

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088527.D
 Acq On : 16 Dec 2025 14:46
 Operator : JC\MD
 Sample : Q3852-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AI COVE 11 12"

Quant Time: Dec 17 01:42:19 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)

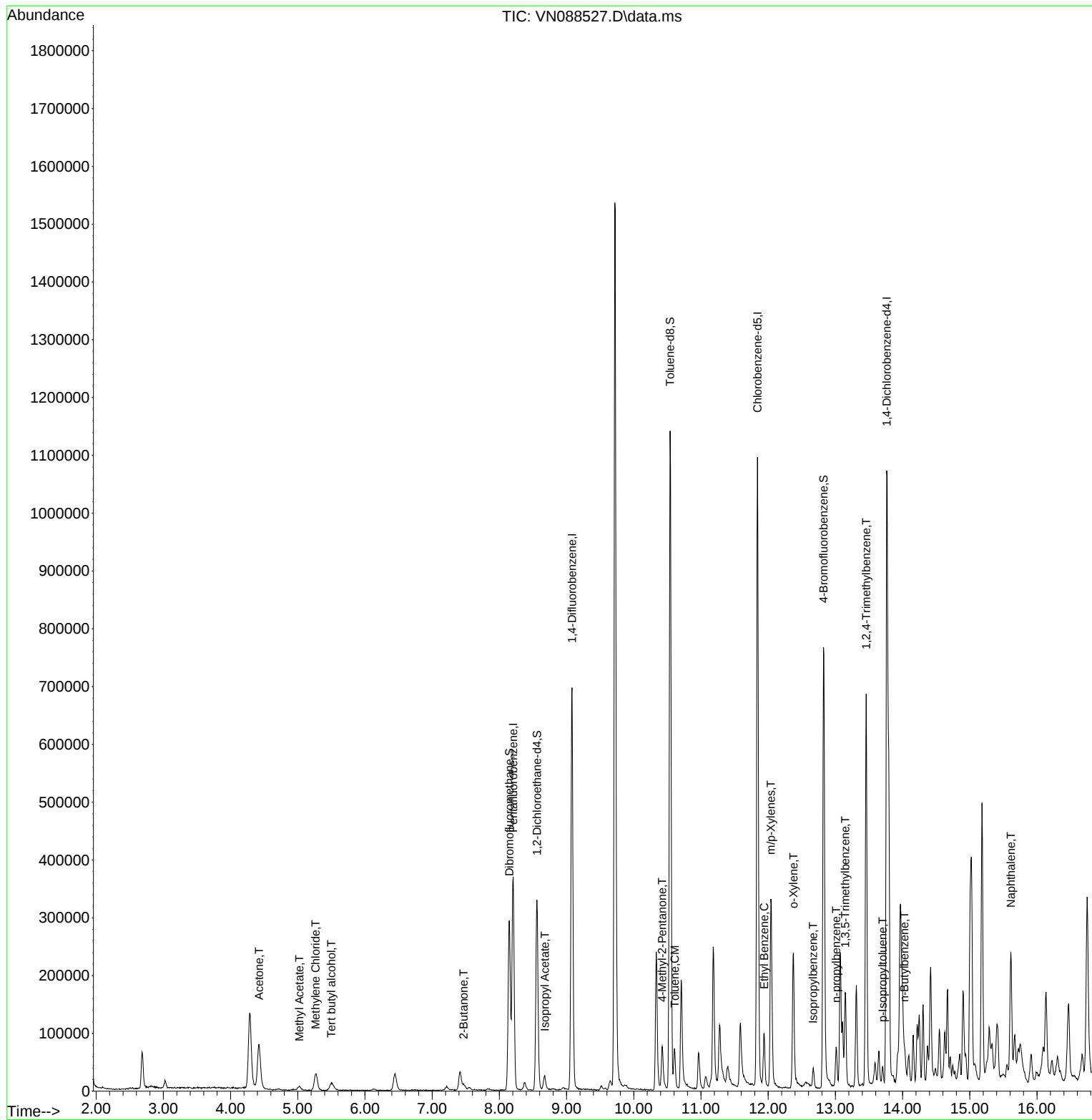
Internal Standards						
1) Pentafluorobenzene	8.206	168	249617	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	569222	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	597350	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	291009	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	281623	59.891	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery	= 119.780%		
35) Dibromofluoromethane	8.147	113	211688	53.664	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery	= 107.320%		
50) Toluene-d8	10.541	98	777501	52.973	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery	= 105.940%		
62) 4-Bromofluorobenzene	12.823	95	295450	58.667	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery	= 117.340%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.500	59	21876	29.139	ug/l #	88
16) Acetone	4.424	43	162663	95.651	ug/l	96
18) Methyl Acetate	5.024	43	15452	3.052	ug/l	94
20) Methylene Chloride	5.265	84	23516	6.463	ug/l #	85
25) 2-Butanone	7.471	43	14190m	5.190	ug/l	
43) Isopropyl Acetate	8.677	43	30997	2.534	ug/l	93
51) 4-Methyl-2-Pentanone	10.424	43	63767m	8.845	ug/l	
52) Toluene	10.612	92	28275	2.741	ug/l	99
67) Ethyl Benzene	11.941	91	65485	2.792	ug/l	94
68) m/p-Xylenes	12.041	106	101013	11.617	ug/l	100
69) o-Xylene	12.376	106	66850	8.064	ug/l	100
73) Isopropylbenzene	12.670	105	22967	1.067	ug/l	94
78) n-propylbenzene	13.012	91	55354	2.103	ug/l	95
80) 1,3,5-Trimethylbenzene	13.147	105	96348	5.404	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	384345	21.688	ug/l	98
86) p-Isopropyltoluene	13.706	119	18336	1.027	ug/l	98
89) n-Butylbenzene	14.029	91	26899	1.552	ug/l #	79
95) Naphthalene	15.611	128	213265	11.485	ug/l	98

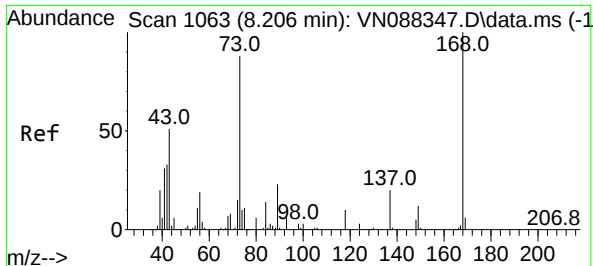
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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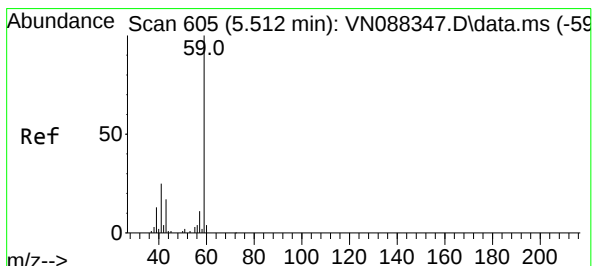
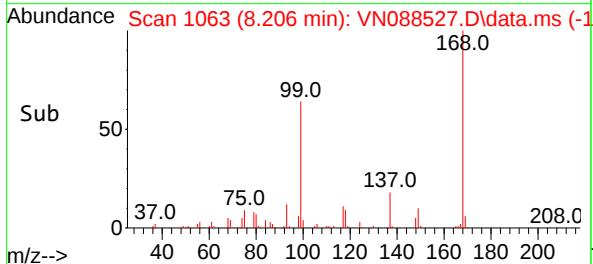
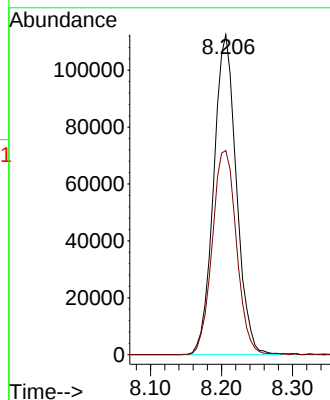
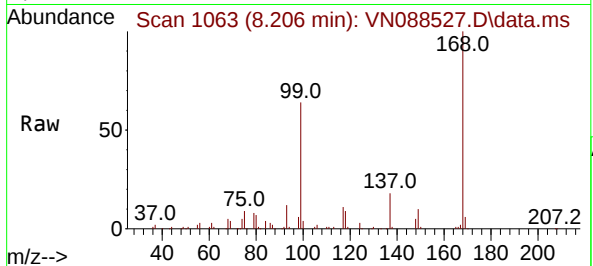




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

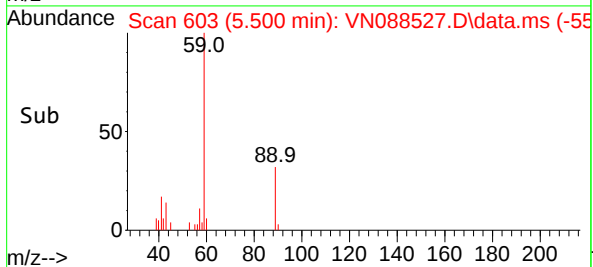
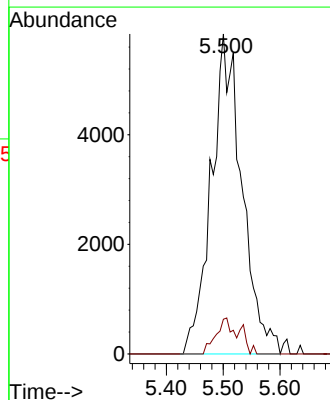
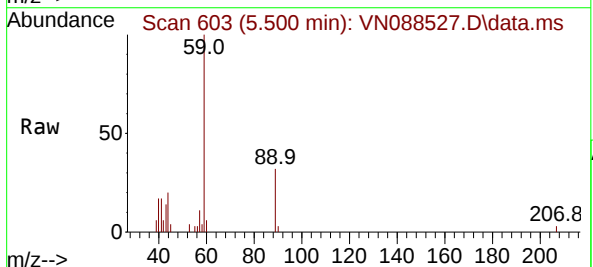
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

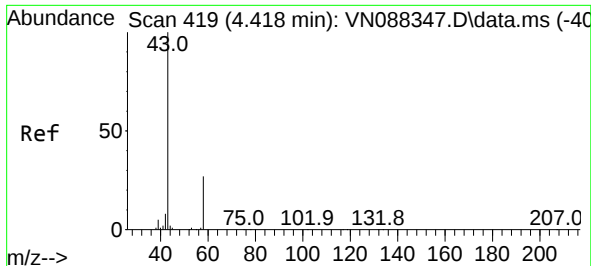
Tgt Ion:168 Resp: 249617
Ion Ratio Lower Upper
168 100
99 63.8 57.1 85.7



#11
Tert butyl alcohol
Concen: 29.139 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion: 59 Resp: 21876
Ion Ratio Lower Upper
59 100
57 6.2 8.5 12.7#

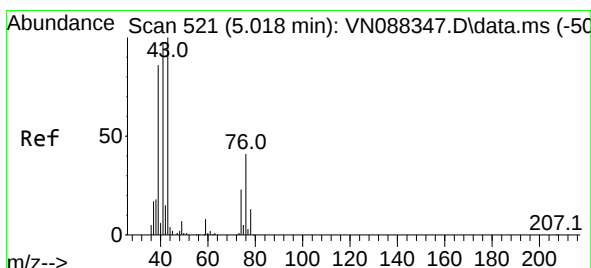
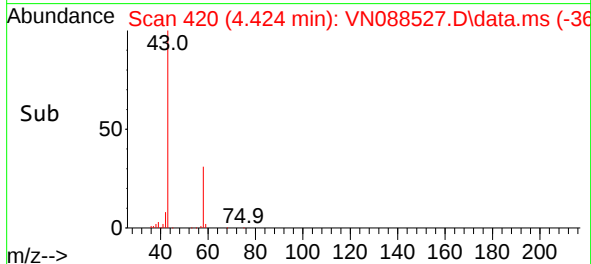
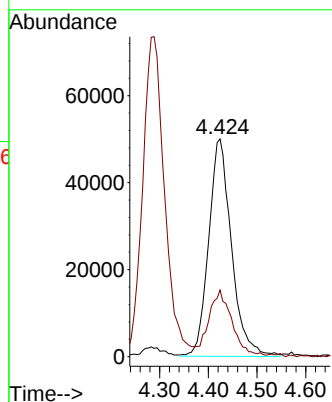
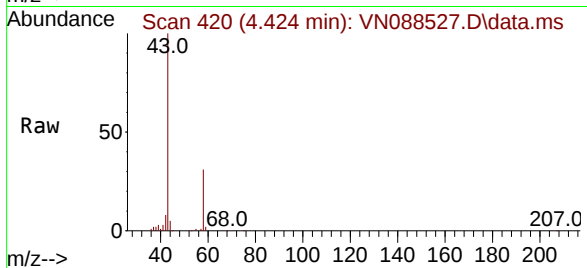




#16
Acetone
Concen: 95.651 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

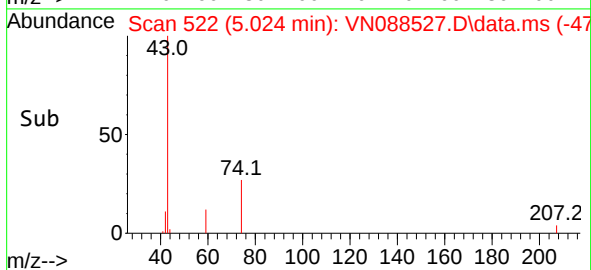
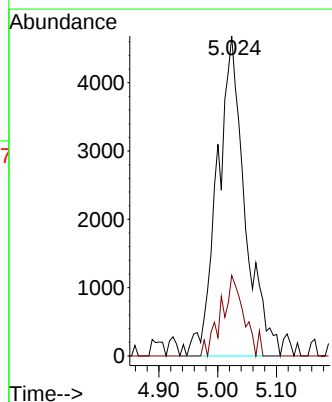
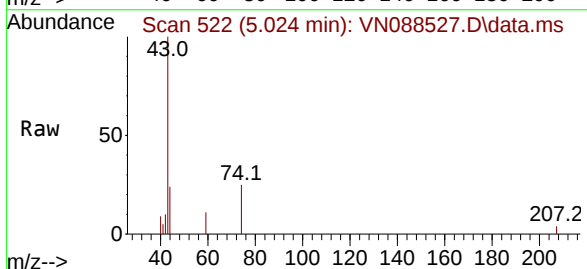
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

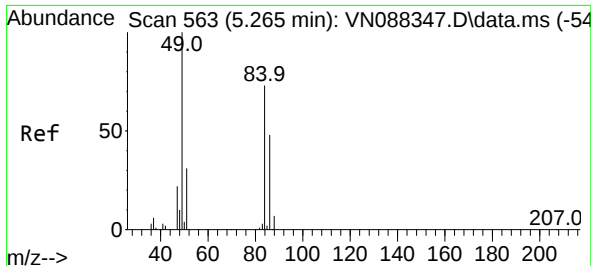
Tgt Ion: 43 Resp: 162663
Ion Ratio Lower Upper
43 100
58 29.3 21.7 32.5



#18
Methyl Acetate
Concen: 3.052 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion: 43 Resp: 15452
Ion Ratio Lower Upper
43 100
74 19.6 17.9 26.9

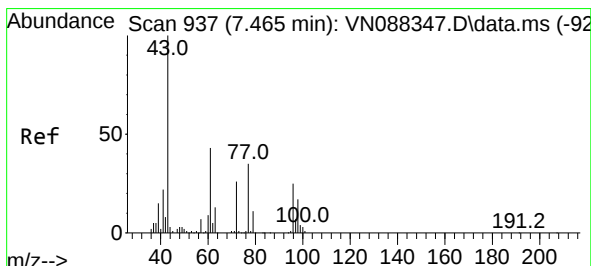
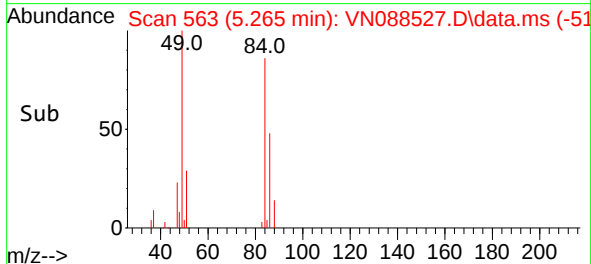
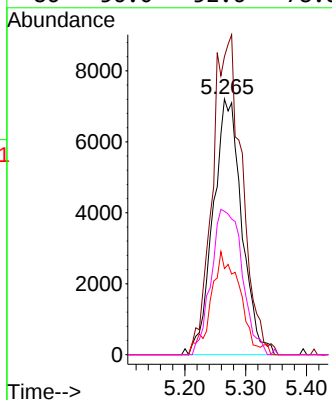
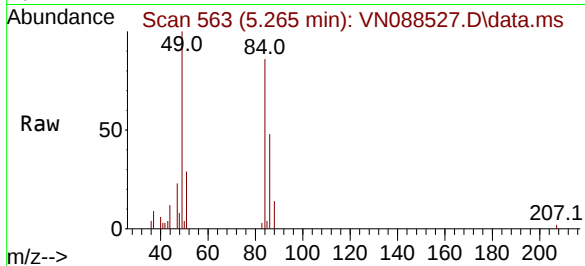




#20
Methylene Chloride
Concen: 6.463 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

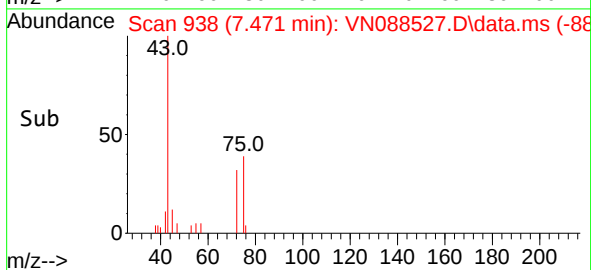
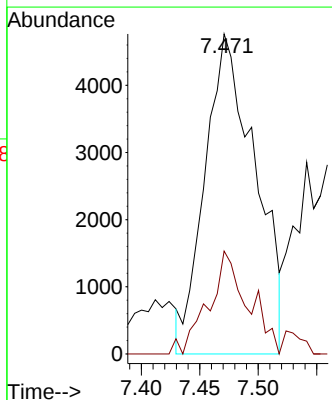
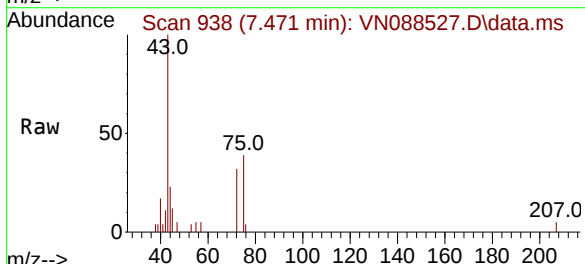
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

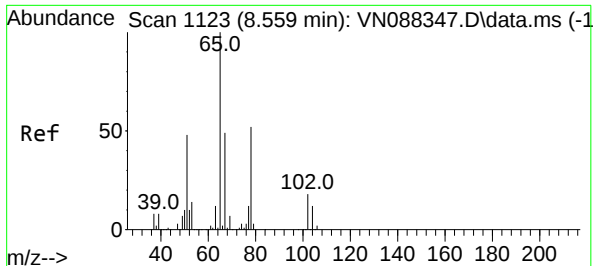
Tgt Ion:	84	Resp:	23516
Ion	Ratio	Lower	Upper
84	100		
49	116.6	110.2	165.2
51	33.7	34.1	51.1#
86	56.0	52.6	78.8



#25
2-Butanone
Concen: 5.190 ug/l m
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion:	43	Resp:	14190
Ion	Ratio	Lower	Upper
43	100		
72	32.2	20.5	30.7#





#33

1,2-Dichloroethane-d4

Concen: 59.891 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088527.D

Acq: 16 Dec 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

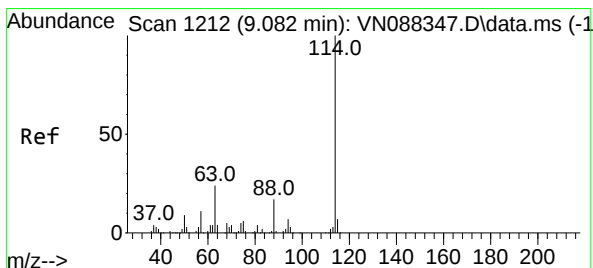
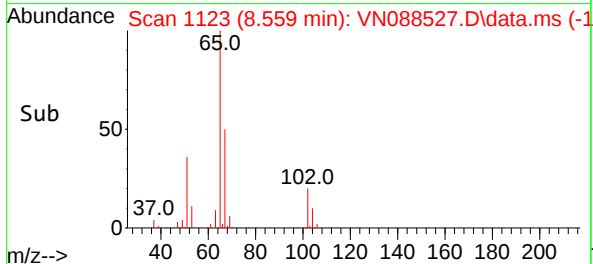
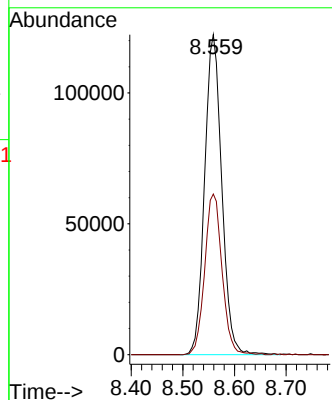
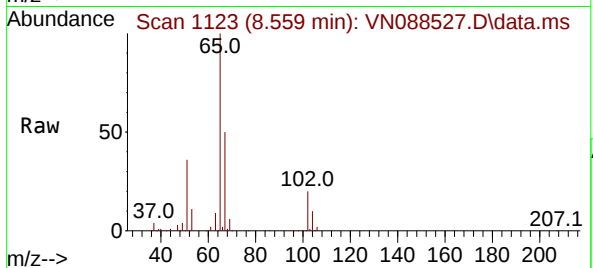
AI COVE 11 12"

Tgt Ion: 65 Resp: 281623

Ion Ratio Lower Upper

65 100

67 50.8 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: VN088527.D

Acq: 16 Dec 2025 14:46

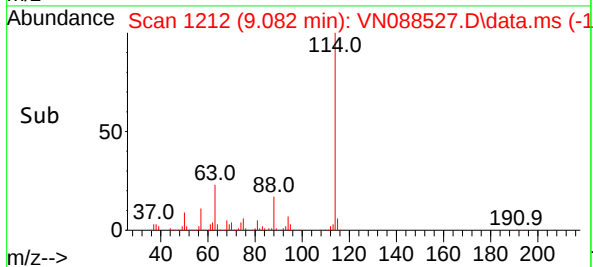
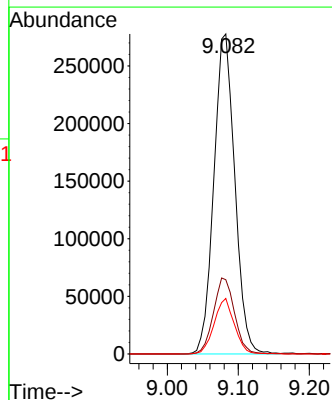
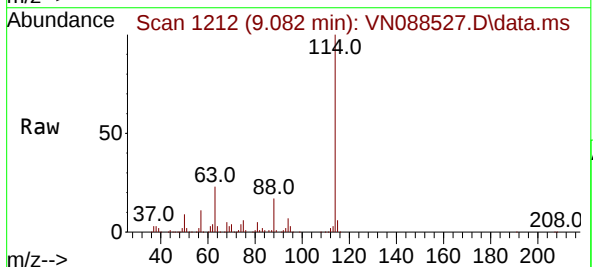
Tgt Ion: 114 Resp: 569222

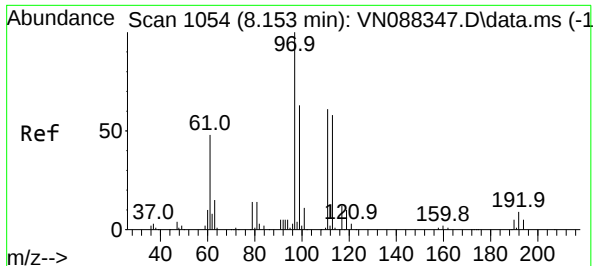
Ion Ratio Lower Upper

114 100

63 23.2 0.0 49.0

88 17.4 0.0 34.0





#35

Dibromofluoromethane

Concen: 53.664 ug/l

RT: 8.147 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VN088527.D

Acq: 16 Dec 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

AI COVE 11 12"

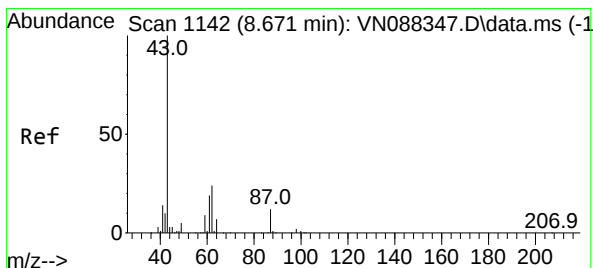
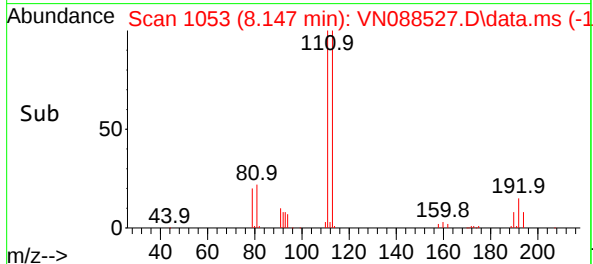
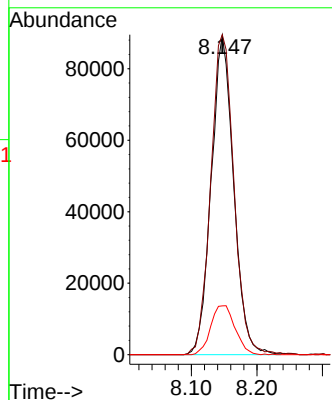
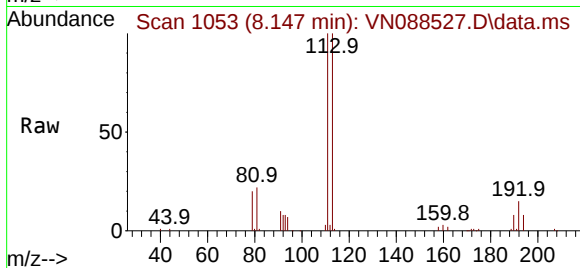
Tgt Ion:113 Resp: 211688

Ion Ratio Lower Upper

113 100

111 103.7 82.5 123.7

192 16.7 12.8 19.2



#43

Isopropyl Acetate

Concen: 2.534 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088527.D

Acq: 16 Dec 2025 14:46

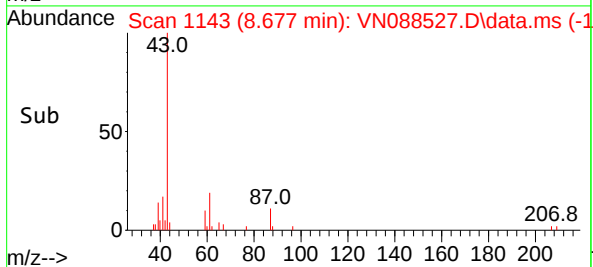
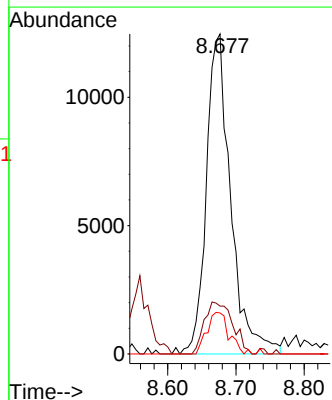
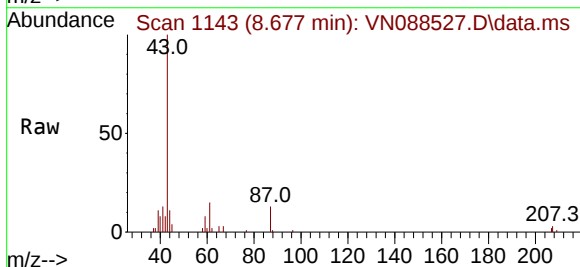
Tgt Ion: 43 Resp: 30997

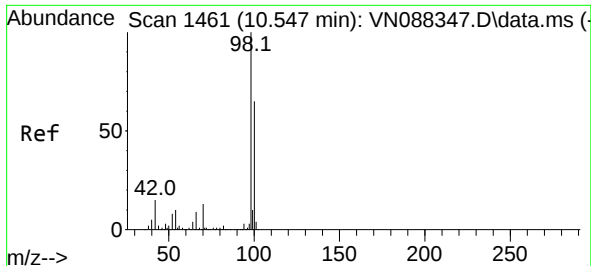
Ion Ratio Lower Upper

43 100

61 18.9 18.7 28.1

87 11.8 9.1 13.7

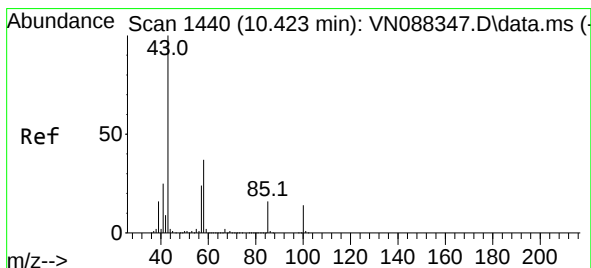
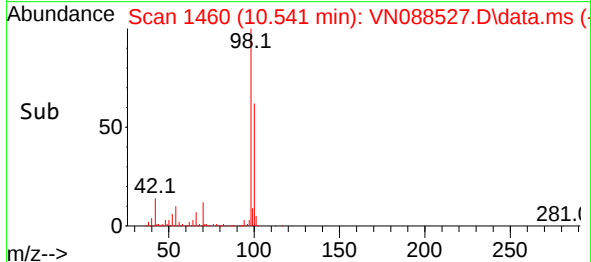
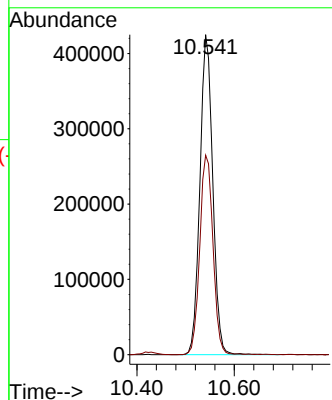
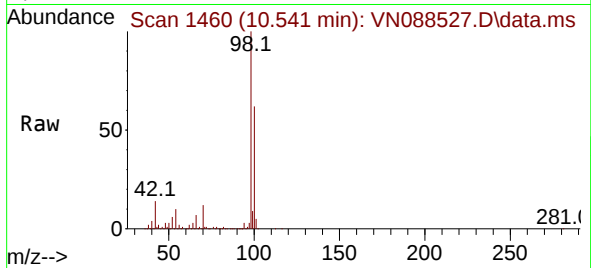




#50
Toluene-d8
Concen: 52.973 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

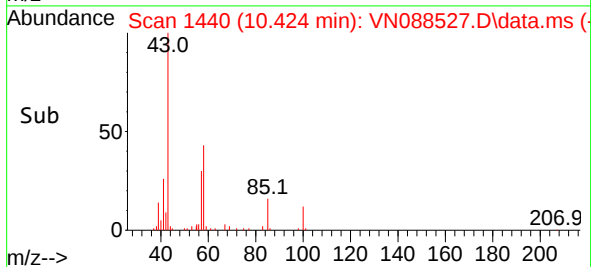
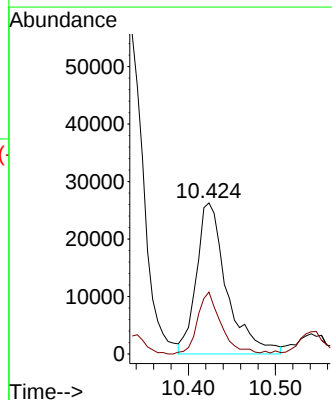
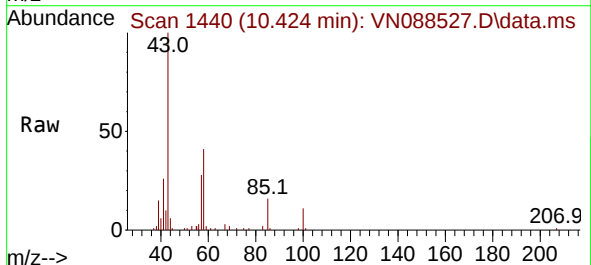
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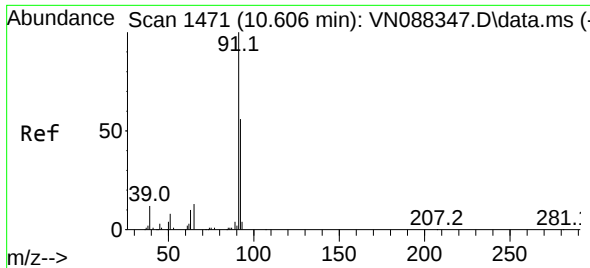
Tgt Ion: 98 Resp: 777501
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 8.845 ug/l m
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion: 43 Resp: 63767
Ion Ratio Lower Upper
43 100
58 0.0 29.1 43.7#

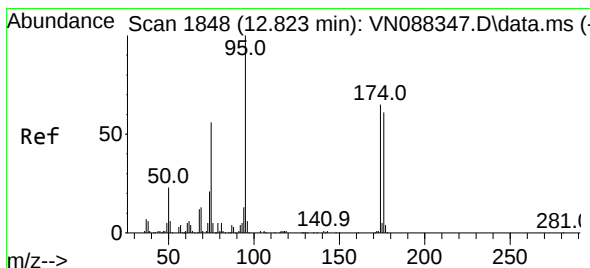
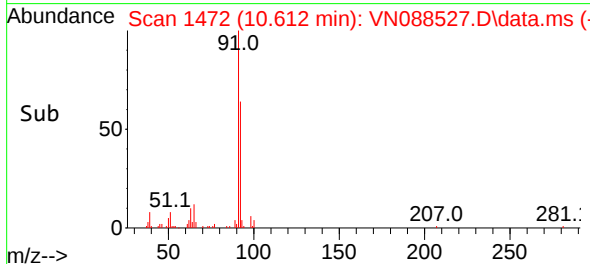
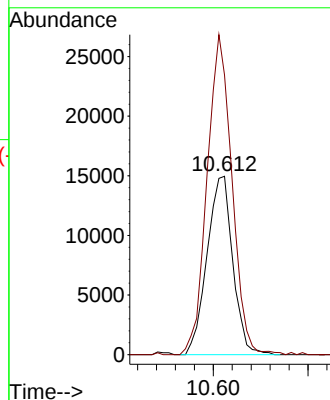
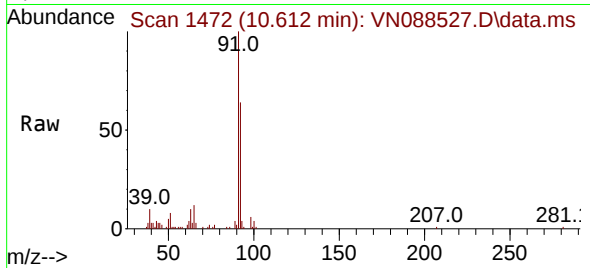




#52
Toluene
Concen: 2.741 ug/l
RT: 10.612 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

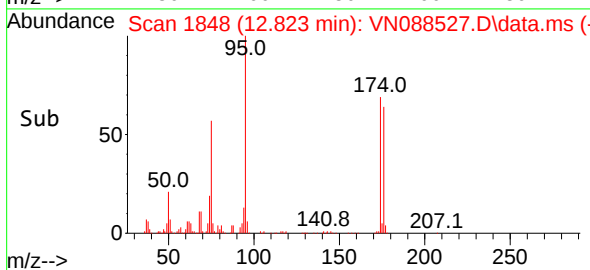
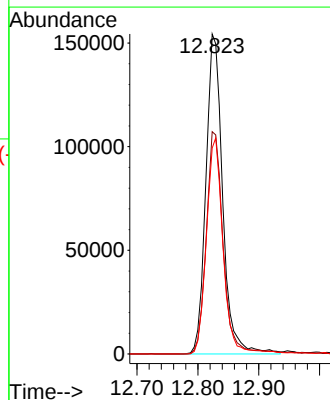
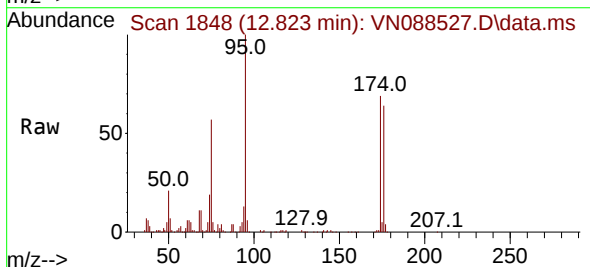
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

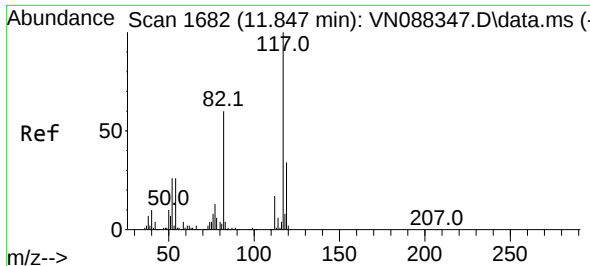
Tgt Ion: 92 Resp: 28275
Ion Ratio Lower Upper
92 100
91 173.2 140.2 210.2



#62
4-Bromofluorobenzene
Concen: 58.667 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion: 95 Resp: 295450
Ion Ratio Lower Upper
95 100
174 70.6 0.0 139.0
176 67.2 0.0 132.4

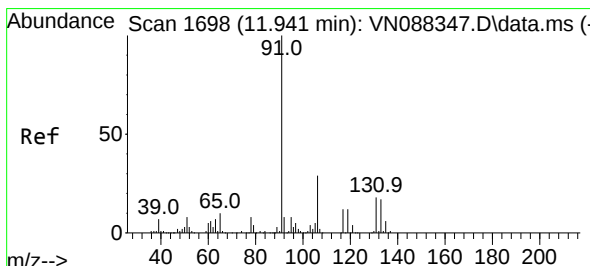
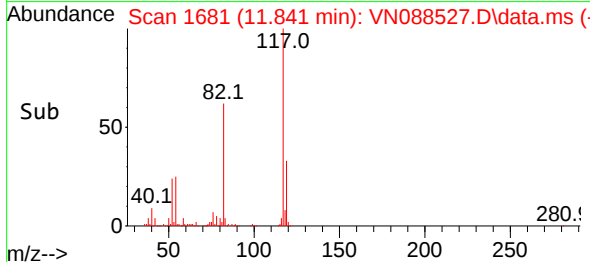
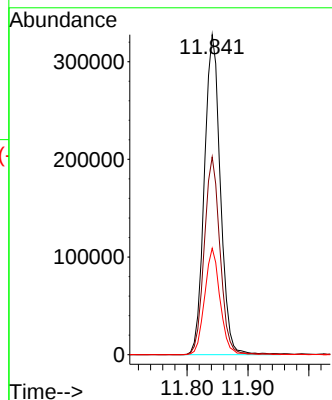
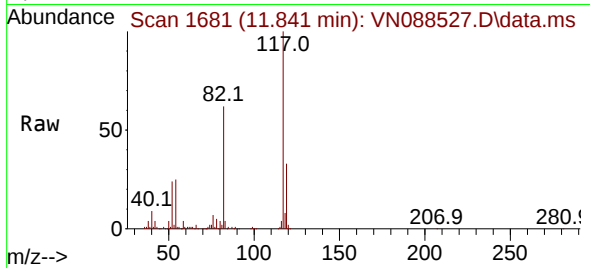




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

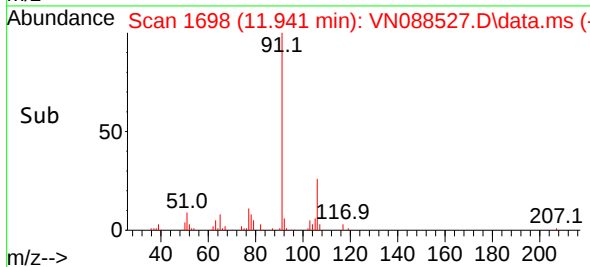
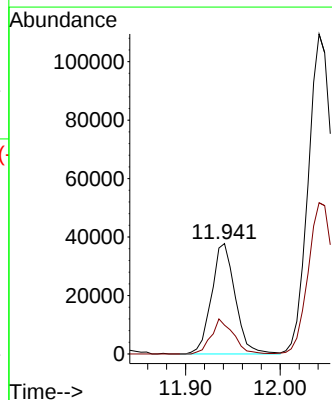
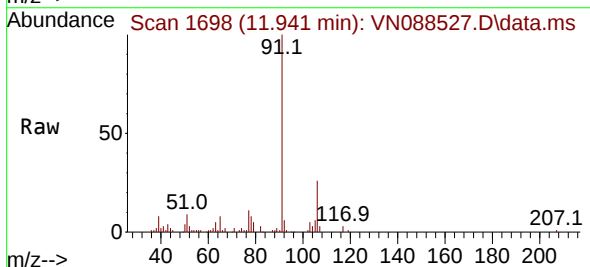
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

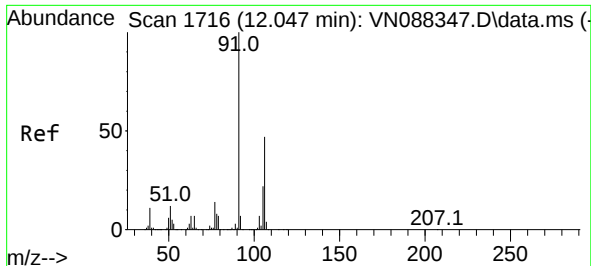
Tgt Ion:117 Resp: 597350
Ion Ratio Lower Upper
117 100
82 61.8 47.8 71.8
119 33.3 26.9 40.3



#67
Ethyl Benzene
Concen: 2.792 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion: 91 Resp: 65485
Ion Ratio Lower Upper
91 100
106 26.1 23.6 35.4

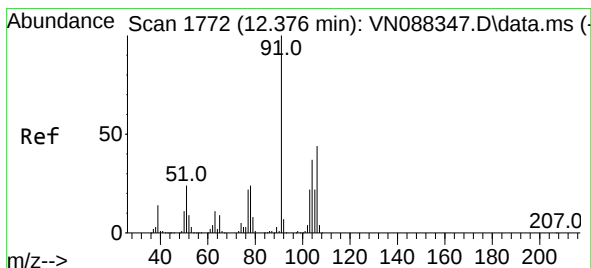
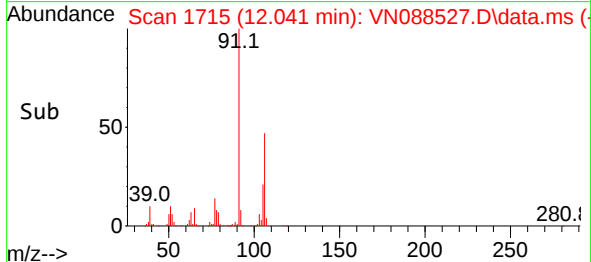
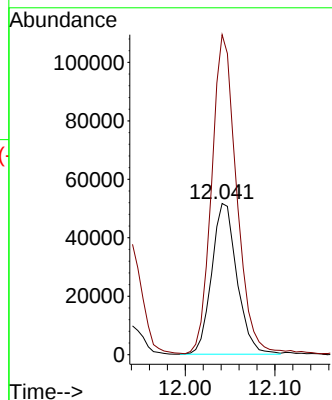
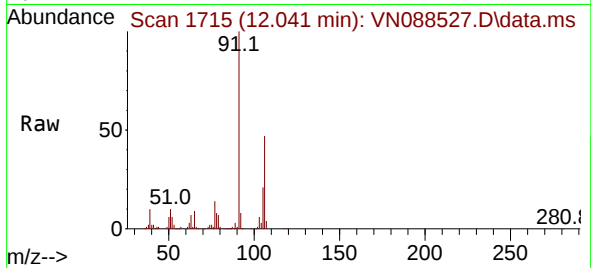




#68
m/p-Xylenes
Concen: 11.617 ug/l
RT: 12.041 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

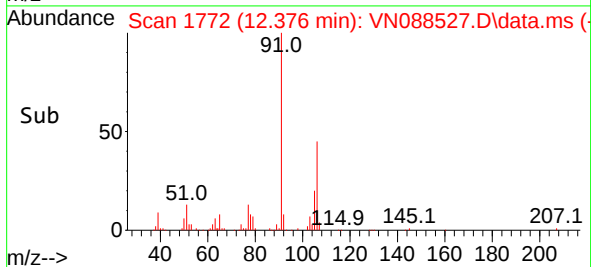
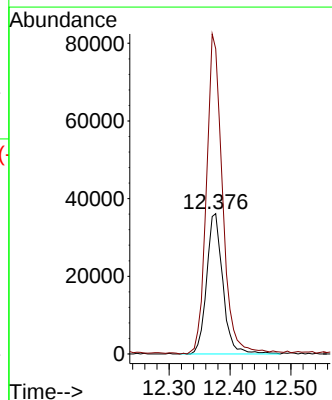
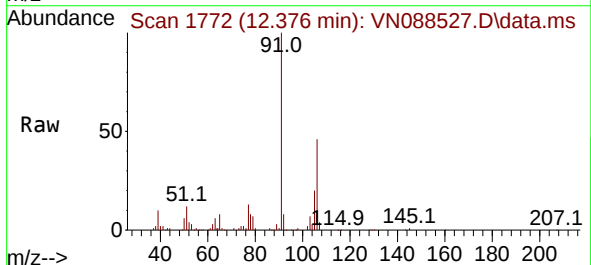
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

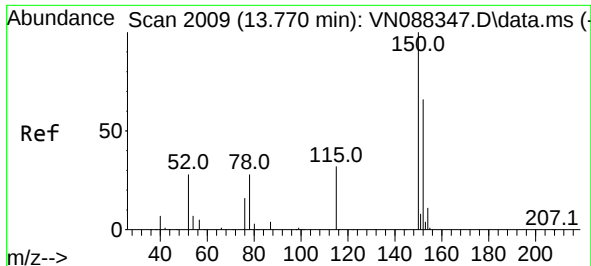
Tgt Ion:106 Resp: 101013
Ion Ratio Lower Upper
106 100
91 209.8 167.8 251.6



#69
o-Xylene
Concen: 8.064 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion:106 Resp: 66850
Ion Ratio Lower Upper
106 100
91 225.8 112.9 338.7

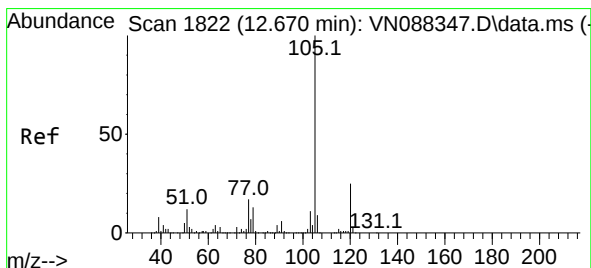
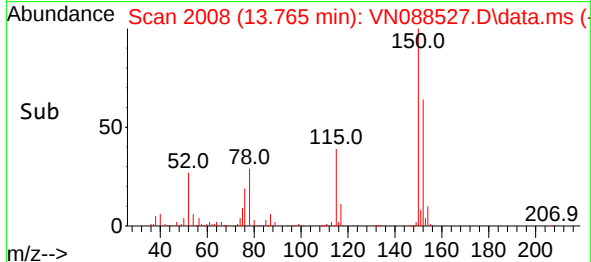
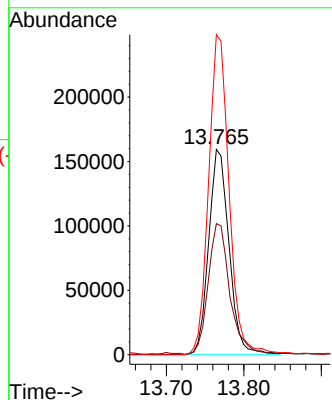
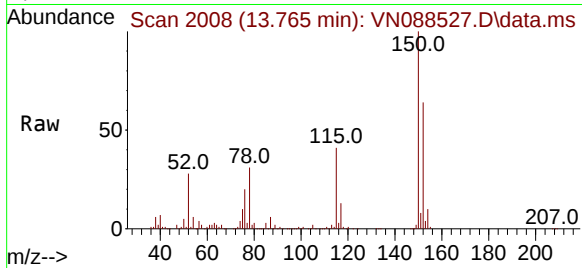




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.765 min Scan# 2009
 Delta R.T. -0.006 min
 Lab File: VN088527.D
 Acq: 16 Dec 2025 14:46

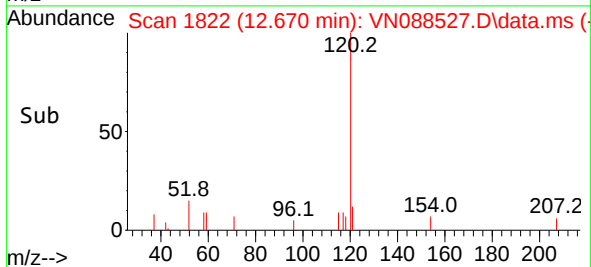
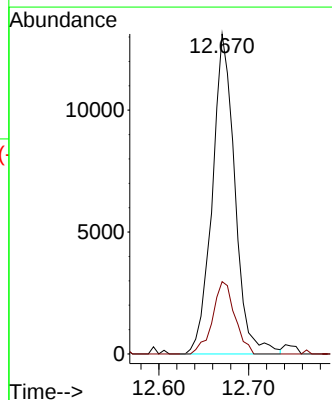
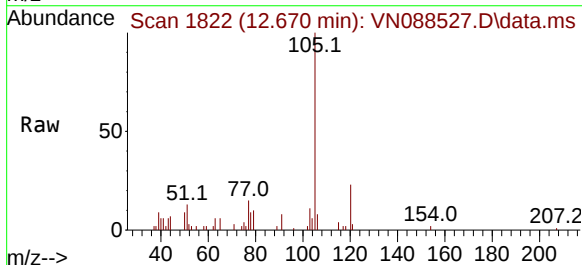
Instrument :
 MSVOA_N
 ClientSampleId :
 AI COVE 11 12"

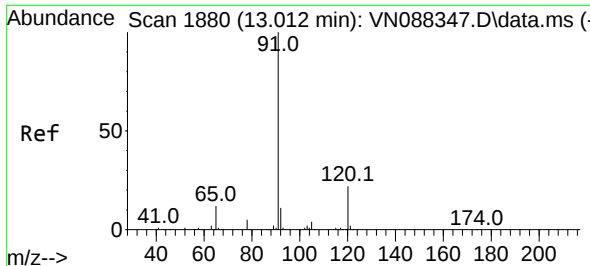
Tgt Ion:152 Resp: 291009
 Ion Ratio Lower Upper
 152 100
 115 67.2 33.0 98.9
 150 157.0 0.0 349.0



#73
 Isopropylbenzene
 Concen: 1.067 ug/l
 RT: 12.670 min Scan# 1822
 Delta R.T. 0.000 min
 Lab File: VN088527.D
 Acq: 16 Dec 2025 14:46

Tgt Ion:105 Resp: 22967
 Ion Ratio Lower Upper
 105 100
 120 22.2 12.8 38.3

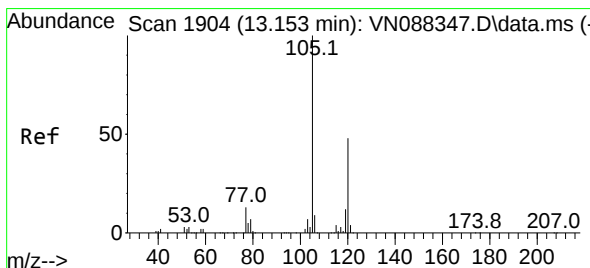
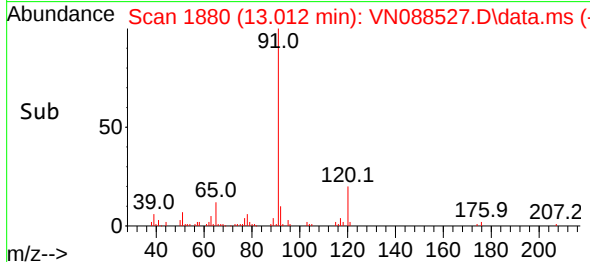
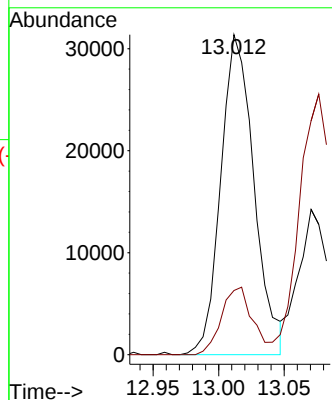
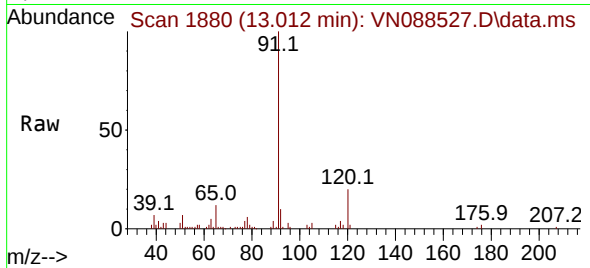




#78
n-propylbenzene
Concen: 2.103 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

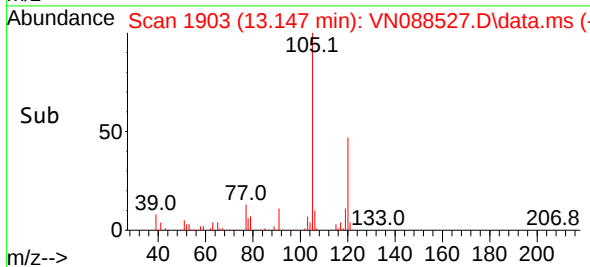
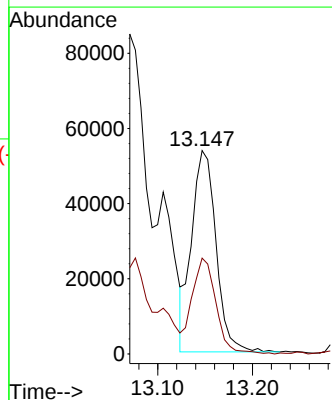
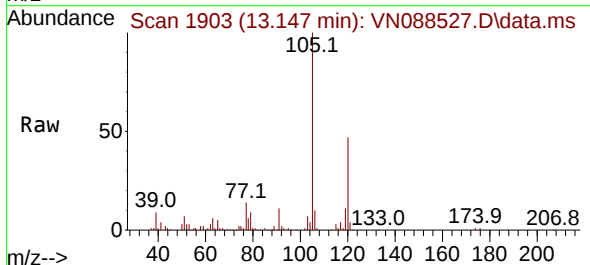
Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

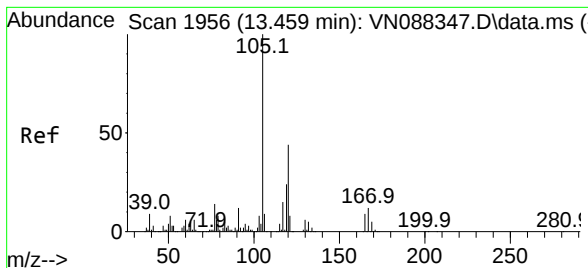
Tgt Ion: 91 Resp: 55354
Ion Ratio Lower Upper
91 100
120 19.4 10.9 32.6



#80
1,3,5-Trimethylbenzene
Concen: 5.404 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion:105 Resp: 96348
Ion Ratio Lower Upper
105 100
120 46.9 23.8 71.5





#84

1,2,4-Trimethylbenzene

Concen: 21.688 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088527.D

Acq: 16 Dec 2025 14:46

Instrument :

MSVOA_N

ClientSampleId :

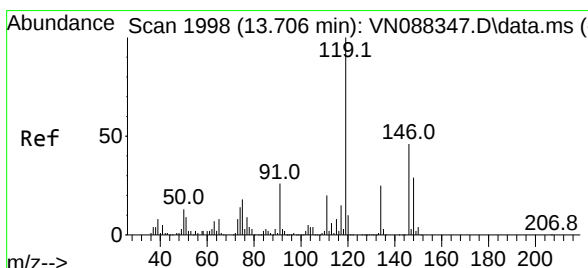
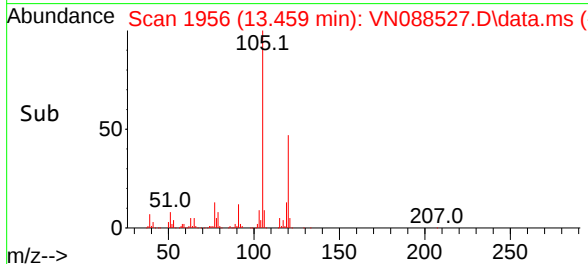
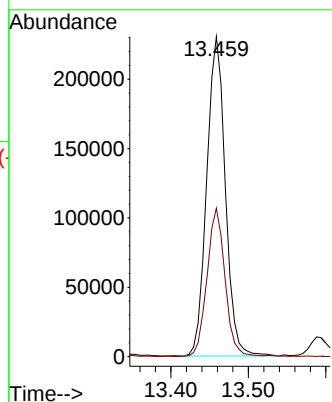
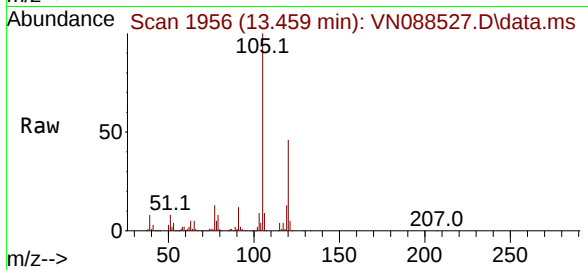
AI COVE 11 12"

Tgt Ion:105 Resp: 384345

Ion Ratio Lower Upper

105 100

120 45.4 22.1 66.1



#86

p-Isopropyltoluene

Concen: 1.027 ug/l

RT: 13.706 min Scan# 1998

Delta R.T. 0.000 min

Lab File: VN088527.D

Acq: 16 Dec 2025 14:46

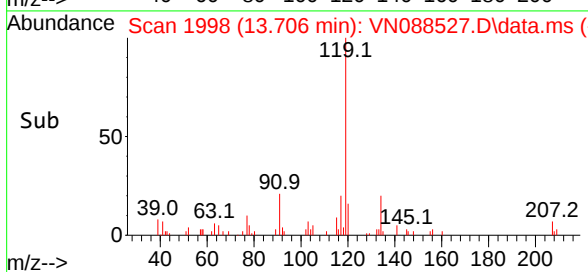
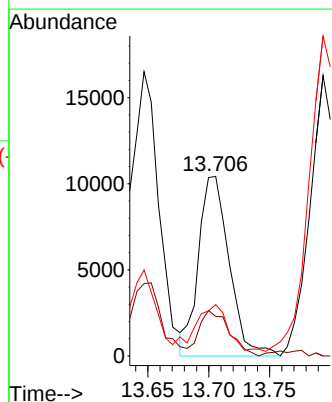
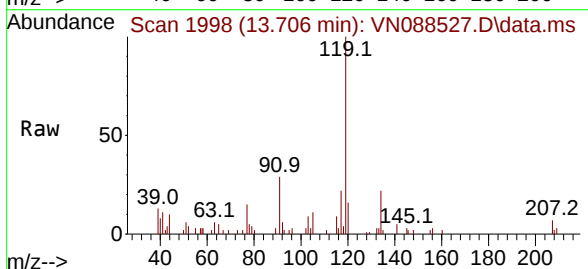
Tgt Ion:119 Resp: 18336

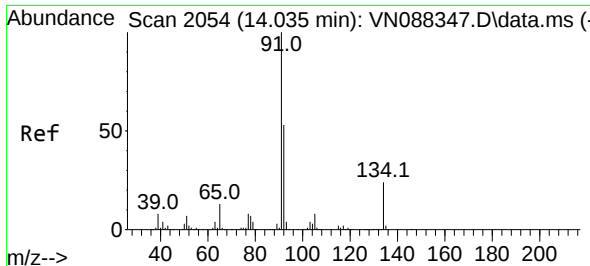
Ion Ratio Lower Upper

119 100

134 24.5 12.2 36.6

91 24.1 13.0 39.0

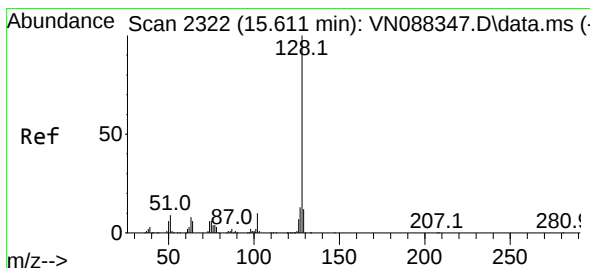
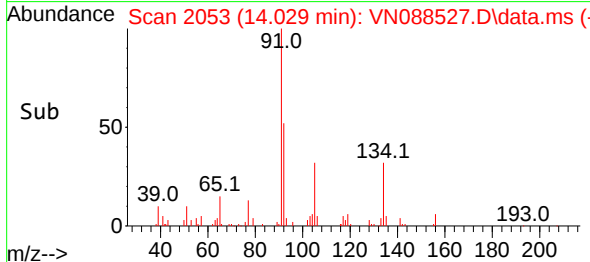
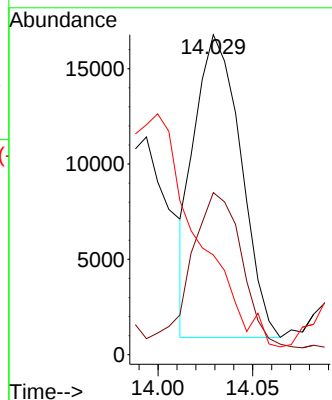
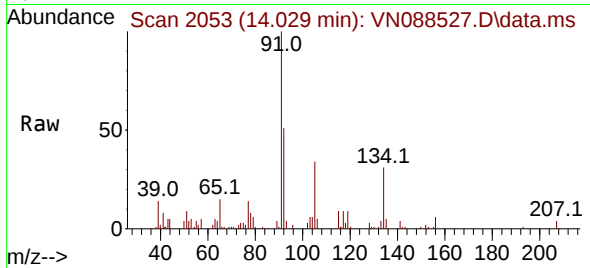




#89
n-Butylbenzene
Concen: 1.552 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Instrument :
MSVOA_N
ClientSampleId :
AI COVE 11 12"

Tgt Ion: 91 Resp: 26899
Ion Ratio Lower Upper
91 100
92 58.2 26.1 78.3
134 0.0 11.7 35.1#



#95
Naphthalene
Concen: 11.485 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN088527.D
Acq: 16 Dec 2025 14:46

Tgt Ion:128 Resp: 213265
Ion Ratio Lower Upper
128 100
127 12.3 10.4 15.6
129 10.7 9.0 13.6

