

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086614.D
 Acq On : 13 May 2025 20:15
 Operator : JC\MD
 Sample : PB167964ZHE#12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#12

Quant Time: May 14 01:51:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

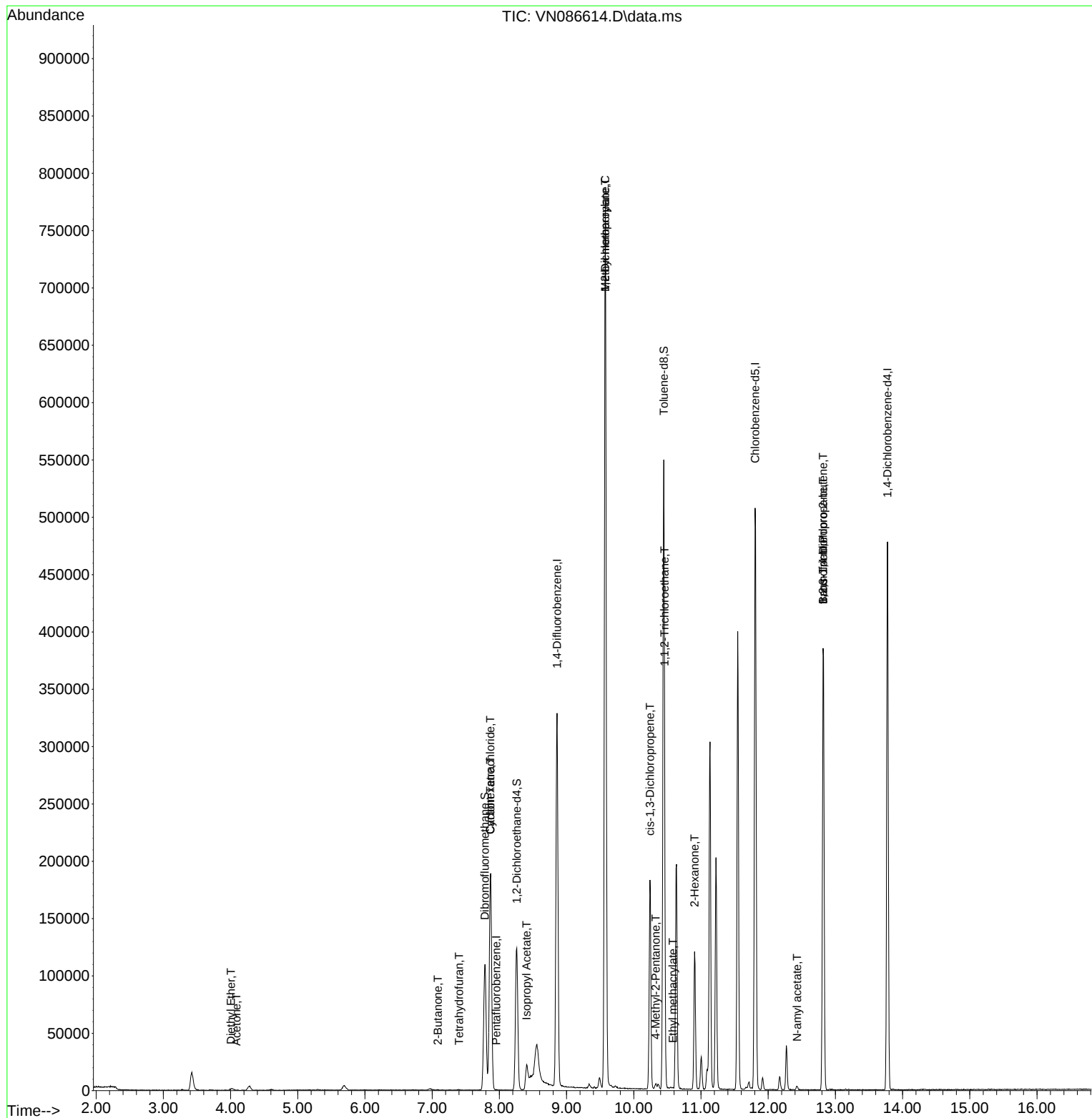
Internal Standards						
1) Pentafluorobenzene	7.953	168	329	50.000	ug/l	-0.26
34) 1,4-Difluorobenzene	8.859	114	302509	50.000	ug/l	-0.24
63) Chlorobenzene-d5	11.806	117	259471	50.000	ug/l	-0.06
72) 1,4-Dichlorobenzene-d4	13.776	152	129472	50.000	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.259	65	113761	23845.304	ug/l	-0.32
Spiked Amount 50.000	Range 74 - 125		Recovery = 47690.600%#			
35) Dibromofluoromethane	7.783	113	92563	65.929	ug/l	-0.38
Spiked Amount 50.000	Range 75 - 124		Recovery = 131.860%#			
50) Toluene-d8	10.447	98	393908	52.496	ug/l	-0.12
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.000%			
62) 4-Bromofluorobenzene	0.000	95	0	0.000	ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery = 0.000%#			
Target Compounds						Qvalue
8) Diethyl Ether	4.006	74	323	123.490	ug/l #	2
16) Acetone	4.089	43	222	131.893	ug/l #	43
25) 2-Butanone	7.083	43	529	178.140	ug/l #	48
29) Tetrahydrofuran	7.400	42	383	192.872	ug/l #	32
31) Cyclohexane	7.865	56	3323	429.800	ug/l #	1
38) Carbon Tetrachloride	7.865	117	10723	4.015	ug/l #	16
43) Isopropyl Acetate	8.406	43	30776	4.016	ug/l #	82
45) 1,2-Dichloropropane	9.577	63	935	0.425	ug/l #	43
48) Methyl methacrylate	9.577	41	72620	28.010	ug/l #	41
51) 4-Methyl-2-Pentanone	10.329	43	2811	0.930	ug/l	99
54) cis-1,3-Dichloropropene	10.241	75	34804	9.379	ug/l #	61
55) 1,1,2-Trichloroethane	10.459	97	8822	4.374	ug/l #	1
56) Ethyl methacrylate	10.582	69	780	0.210	ug/l #	26
59) 2-Hexanone	10.906	43	84754	37.797	ug/l #	23
71) Bromoform	12.818	173	992	0.690	ug/l #	1
74) N-amyl acetate	12.429	43	3961	0.751	ug/l #	43
76) 1,2,3-Trichloropropane	12.818	75	71973	23.556	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.818	75	71973	56.574	ug/l #	10

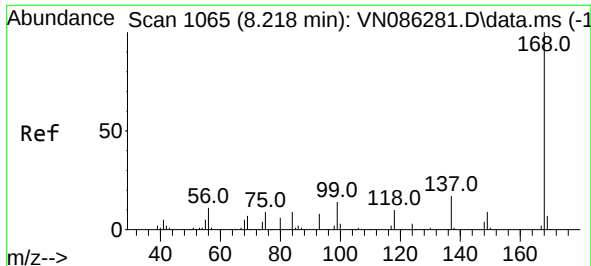
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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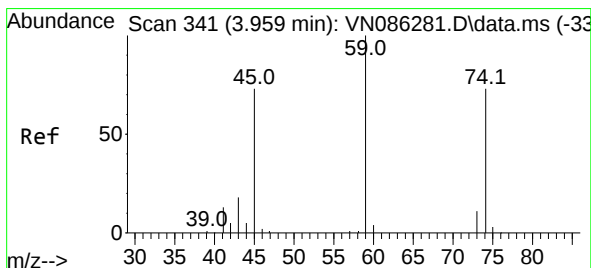
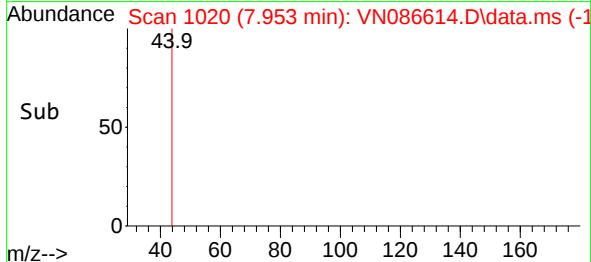
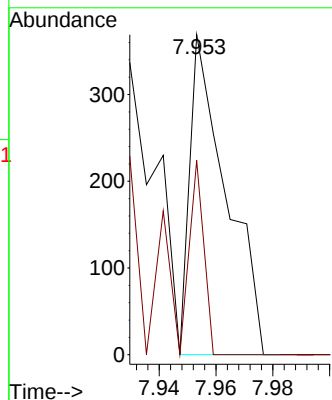
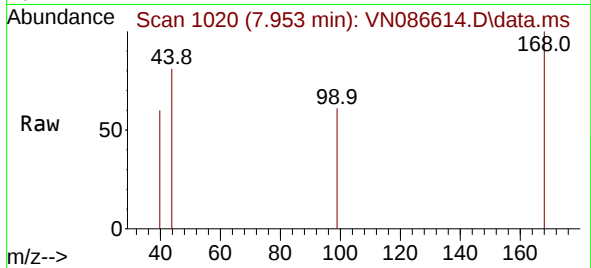




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.953 min Scan# 10
Delta R.T. -0.265 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

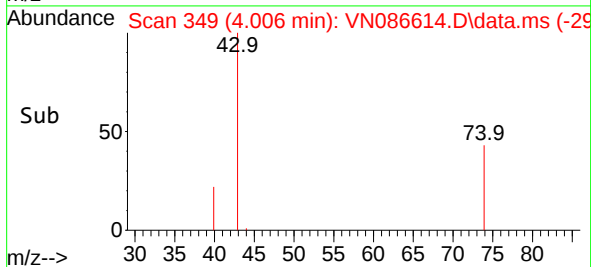
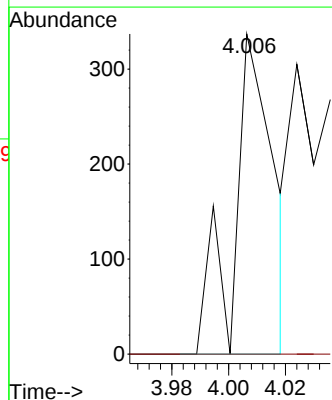
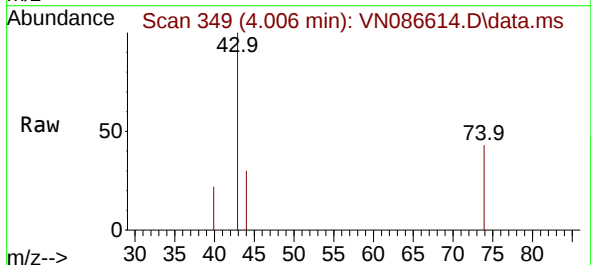
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

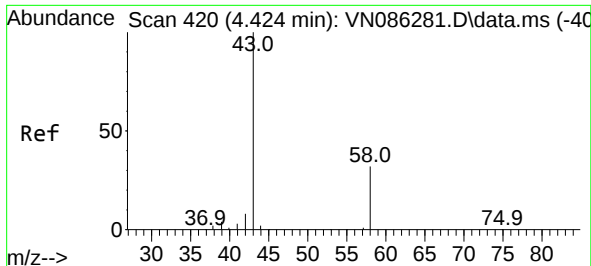
Tgt Ion:168 Resp: 329
Ion Ratio Lower Upper
168 100
99 60.7 52.5 78.7



#8
Diethyl Ether
Concen: 123.490 ug/l
RT: 4.006 min Scan# 349
Delta R.T. 0.047 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 74 Resp: 323
Ion Ratio Lower Upper
74 100
45 0.0 48.0 144.2#

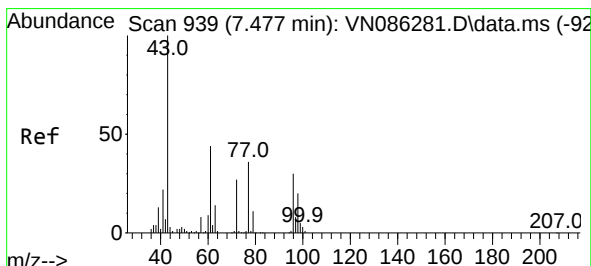
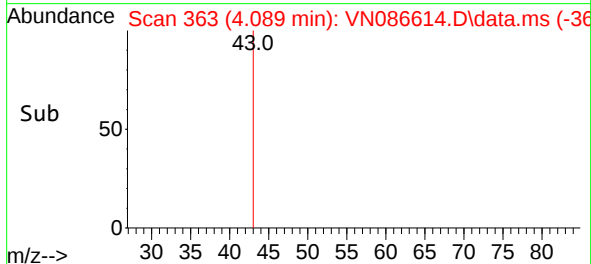
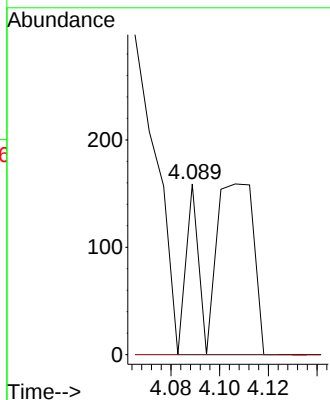
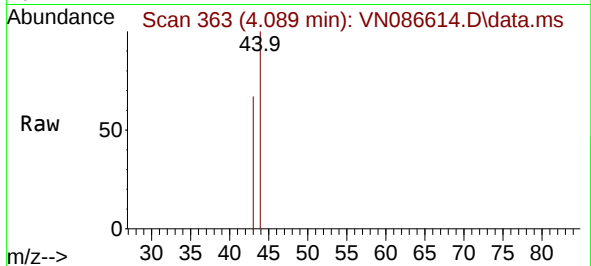




#16
Acetone
Concen: 131.893 ug/l
RT: 4.089 min Scan# 30
Delta R.T. -0.335 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

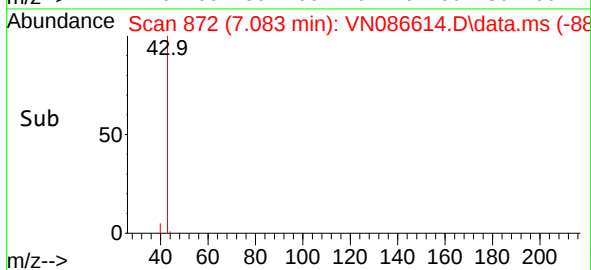
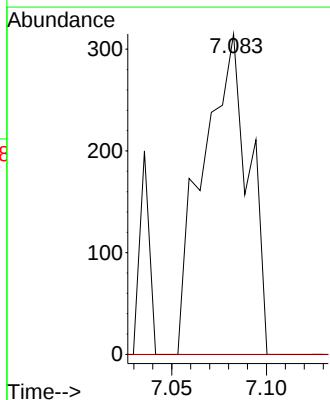
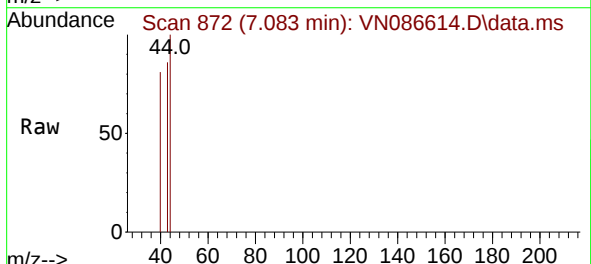
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

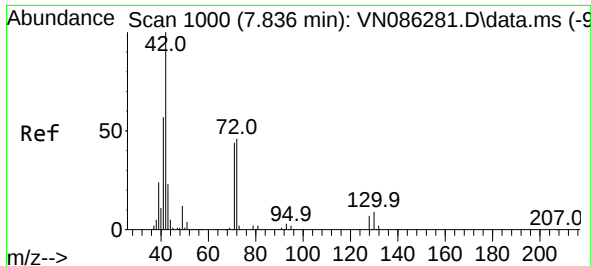
Tgt Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
58 0.0 25.3 37.9#



#25
2-Butanone
Concen: 178.140 ug/l
RT: 7.083 min Scan# 872
Delta R.T. -0.394 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 43 Resp: 529
Ion Ratio Lower Upper
43 100
72 0.0 21.7 32.5#





#29

Tetrahydrofuran

Concen: 192.872 ug/l

RT: 7.400 min Scan# 91

Delta R.T. -0.435 min

Lab File: VN086614.D

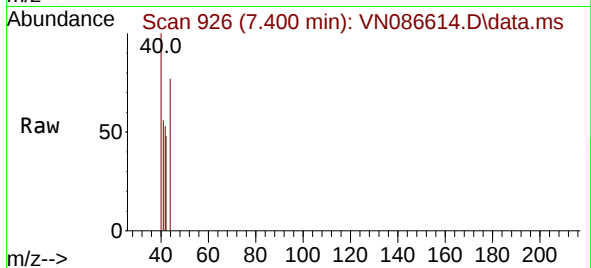
Acq: 13 May 2025 20:15

Instrument :

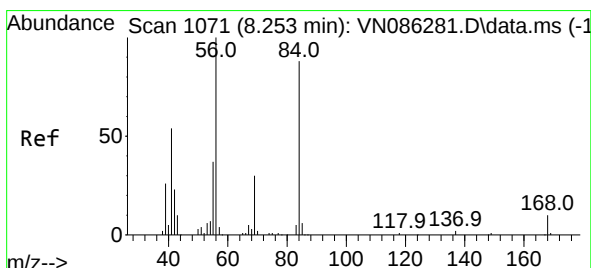
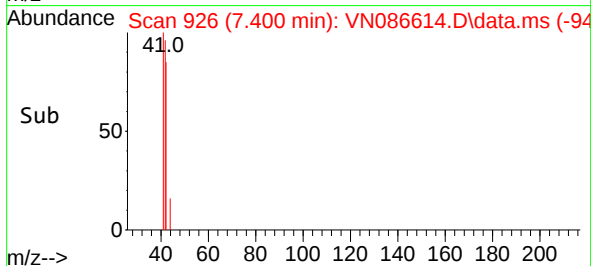
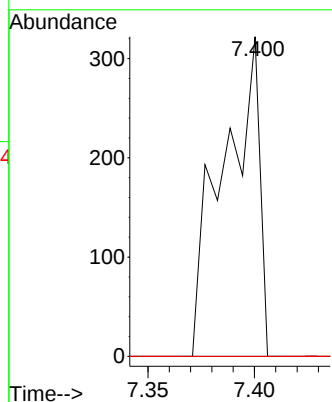
MSVOA_N

ClientSampleId :

PB167964ZHE#12



Tgt Ion:	42	Resp:	383
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 429.800 ug/l

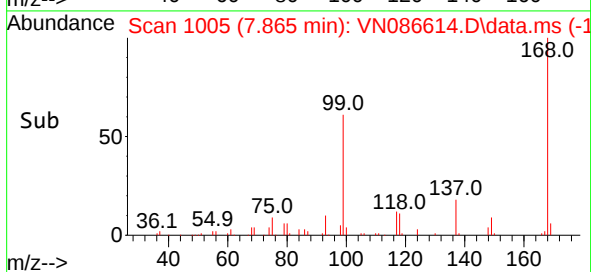
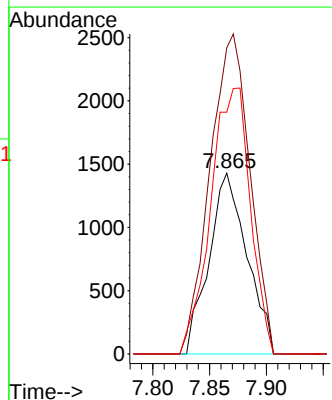
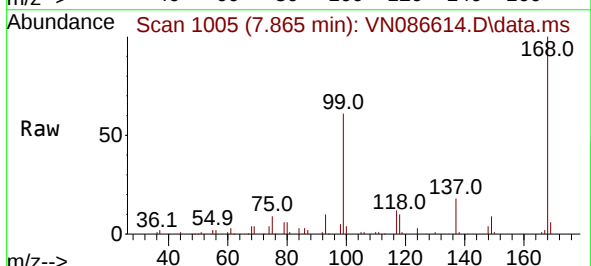
RT: 7.865 min Scan# 1005

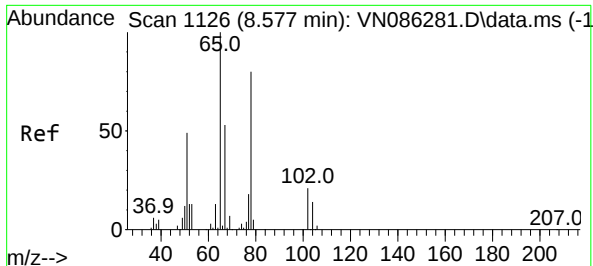
Delta R.T. -0.388 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

Tgt Ion:	56	Resp:	3323
Ion	Ratio	Lower	Upper
56	100		
69	169.3	24.2	36.2#
84	133.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 23845.304 ug/l

RT: 8.259 min Scan# 1174

Delta R.T. -0.318 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

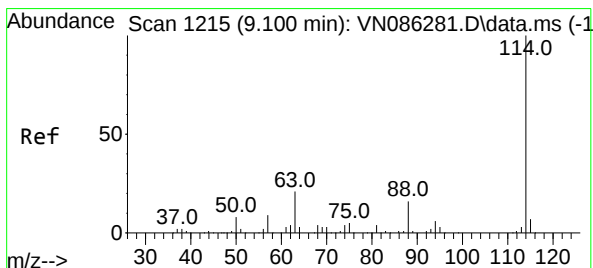
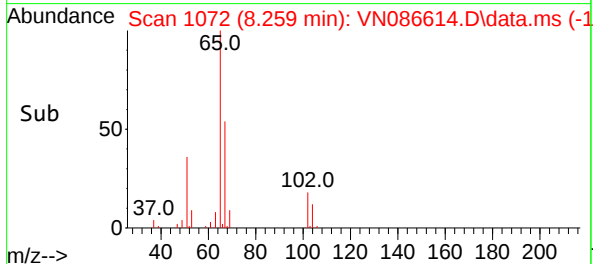
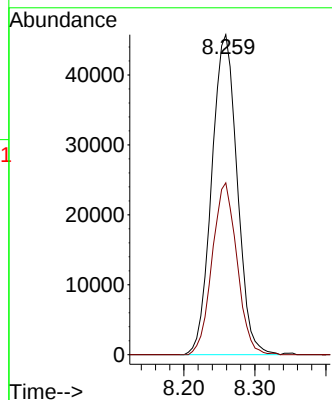
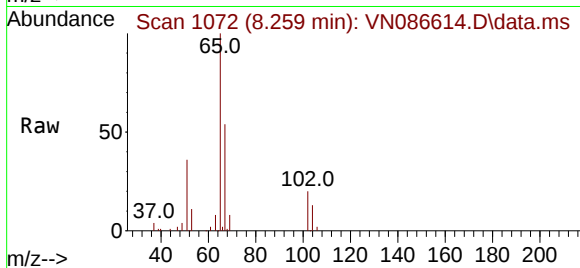
PB167964ZHE#12

Tgt Ion: 65 Resp: 113761

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.859 min Scan# 1174

Delta R.T. -0.241 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

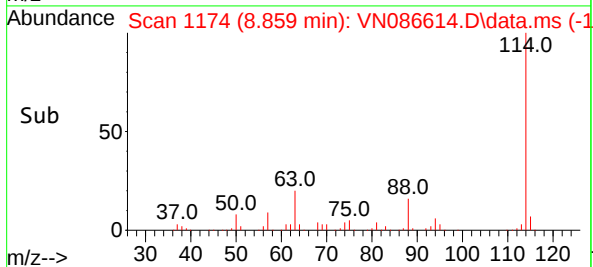
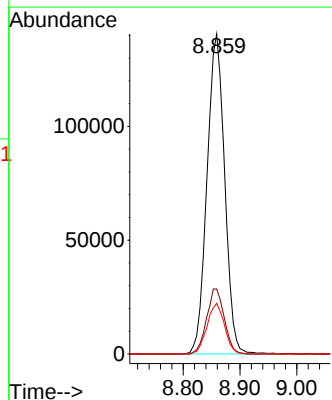
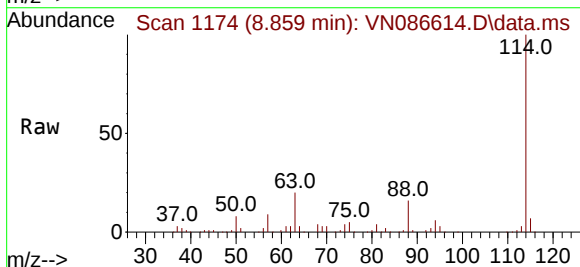
Tgt Ion: 114 Resp: 302509

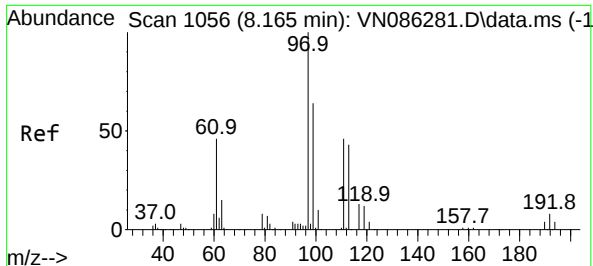
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 65.929 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.382 min

Lab File: VN086614.D

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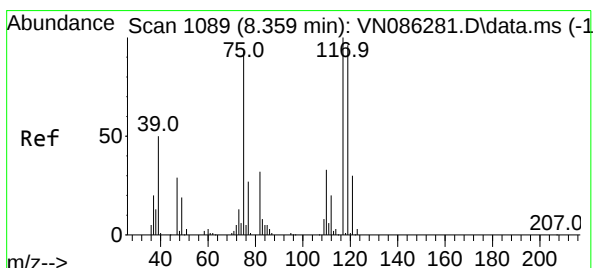
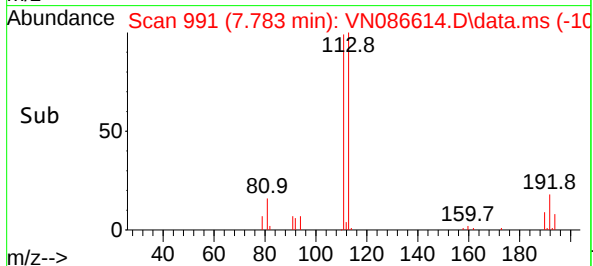
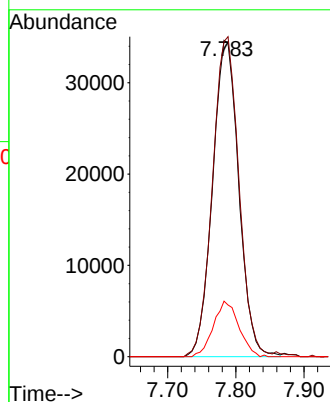
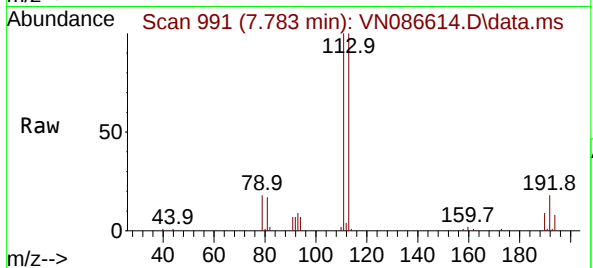
Tgt Ion:113 Resp: 92563

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

192 17.1 13.7 20.5



#38

Carbon Tetrachloride

Concen: 4.015 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. -0.494 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

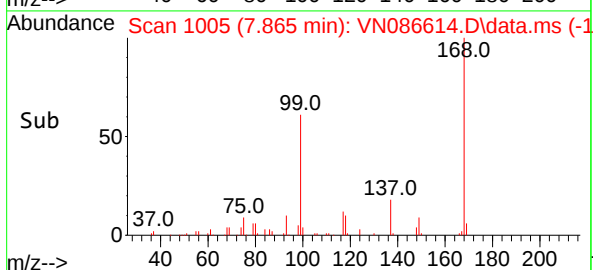
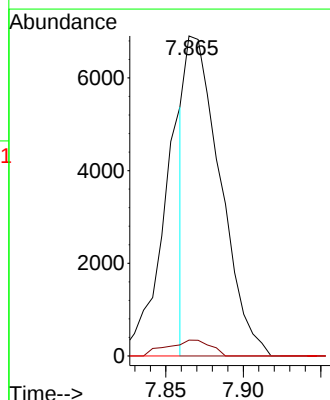
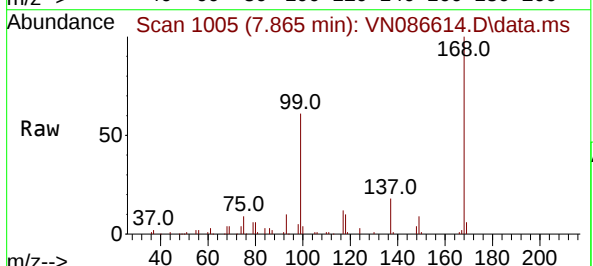
Tgt Ion:117 Resp: 10723

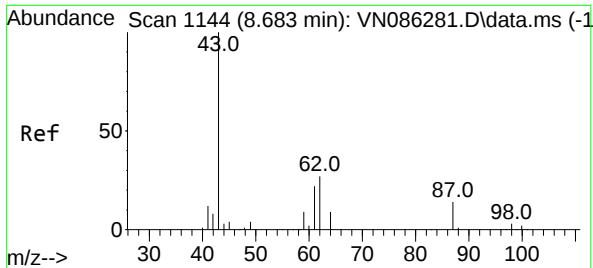
Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

121 0.0 23.8 35.8#

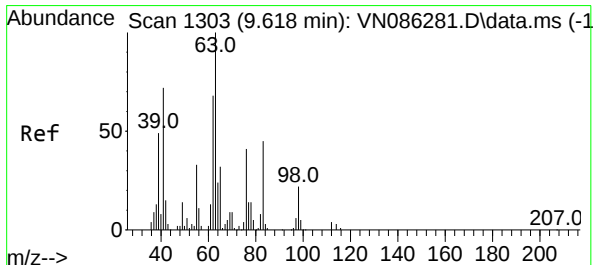
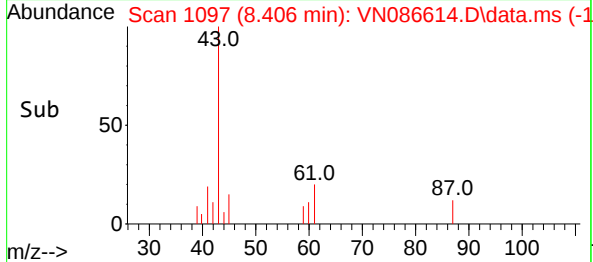
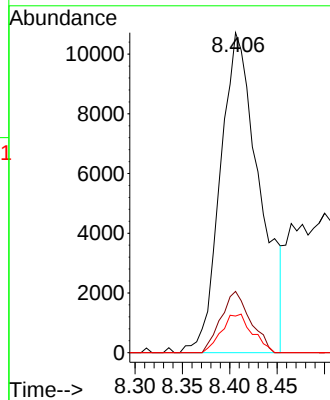
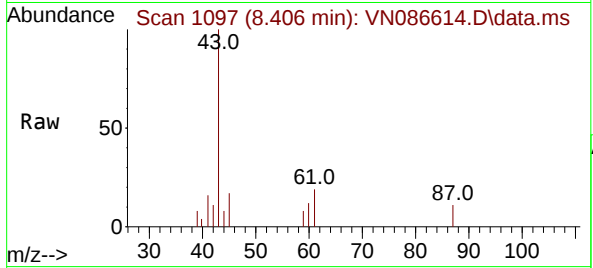




#43
Isopropyl Acetate
Concen: 4.016 ug/l
RT: 8.406 min Scan# 1144
Delta R.T. -0.277 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

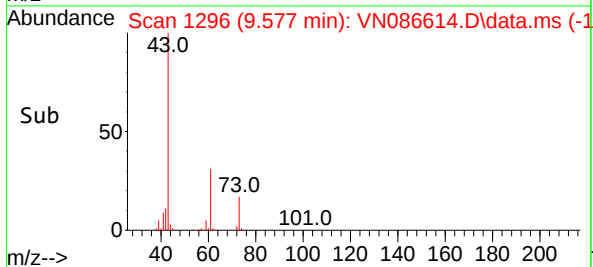
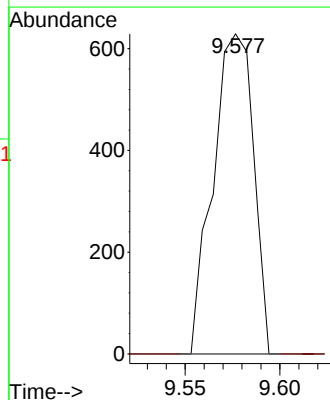
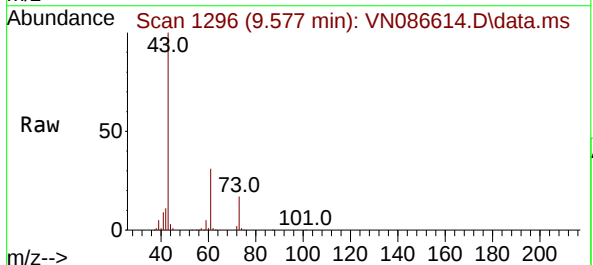
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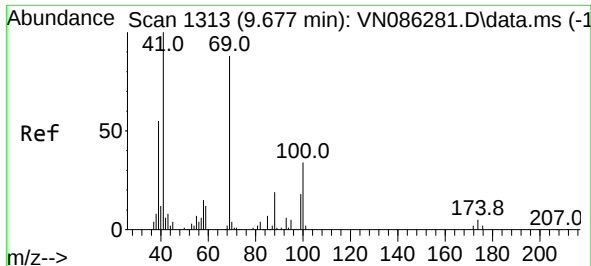
Tgt Ion: 43 Resp: 30776
Ion Ratio Lower Upper
43 100
61 14.5 20.5 30.7#
87 9.5 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.425 ug/l
RT: 9.577 min Scan# 1296
Delta R.T. -0.041 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 63 Resp: 935
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

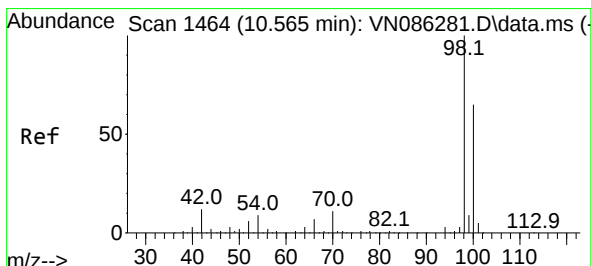
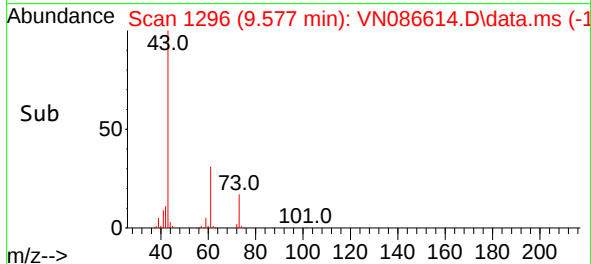
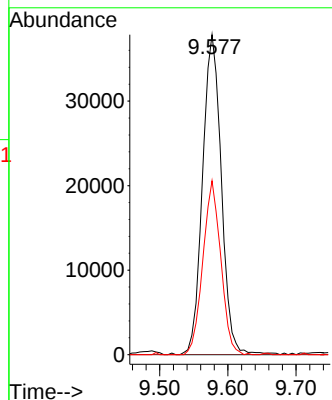
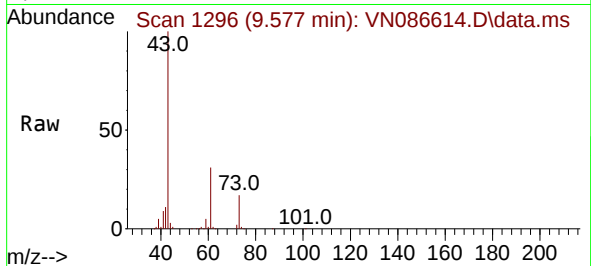




#48
Methyl methacrylate
Concen: 28.010 ug/l
RT: 9.577 min Scan# 11
Delta R.T. -0.100 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

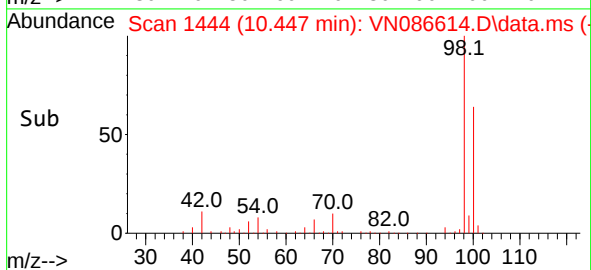
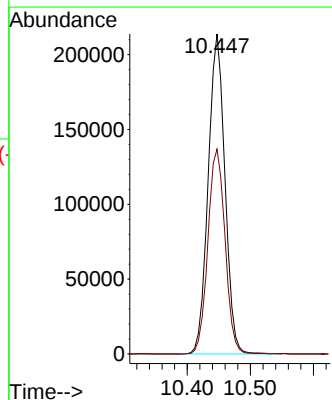
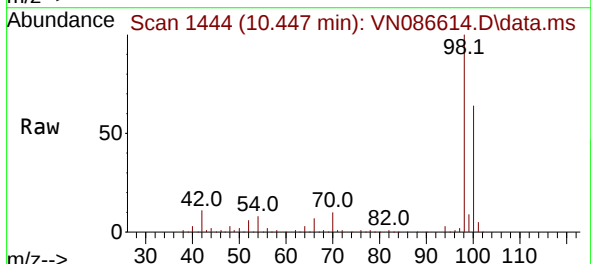
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

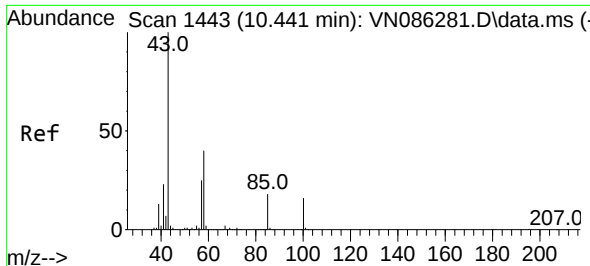
Tgt Ion: 41 Resp: 72620
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 51.8 45.2 67.8



#50
Toluene-d8
Concen: 52.496 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.118 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 98 Resp: 393908
Ion Ratio Lower Upper
98 100
100 65.5 52.5 78.7

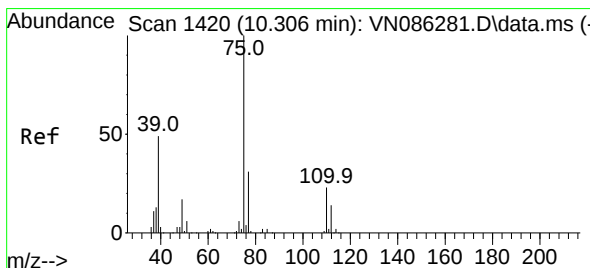
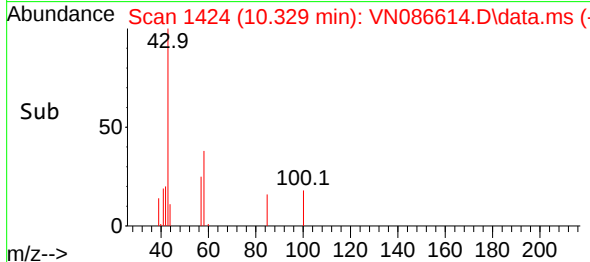
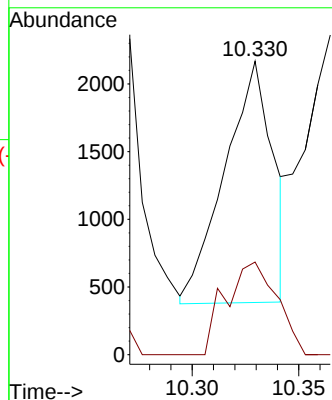
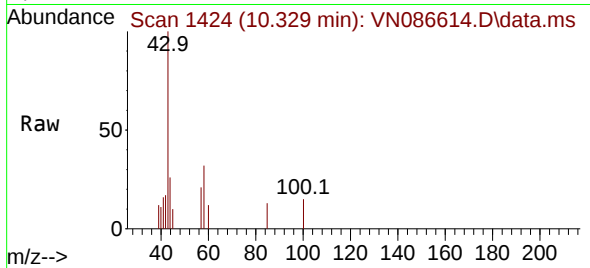




#51
4-Methyl-2-Pentanone
Concen: 0.930 ug/l
RT: 10.329 min Scan# 1443
Delta R.T. -0.112 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

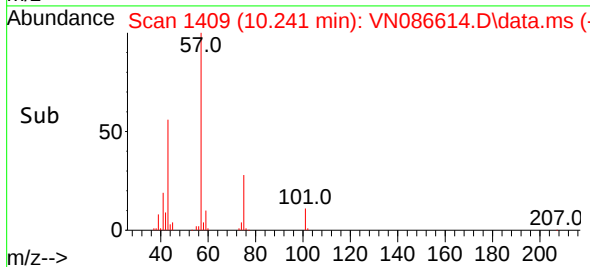
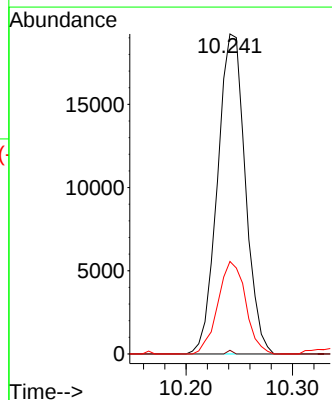
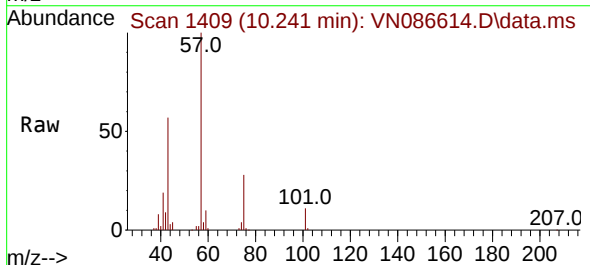
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

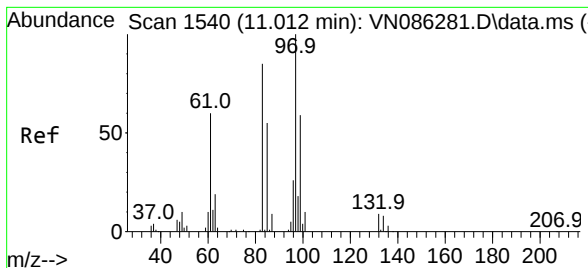
Tgt Ion: 43 Resp: 2811
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 9.379 ug/l
RT: 10.241 min Scan# 1409
Delta R.T. -0.065 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

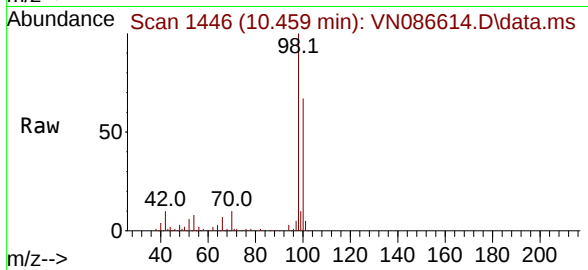
Tgt Ion: 75 Resp: 34804
Ion Ratio Lower Upper
75 100
77 1.2 25.2 37.8#
39 28.9 39.3 58.9#



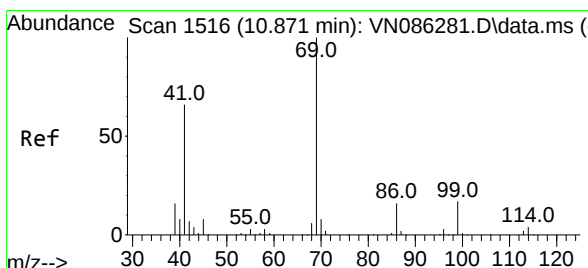
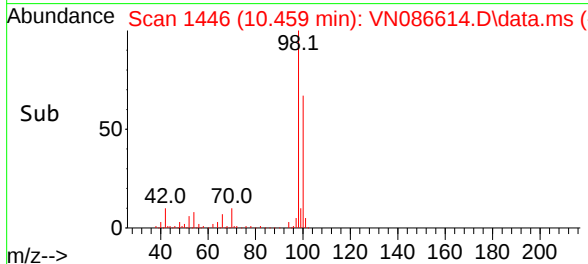
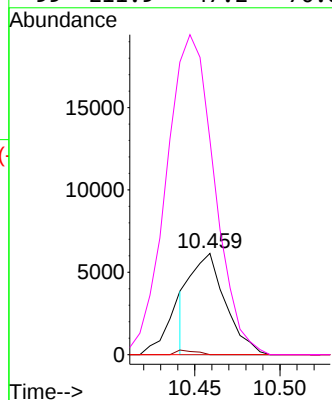


#55
1,1,2-Trichloroethane
Concen: 4.374 ug/l
RT: 10.459 min Scan# 1466
Delta R.T. -0.553 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

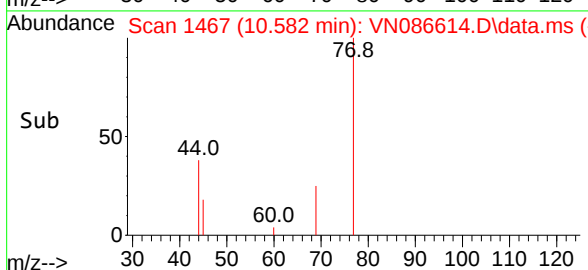
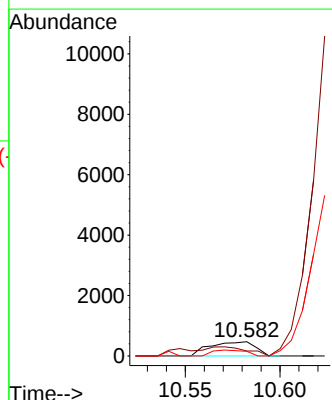
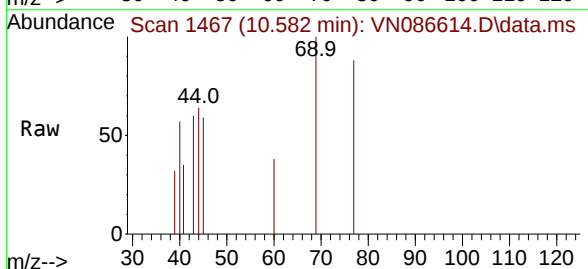


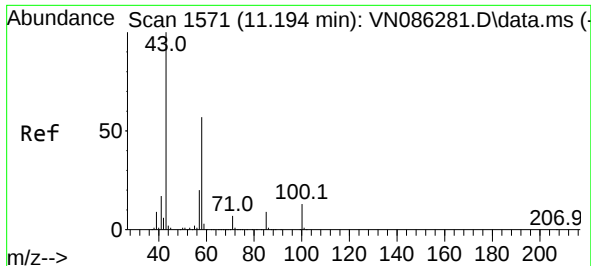
Tgt Ion: 97 Resp: 8822
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 43.9 65.9#
99 211.9 47.2 70.8#



#56
Ethyl methacrylate
Concen: 0.210 ug/l
RT: 10.582 min Scan# 1467
Delta R.T. -0.288 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 69 Resp: 780
Ion Ratio Lower Upper
69 100
41 0.0 51.7 77.5#
39 0.0 26.3 39.5#





#59

2-Hexanone

Concen: 37.797 ug/l

RT: 10.906 min Scan# 11

Delta R.T. -0.288 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

Instrument :

MSVOA_N

ClientSampleId :

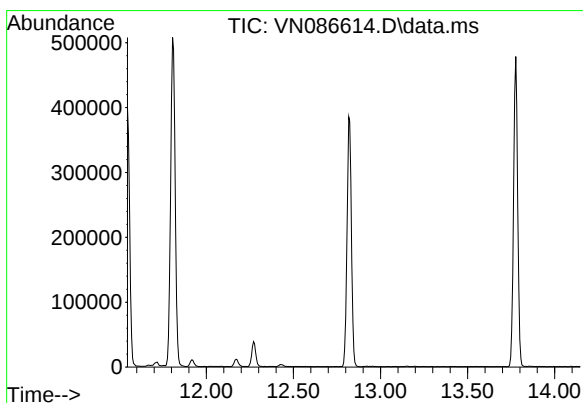
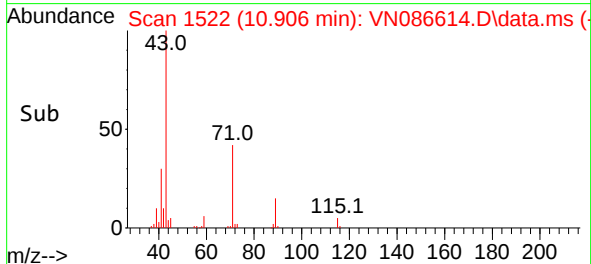
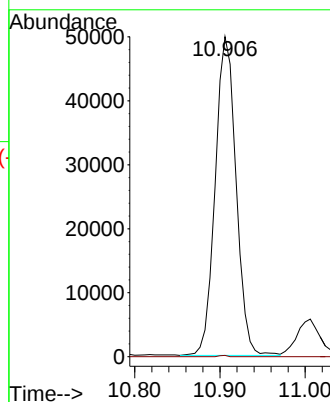
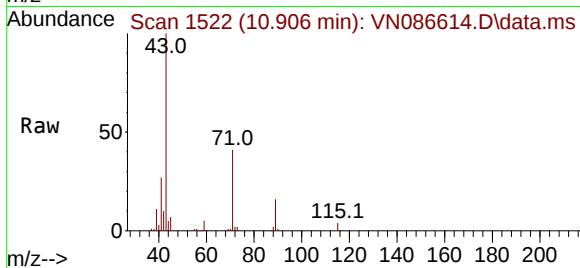
PB167964ZHE#12

Tgt Ion: 43 Resp: 84754

Ion Ratio Lower Upper

43 100

58 0.0 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 12.85 min

Lab File: VN086614.D

Acq: 13 May 2025 20:15

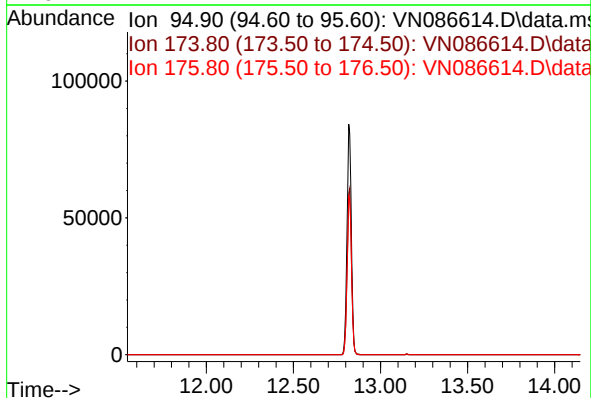
Tgt Ion: 95

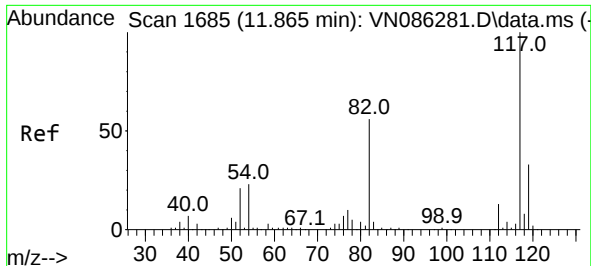
Sig Exp Ratio

95 100

174 66.7

176 64.6

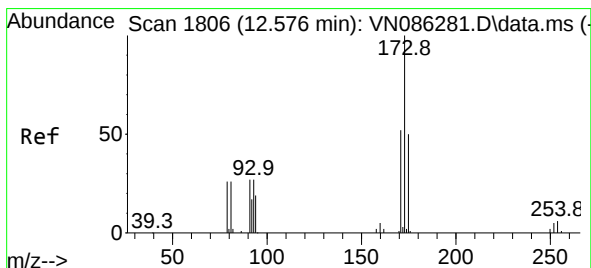
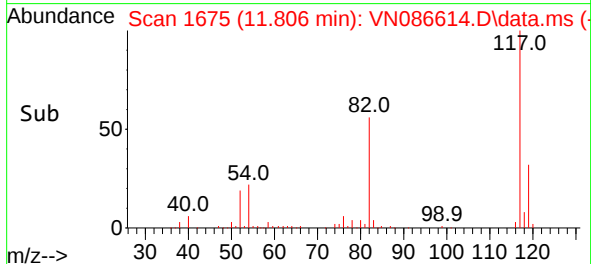
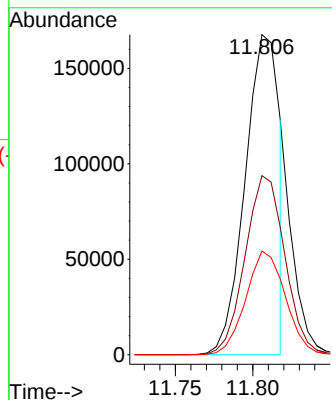
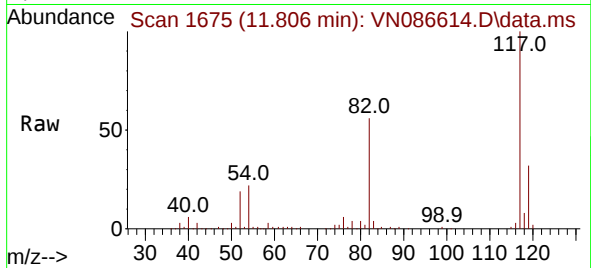




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.806 min Scan# 11
Delta R.T. -0.059 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

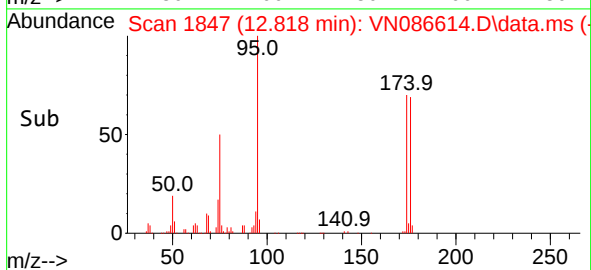
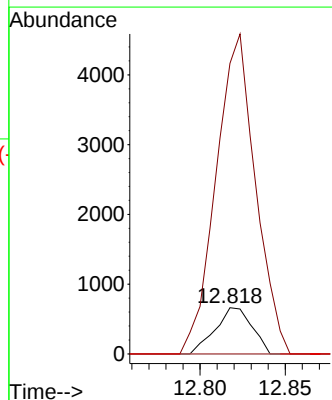
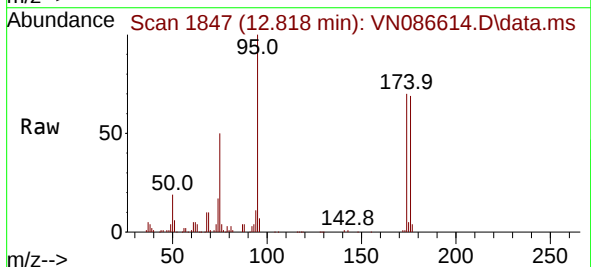
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

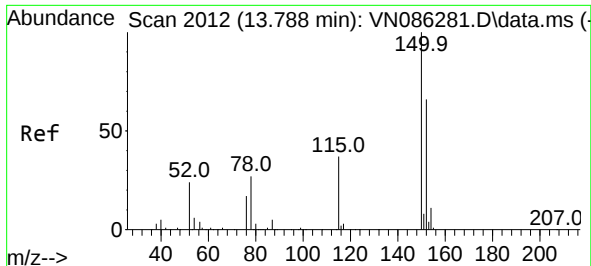
Tgt Ion:117 Resp: 259471
Ion Ratio Lower Upper
117 100
82 56.0 44.7 67.1
119 32.4 26.4 39.6



#71
Bromoform
Concen: 0.690 ug/l
RT: 12.818 min Scan# 1847
Delta R.T. 0.241 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion:173 Resp: 992
Ion Ratio Lower Upper
173 100
175 746.3 24.6 73.6#
254 0.0 0.0 0.0

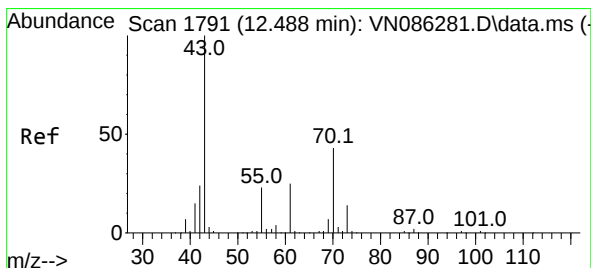
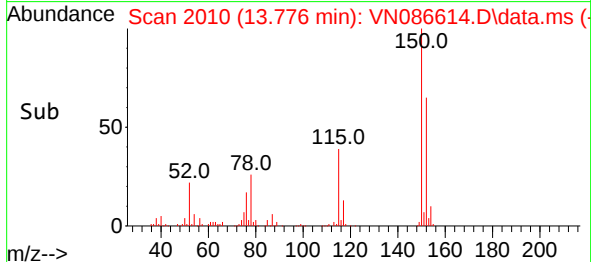
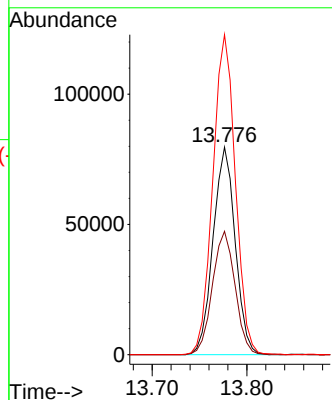
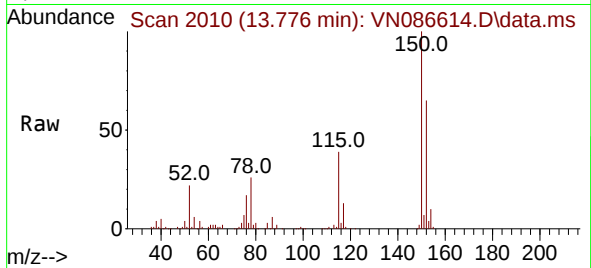




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.776 min Scan# 2012
 Delta R.T. -0.012 min
 Lab File: VN086614.D
 Acq: 13 May 2025 20:15

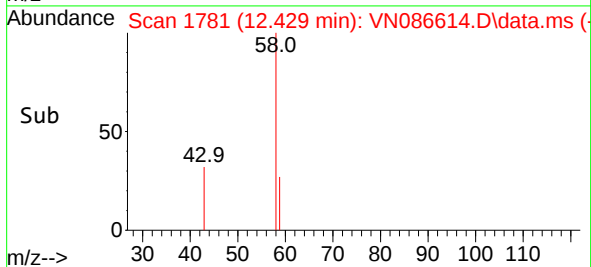
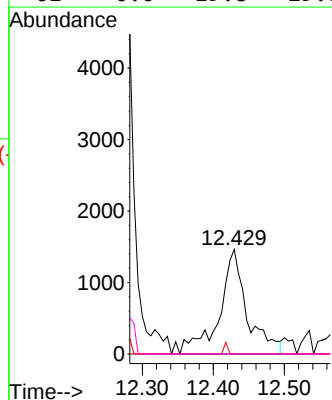
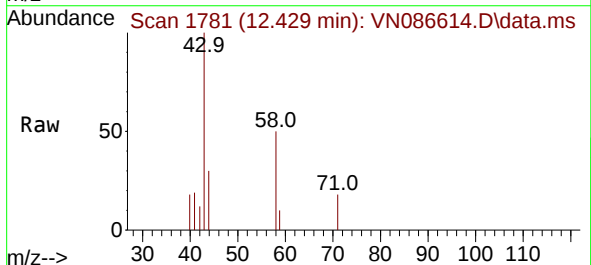
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#12

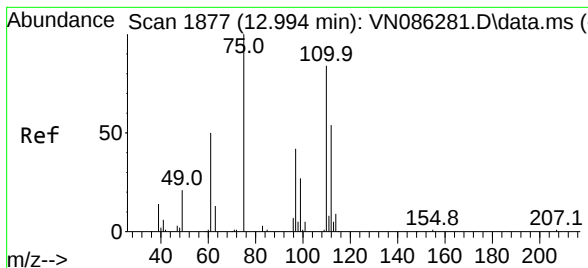
Tgt Ion:152 Resp: 129472
 Ion Ratio Lower Upper
 152 100
 115 60.6 31.9 95.9
 150 156.8 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.751 ug/l
 RT: 12.429 min Scan# 1781
 Delta R.T. -0.059 min
 Lab File: VN086614.D
 Acq: 13 May 2025 20:15

Tgt Ion: 43 Resp: 3961
 Ion Ratio Lower Upper
 43 100
 70 0.0 35.0 52.4#
 55 1.4 19.0 28.4#
 61 0.0 19.8 29.8#

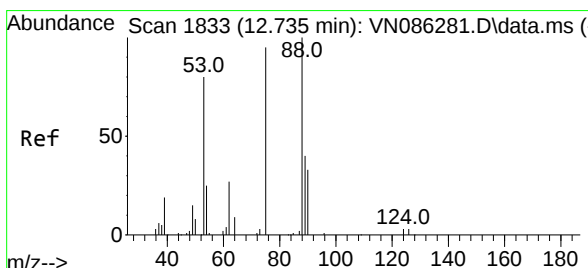
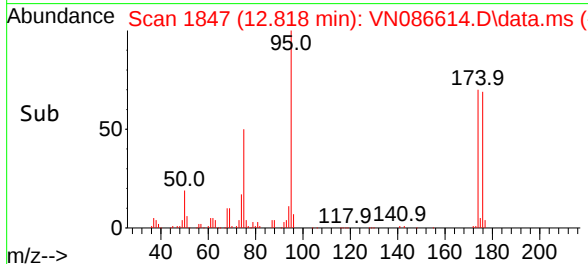
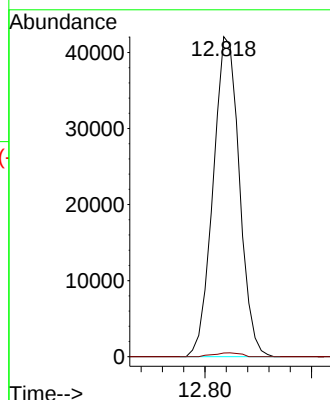
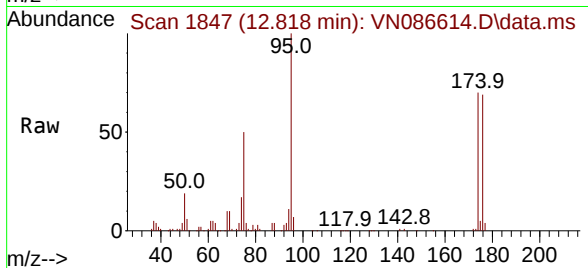




#76
1,2,3-Trichloropropane
Concen: 23.556 ug/l
RT: 12.818 min Scan# 1847
Delta R.T. -0.176 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#12

Tgt Ion: 75 Resp: 71973
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.574 ug/l
RT: 12.818 min Scan# 1847
Delta R.T. 0.082 min
Lab File: VN086614.D
Acq: 13 May 2025 20:15

Tgt Ion: 75 Resp: 71973
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

