

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088211.D
 Acq On : 06 Nov 2025 16:54
 Operator : JC\MD
 Sample : Q3536-04
 Misc : 1.5g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 2052

Quant Time: Nov 07 02:22:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

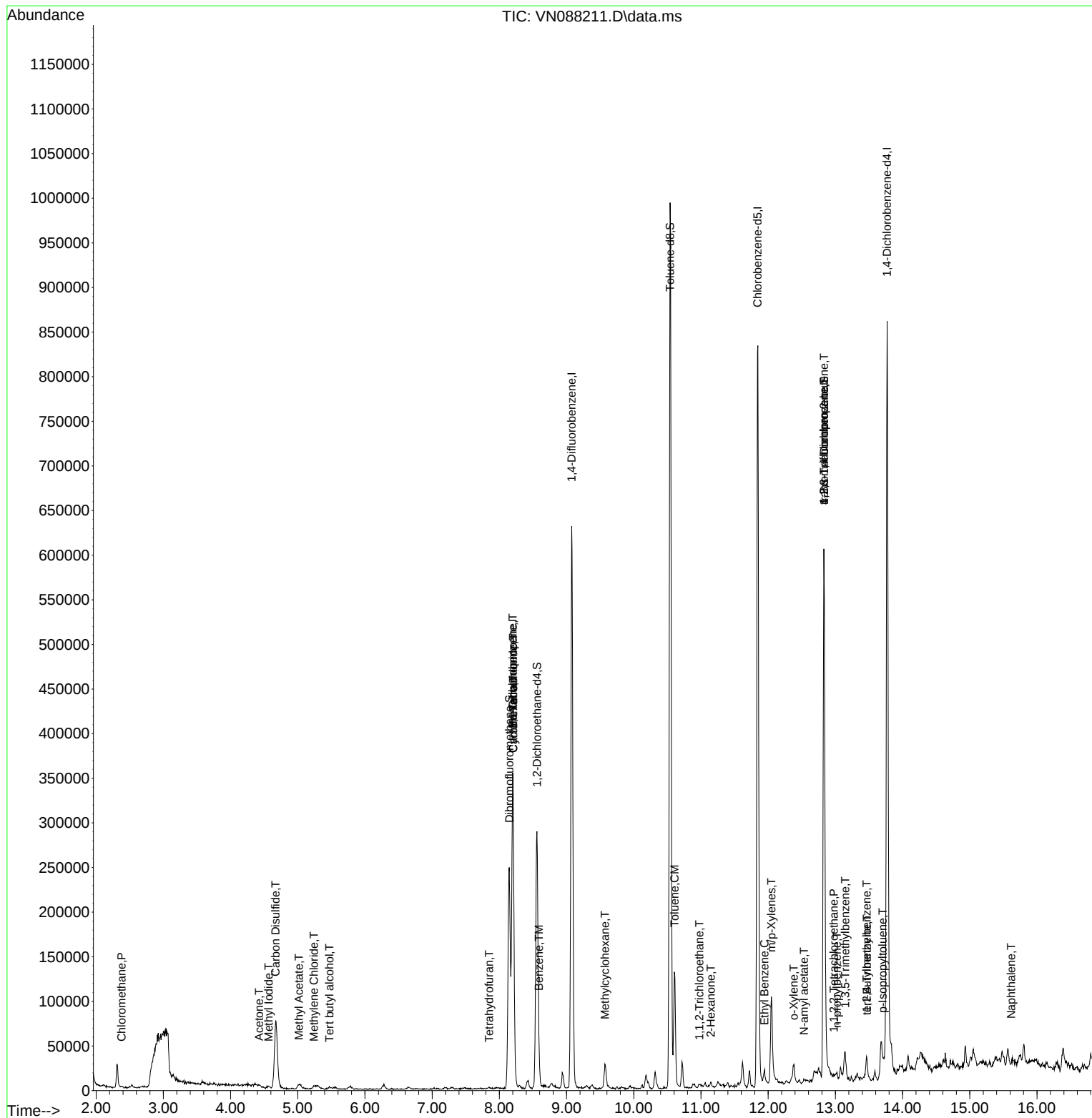
Internal Standards						
1) Pentafluorobenzene	8.200	168	232632	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.076	114	522856	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	462937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	214096	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	240126	59.693	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.380%			
35) Dibromofluoromethane	8.147	113	178083	50.699	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.400%			
50) Toluene-d8	10.541	98	665050	49.137	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.829	95	231615	48.456	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.920%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	1007	0.326	ug/l	94
10) Methyl Iodide	4.565	142	4097	1.619	ug/l #	82
11) Tert butyl alcohol	5.471	59	1863	2.688	ug/l #	71
16) Acetone	4.424	43	1000	0.495	ug/l	98
17) Carbon Disulfide	4.671	76	177586	19.980	ug/l	100
18) Methyl Acetate	5.018	43	13449	3.251	ug/l	94
20) Methylene Chloride	5.241	84	1081	0.319	ug/l #	87
29) Tetrahydrofuran	7.847	42	1158	0.667	ug/l #	57
31) Cyclohexane	8.206	56	10992	1.952	ug/l #	53
36) 1,1-Dichloropropene	8.200	75	22588	4.404	ug/l #	51
38) Carbon Tetrachloride	8.206	117	27558	5.202	ug/l #	14
39) Methylcyclohexane	9.570	83	10498	1.592	ug/l	97
40) Benzene	8.588	78	23131	1.481	ug/l	99
52) Toluene	10.606	92	51737	5.372	ug/l	95
55) 1,1,2-Trichloroethane	10.976	97	1374	0.376	ug/l #	29
59) 2-Hexanone	11.147	43	1746	0.437	ug/l #	26
67) Ethyl Benzene	11.947	91	11152	0.604	ug/l #	87
68) m/p-Xylenes	12.047	106	23986	3.469	ug/l	97
69) o-Xylene	12.382	106	6278	0.958	ug/l	96
74) N-amyl acetate	12.535	43	1400	0.299	ug/l #	18
75) 1,1,2,2-Tetrachloroethane	12.976	83	5604	1.090	ug/l #	36
76) 1,2,3-Trichloropropane	12.829	75	134078	27.391	ug/l #	1
78) n-propylbenzene	13.023	91	4119	0.204	ug/l	96
80) 1,3,5-Trimethylbenzene	13.147	105	9514	0.694	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.829	75	134078	76.409	ug/l #	1
83) tert-Butylbenzene	13.470	119	2927	0.239	ug/l #	83
84) 1,2,4-Trimethylbenzene	13.464	105	17617	1.284	ug/l	96
86) p-Isopropyltoluene	13.705	119	6141	0.425	ug/l #	18
95) Naphthalene	15.617	128	3606	0.254	ug/l #	91

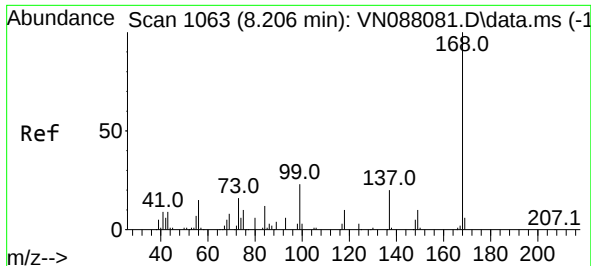
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

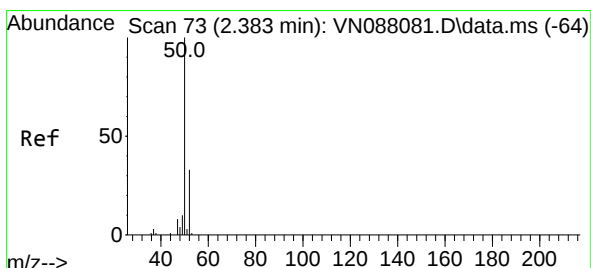
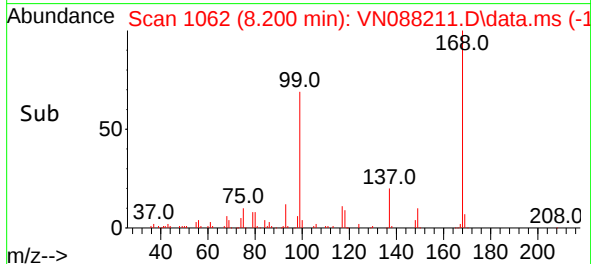
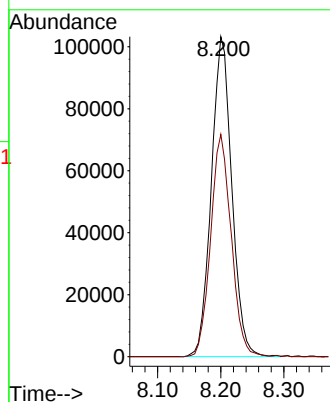
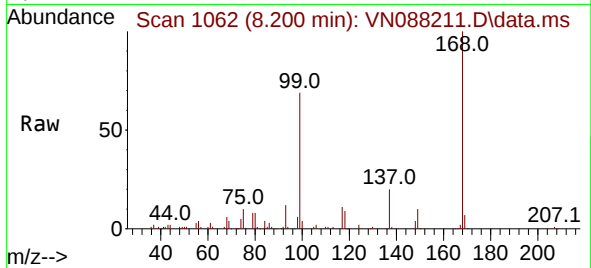




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

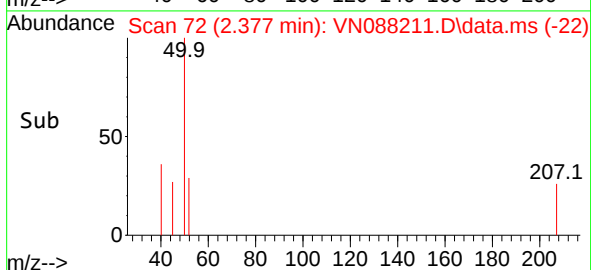
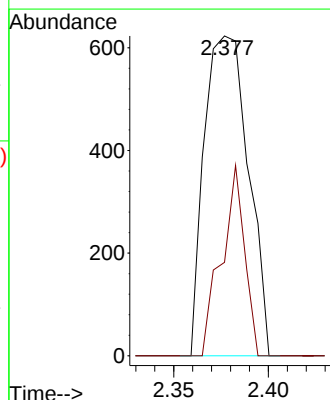
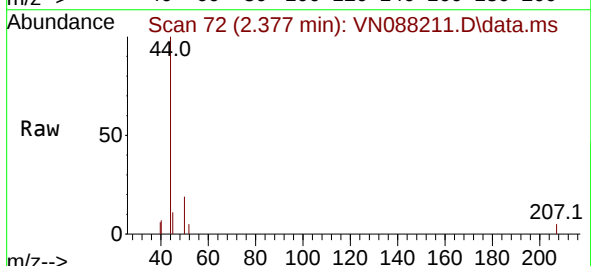
Instrument :
MSVOA_N
ClientSampleId :
2052

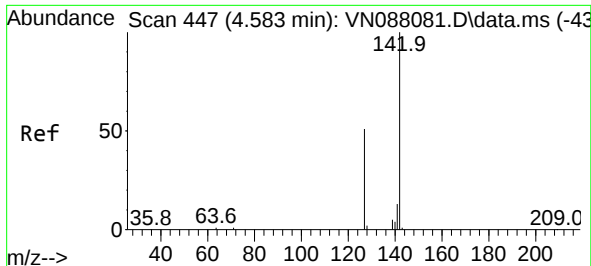
Tgt Ion:168 Resp: 232632
Ion Ratio Lower Upper
168 100
99 69.5 57.2 85.8



#3
Chloromethane
Concen: 0.326 ug/l
RT: 2.377 min Scan# 72
Delta R.T. -0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

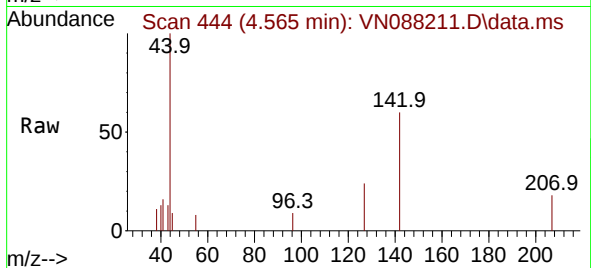
Tgt Ion: 50 Resp: 1007
Ion Ratio Lower Upper
50 100
52 29.2 26.2 39.4



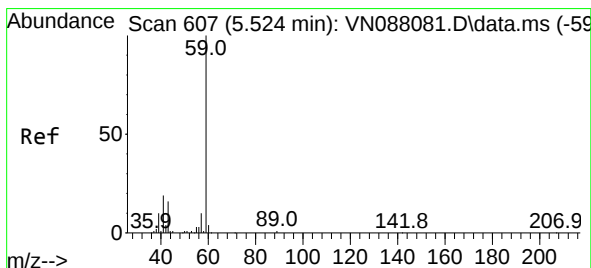
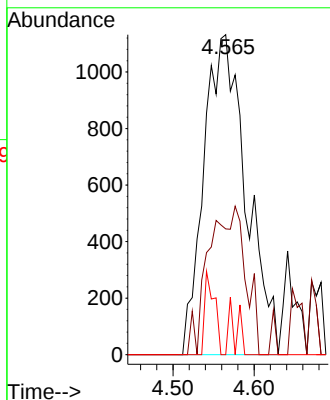
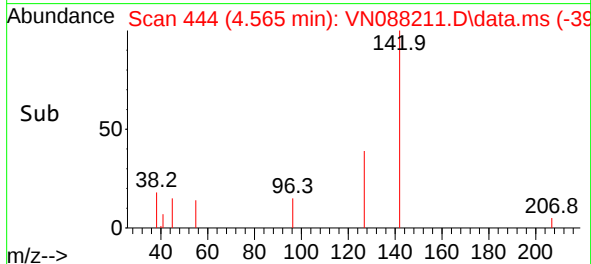


#10
Methyl Iodide
Concen: 1.619 ug/l
RT: 4.565 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Instrument :
MSVOA_N
ClientSampleId :
2052

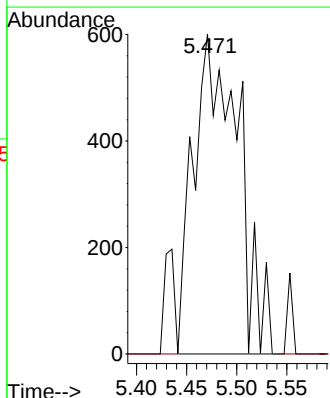
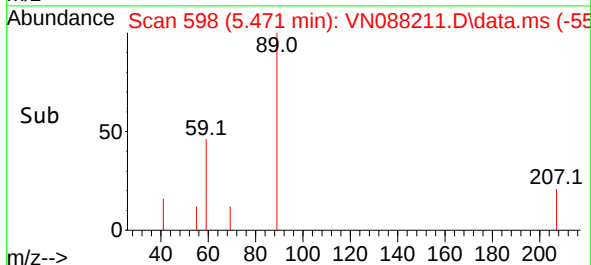
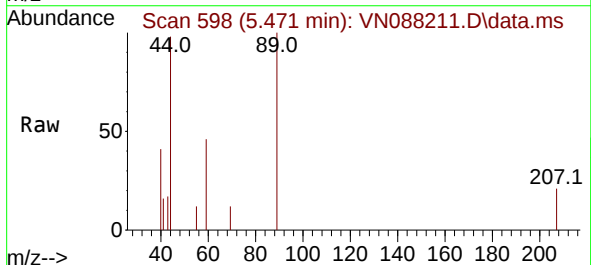


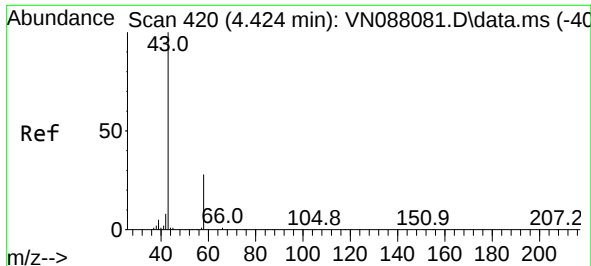
Tgt Ion:142 Resp: 4097
Ion Ratio Lower Upper
142 100
127 39.3 38.0 57.0
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 2.688 ug/l
RT: 5.471 min Scan# 598
Delta R.T. -0.047 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

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

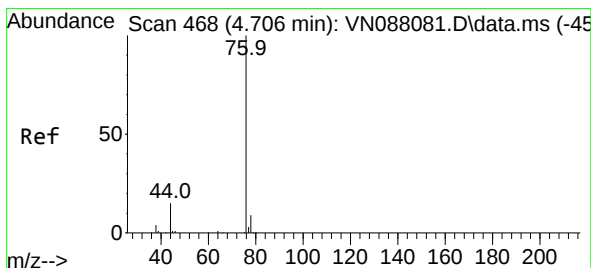
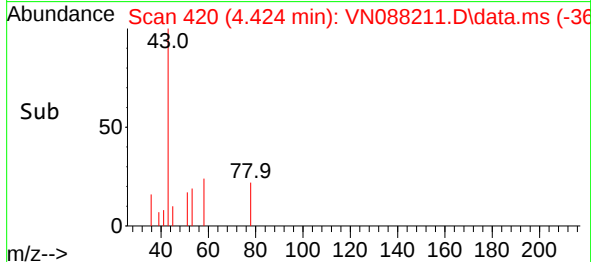
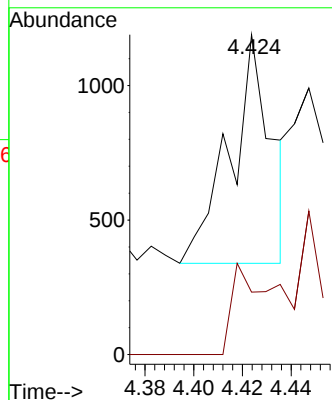
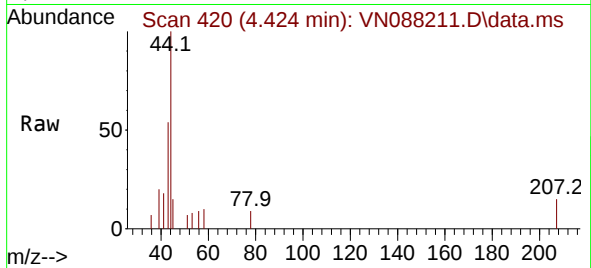




#16
Acetone
Concen: 0.495 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

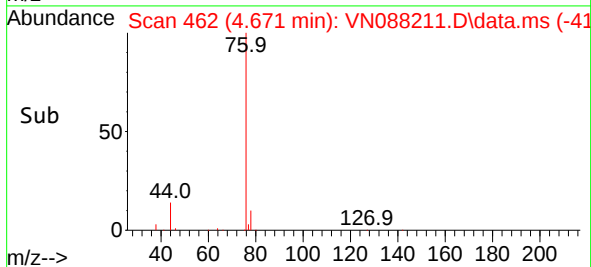
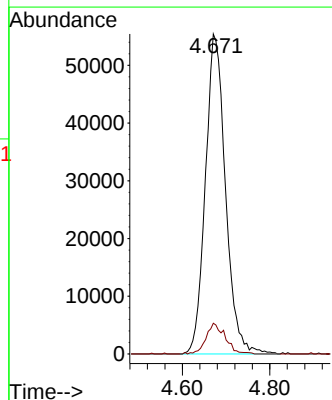
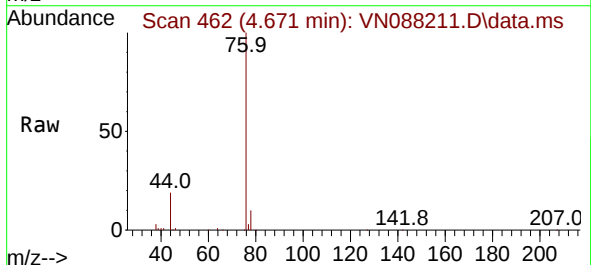
Instrument :
MSVOA_N
ClientSampleId :
2052

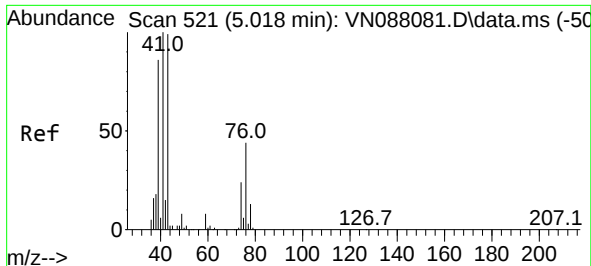
Tgt Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
58 27.3 22.6 33.8



#17
Carbon Disulfide
Concen: 19.980 ug/l
RT: 4.671 min Scan# 462
Delta R.T. -0.030 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 76 Resp: 177586
Ion Ratio Lower Upper
76 100
78 9.6 7.6 11.4

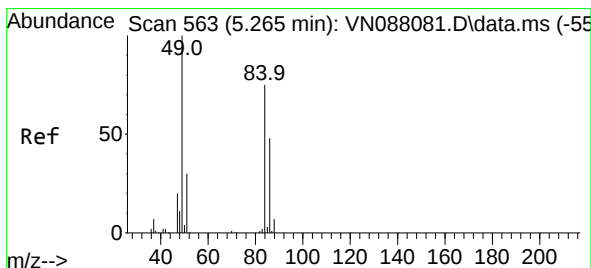
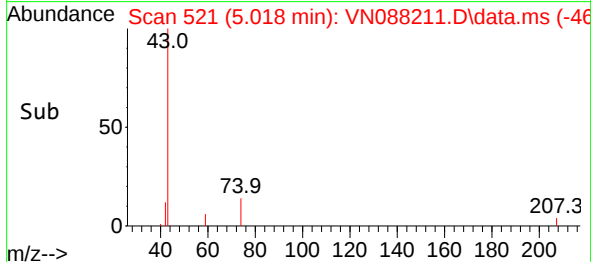
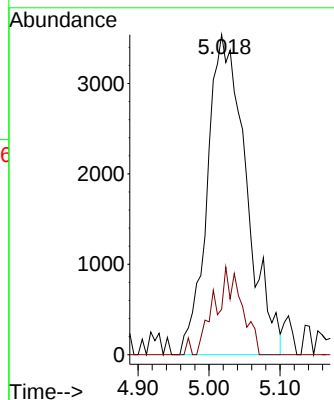
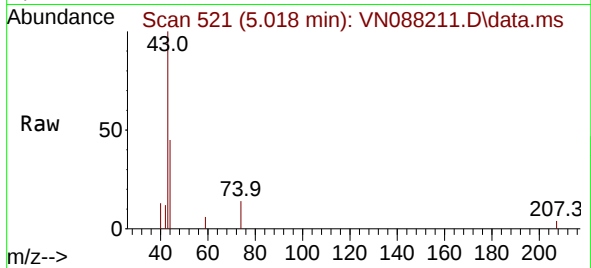




#18
Methyl Acetate
Concen: 3.251 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

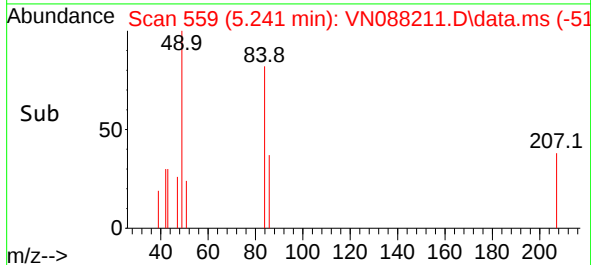
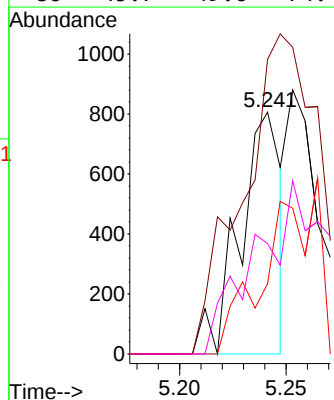
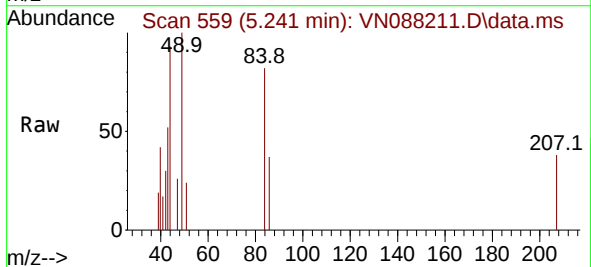
Instrument :
MSVOA_N
ClientSampleId :
2052

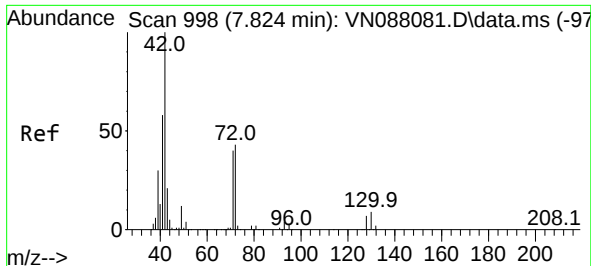
Tgt Ion: 43 Resp: 13449
Ion Ratio Lower Upper
43 100
74 18.9 17.6 26.4



#20
Methylene Chloride
Concen: 0.319 ug/l
RT: 5.241 min Scan# 559
Delta R.T. -0.024 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 84 Resp: 1081
Ion Ratio Lower Upper
84 100
49 121.8 103.4 155.2
51 29.0 33.8 50.8#
86 45.7 49.6 74.4#





#29

Tetrahydrofuran

Concen: 0.667 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.023 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

2052

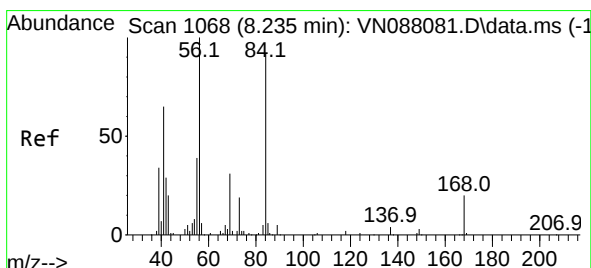
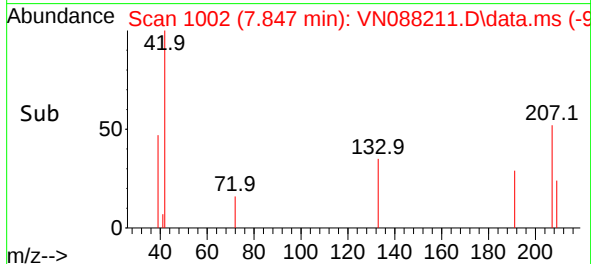
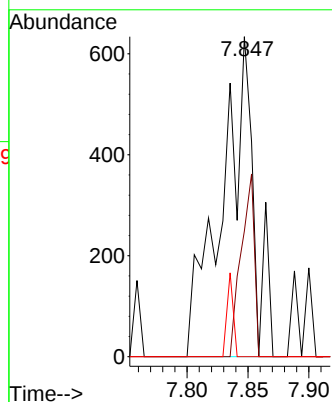
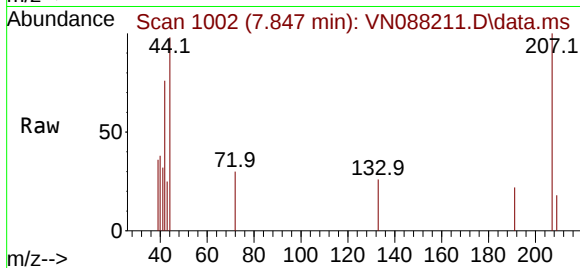
Tgt Ion: 42 Resp: 1158

Ion Ratio Lower Upper

42 100

72 23.5 33.7 50.5#

71 5.1 31.9 47.9#



#31

Cyclohexane

Concen: 1.952 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.030 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

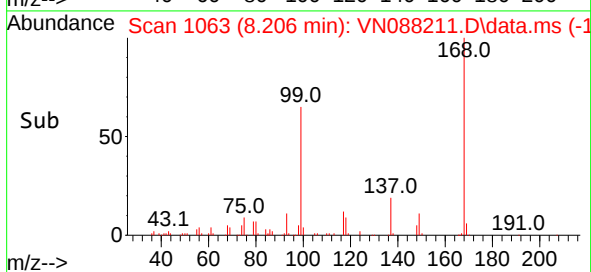
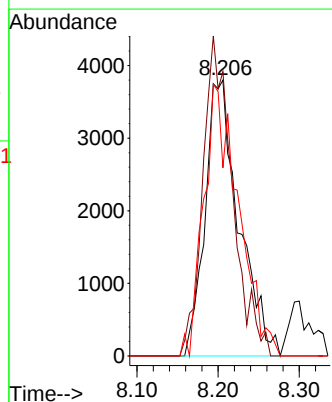
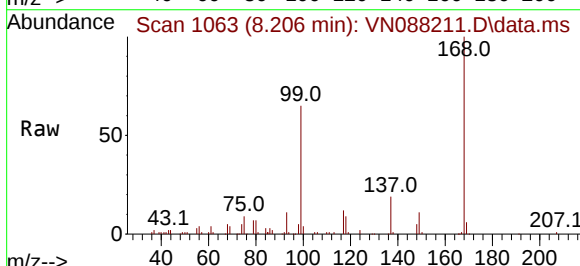
Tgt Ion: 56 Resp: 10992

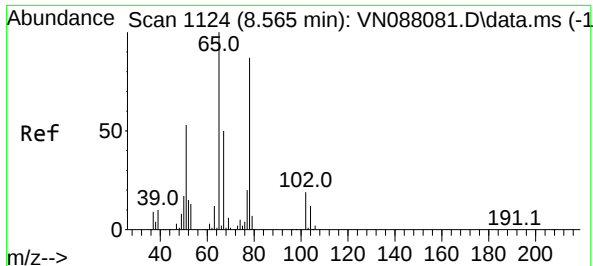
Ion Ratio Lower Upper

56 100

69 103.1 23.7 35.5#

84 68.3 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 59.693 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

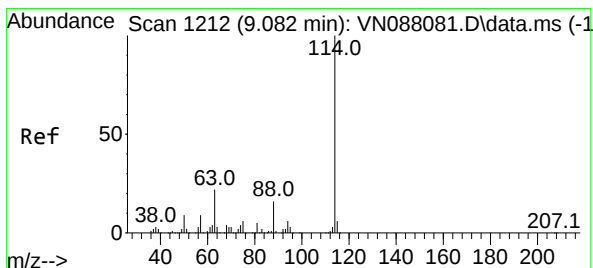
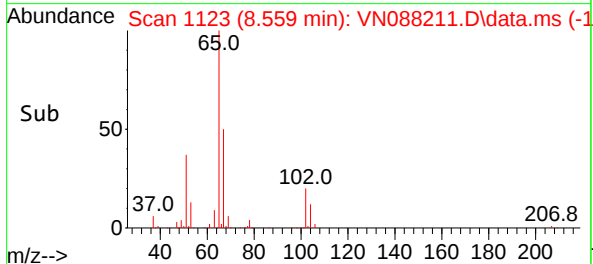
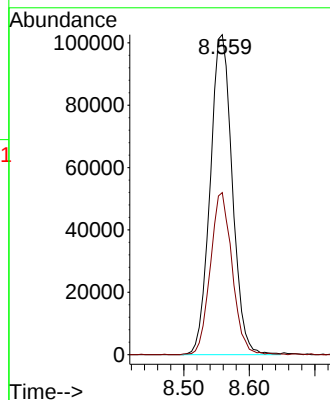
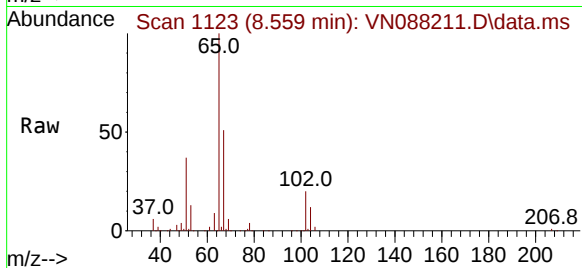
2052

Tgt Ion: 65 Resp: 240126

Ion Ratio Lower Upper

65 100

67 50.0 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.076 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

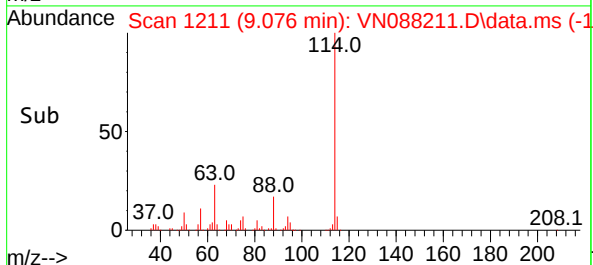
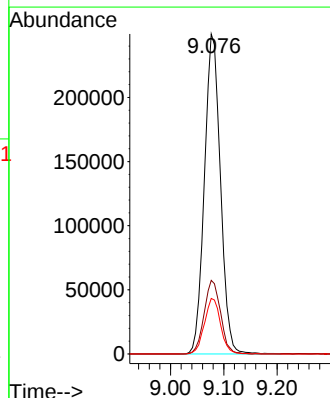
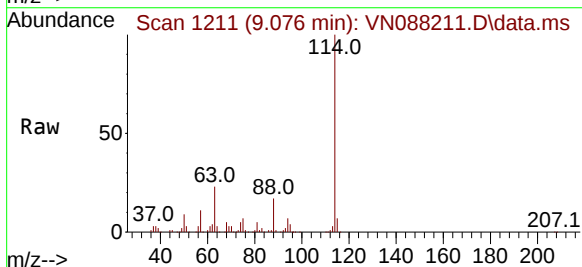
Tgt Ion: 114 Resp: 522856

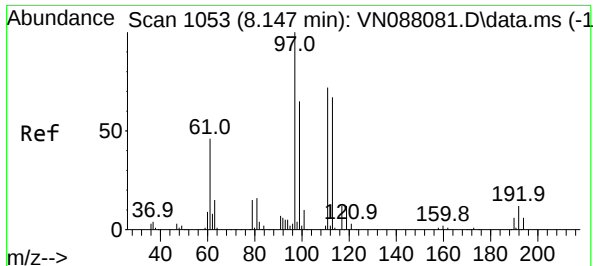
Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.2

88 17.3 0.0 33.4

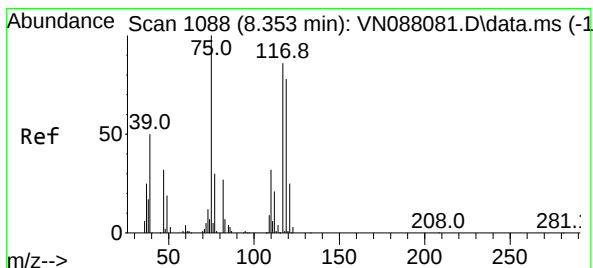
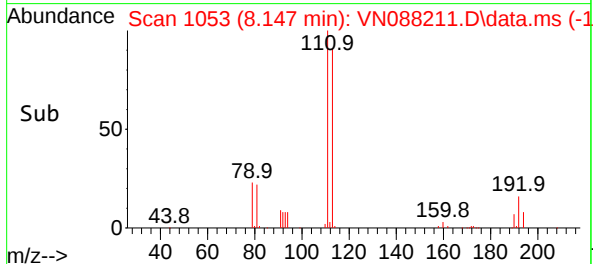
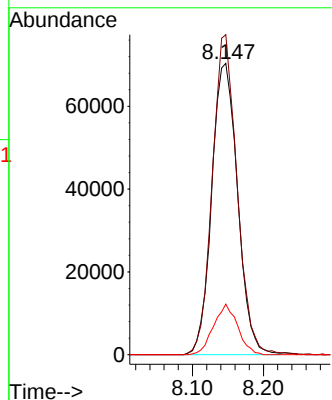
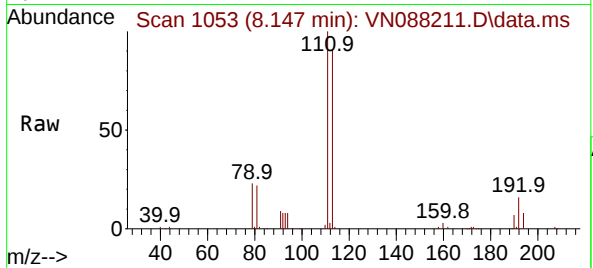




#35
Dibromofluoromethane
Concen: 50.699 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

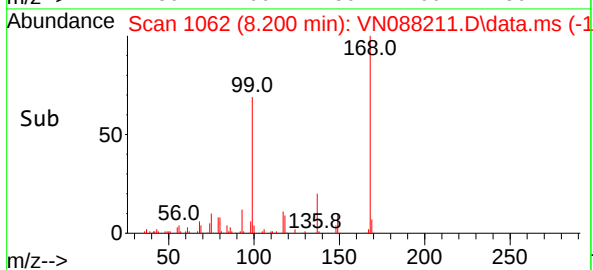
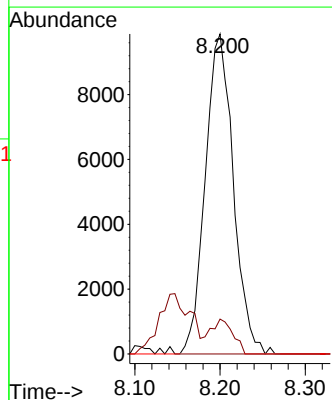
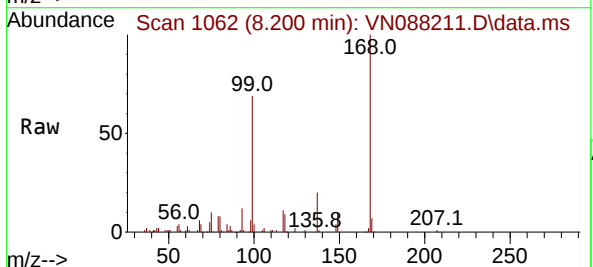
Instrument :
MSVOA_N
ClientSampleId :
2052

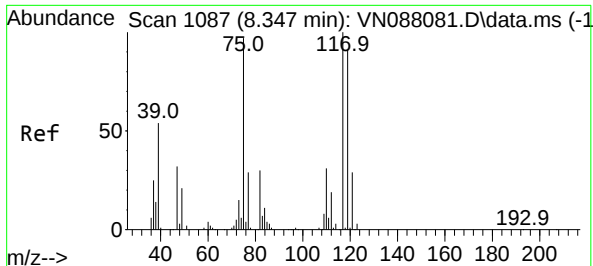
Tgt Ion:113 Resp: 178083
Ion Ratio Lower Upper
113 100
111 105.1 82.8 124.2
192 16.1 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.404 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 75 Resp: 22588
Ion Ratio Lower Upper
75 100
110 8.2 15.9 47.6#
77 0.0 24.4 36.6#

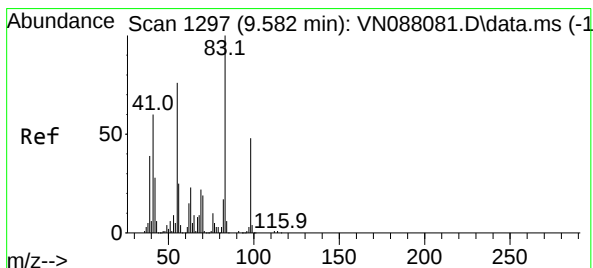
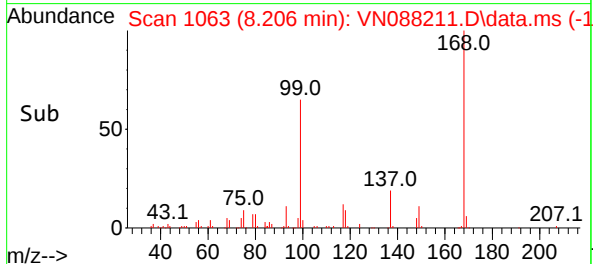
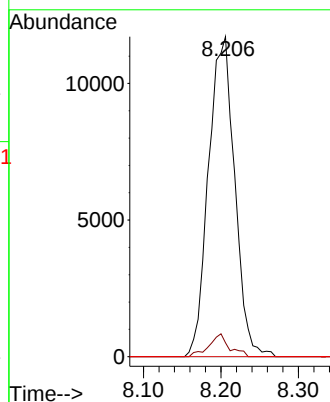
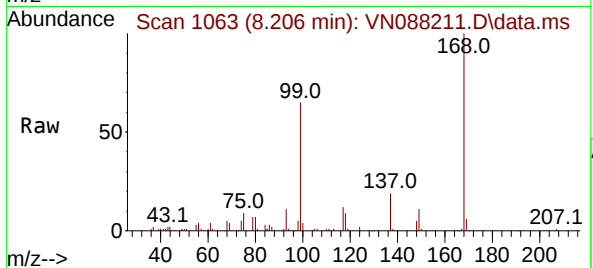




#38
Carbon Tetrachloride
Concen: 5.202 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.136 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

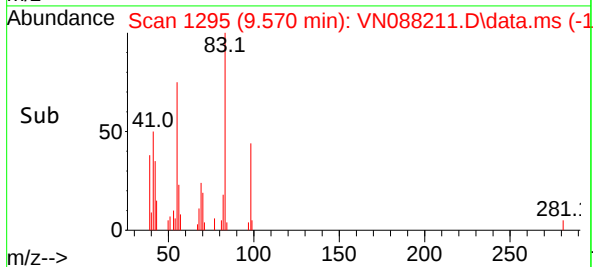
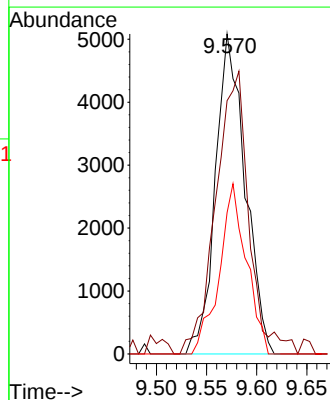
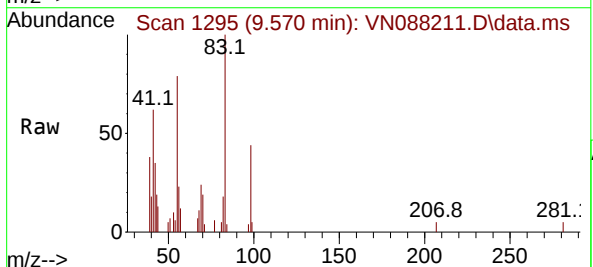
Instrument :
MSVOA_N
ClientSampleId :
2052

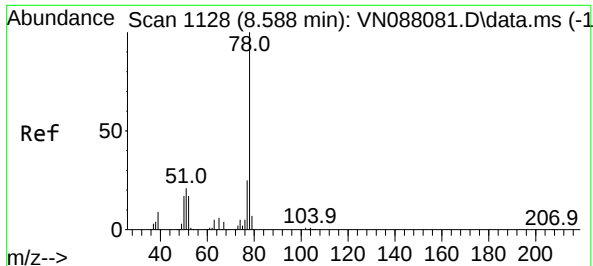
Tgt Ion: 117 Resp: 27558
Ion Ratio Lower Upper
117 100
119 4.4 79.0 118.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 1.592 ug/l
RT: 9.570 min Scan# 1295
Delta R.T. -0.012 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 83 Resp: 10498
Ion Ratio Lower Upper
83 100
55 79.1 64.6 96.8
98 44.2 38.4 57.6

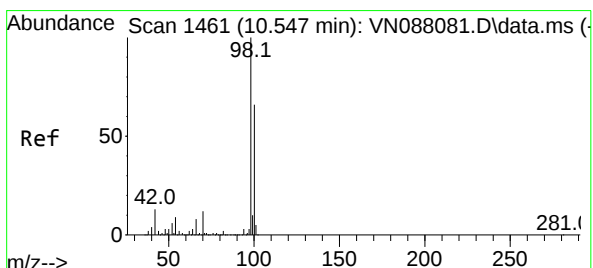
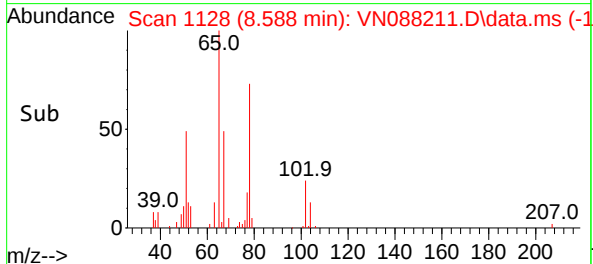
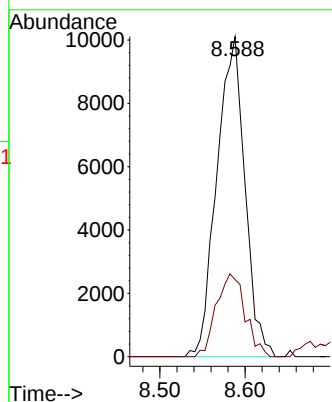
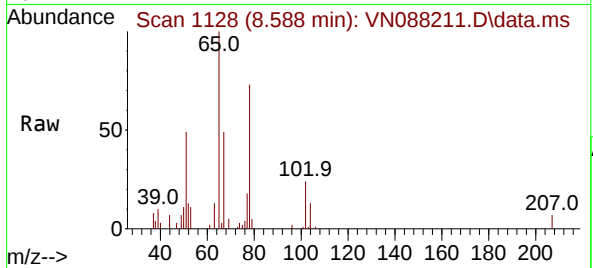




#40
Benzene
Concen: 1.481 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

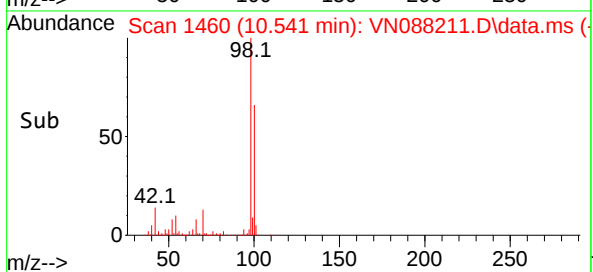
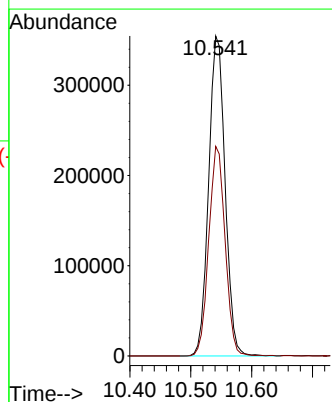
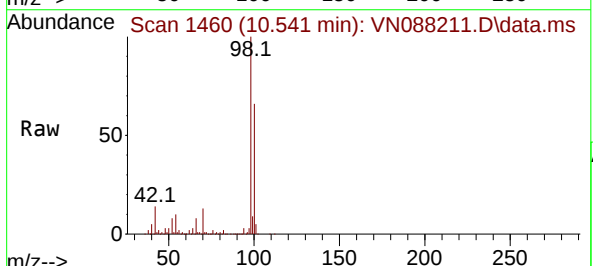
Instrument :
MSVOA_N
ClientSampleId :
2052

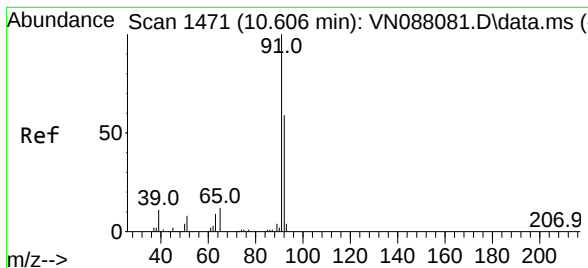
Tgt Ion: 78 Resp: 23131
Ion Ratio Lower Upper
78 100
77 24.1 19.7 29.5



#50
Toluene-d8
Concen: 49.137 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 98 Resp: 665050
Ion Ratio Lower Upper
98 100
100 65.1 52.8 79.2





#52

Toluene

Concen: 5.372 ug/l

RT: 10.606 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

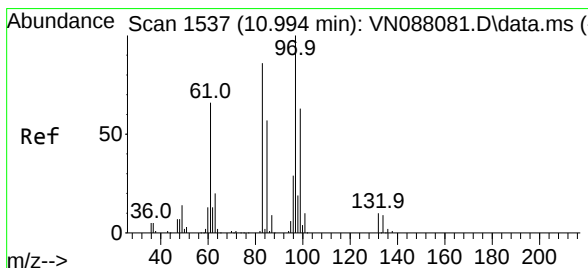
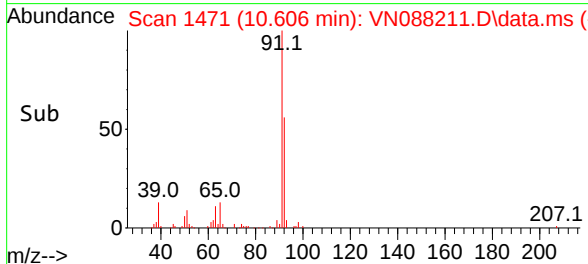
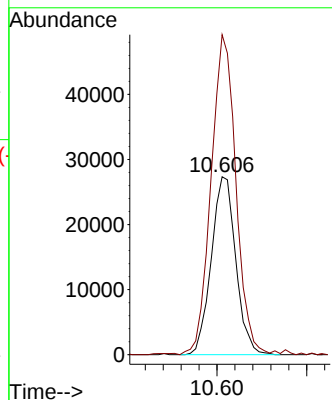
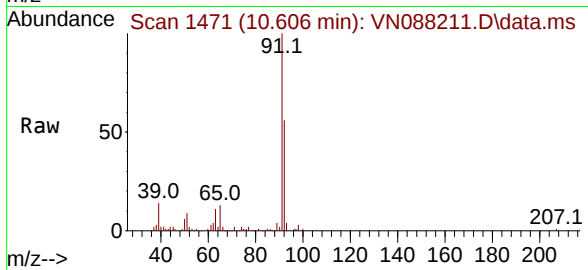
2052

Tgt Ion: 92 Resp: 51737

Ion Ratio Lower Upper

92 100

91 182.2 140.4 210.6



#55

1,1,2-Trichloroethane

Concen: 0.376 ug/l

RT: 10.976 min Scan# 1534

Delta R.T. -0.018 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Tgt Ion: 97 Resp: 1374

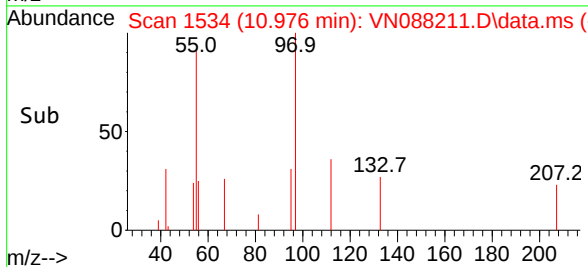
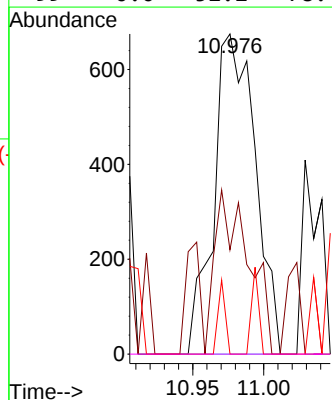
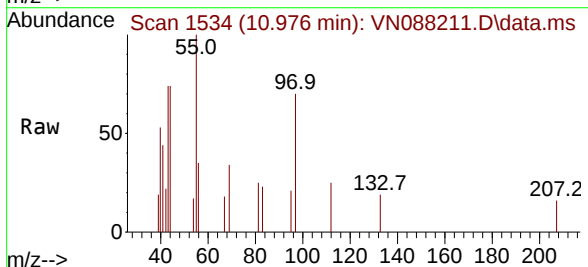
Ion Ratio Lower Upper

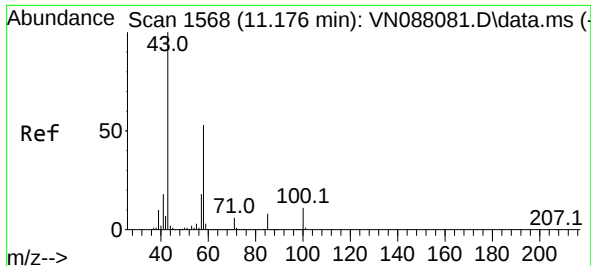
97 100

83 32.6 68.2 102.4#

85 0.0 45.5 68.3#

99 0.0 52.2 78.4#

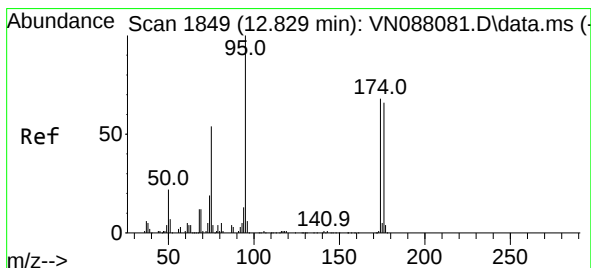
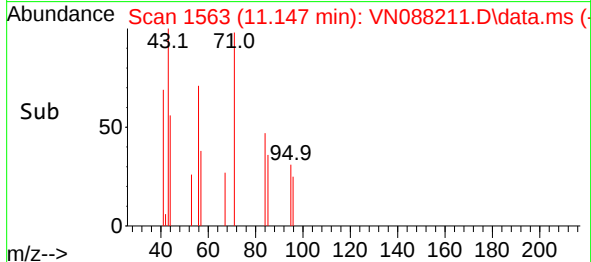
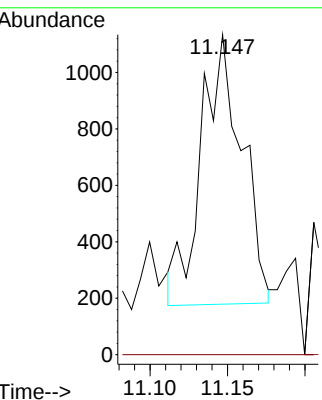
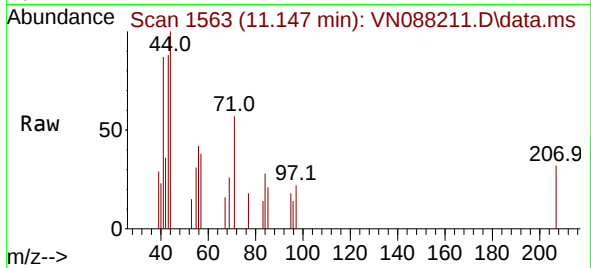




#59
2-Hexanone
Concen: 0.437 ug/l
RT: 11.147 min Scan# 111
Delta R.T. -0.030 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

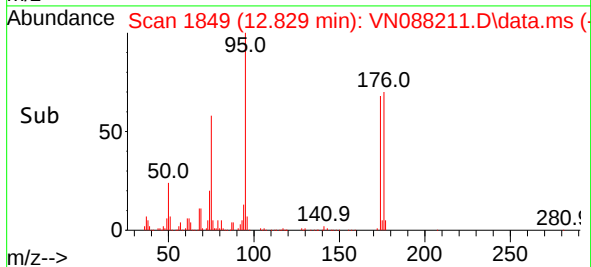
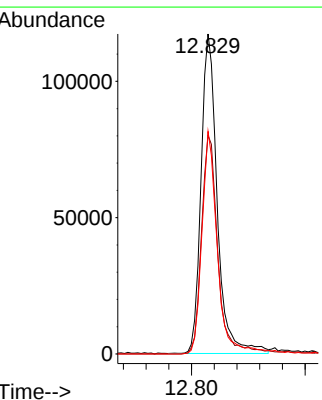
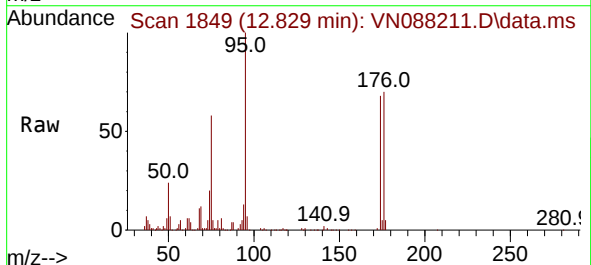
Instrument :
MSVOA_N
ClientSampleId :
2052

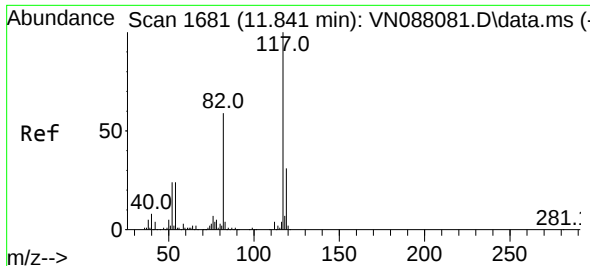
Tgt Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 48.456 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 95 Resp: 231615
Ion Ratio Lower Upper
95 100
174 69.2 0.0 138.4
176 67.3 0.0 132.6

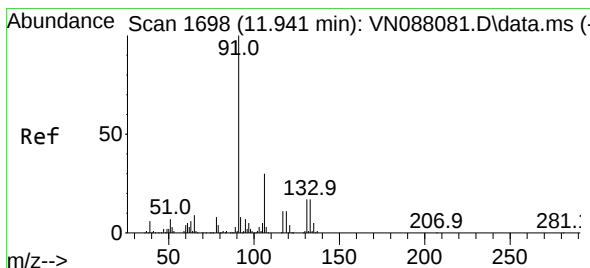
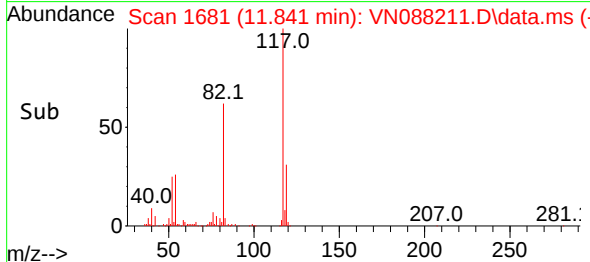
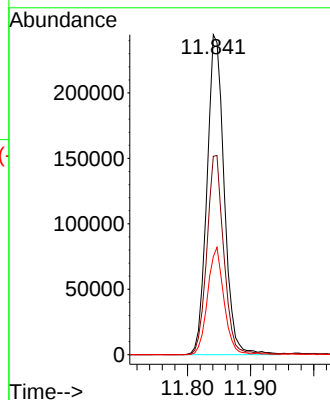
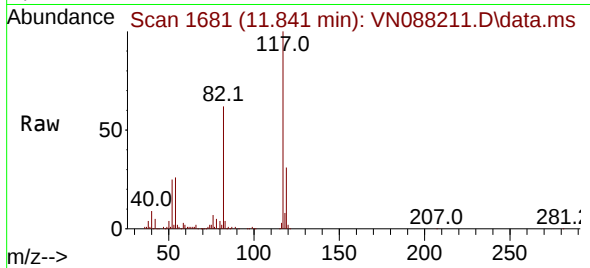




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

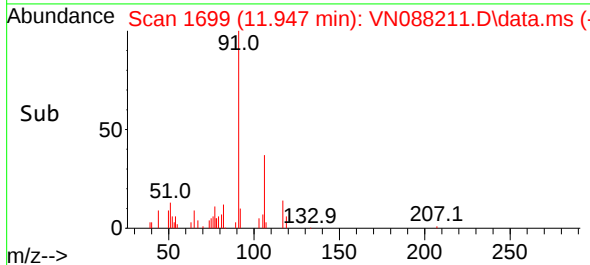
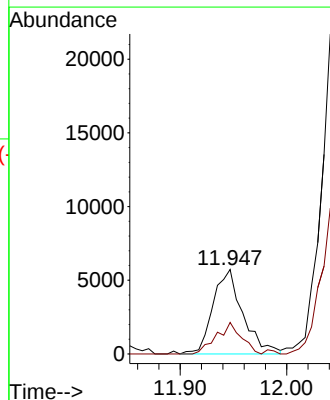
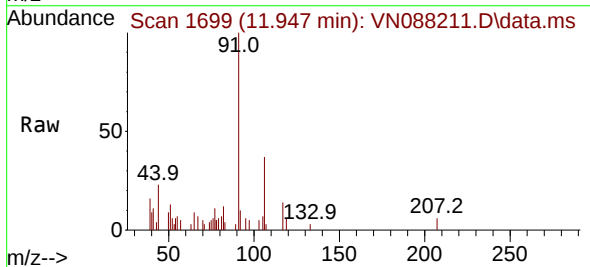
Instrument :
MSVOA_N
ClientSampleId :
2052

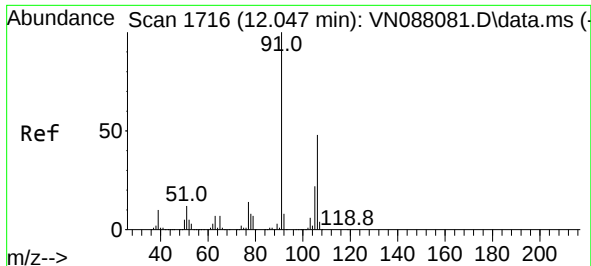
Tgt Ion:117 Resp: 462937
Ion Ratio Lower Upper
117 100
82 61.9 47.4 71.2
119 30.7 24.3 36.5



#67
Ethyl Benzene
Concen: 0.604 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 91 Resp: 11152
Ion Ratio Lower Upper
91 100
106 37.4 24.1 36.1#

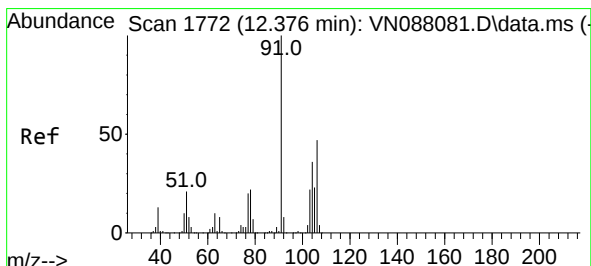
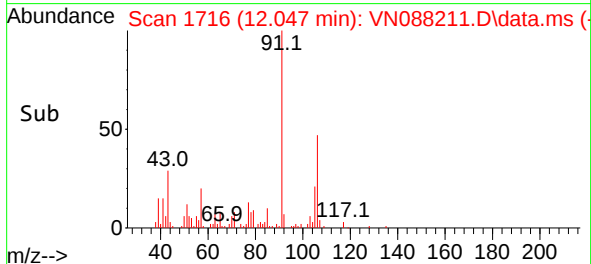
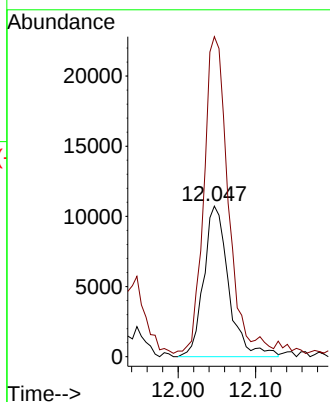
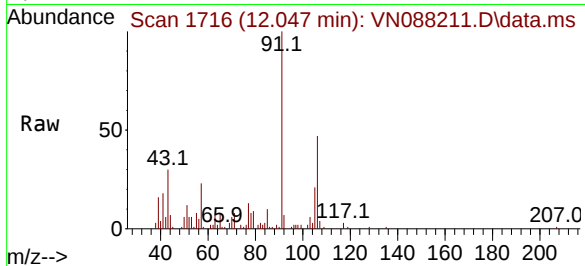




#68
m/p-Xylenes
Concen: 3.469 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

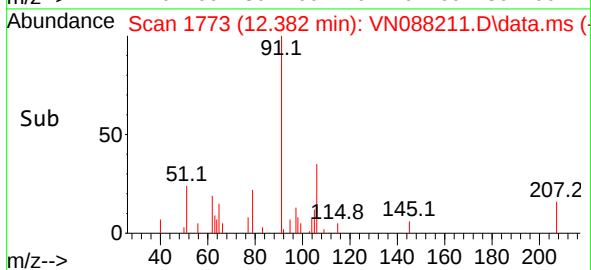
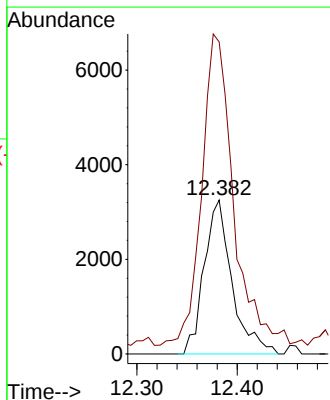
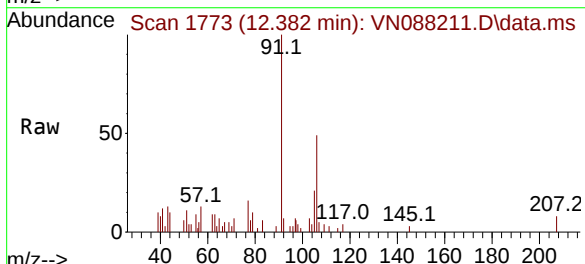
Instrument :
MSVOA_N
ClientSampleId :
2052

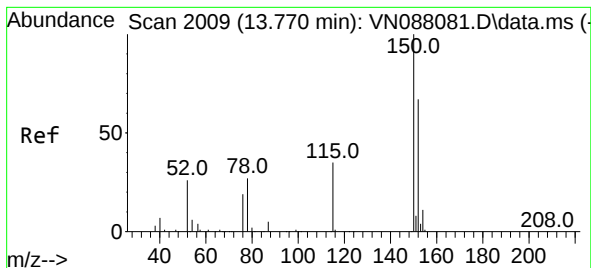
Tgt Ion:106 Resp: 23986
Ion Ratio Lower Upper
106 100
91 207.5 169.3 253.9



#69
o-Xylene
Concen: 0.958 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion:106 Resp: 6278
Ion Ratio Lower Upper
106 100
91 229.4 111.4 334.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

2052

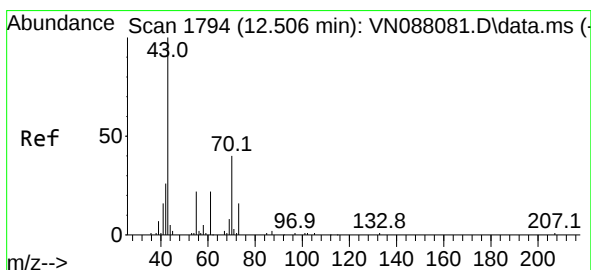
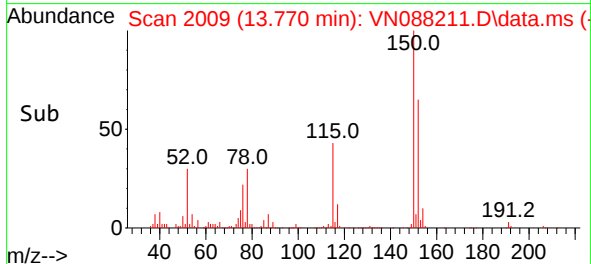
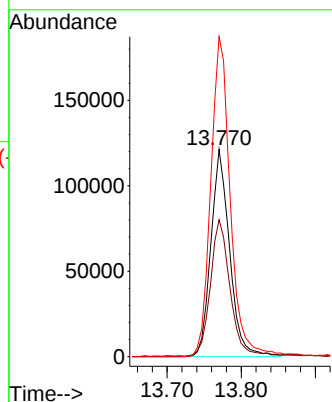
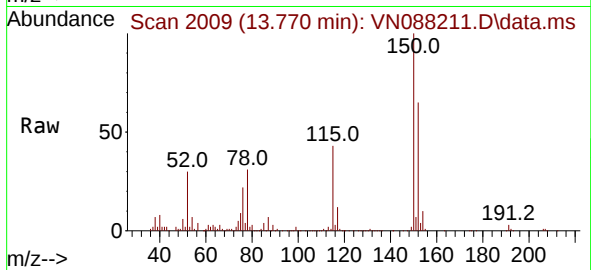
Tgt Ion:152 Resp: 214096

Ion Ratio Lower Upper

152 100

115 68.8 32.3 96.8

150 161.2 0.0 351.0



#74

N-ethyl acetate

Concen: 0.299 ug/l

RT: 12.535 min Scan# 1799

Delta R.T. 0.035 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Tgt Ion: 43 Resp: 1400

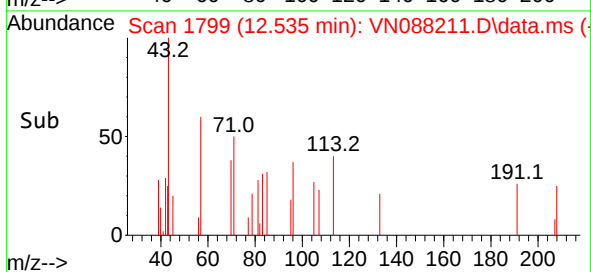
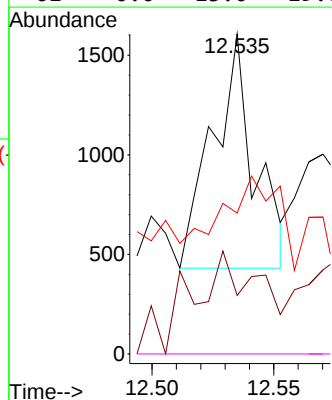
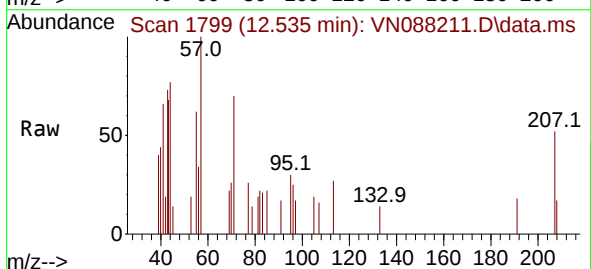
Ion Ratio Lower Upper

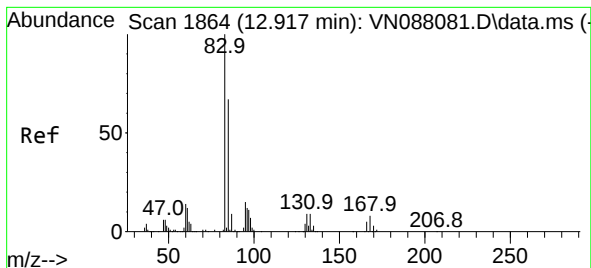
43 100

70 74.7 27.6 41.4#

55 80.3 13.0 19.6#

61 0.0 13.0 19.6#

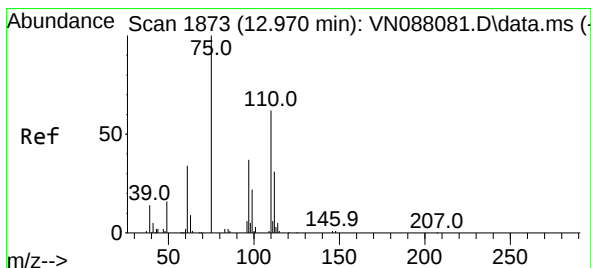
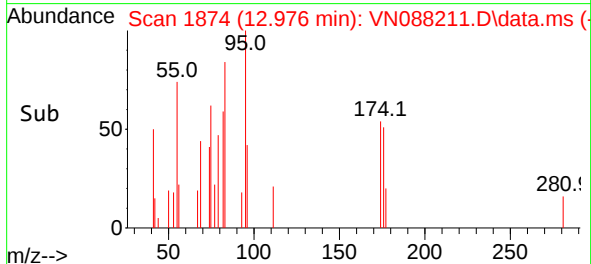
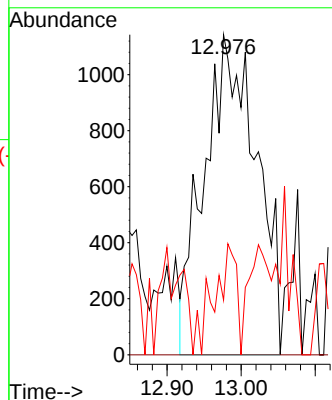
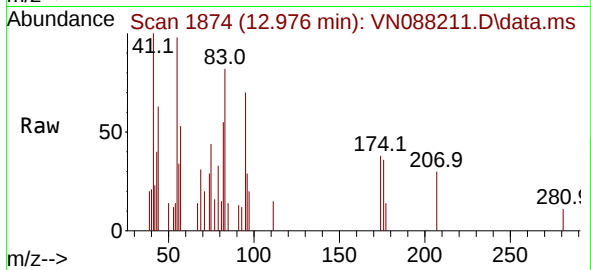




#75
1,1,2,2-Tetrachloroethane
Concen: 1.090 ug/l
RT: 12.976 min Scan# 1849
Delta R.T. 0.059 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

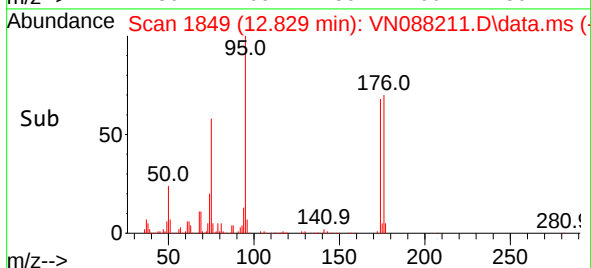
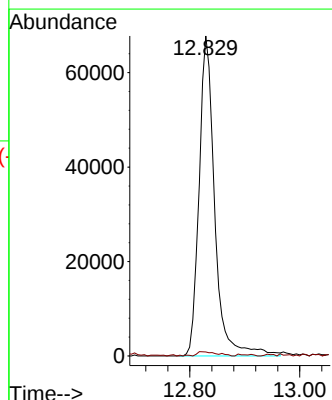
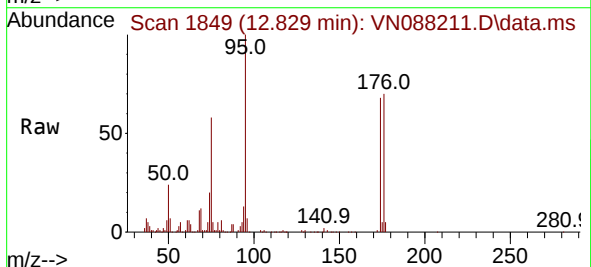
Instrument :
MSVOA_N
ClientSampleId :
2052

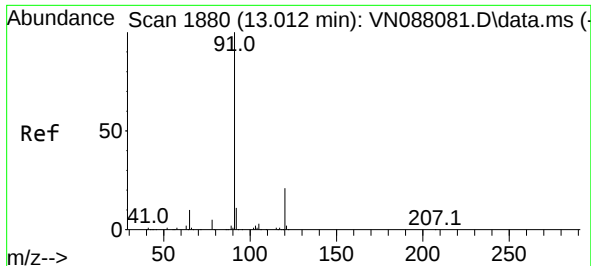
Tgt Ion: 83 Resp: 5604
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 9.8 32.1 96.3#



#76
1,2,3-Trichloropropane
Concen: 27.391 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 75 Resp: 134078
Ion Ratio Lower Upper
75 100
77 1.7 89.1 267.4#

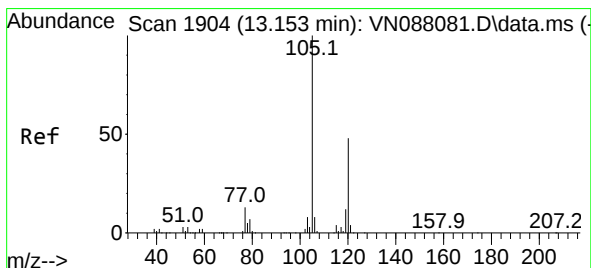
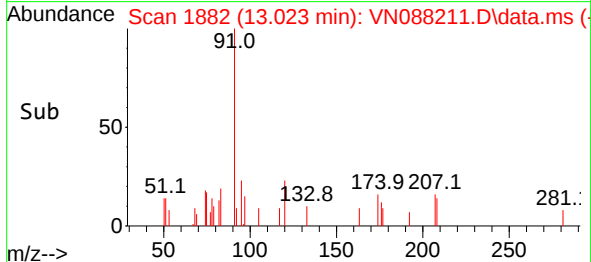
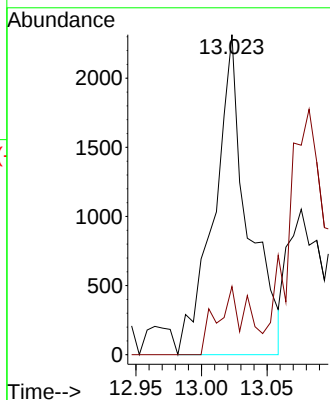
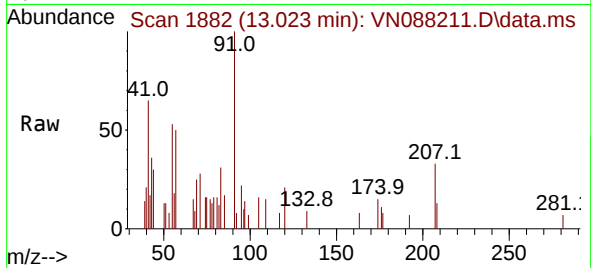




#78
n-propylbenzene
Concen: 0.204 ug/l
RT: 13.023 min Scan# 1882
Delta R.T. 0.011 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

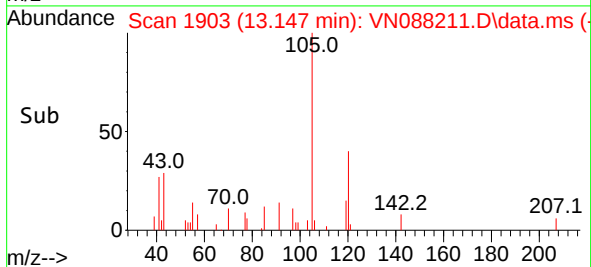
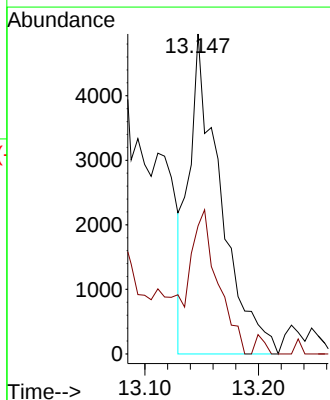
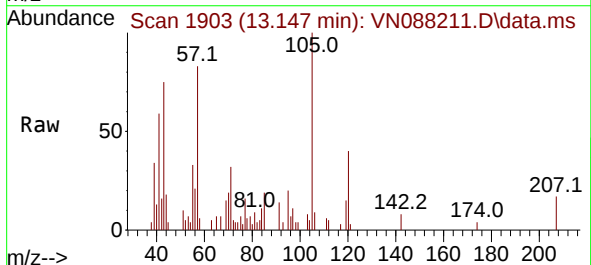
Instrument :
MSVOA_N
ClientSampleId :
2052

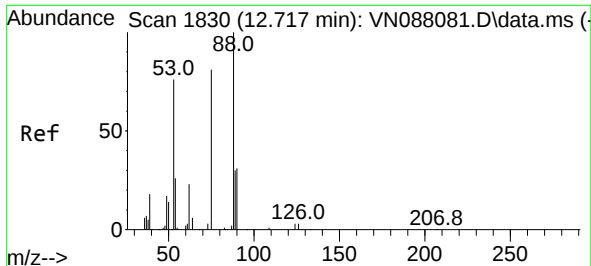
Tgt Ion: 91 Resp: 4119
Ion Ratio Lower Upper
91 100
120 19.5 10.7 32.1



#80
1,3,5-Trimethylbenzene
Concen: 0.694 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Tgt Ion: 105 Resp: 9514
Ion Ratio Lower Upper
105 100
120 37.0 23.2 69.6

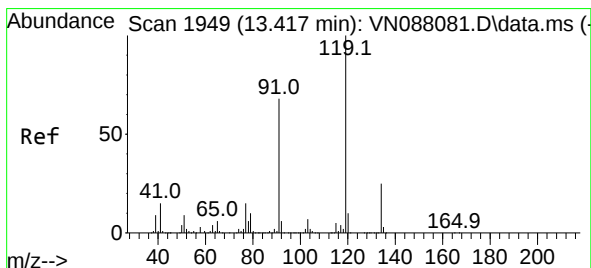
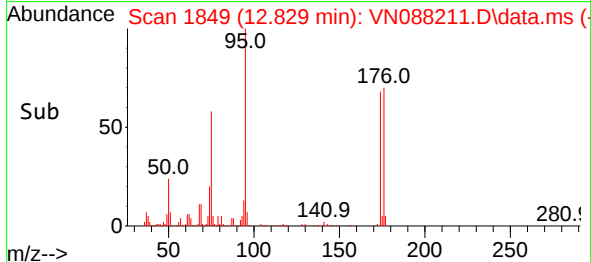
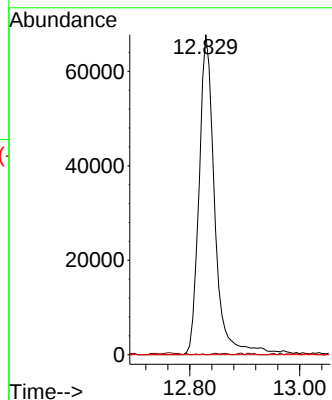
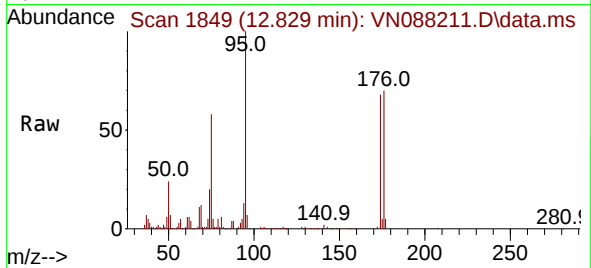




#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.409 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.111 min
 Lab File: VN088211.D
 Acq: 06 Nov 2025 16:54

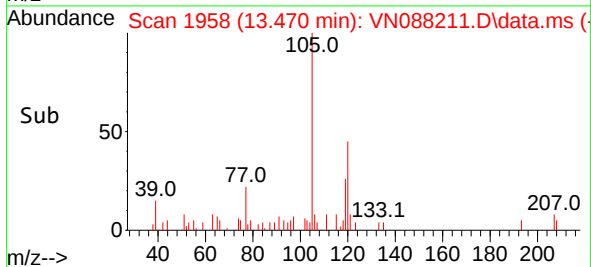
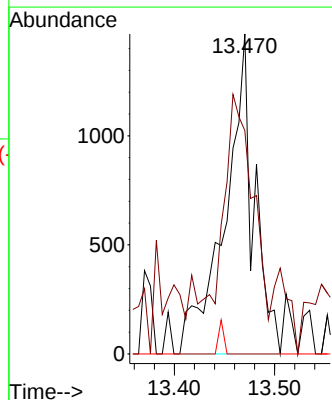
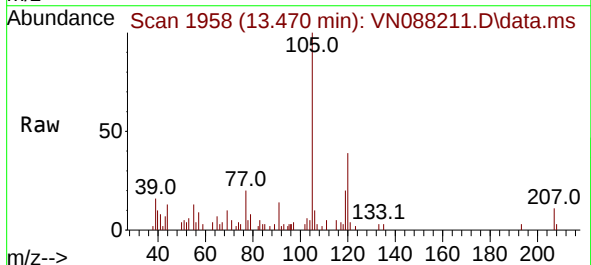
Instrument :
 MSVOA_N
 ClientSampleId :
 2052

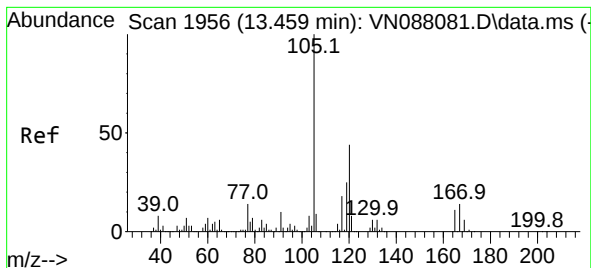
Tgt Ion: 75 Resp: 134078
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.0 35.6 53.4#



#83
 tert-Butylbenzene
 Concen: 0.239 ug/l
 RT: 13.470 min Scan# 1958
 Delta R.T. 0.053 min
 Lab File: VN088211.D
 Acq: 06 Nov 2025 16:54

Tgt Ion: 119 Resp: 2927
 Ion Ratio Lower Upper
 119 100
 91 66.1 35.0 105.0
 134 0.0 12.6 37.8#





#84

1,2,4-Trimethylbenzene

Concen: 1.284 ug/l

RT: 13.464 min Scan# 1956

Delta R.T. 0.006 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

Instrument :

MSVOA_N

ClientSampleId :

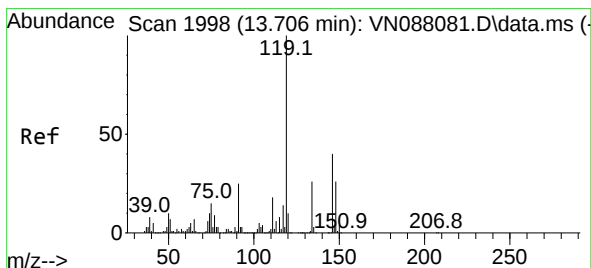
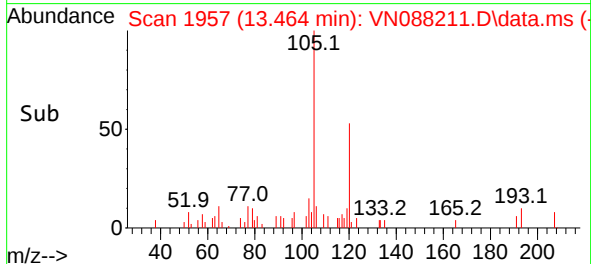
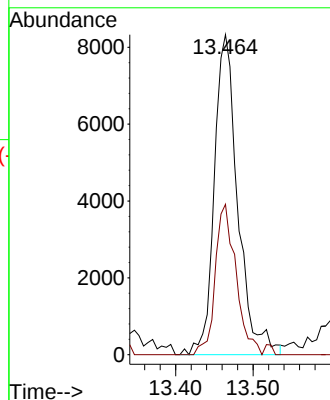
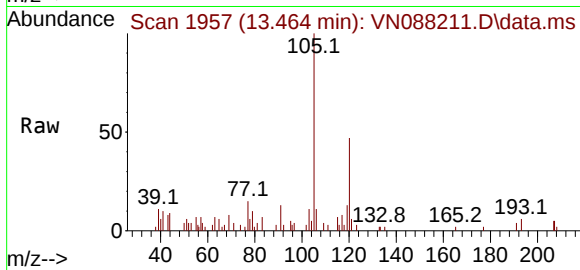
2052

Tgt Ion:105 Resp: 17617

Ion Ratio Lower Upper

105 100

120 41.5 22.0 66.0



#86

p-Isopropyltoluene

Concen: 0.425 ug/l

RT: 13.705 min Scan# 1998

Delta R.T. -0.000 min

Lab File: VN088211.D

Acq: 06 Nov 2025 16:54

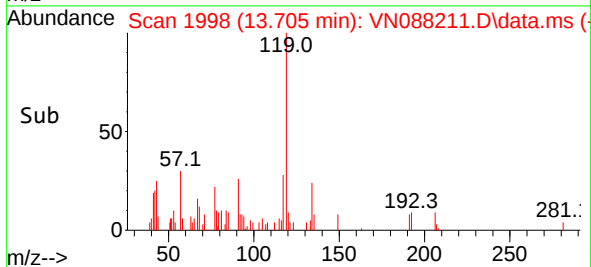
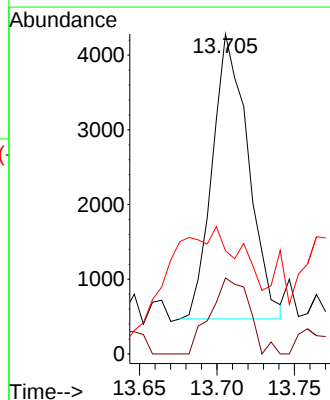
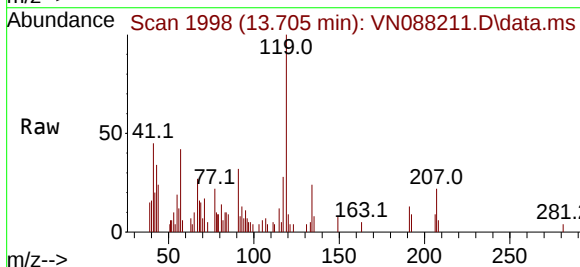
Tgt Ion:119 Resp: 6141

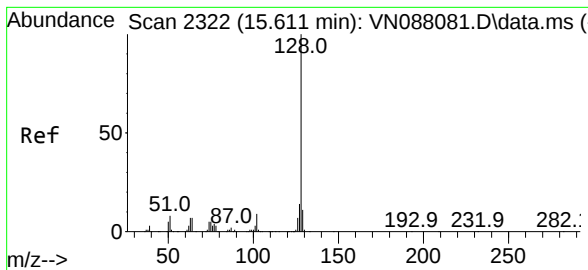
Ion Ratio Lower Upper

119 100

134 28.8 12.7 38.0

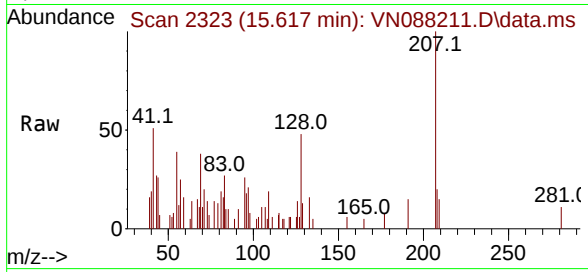
91 104.6 12.5 37.5#





#95
Naphthalene
Concen: 0.254 ug/l
RT: 15.617 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088211.D
Acq: 06 Nov 2025 16:54

Instrument :
MSVOA_N
ClientSampleId :
2052



Tgt Ion:	128	Resp:	3606
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.6	15.8
129	16.7	8.6	12.8#

