

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088181.D
 Acq On : 31 Oct 2025 12:37
 Operator : JC\MD
 Sample : Q3447-07 20X
 Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW4-251023-01

Quant Time: Nov 01 00:31:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

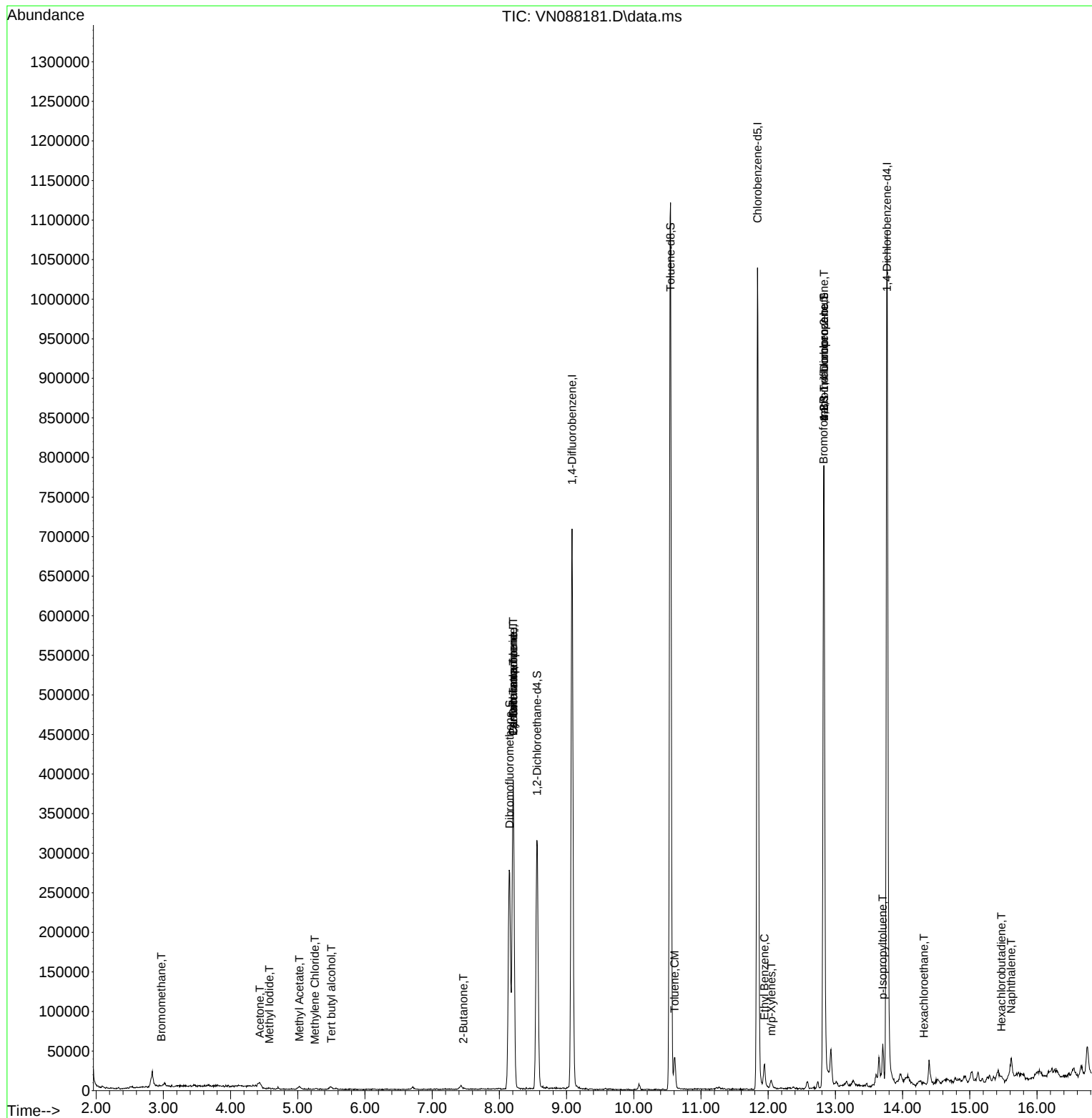
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	258830	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	583560	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	559868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	283129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	269244	60.157	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 120.320%		
35) Dibromofluoromethane	8.153	113	199885	50.986	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.980%		
50) Toluene-d8	10.547	98	758579	50.217	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 100.440%		
62) 4-Bromofluorobenzene	12.829	95	298019	55.863	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 111.720%		
Target Compounds						Qvalue
5) Bromomethane	2.971	94	487	0.218	ug/l #	11
10) Methyl Iodide	4.577	142	338	4.313	ug/l #	38
11) Tert butyl alcohol	5.500	59	1863	2.416	ug/l #	71
16) Acetone	4.436	43	10966	4.877	ug/l #	89
18) Methyl Acetate	5.024	43	4400	0.956	ug/l	92
20) Methylene Chloride	5.253	84	280	0.852	ug/l #	69
25) 2-Butanone	7.465	43	1314	0.443	ug/l #	50
31) Cyclohexane	8.206	56	7508	1.198	ug/l #	12
36) 1,1-Dichloropropene	8.206	75	25556	4.465	ug/l #	51
38) Carbon Tetrachloride	8.206	117	29476	4.986	ug/l #	15
52) Toluene	10.606	92	16941	1.576	ug/l	94
67) Ethyl Benzene	11.947	91	22215	0.996	ug/l	91
68) m/p-Xylenes	12.047	106	2287	0.274	ug/l #	59
71) Bromoform	12.823	173	2196	0.707	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	173184	26.754	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	173184	74.631	ug/l #	1
86) p-Isopropyltoluene	13.706	119	30575	1.601	ug/l	96
90) Hexachloroethane	14.317	117	921	0.249	ug/l #	22
94) Hexachlorobutadiene	15.470	225	476	0.233	ug/l #	59
95) Naphthalene	15.617	128	22890	1.218	ug/l #	95

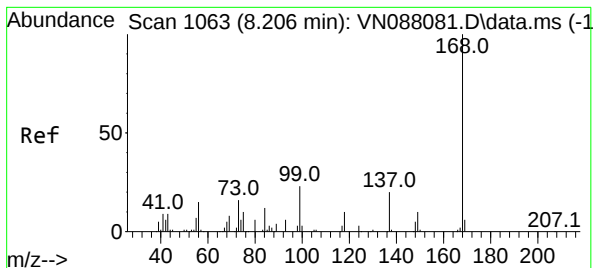
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088181.D
Acq On : 31 Oct 2025 12:37
Operator : JC\MD
Sample : Q3447-07 20X
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Time: Nov 01 00:31:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

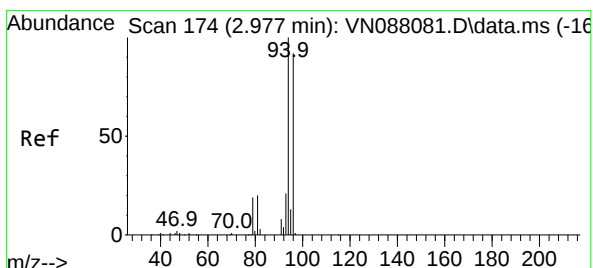
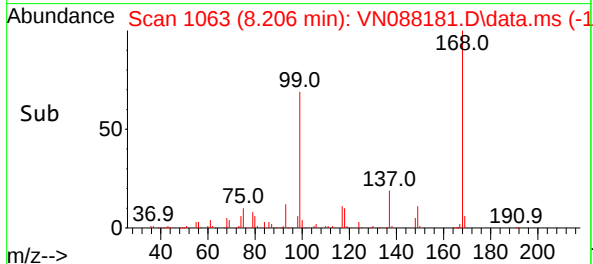
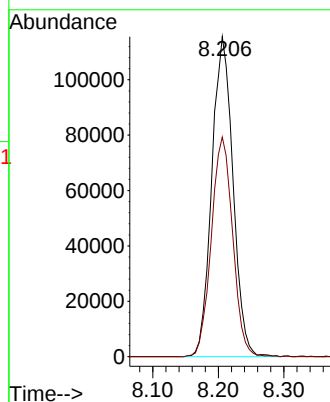
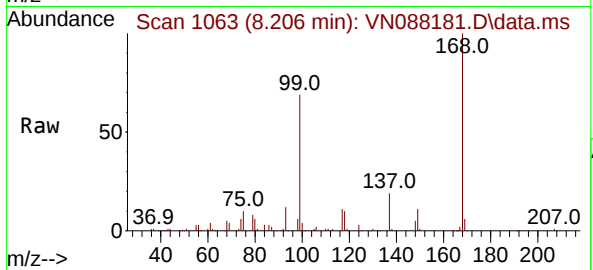




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

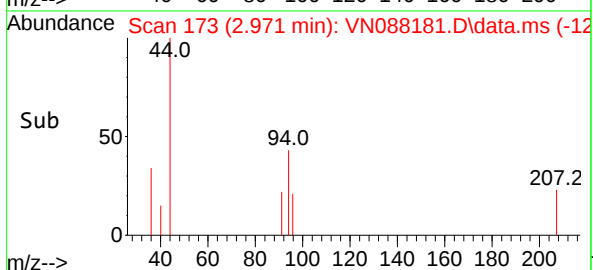
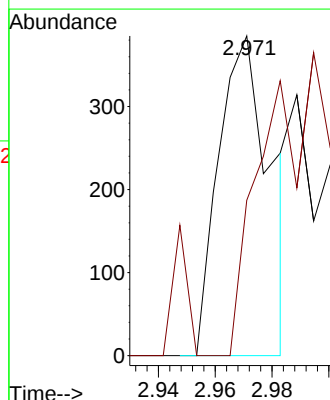
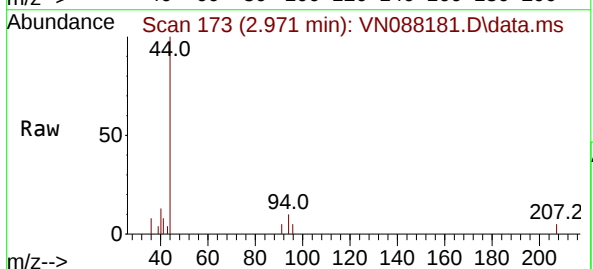
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

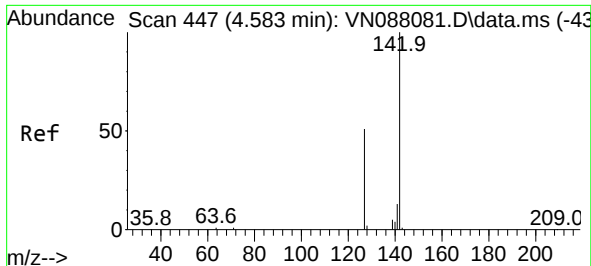
Tgt Ion:168 Resp: 258830
Ion Ratio Lower Upper
168 100
99 68.6 57.2 85.8



#5
Bromomethane
Concen: 0.218 ug/l
RT: 2.971 min Scan# 173
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 94 Resp: 487
Ion Ratio Lower Upper
94 100
96 7.8 75.4 113.2#

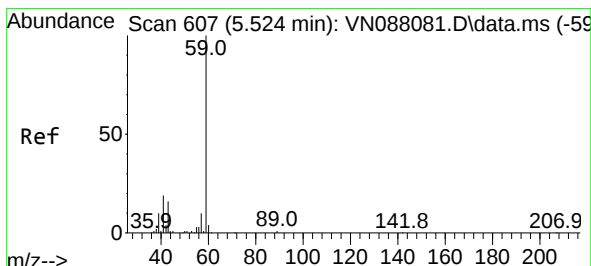
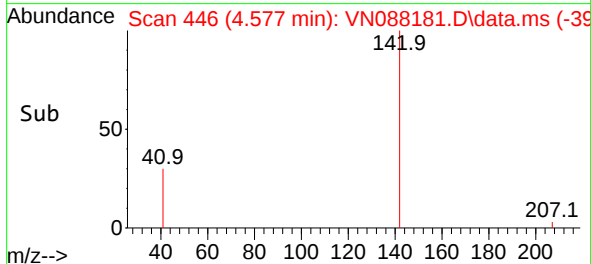
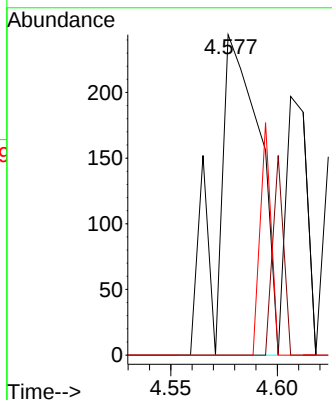
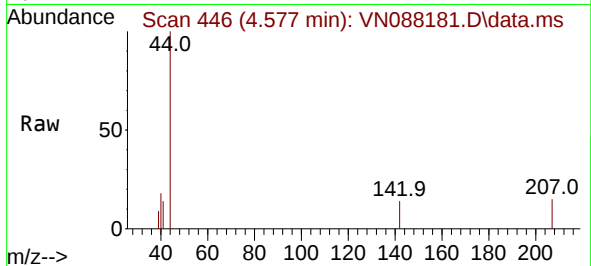




#10
Methyl Iodide
Concen: 4.313 ug/l
RT: 4.577 min Scan# 447
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

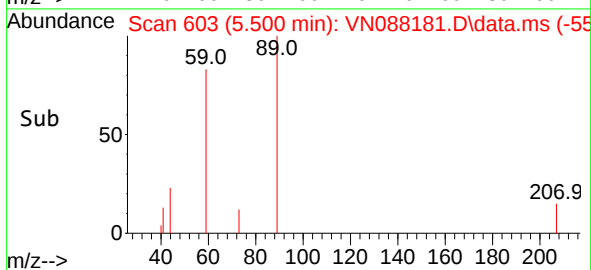
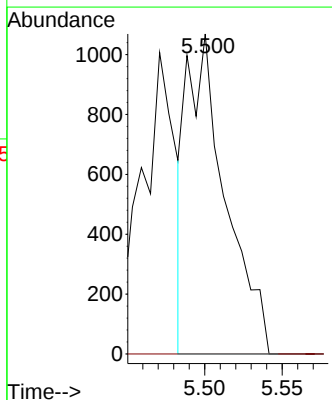
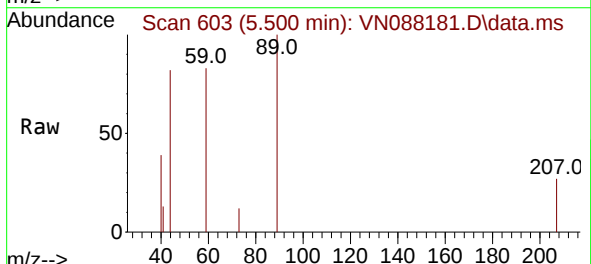
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

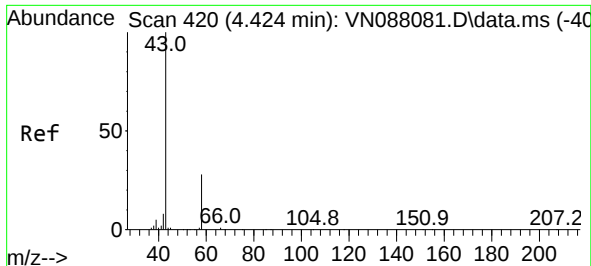
Tgt Ion:142 Resp: 338
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 2.416 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 59 Resp: 1863
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

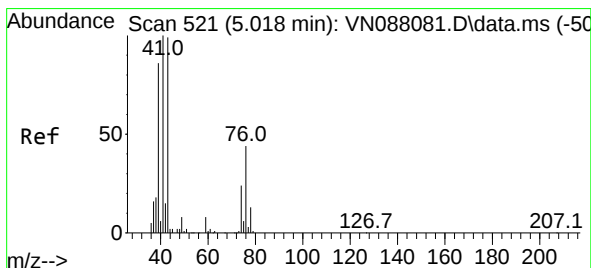
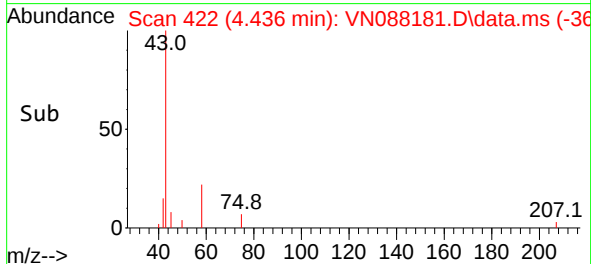
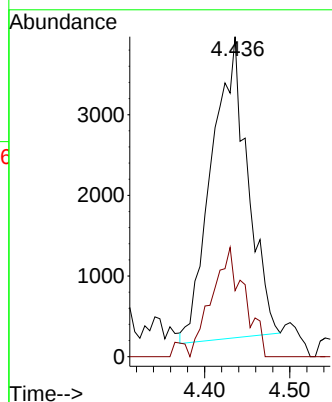
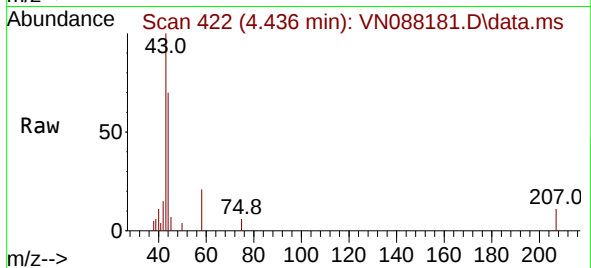




#16
Acetone
Concen: 4.877 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

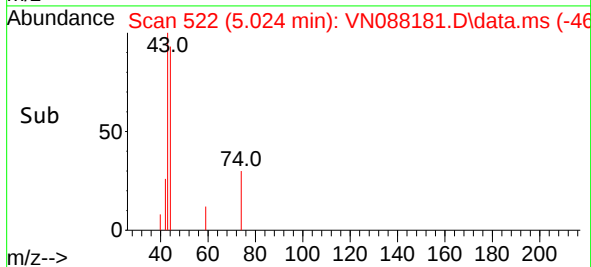
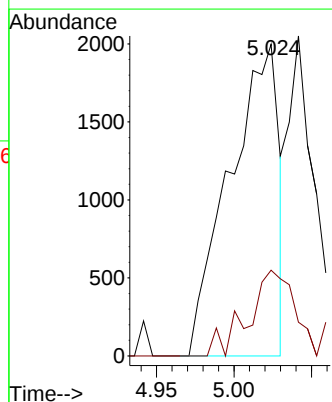
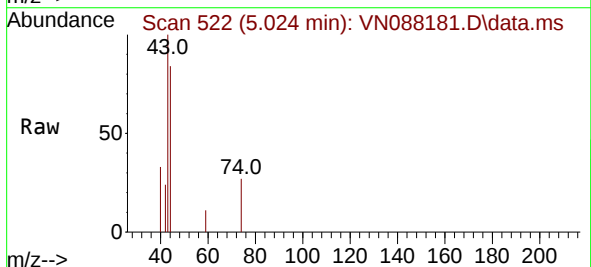
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

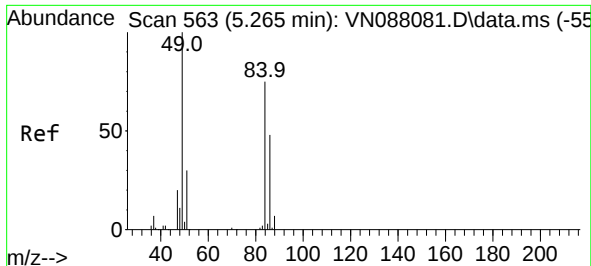
Tgt Ion: 43 Resp: 10966
Ion Ratio Lower Upper
43 100
58 22.3 22.6 33.8#



#18
Methyl Acetate
Concen: 0.956 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 43 Resp: 4400
Ion Ratio Lower Upper
43 100
74 25.7 17.6 26.4

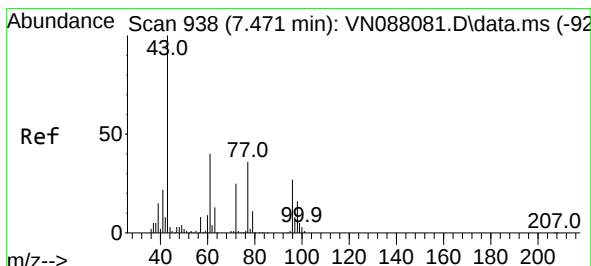
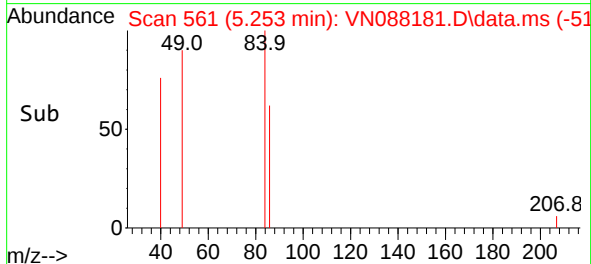
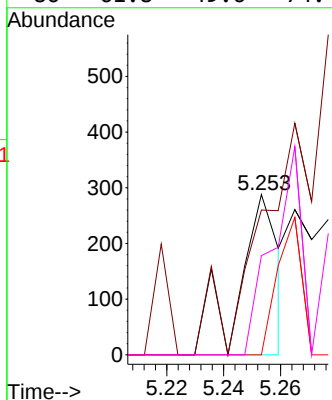
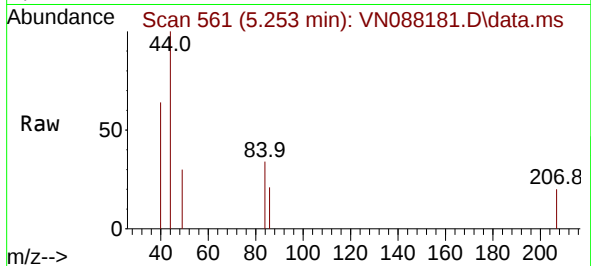




#20
Methylene Chloride
Concen: 0.852 ug/l
RT: 5.253 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

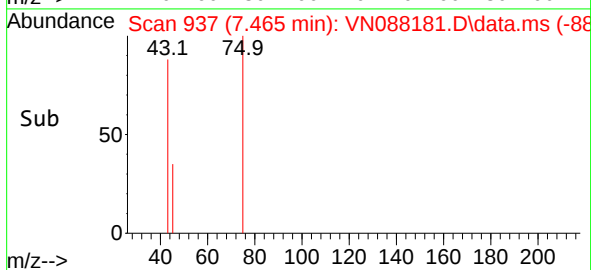
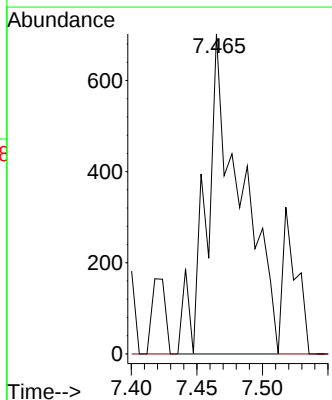
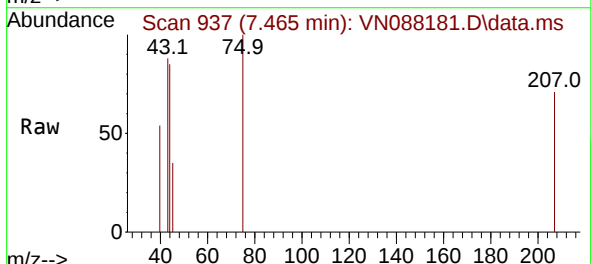
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

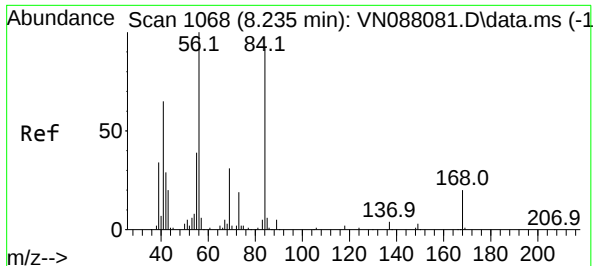
Tgt Ion:	84	Resp:	280
Ion	Ratio	Lower	Upper
84	100		
49	90.3	103.4	155.2#
51	0.0	33.8	50.8#
86	61.8	49.6	74.4



#25
2-Butanone
Concen: 0.443 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion:	43	Resp:	1314
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.9	29.9#

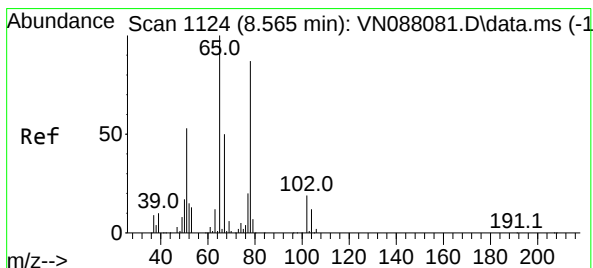
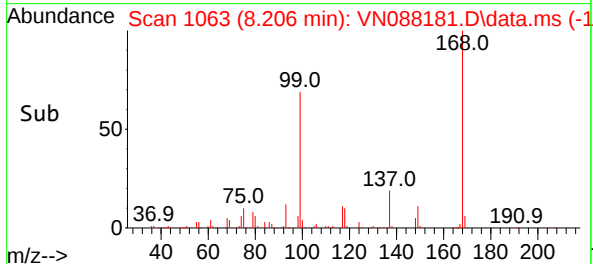
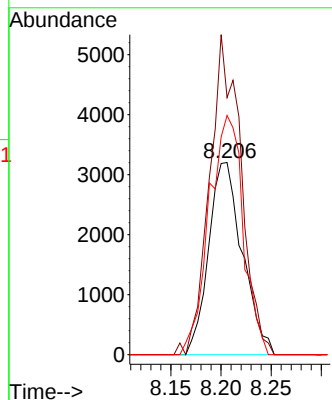
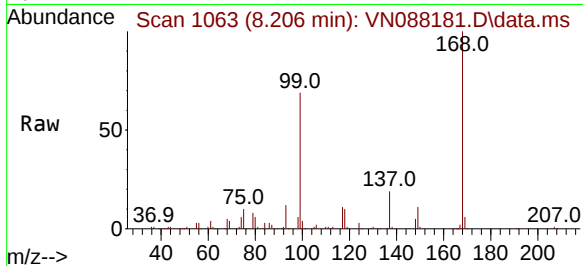




#31
Cyclohexane
Concen: 1.198 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

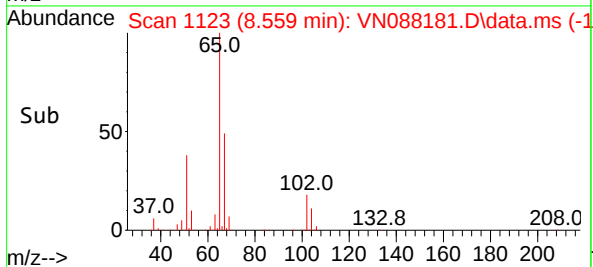
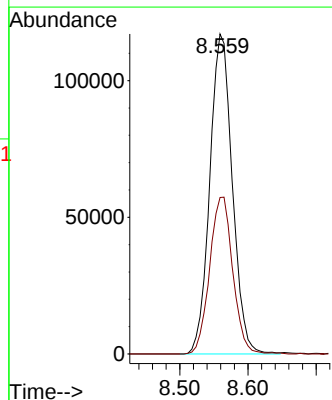
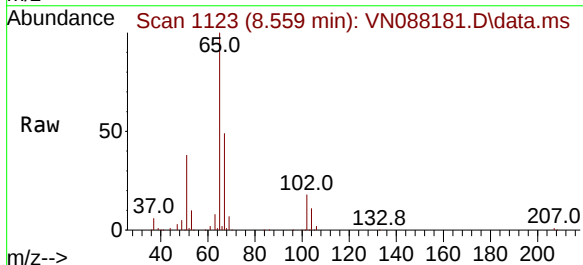
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

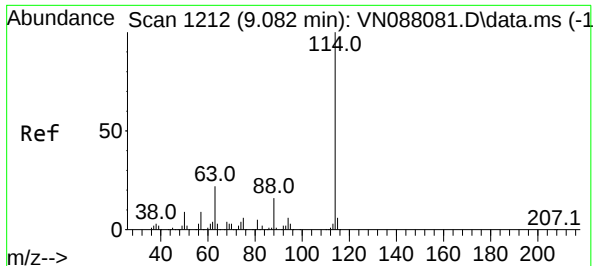
Tgt Ion: 56 Resp: 7508
Ion Ratio Lower Upper
56 100
69 133.9 23.7 35.5#
84 124.5 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 60.157 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 65 Resp: 269244
Ion Ratio Lower Upper
65 100
67 50.4 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

P001-TW4-251023-01

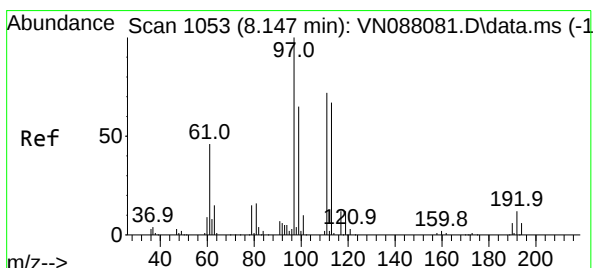
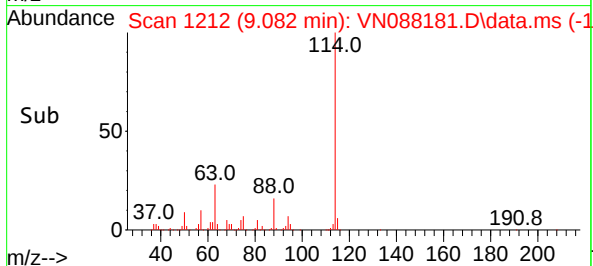
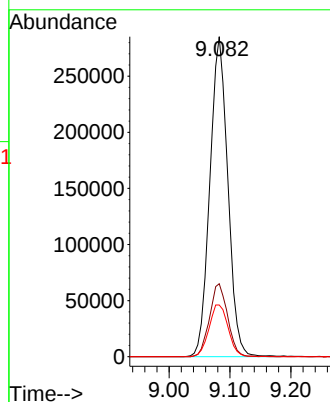
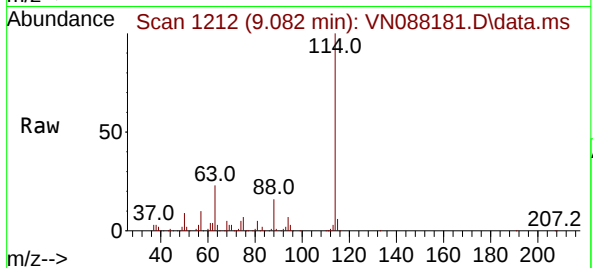
Tgt Ion:114 Resp: 583560

Ion Ratio Lower Upper

114 100

63 22.8 0.0 45.2

88 16.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 50.986 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

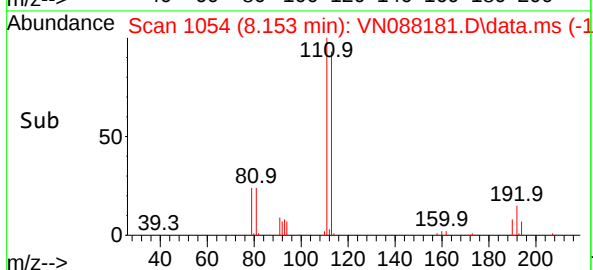
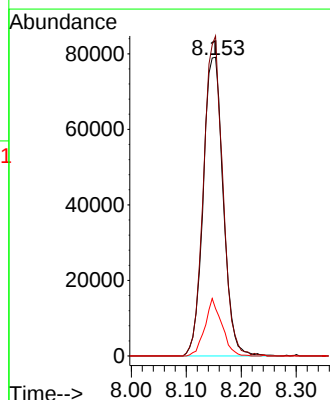
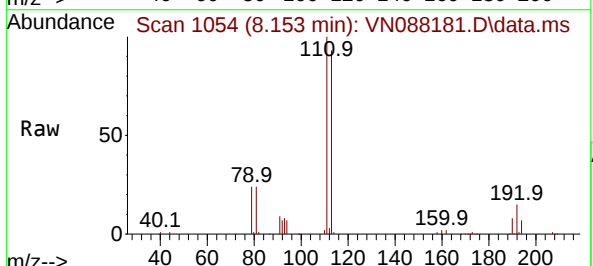
Tgt Ion:113 Resp: 199885

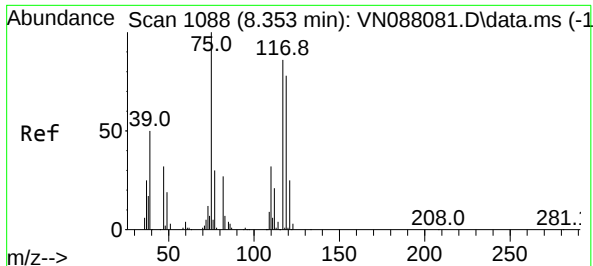
Ion Ratio Lower Upper

113 100

111 102.8 82.8 124.2

192 16.3 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.465 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

P001-TW4-251023-01

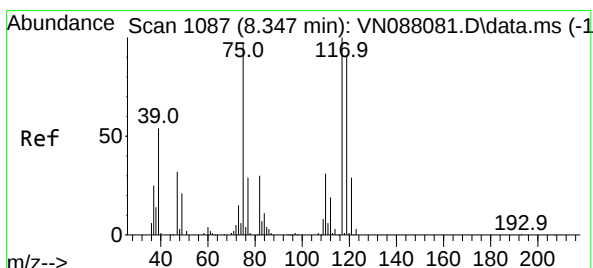
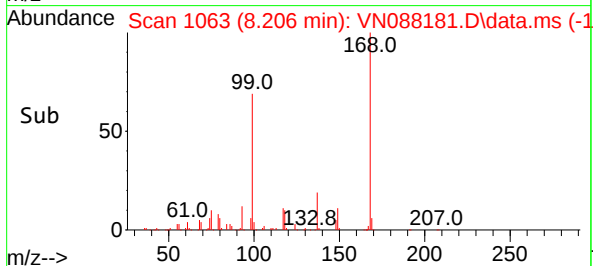
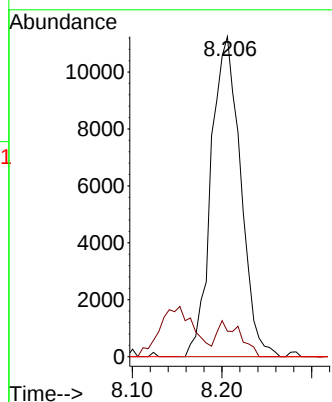
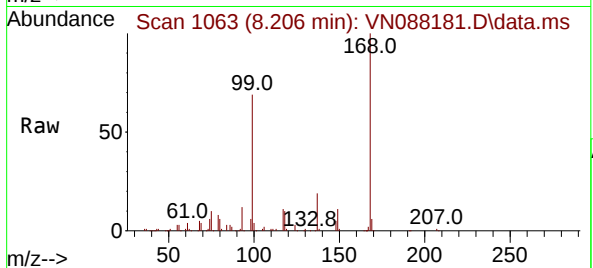
Tgt Ion: 75 Resp: 25556

Ion Ratio Lower Upper

75 100

110 8.6 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.986 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

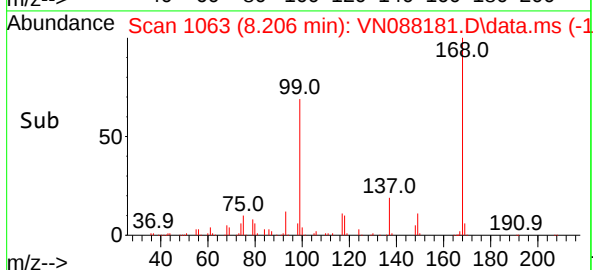
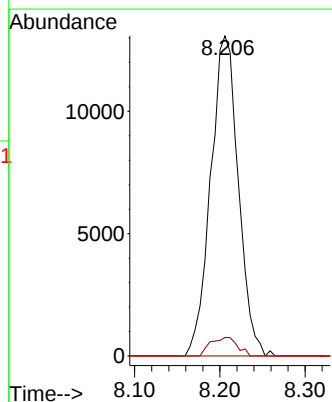
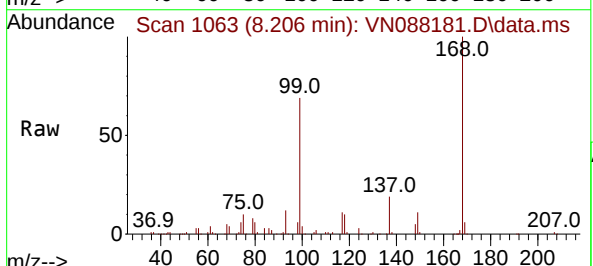
Tgt Ion: 117 Resp: 29476

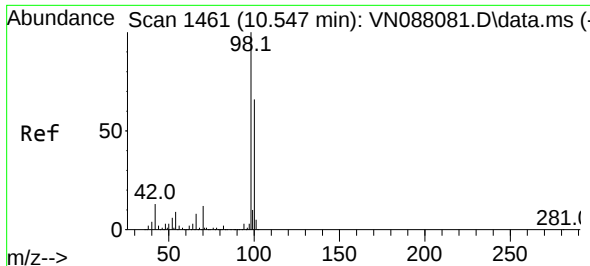
Ion Ratio Lower Upper

117 100

119 5.8 79.0 118.6#

121 0.0 25.0 37.6#

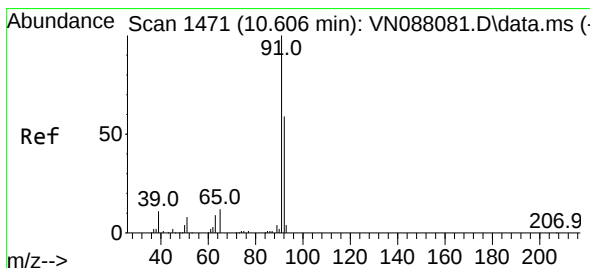
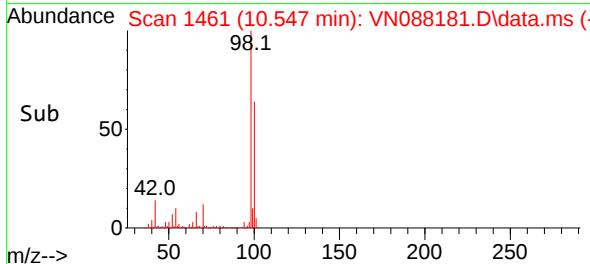
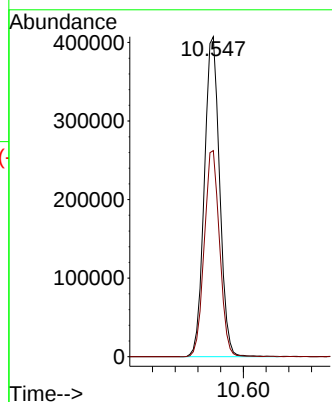
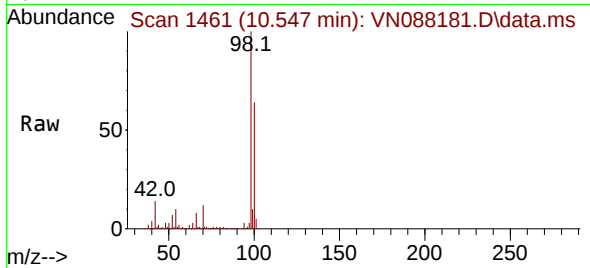




#50
Toluene-d8
Concen: 50.217 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

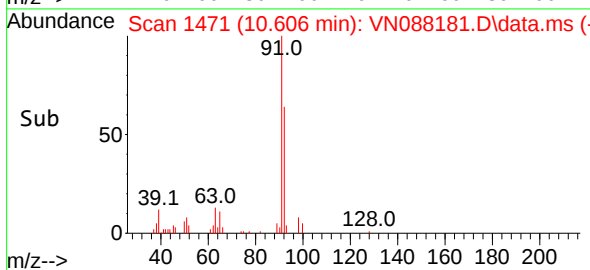
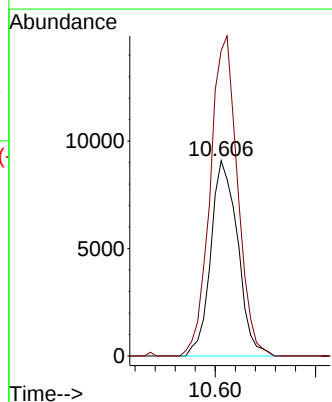
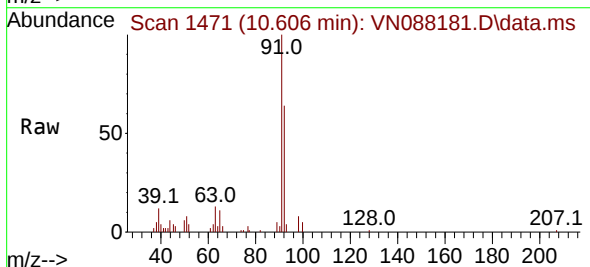
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

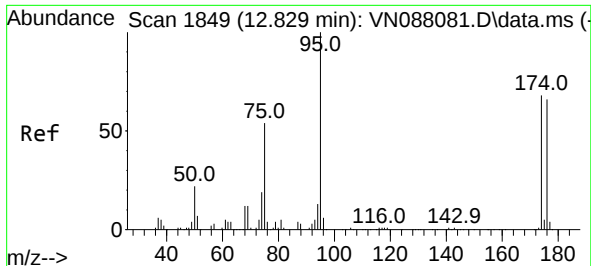
Tgt Ion: 98 Resp: 758579
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#52
Toluene
Concen: 1.576 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 92 Resp: 16941
Ion Ratio Lower Upper
92 100
91 166.9 140.4 210.6

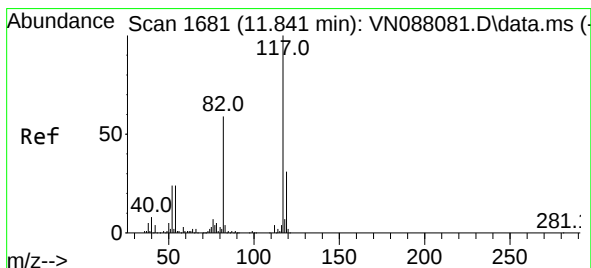
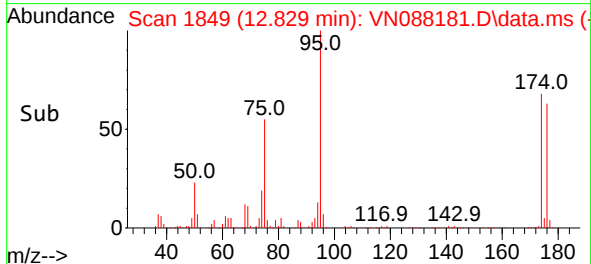
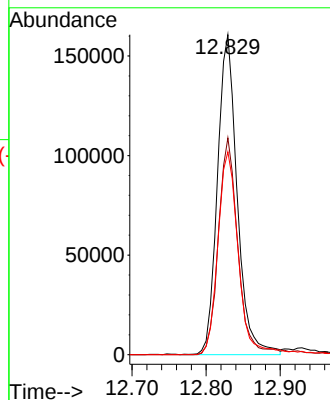
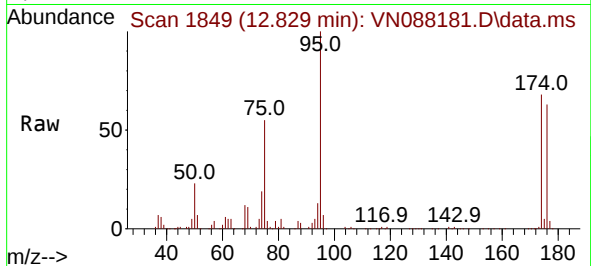




#62
4-Bromofluorobenzene
Concen: 55.863 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

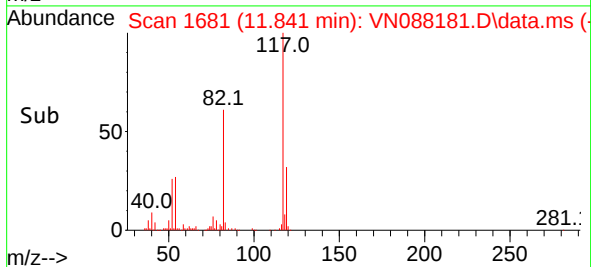
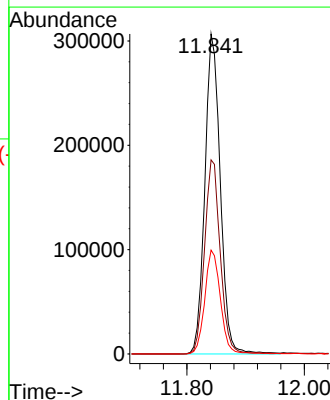
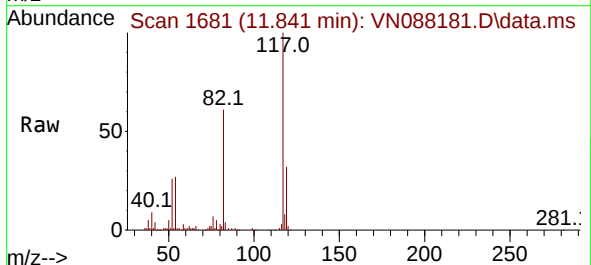
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

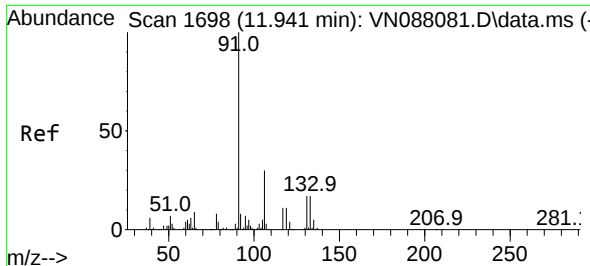
Tgt Ion: 95 Resp: 298019
Ion Ratio Lower Upper
95 100
174 67.7 0.0 138.4
176 66.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 117 Resp: 559868
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 32.4 24.3 36.5

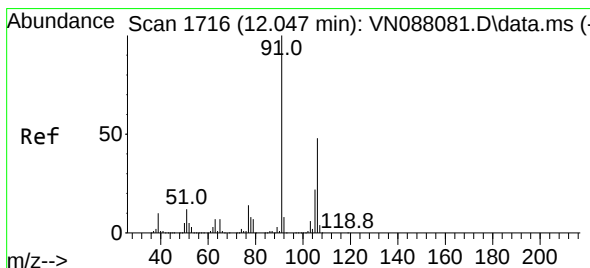
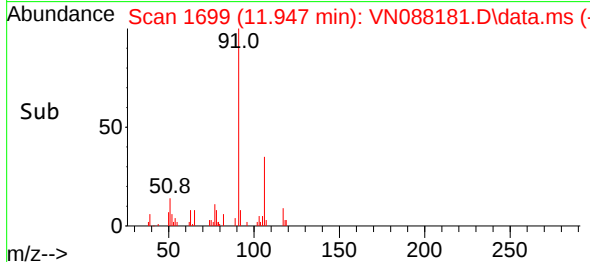
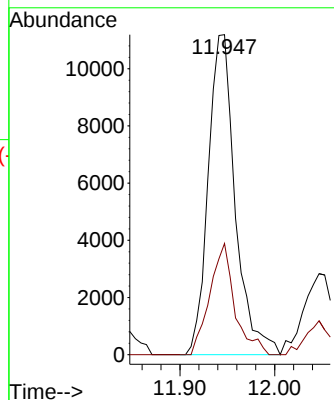
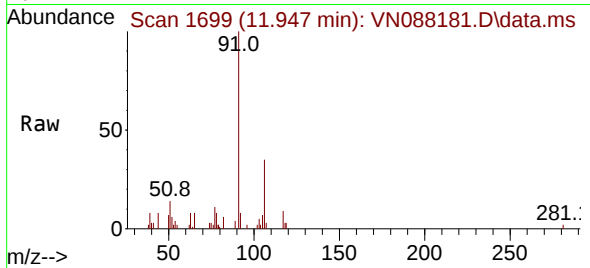




#67
Ethyl Benzene
Concen: 0.996 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

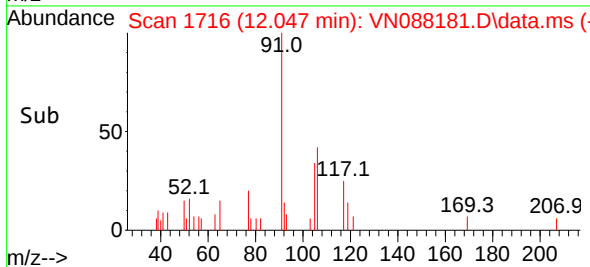
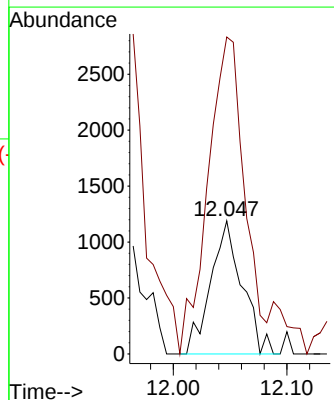
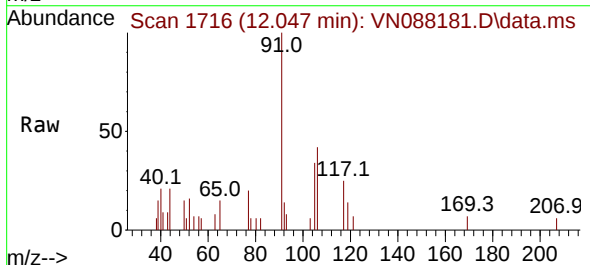
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

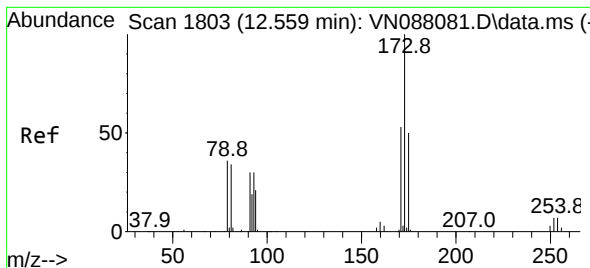
Tgt Ion: 91 Resp: 22215
Ion Ratio Lower Upper
91 100
106 34.7 24.1 36.1



#68
m/p-Xylenes
Concen: 0.274 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion:106 Resp: 2287
Ion Ratio Lower Upper
106 100
91 276.5 169.3 253.9#





#71

Bromoform

Concen: 0.707 ug/l

RT: 12.823 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

P001-TW4-251023-01

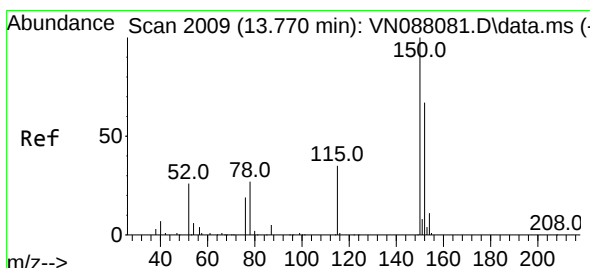
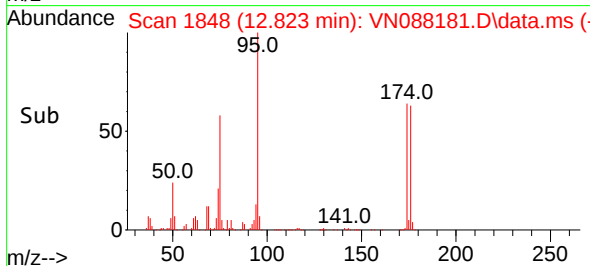
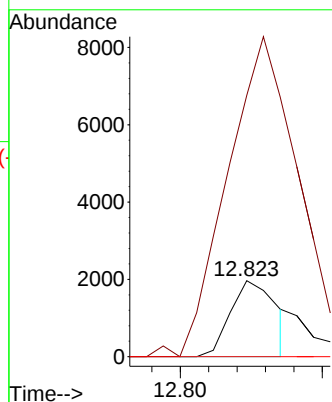
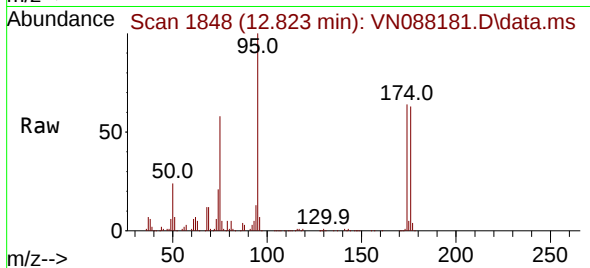
Tgt Ion:173 Resp: 2196

Ion Ratio Lower Upper

173 100

175 503.3 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

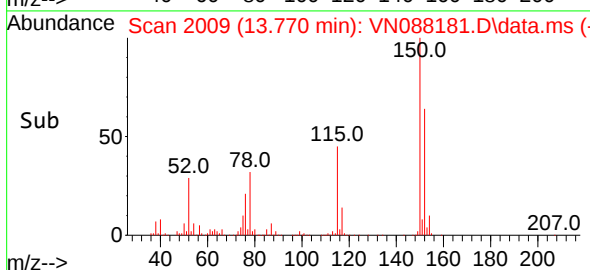
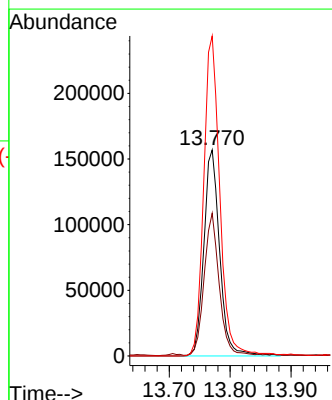
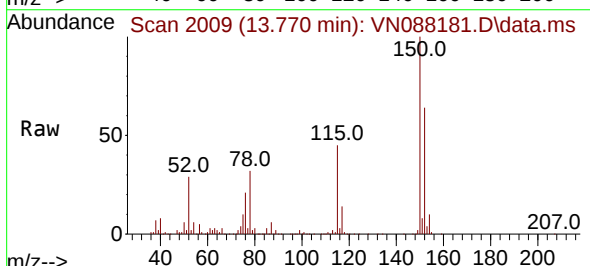
Tgt Ion:152 Resp: 283129

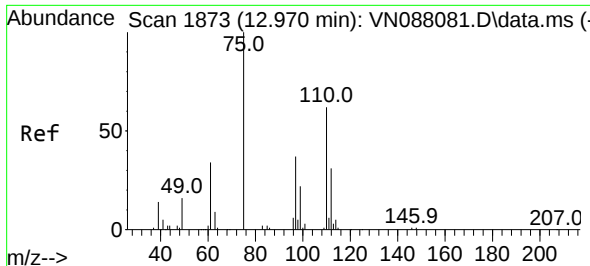
Ion Ratio Lower Upper

152 100

115 65.0 32.3 96.8

150 157.6 0.0 351.0

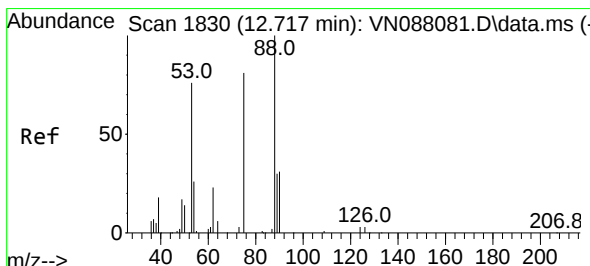
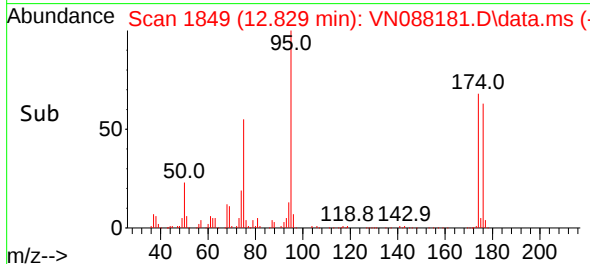
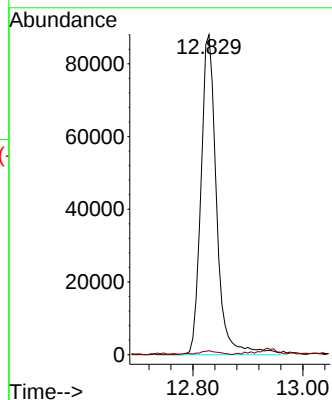
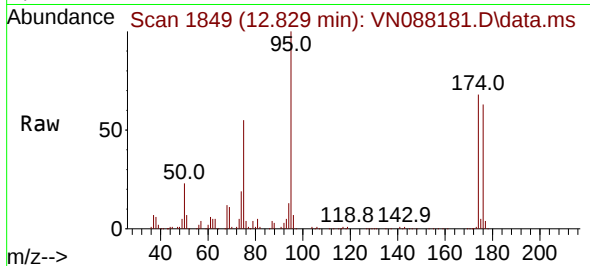




#76
1,2,3-Trichloropropane
Concen: 26.754 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

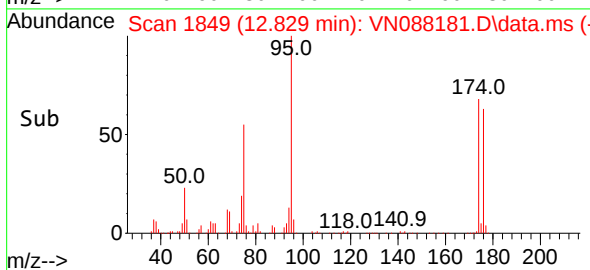
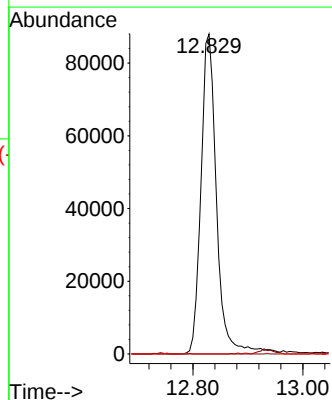
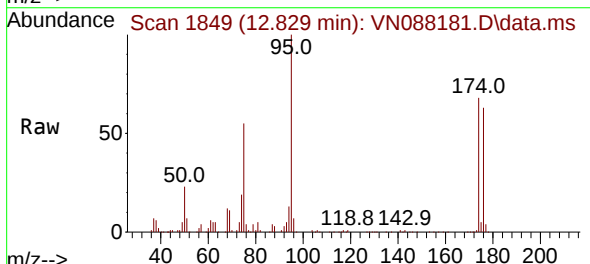
Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

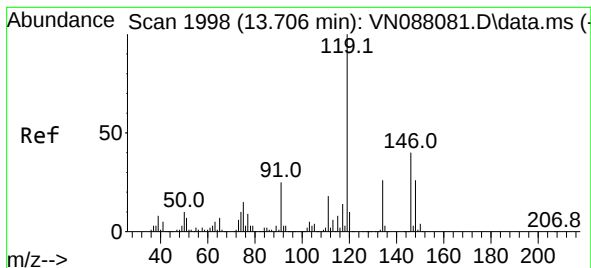
Tgt Ion: 75 Resp: 173184
Ion Ratio Lower Upper
75 100
77 1.4 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.631 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion: 75 Resp: 173184
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#





#86

p-Isopropyltoluene

Concen: 1.601 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. -0.000 min

Lab File: VN088181.D

Acq: 31 Oct 2025 12:37

Instrument :

MSVOA_N

ClientSampleId :

P001-TW4-251023-01

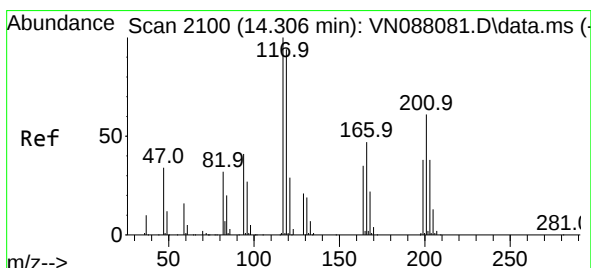
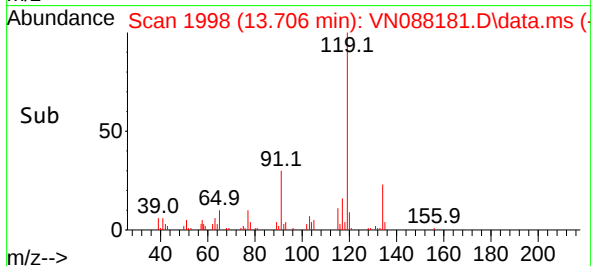
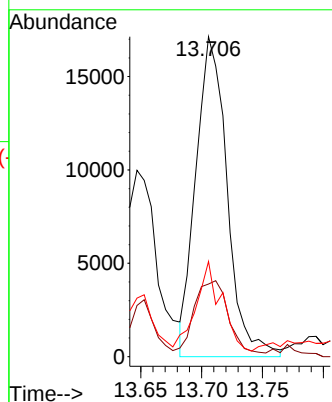
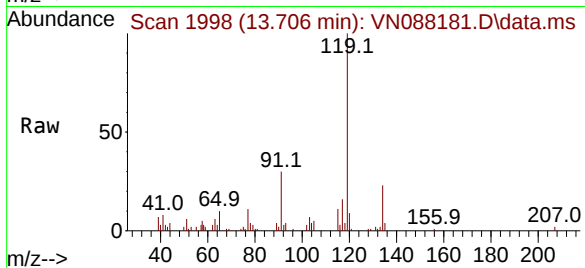
Tgt Ion:119 Resp: 30575

Ion Ratio Lower Upper

119 100

134 26.9 12.7 38.0

91 23.1 12.5 37.5



#90

Hexachloroethane

Concen: 0.249 ug/l

RT: 14.317 min Scan# 2102

Delta R.T. 0.006 min

Lab File: VN088181.D

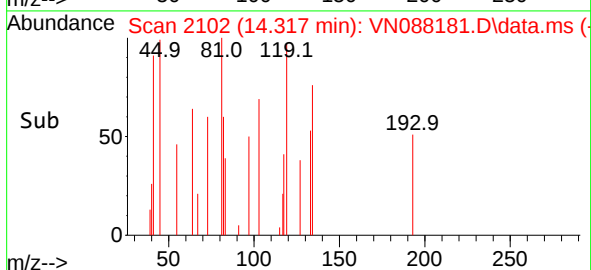
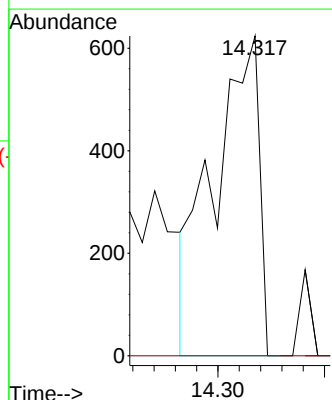
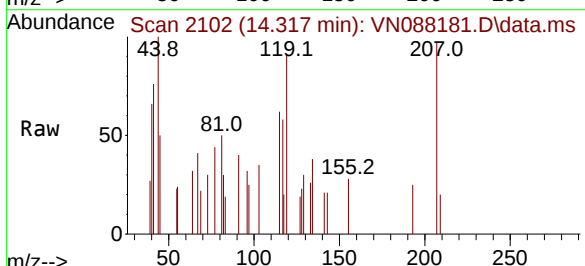
Acq: 31 Oct 2025 12:37

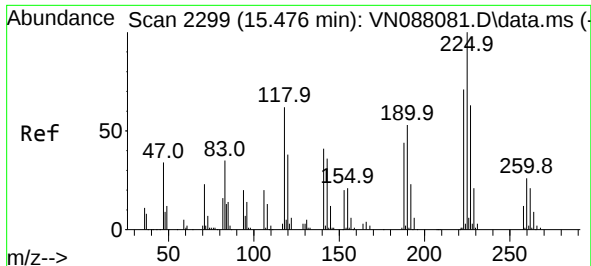
Tgt Ion:117 Resp: 921

Ion Ratio Lower Upper

117 100

201 0.0 29.1 87.4#

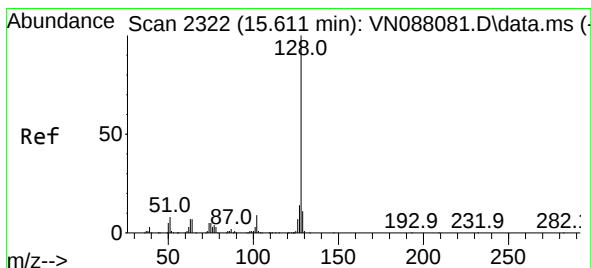
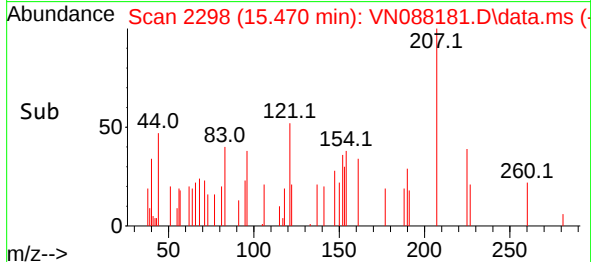
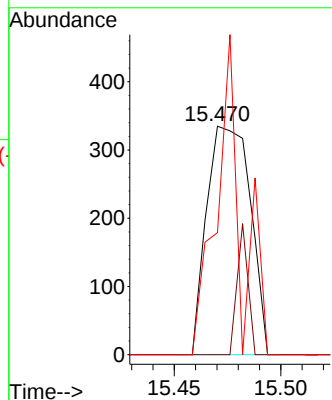
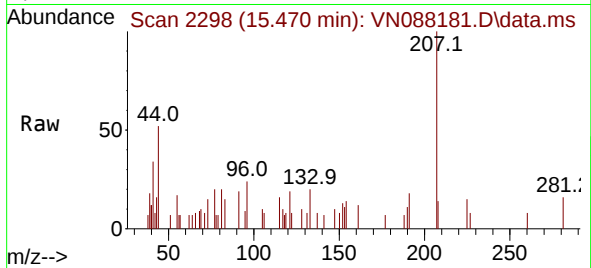




#94
Hexachlorobutadiene
Concen: 0.233 ug/l
RT: 15.470 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:225 Resp: 476
Ion Ratio Lower Upper
225 100
223 14.3 32.0 96.2#
227 79.4 32.1 96.5



#95
Naphthalene
Concen: 1.218 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088181.D
Acq: 31 Oct 2025 12:37

Tgt Ion:128 Resp: 22890
Ion Ratio Lower Upper
128 100
127 14.0 10.6 15.8
129 14.3 8.6 12.8#

