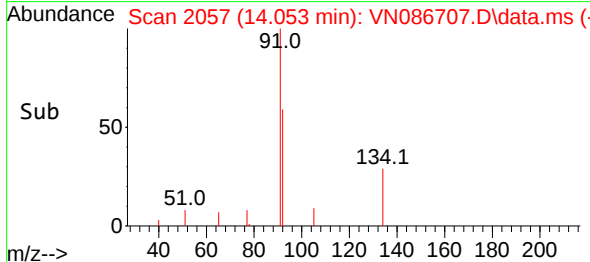
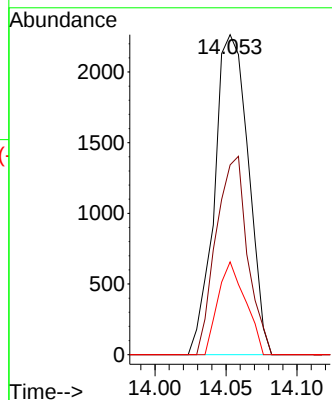
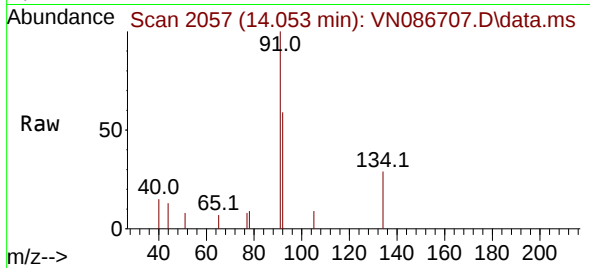




#89
n-Butylbenzene
Concen: 0.637 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

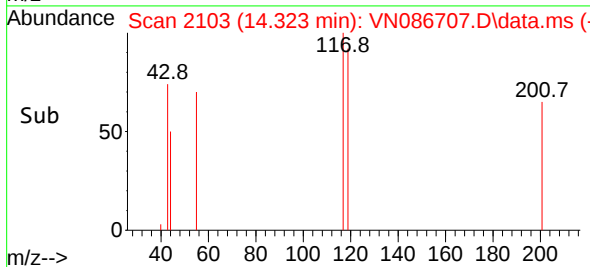
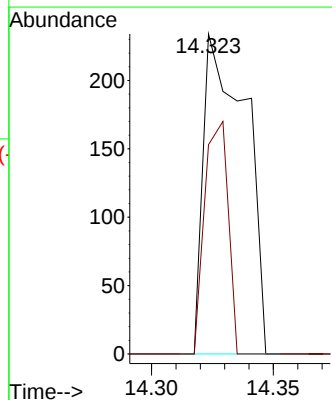
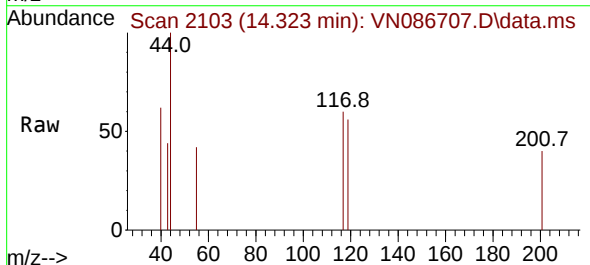
Instrument :
MSVOA_N
ClientSampleId :
VN0520MBL01

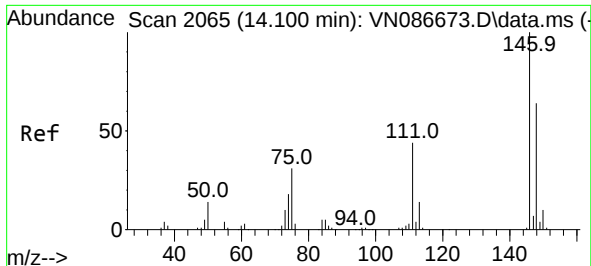
Tgt Ion: 91	Resp:	3761
Ion Ratio	Lower	Upper
91	100	
92	57.5	27.4 82.0
134	23.5	12.8 38.4



#90
Hexachloroethane
Concen: 0.239 ug/l
RT: 14.323 min Scan# 2103
Delta R.T. -0.006 min
Lab File: VN086707.D
Acq: 20 May 2025 10:51

Tgt Ion: 117	Resp:	282
Ion Ratio	Lower	Upper
117	100	
201	40.4	32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 0.202 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0520MBL01

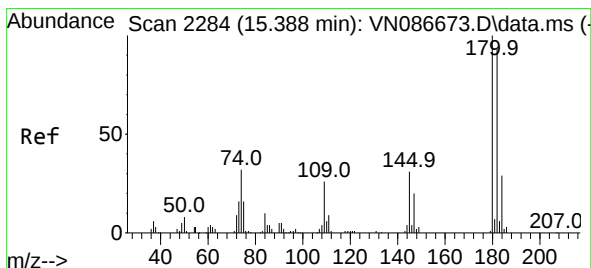
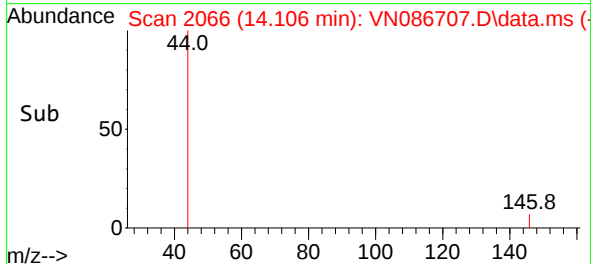
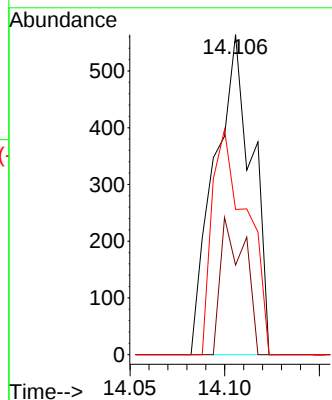
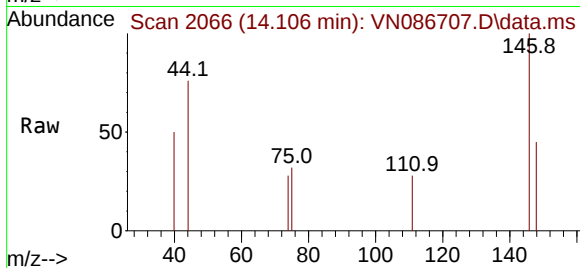
Tgt Ion:146 Resp: 777

Ion Ratio Lower Upper

146 100

111 27.5 21.6 65.0

148 65.3 31.7 95.1



#93

1,2,4-Trichlorobenzene

Concen: 0.842 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. -0.006 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

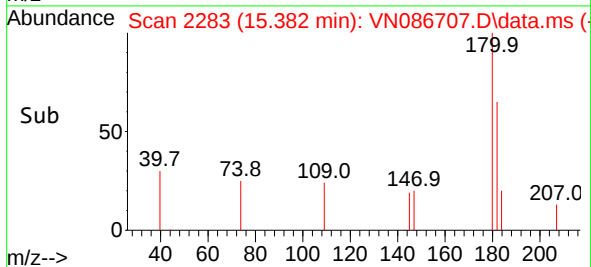
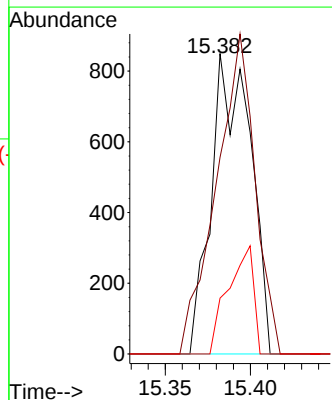
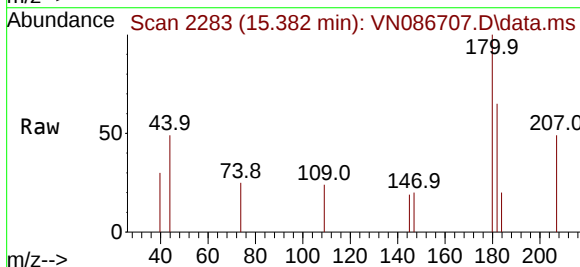
Tgt Ion:180 Resp: 1365

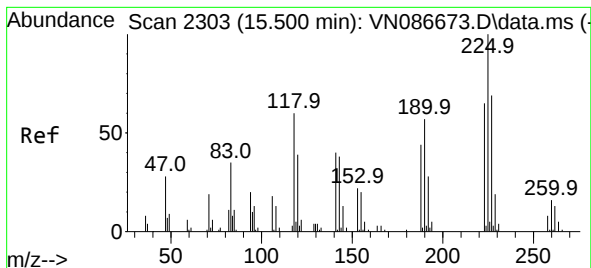
Ion Ratio Lower Upper

180 100

182 104.5 47.1 141.3

145 23.3 15.6 46.8





#94

Hexachlorobutadiene

Concen: 0.848 ug/l

RT: 15.500 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

Instrument :

MSVOA_N

ClientSampleId :

VN0520MBL01

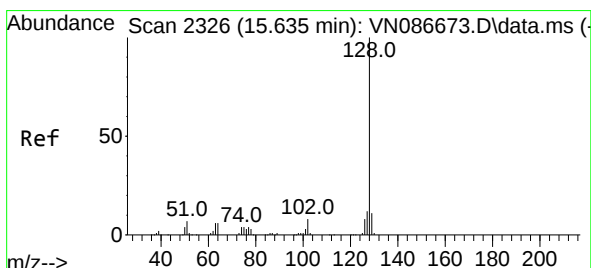
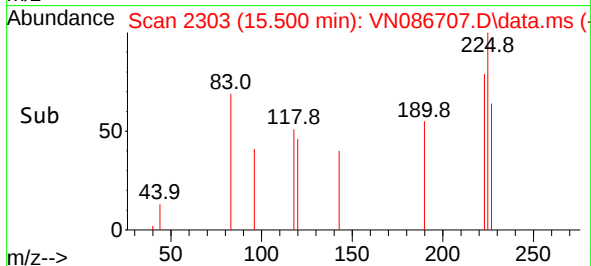
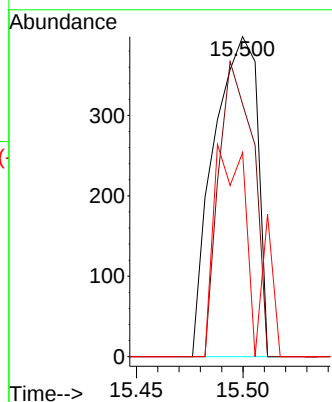
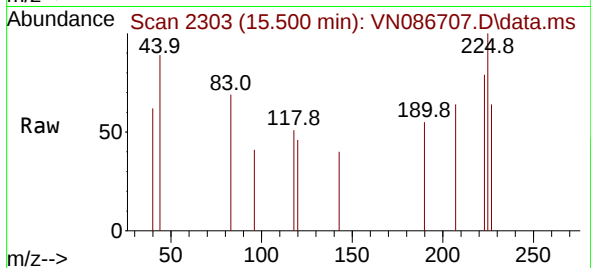
Tgt Ion:225 Resp: 570

Ion Ratio Lower Upper

225 100

223 71.9 32.9 98.6

227 56.1 32.4 97.2



#95

Naphthalene

Concen: 0.982 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN086707.D

Acq: 20 May 2025 10:51

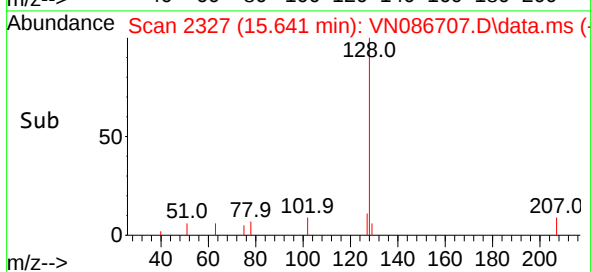
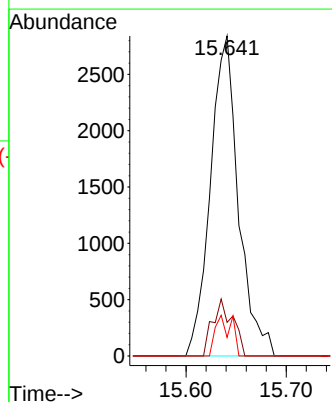
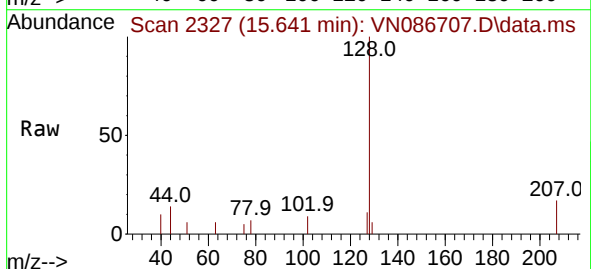
Tgt Ion:128 Resp: 5527

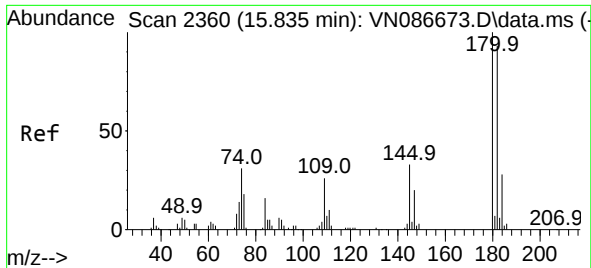
Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

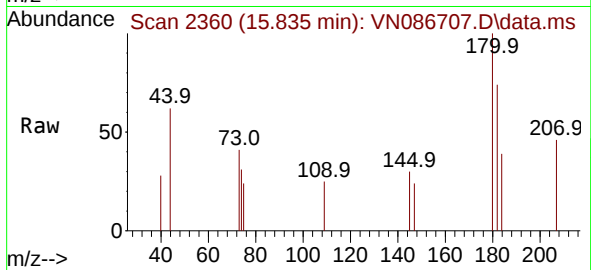
129 7.3 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.876 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN086707.D
 Acq: 20 May 2025 10:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0520MBL01



Tgt Ion:180 Resp: 1391

Ion	Ratio	Lower	Upper
180	100		
182	78.4	47.0	141.2
145	31.4	16.7	50.1

