

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120925\
 Data File : VN088481.D
 Acq On : 09 Dec 2025 16:02
 Operator : JC\MD
 Sample : Q3795-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-200059

Quant Time: Dec 10 05:09:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

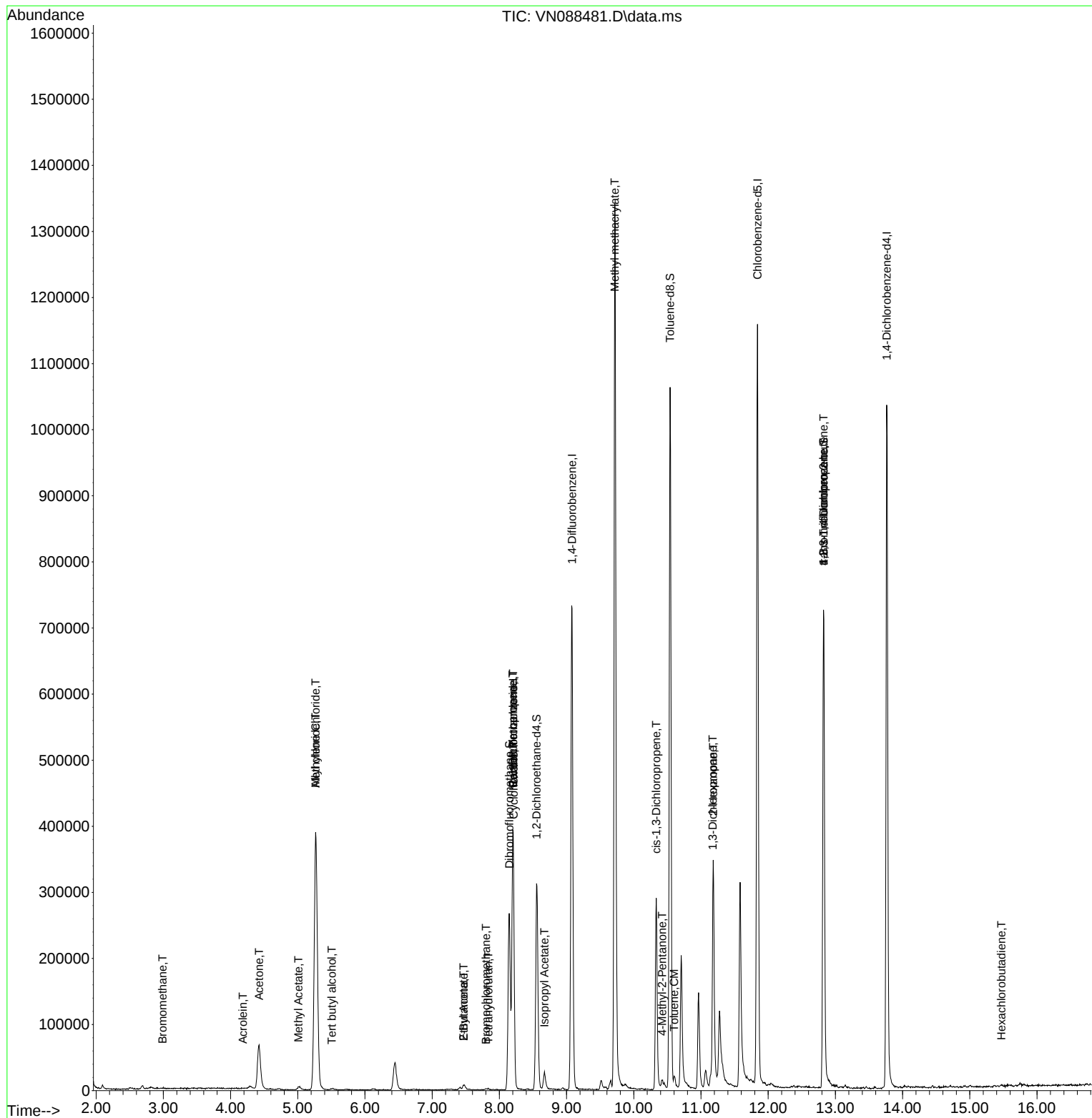
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	255958	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	593335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	594444	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	267346	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	270280	56.055	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.100%
35) Dibromofluoromethane	8.147	113	189479	46.082	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.160%
50) Toluene-d8	10.541	98	705874	46.138	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.280%
62) 4-Bromofluorobenzene	12.823	95	272982	52.003	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.000%
Target Compounds						
						Qvalue
5) Bromomethane	2.989	94	551	0.273	ug/l	83
11) Tert butyl alcohol	5.506	59	2187	2.841	ug/l #	72
13) Acrolein	4.183	56	387	0.525	ug/l	84
14) Allyl chloride	5.265	41	9752	1.685	ug/l #	18
16) Acetone	4.424	43	144755	83.012	ug/l	97
18) Methyl Acetate	5.012	43	9983	1.923	ug/l #	81
20) Methylene Chloride	5.265	84	295222	79.130	ug/l	98
25) 2-Butanone	7.471	43	12565	4.482	ug/l #	87
28) Bromochloromethane	7.800	49	1355	0.389	ug/l #	76
29) Tetrahydrofuran	7.835	42	796	0.396	ug/l #	68
31) Cyclohexane	8.212	56	8866	1.398	ug/l #	37
36) 1,1-Dichloropropene	8.200	75	26521	4.179	ug/l #	50
37) Ethyl Acetate	7.471	43	12678	1.519	ug/l #	72
38) Carbon Tetrachloride	8.206	117	30900	4.891	ug/l #	15
43) Isopropyl Acetate	8.671	43	31825	2.496	ug/l #	91
48) Methyl methacrylate	9.718	41	137895	23.706	ug/l #	48
51) 4-Methyl-2-Pentanone	10.424	43	10369	1.380	ug/l	99
52) Toluene	10.600	92	7421	0.690	ug/l	91
54) cis-1,3-Dichloropropene	10.335	75	50280	6.704	ug/l #	63
57) 1,3-Dichloropropane	11.176	76	4182	0.557	ug/l #	42
59) 2-Hexanone	11.182	43	76145	16.086	ug/l #	50
76) 1,2,3-Trichloropropane	12.823	75	161842	25.846	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	161842	73.324	ug/l #	1
94) Hexachlorobutadiene	15.470	225	680	0.384	ug/l #	56

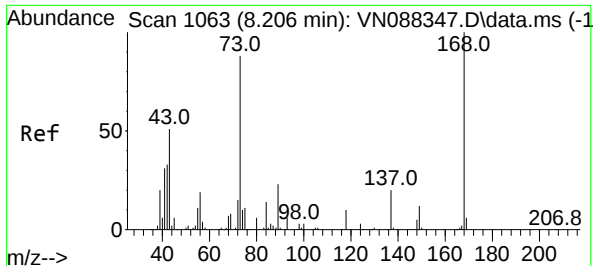
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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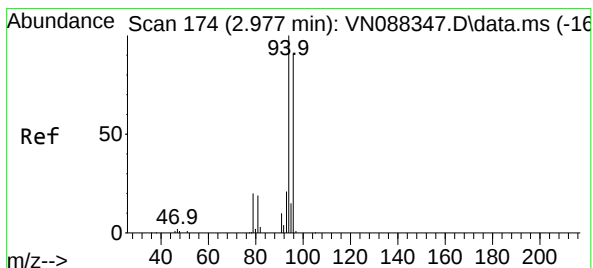
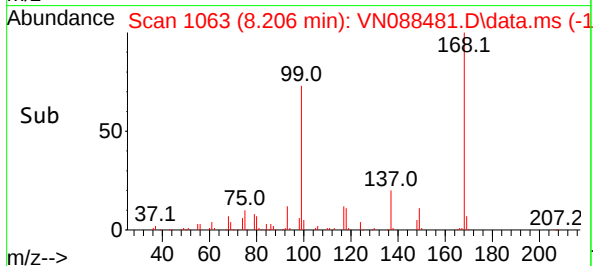
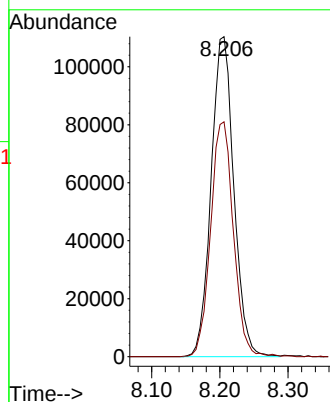
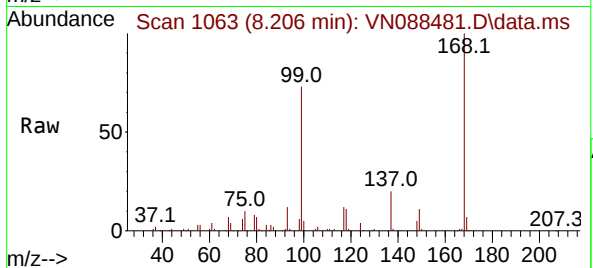




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

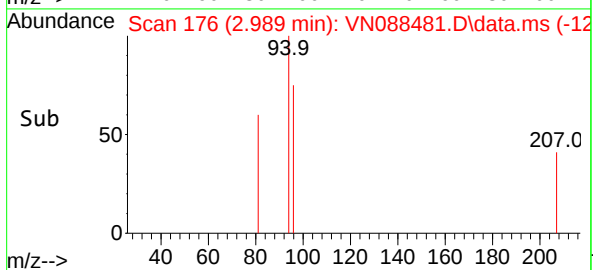
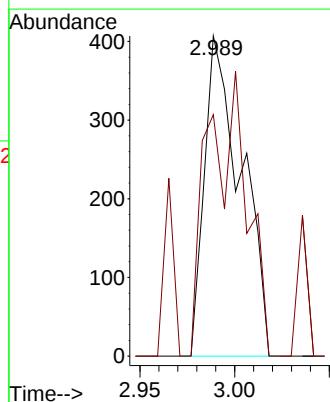
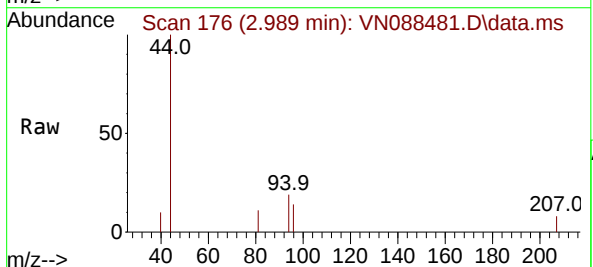
Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

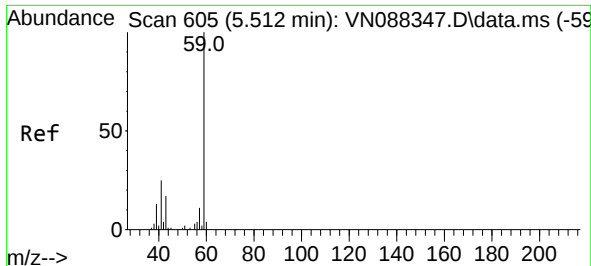
Tgt Ion:168 Resp: 255958
Ion Ratio Lower Upper
168 100
99 73.4 57.1 85.7



#5
Bromomethane
Concen: 0.273 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.012 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

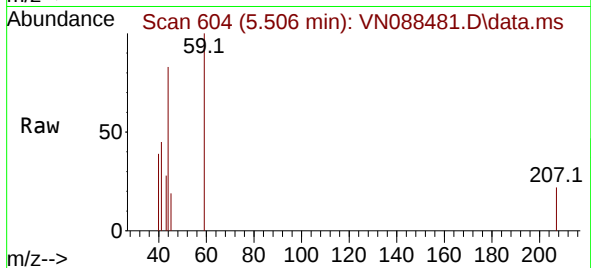
Tgt Ion: 94 Resp: 551
Ion Ratio Lower Upper
94 100
96 75.4 73.2 109.8



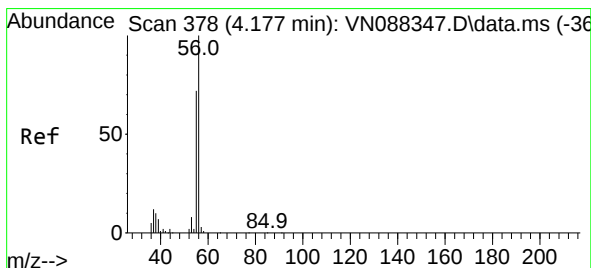
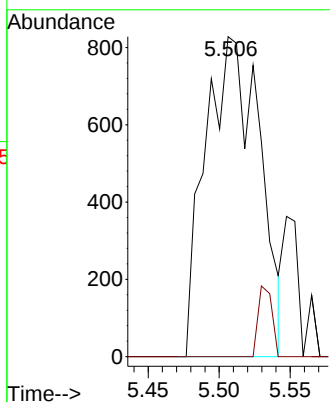
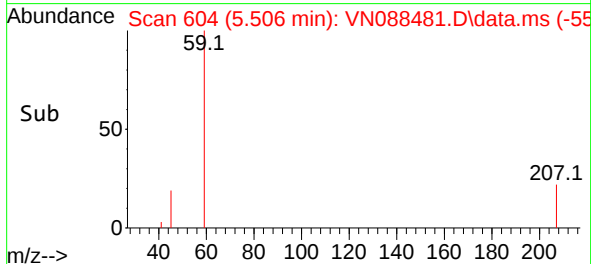


#11
Tert butyl alcohol
Concen: 2.841 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

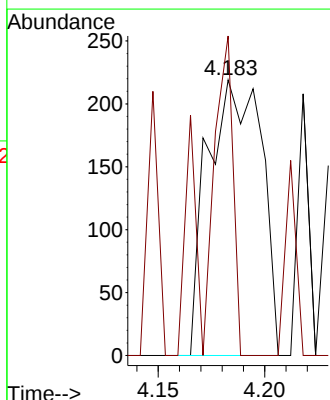
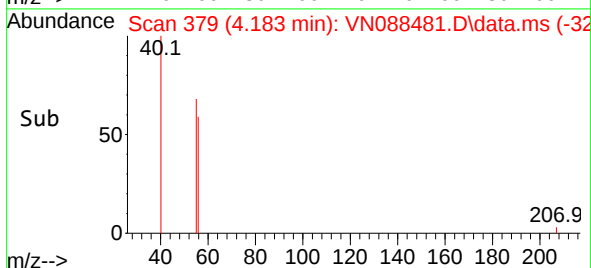
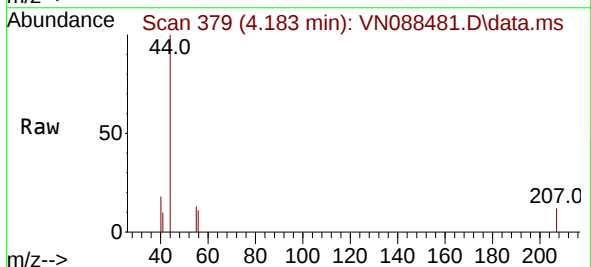


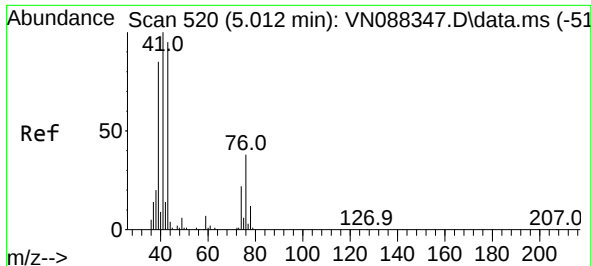
Tgt Ion: 59 Resp: 2187
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 0.525 ug/l
RT: 4.183 min Scan# 379
Delta R.T. 0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 56 Resp: 387
Ion Ratio Lower Upper
56 100
55 56.8 56.3 84.5

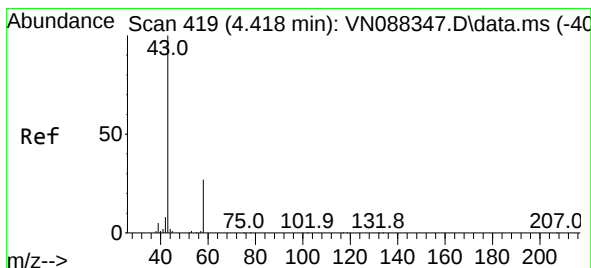
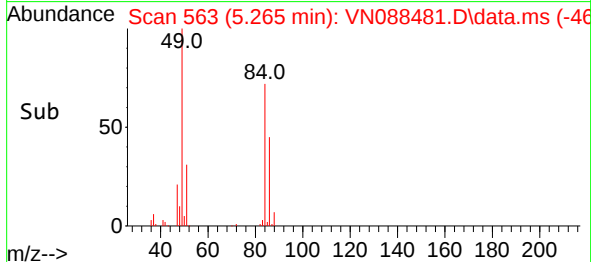
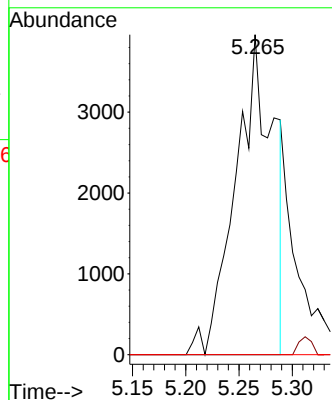
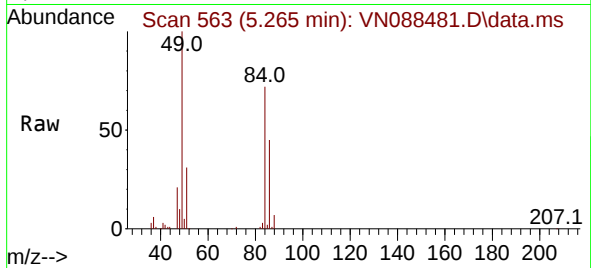




#14
 Allyl chloride
 Concen: 1.685 ug/l
 RT: 5.265 min Scan# 50
 Delta R.T. 0.253 min
 Lab File: VN088481.D
 Acq: 09 Dec 2025 16:02

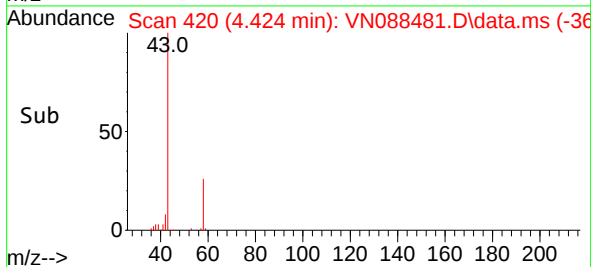
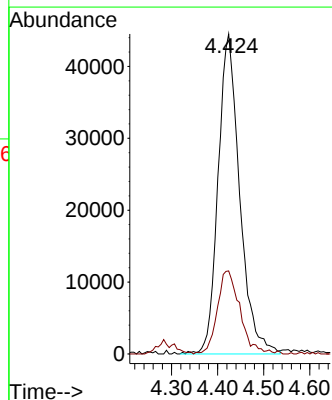
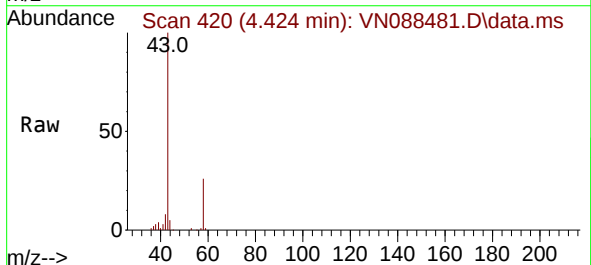
Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-200059

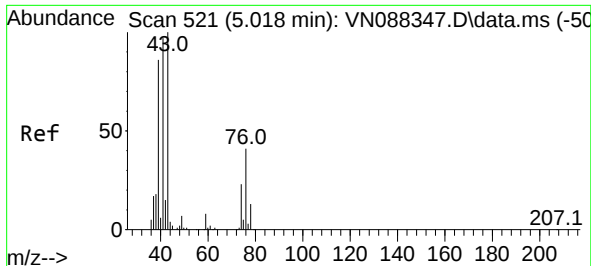
Tgt Ion: 41 Resp: 9752
 Ion Ratio Lower Upper
 41 100
 39 0.0 64.7 97.1#
 76 0.0 29.1 43.7#



#16
 Acetone
 Concen: 83.012 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.006 min
 Lab File: VN088481.D
 Acq: 09 Dec 2025 16:02

Tgt Ion: 43 Resp: 144755
 Ion Ratio Lower Upper
 43 100
 58 25.3 21.7 32.5

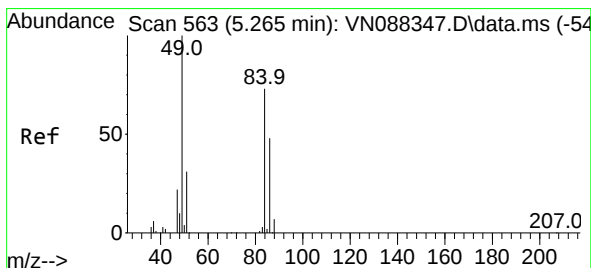
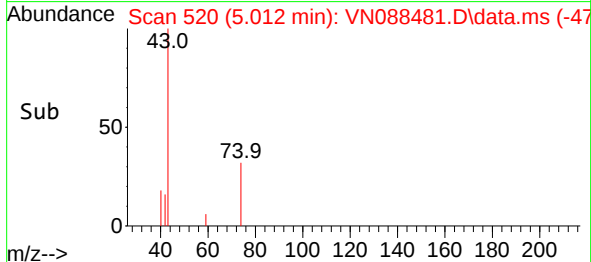
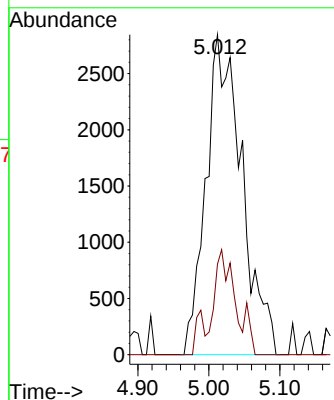
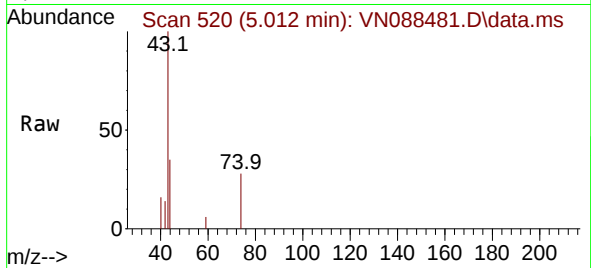




#18
Methyl Acetate
Concen: 1.923 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

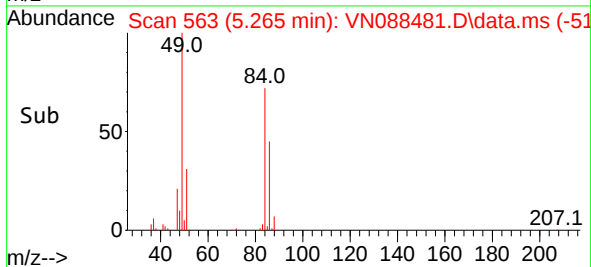
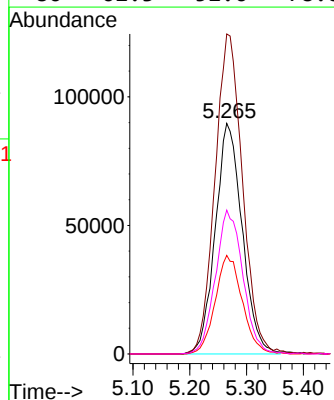
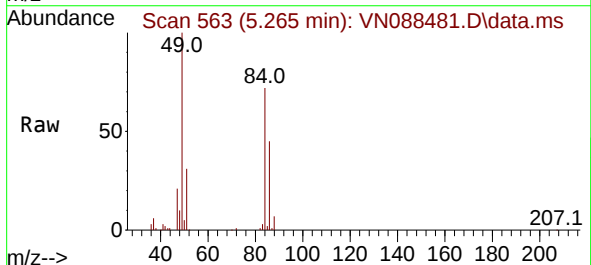
Instrument :
MSVOA_N
ClientSampleId :
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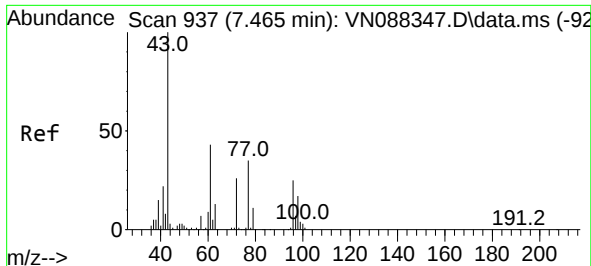
Tgt Ion: 43 Resp: 9983
Ion Ratio Lower Upper
43 100
74 13.5 17.9 26.9#



#20
Methylene Chloride
Concen: 79.130 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 84 Resp: 295222
Ion Ratio Lower Upper
84 100
49 138.8 110.2 165.2
51 42.7 34.1 51.1
86 62.3 52.6 78.8

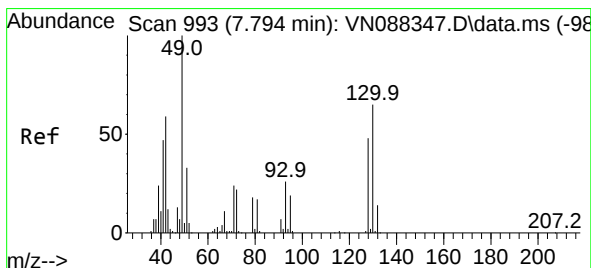
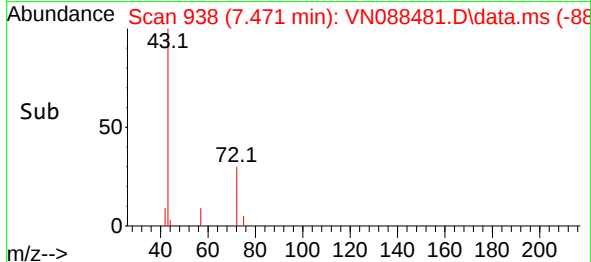
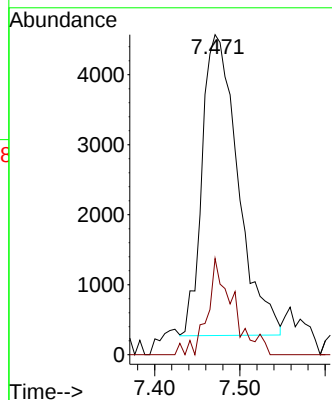
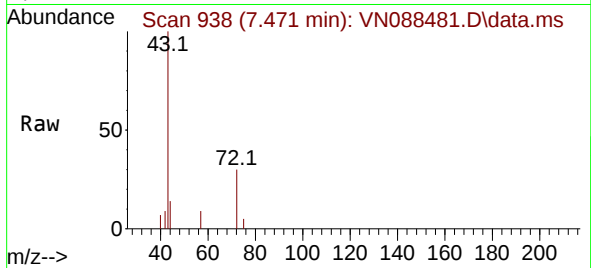




#25
2-Butanone
Concen: 4.482 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

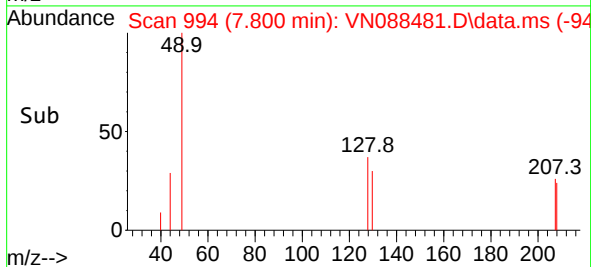
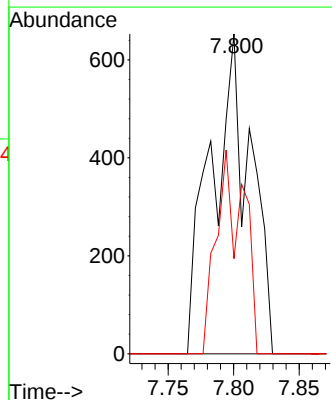
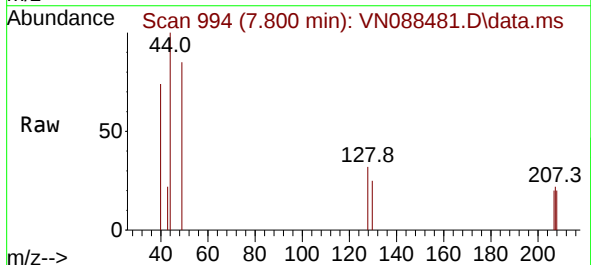
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ClientSampleId :
RBR-200059

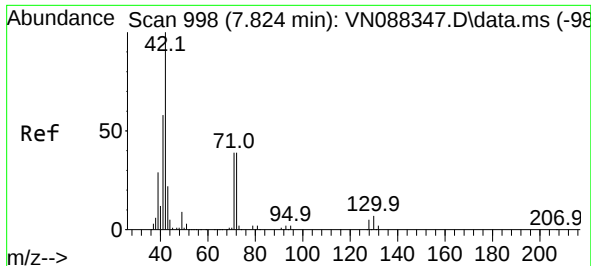
Tgt Ion: 43 Resp: 12565
Ion Ratio Lower Upper
43 100
72 32.0 20.5 30.7#



#28
Bromochloromethane
Concen: 0.389 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 49 Resp: 1355
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 44.5 51.1 76.7#

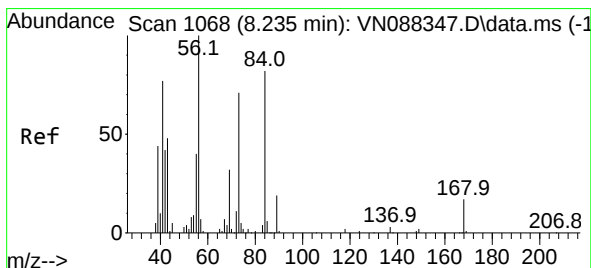
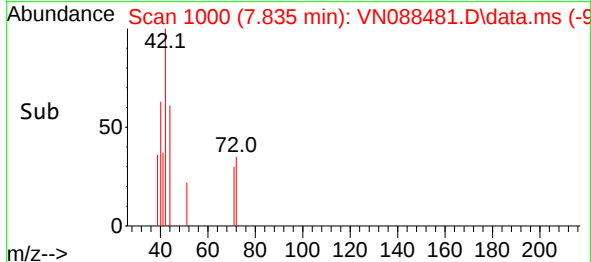
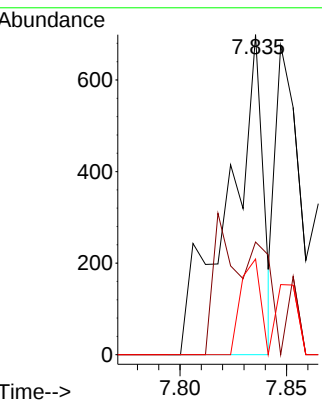
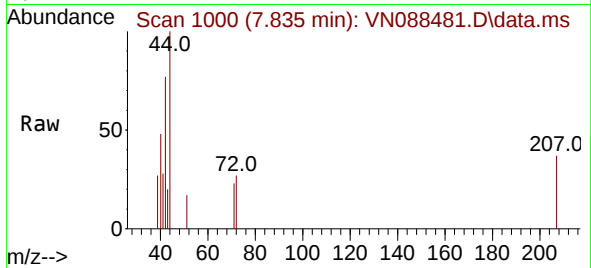




#29
Tetrahydrofuran
Concen: 0.396 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

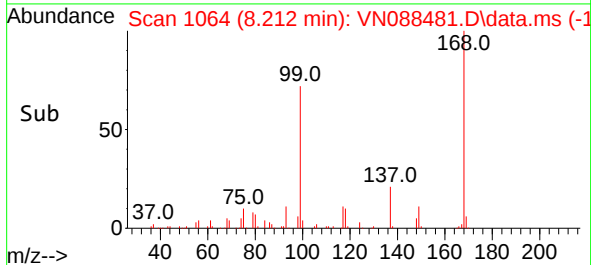
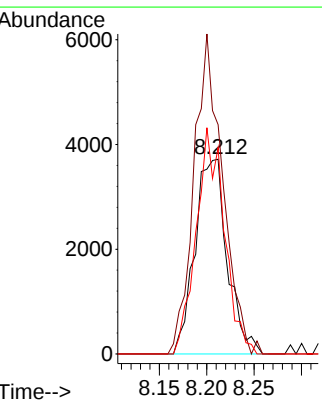
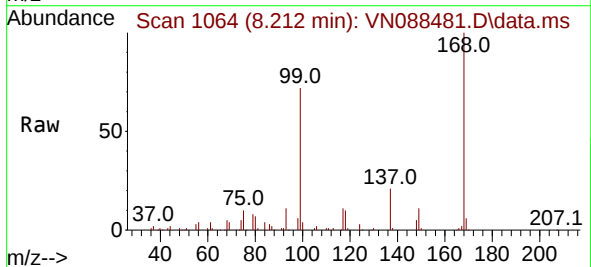
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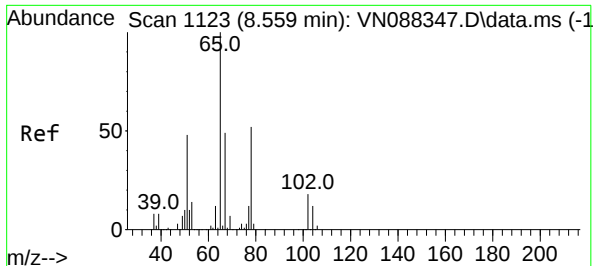
Tgt Ion: 42 Resp: 796
Ion Ratio Lower Upper
42 100
72 57.8 32.2 48.4#
71 16.8 31.1 46.7#



#31
Cyclohexane
Concen: 1.398 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.023 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 56 Resp: 8866
Ion Ratio Lower Upper
56 100
69 117.7 25.3 37.9#
84 106.0 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 56.055 ug/l

RT: 8.553 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

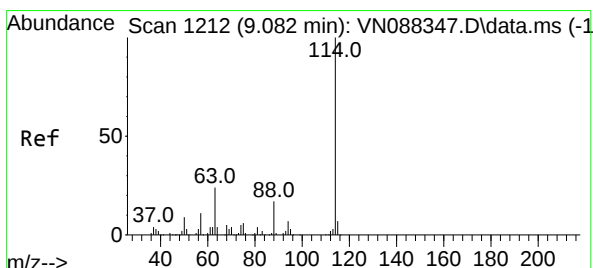
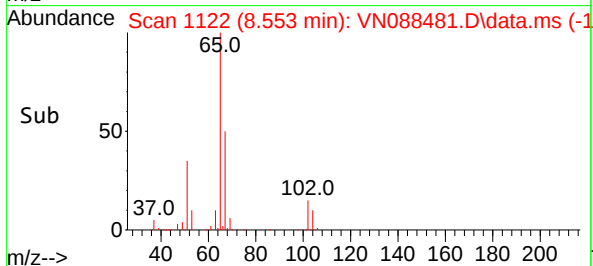
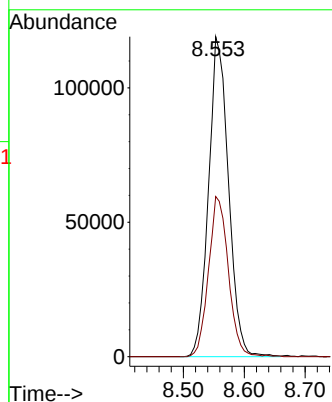
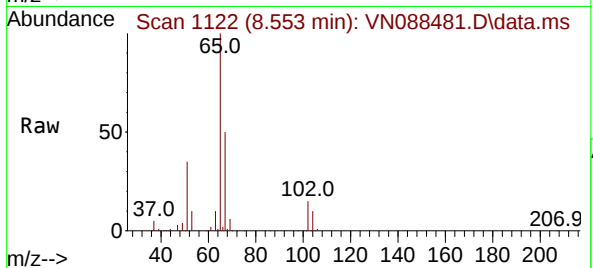
RBR-200059

Tgt Ion: 65 Resp: 270280

Ion Ratio Lower Upper

65 100

67 50.0 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

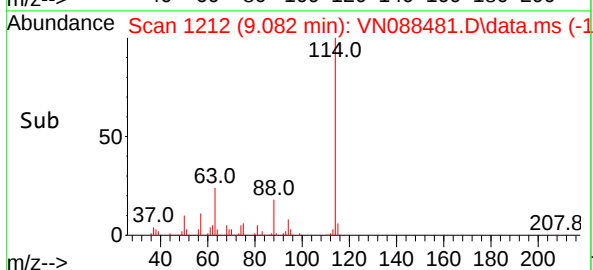
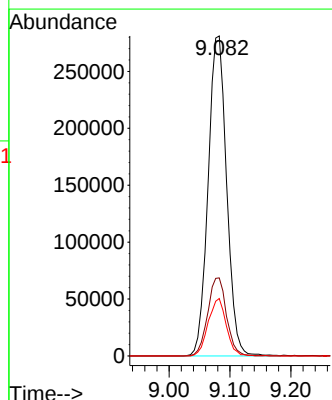
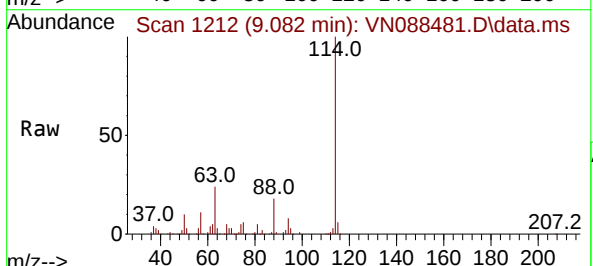
Tgt Ion: 114 Resp: 593335

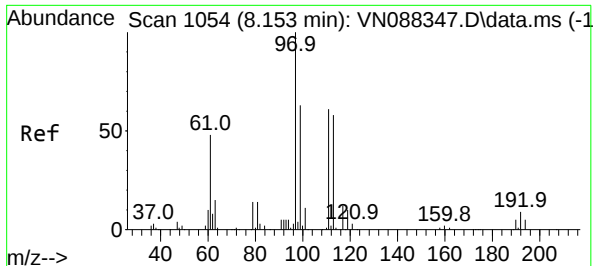
Ion Ratio Lower Upper

114 100

63 24.4 0.0 49.0

88 18.0 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.082 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088481.D

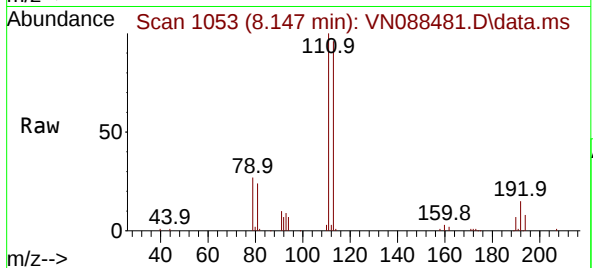
Acq: 09 Dec 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

RBR-200059



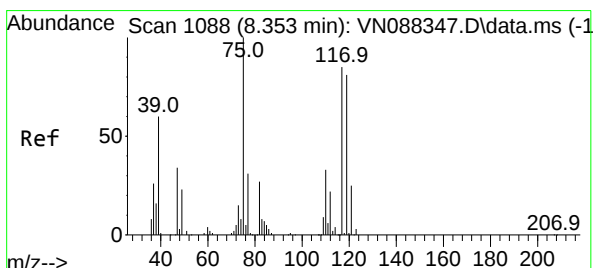
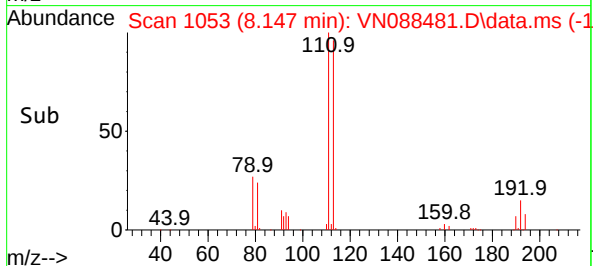
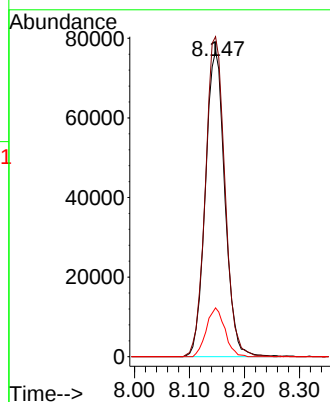
Tgt Ion:113 Resp: 189479

Ion Ratio Lower Upper

113 100

111 104.7 82.5 123.7

192 15.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.179 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

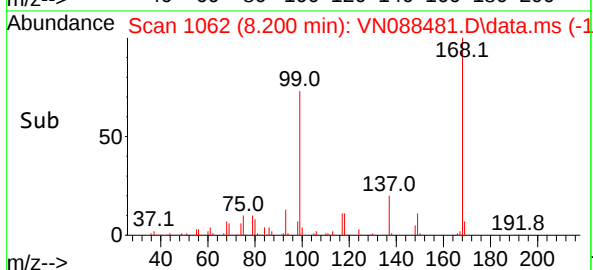
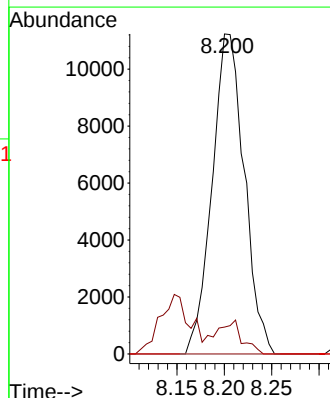
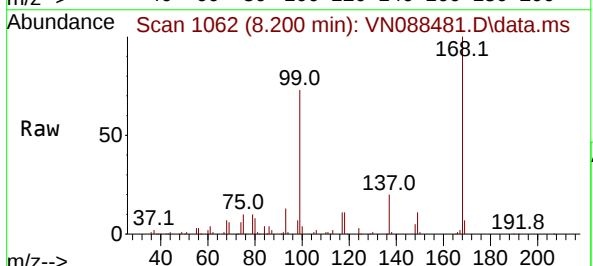
Tgt Ion: 75 Resp: 26521

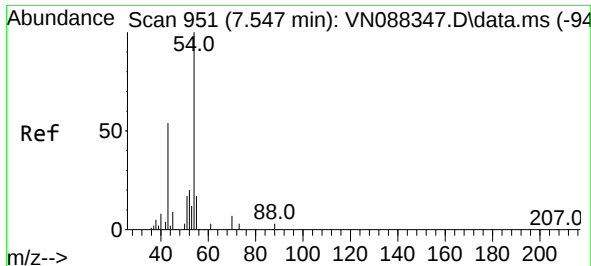
Ion Ratio Lower Upper

75 100

110 7.1 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 1.519 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.076 min

Lab File: VN088481.D

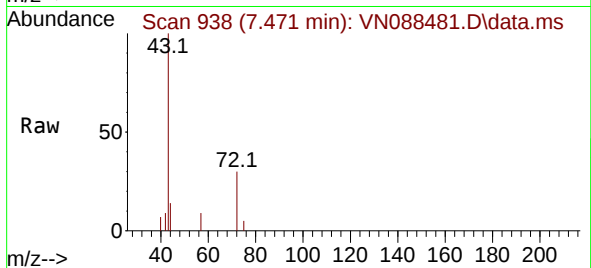
Acq: 09 Dec 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

RBR-200059



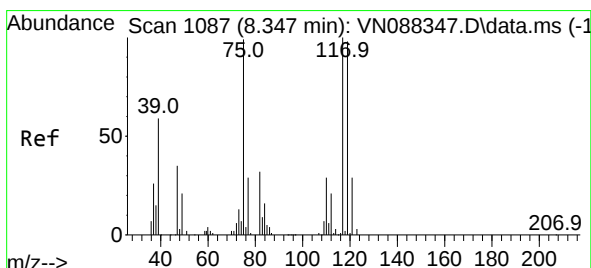
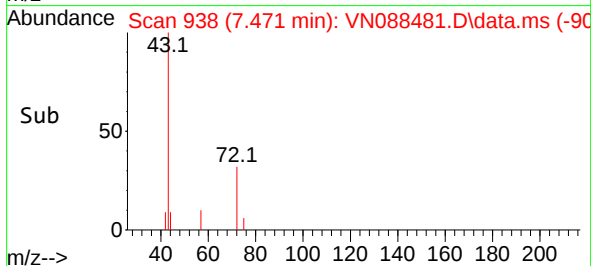
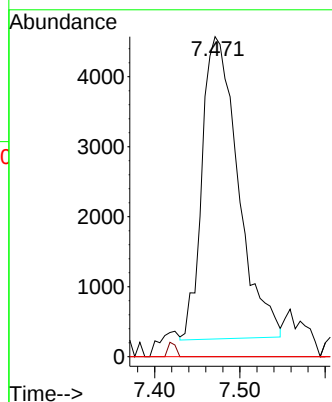
Tgt Ion: 43 Resp: 12678

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.891 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

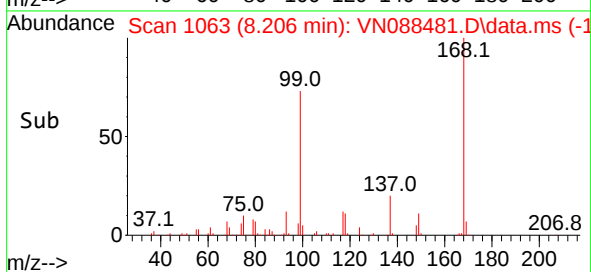
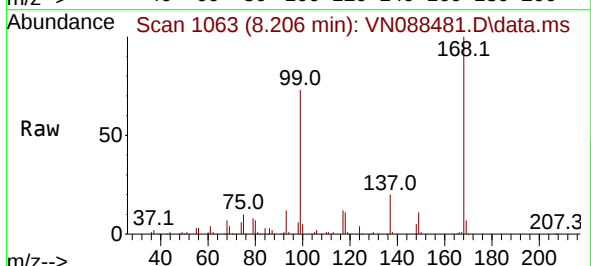
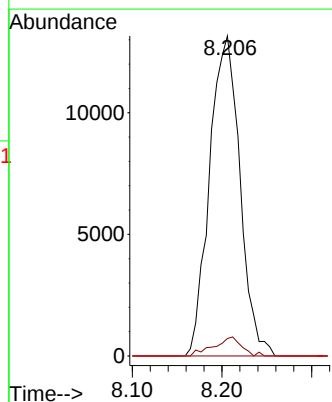
Tgt Ion: 117 Resp: 30900

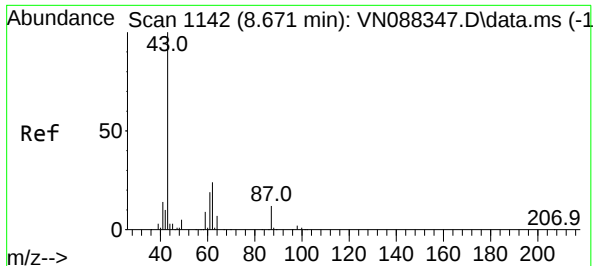
Ion Ratio Lower Upper

117 100

119 5.4 78.2 117.4#

121 0.0 23.4 35.2#

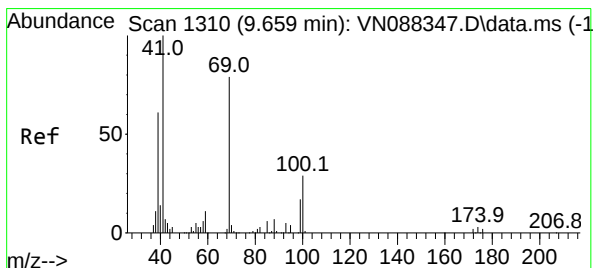
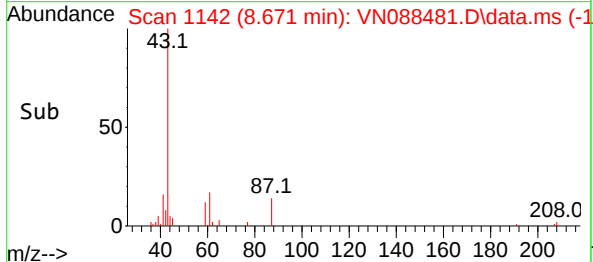
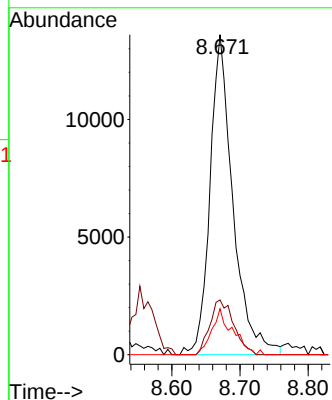
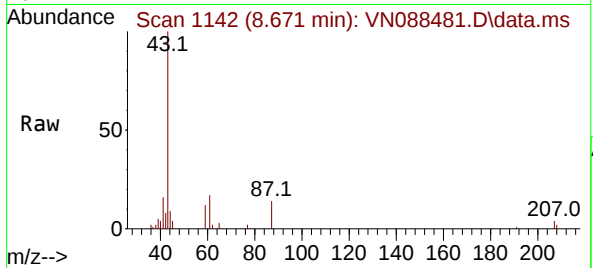




#43
Isopropyl Acetate
Concen: 2.496 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

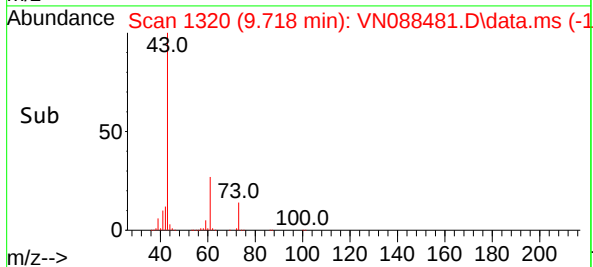
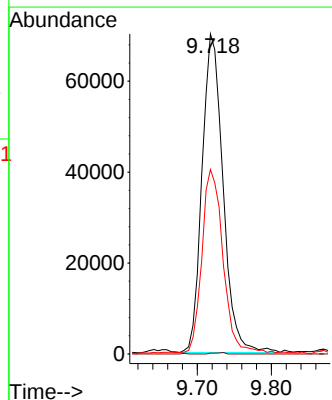
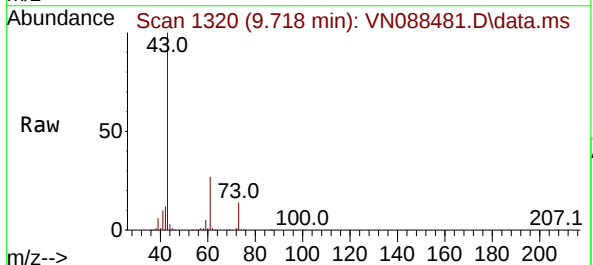
Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

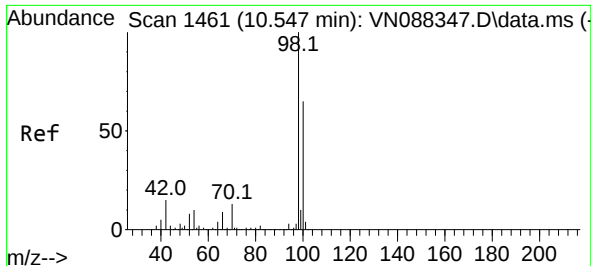
Tgt Ion: 43 Resp: 31825
Ion Ratio Lower Upper
43 100
61 17.8 18.7 28.1#
87 13.2 9.1 13.7



#48
Methyl methacrylate
Concen: 23.706 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.059 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 41 Resp: 137895
Ion Ratio Lower Upper
41 100
69 0.2 62.4 93.6#
39 59.4 52.6 79.0

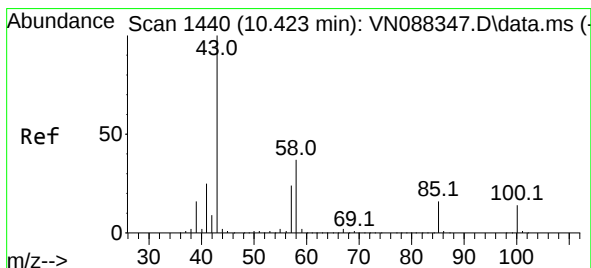
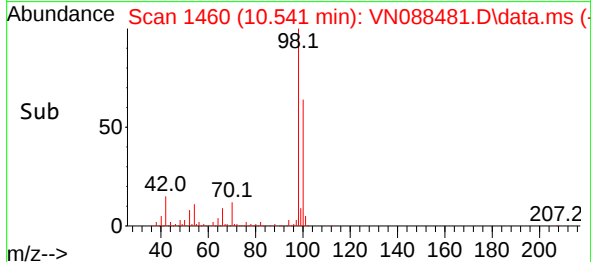
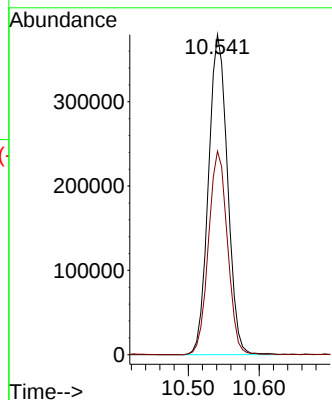
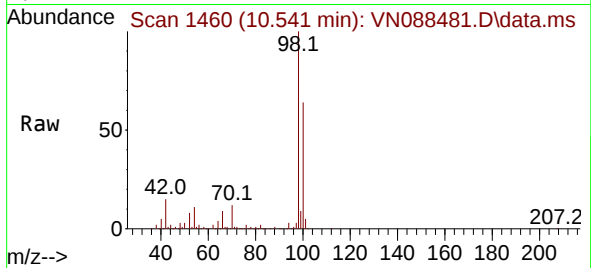




#50
Toluene-d8
Concen: 46.138 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

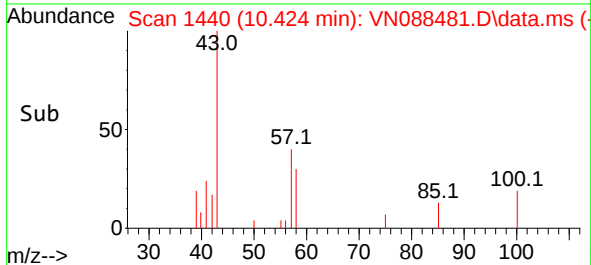
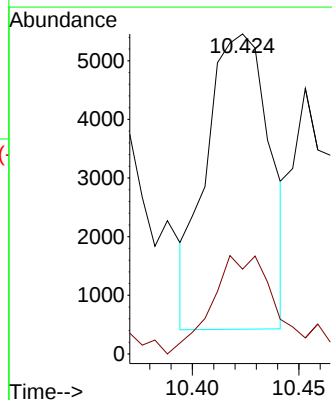
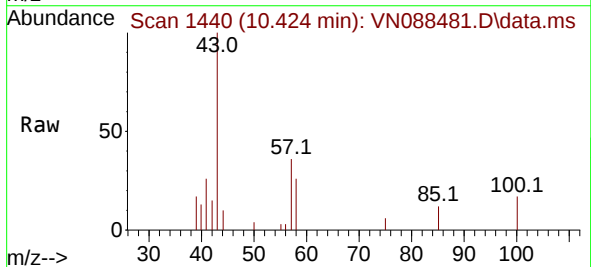
Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

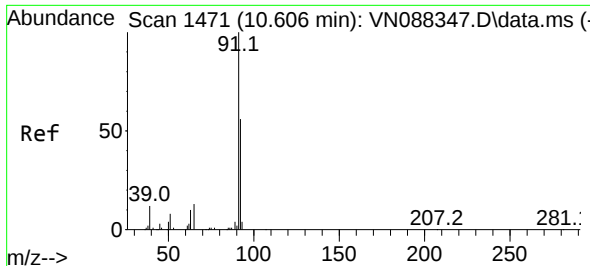
Tgt Ion: 98 Resp: 705874
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.380 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 43 Resp: 10369
Ion Ratio Lower Upper
43 100
58 35.7 29.1 43.7

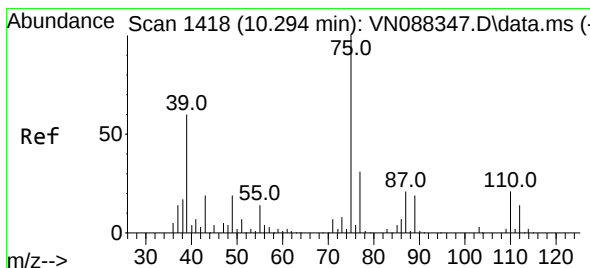
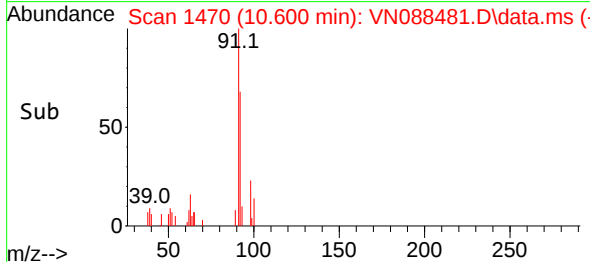
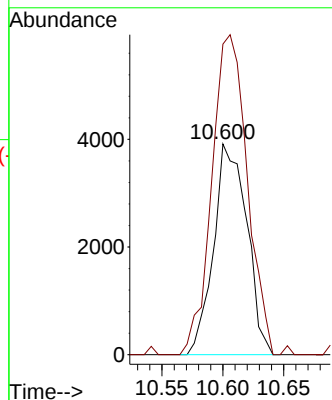
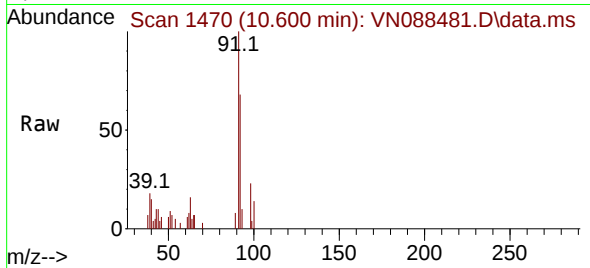




#52
Toluene
Concen: 0.690 ug/l
RT: 10.600 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

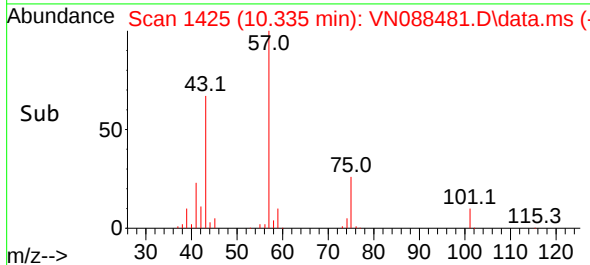
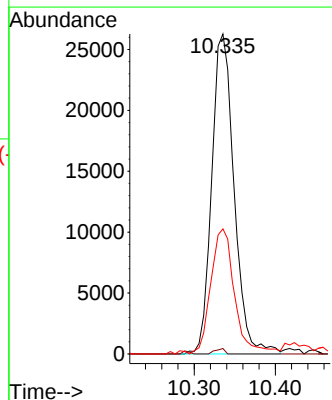
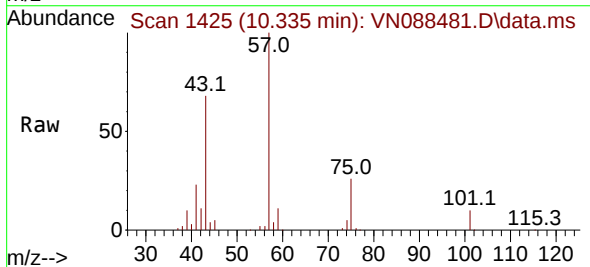
Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

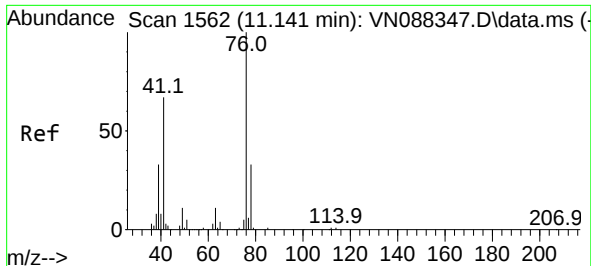
Tgt Ion: 92 Resp: 7421
Ion Ratio Lower Upper
92 100
91 162.5 140.2 210.2



#54
cis-1,3-Dichloropropene
Concen: 6.704 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.041 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 75 Resp: 50280
Ion Ratio Lower Upper
75 100
77 1.7 24.5 36.7#
39 38.1 48.3 72.5#





#57

1,3-Dichloropropane

Concen: 0.557 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. 0.035 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

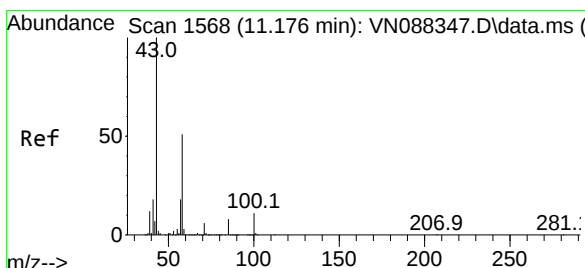
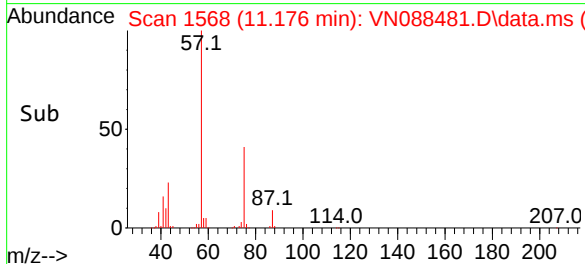
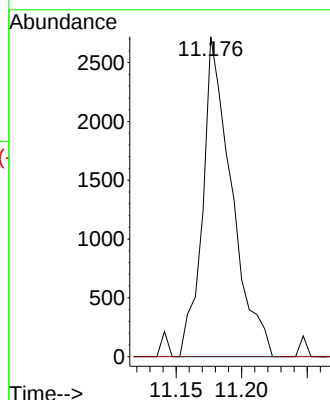
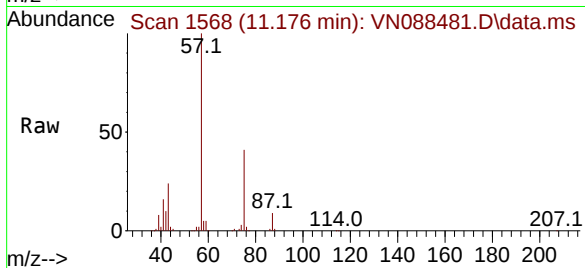
RBR-200059

Tgt Ion: 76 Resp: 4182

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 16.086 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088481.D

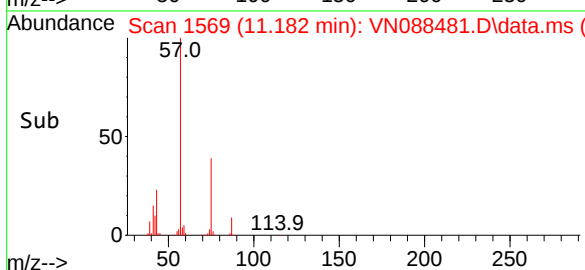
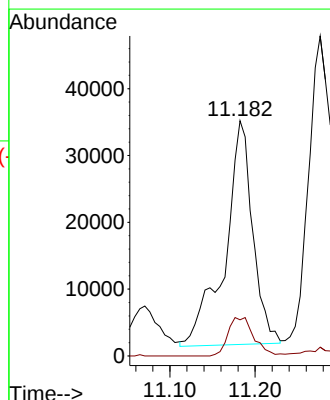
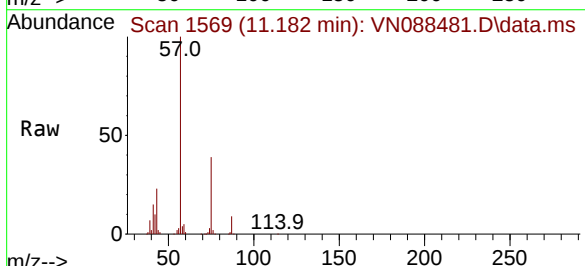
Acq: 09 Dec 2025 16:02

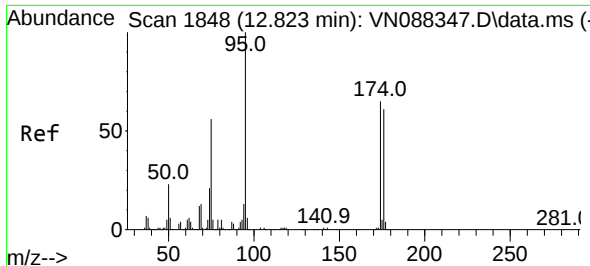
Tgt Ion: 43 Resp: 76145

Ion Ratio Lower Upper

43 100

58 16.1 25.3 75.9#

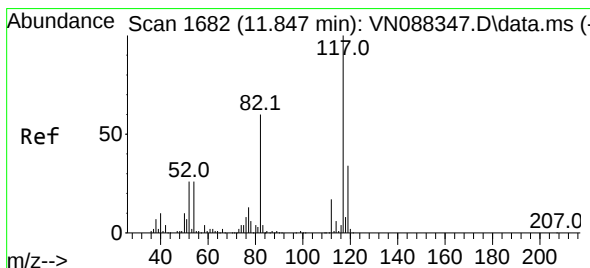
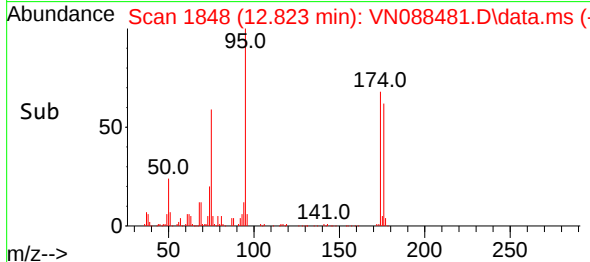
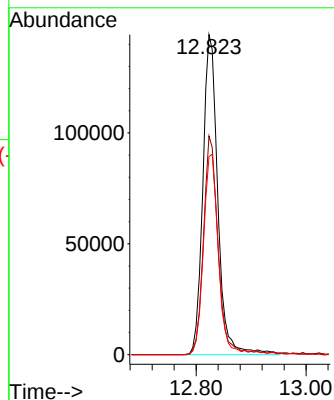
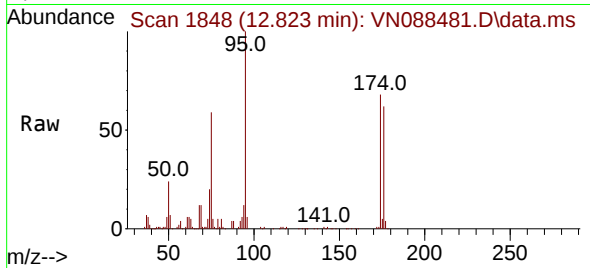




#62
4-Bromofluorobenzene
Concen: 52.003 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

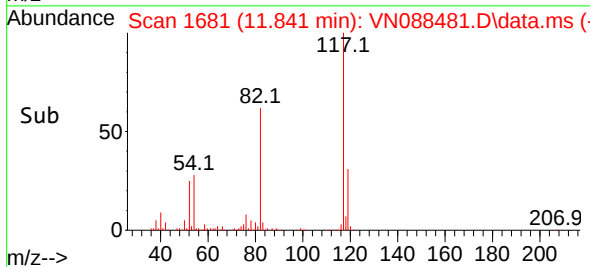
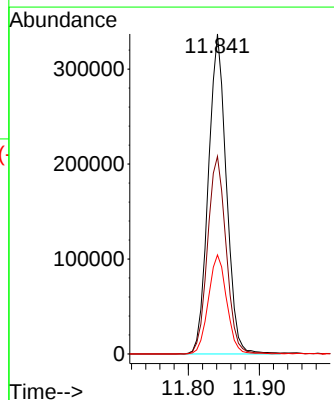
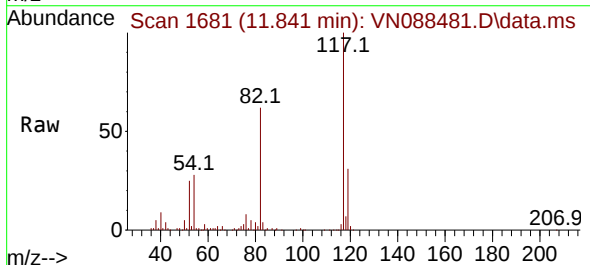
Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

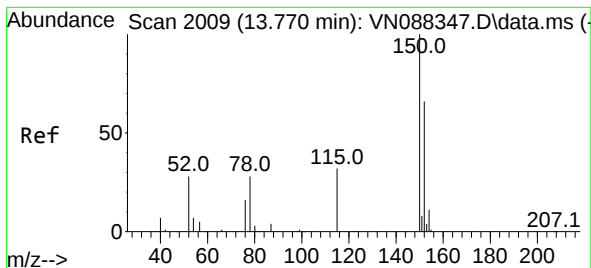
Tgt Ion: 95 Resp: 272982
Ion Ratio Lower Upper
95 100
174 66.6 0.0 139.0
176 63.2 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 117 Resp: 594444
Ion Ratio Lower Upper
117 100
82 61.7 47.8 71.8
119 31.0 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.765 min Scan# 2009

Delta R.T. -0.006 min

Lab File: VN088481.D

Acq: 09 Dec 2025 16:02

Instrument :

MSVOA_N

ClientSampleId :

RBR-200059

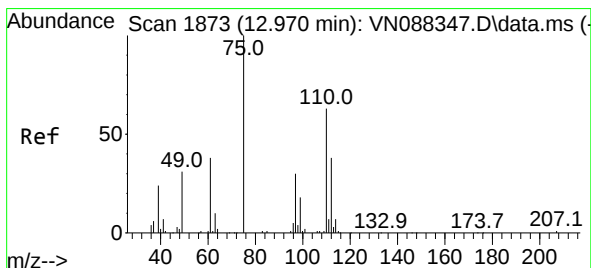
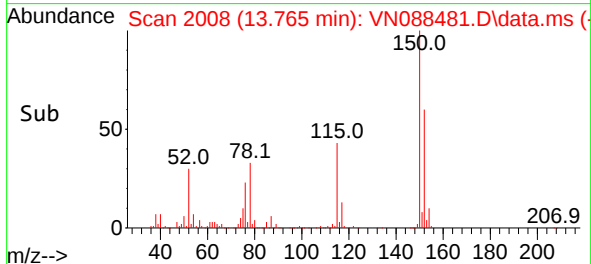
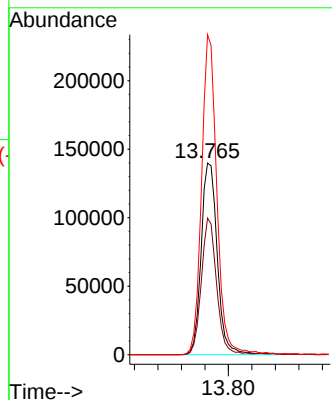
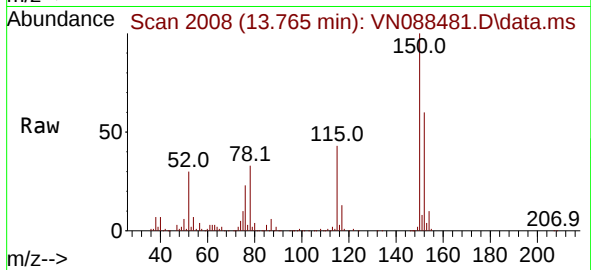
Tgt Ion:152 Resp: 267346

Ion Ratio Lower Upper

152 100

115 67.1 33.0 98.9

150 157.6 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 25.846 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN088481.D

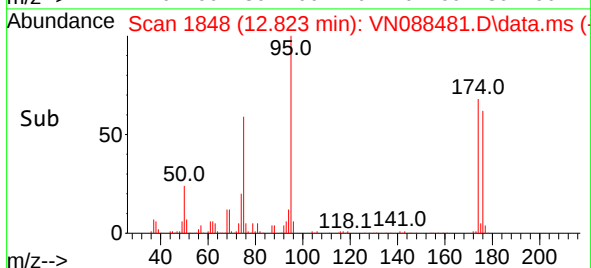
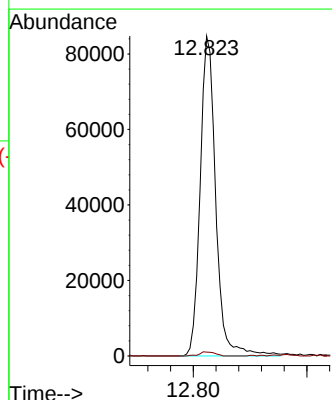
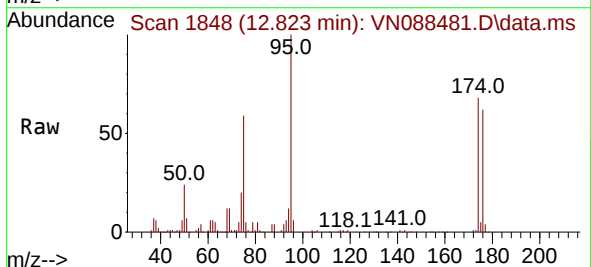
Acq: 09 Dec 2025 16:02

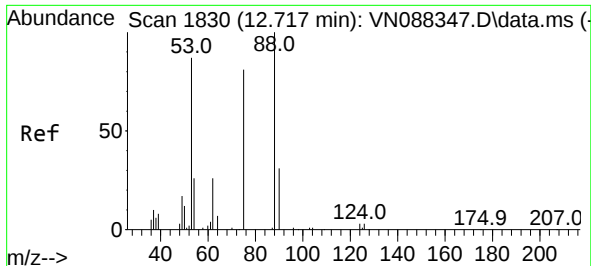
Tgt Ion: 75 Resp: 161842

Ion Ratio Lower Upper

75 100

77 1.3 87.2 261.6#

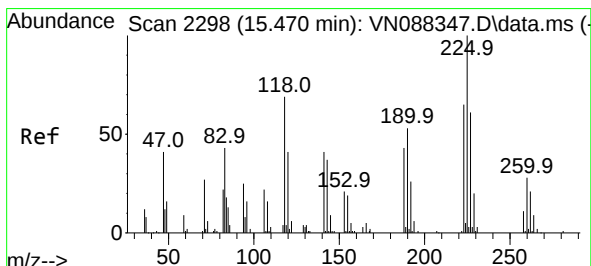
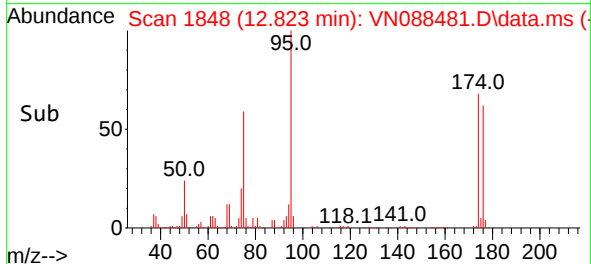
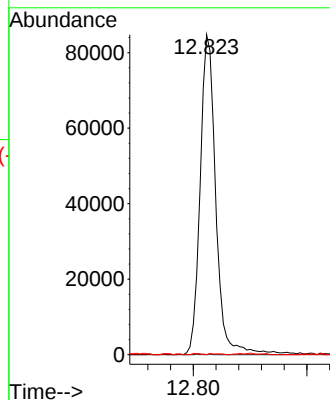
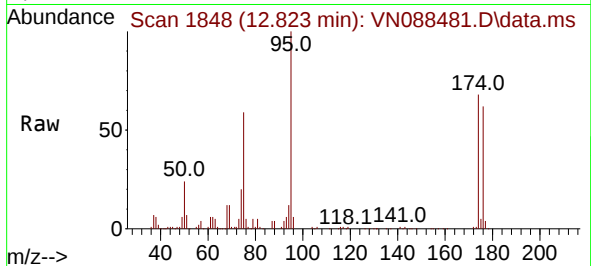




#81
trans-1,4-Dichloro-2-butene
Concen: 73.324 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.106 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Instrument :
MSVOA_N
ClientSampleId :
RBR-200059

Tgt Ion: 75 Resp: 161842
Ion Ratio Lower Upper
75 100
53 0.1 92.2 138.4#
89 0.2 0.0 0.0#



#94
Hexachlorobutadiene
Concen: 0.384 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. 0.000 min
Lab File: VN088481.D
Acq: 09 Dec 2025 16:02

Tgt Ion: 225 Resp: 680
Ion Ratio Lower Upper
225 100
223 9.9 32.3 96.8#
227 47.4 29.9 89.8

