

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071924\
 Data File : VN082988.D
 Acq On : 19 Jul 2024 14:58
 Operator : JC\MD
 Sample : P3306-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 A1285

Quant Time: Jul 22 02:06:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070824W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 08 13:46:04 2024
 Response via : Initial Calibration

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

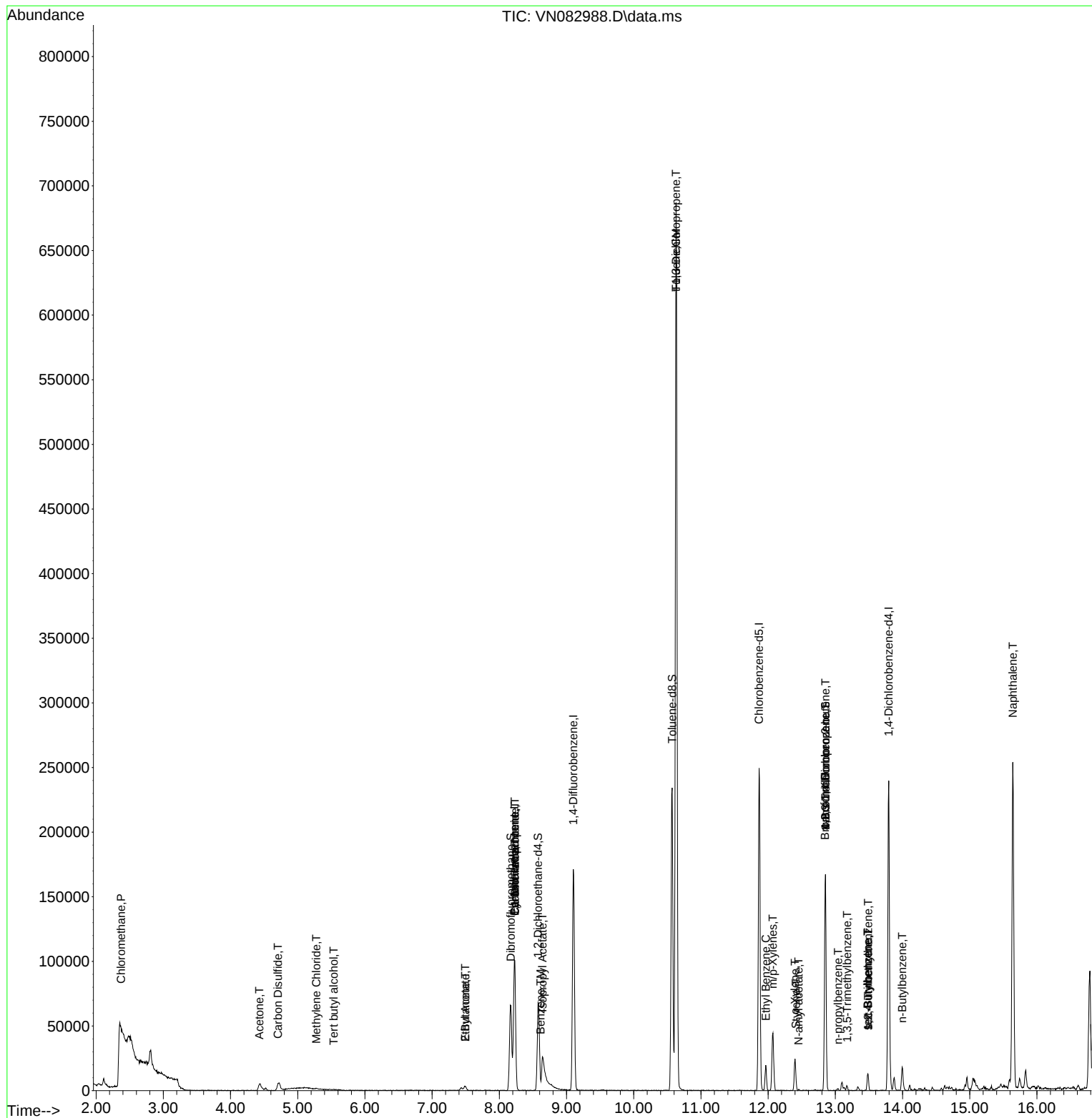
Internal Standards						
1) Pentafluorobenzene	8.224	168	70957	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	144826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	142050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	61132	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	56390	56.692	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.380%			
35) Dibromofluoromethane	8.171	113	47897	51.540	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.080%			
50) Toluene-d8	10.571	98	162193	47.254	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.500%			
62) 4-Bromofluorobenzene	12.853	95	52342	42.453	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 84.900%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	3865	4.436	ug/l #	43
11) Tert butyl alcohol	5.536	59	54	0.323	ug/l #	71
16) Acetone	4.430	43	10192	29.104	ug/l	99
17) Carbon Disulfide	4.707	76	12024	5.555	ug/l	100
20) Methylene Chloride	5.277	84	266	0.315	ug/l #	40
25) 2-Butanone	7.495	43	5945	11.243	ug/l	98
31) Cyclohexane	8.230	56	1894	1.456	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	6830	5.331	ug/l #	50
37) Ethyl Acetate	7.495	43	5945	4.557	ug/l #	72
38) Carbon Tetrachloride	8.230	117	8003	5.188	ug/l #	19
40) Benzene	8.612	78	1806	0.458	ug/l #	73
43) Isopropyl Acetate	8.642	43	39035	13.717	ug/l #	60
52) Toluene	10.630	92	294558	119.642	ug/l	100
53) t-1,3-Dichloropropene	10.630	75	3997	2.620	ug/l #	1
67) Ethyl Benzene	11.965	91	13593	2.657	ug/l	99
68) m/p-Xylenes	12.071	106	14372	7.441	ug/l	93
69) o-Xylene	12.400	106	5929	3.204	ug/l	98
70) Styrene	12.412	104	1718	0.562	ug/l #	41
71) Bromoform	12.847	173	462	0.543	ug/l #	1
74) N-amyl acetate	12.453	43	645	0.351	ug/l #	46
76) 1,2,3-Trichloropropane	12.853	75	30168	28.624	ug/l #	1
78) n-propylbenzene	13.041	91	1593	0.312	ug/l	91
80) 1,3,5-Trimethylbenzene	13.177	105	2346	0.653	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.853	75	30168	56.295	ug/l #	6
83) tert-Butylbenzene	13.483	119	1325	0.416	ug/l #	82
84) 1,2,4-Trimethylbenzene	13.488	105	8044	2.198	ug/l	96
85) sec-Butylbenzene	13.488	105	8044	1.870	ug/l #	57
89) n-Butylbenzene	13.994	91	1552	0.505	ug/l #	39
95) Naphthalene	15.641	128	224671	60.586	ug/l	100

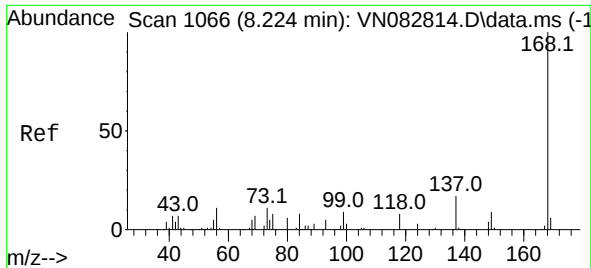
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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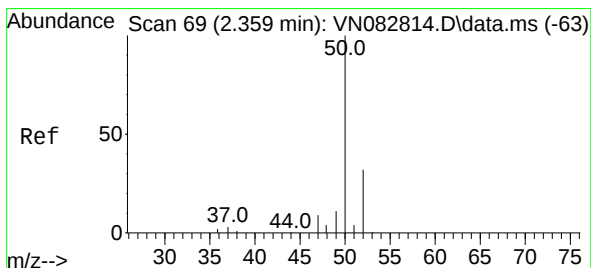
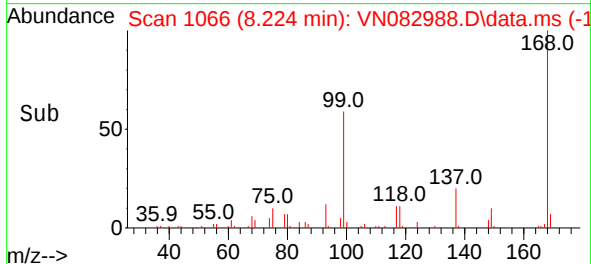
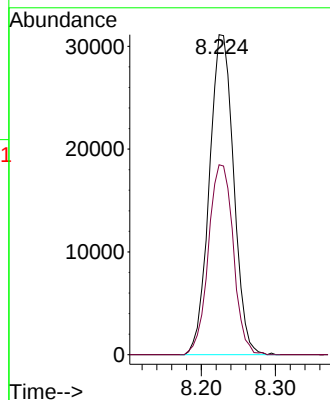
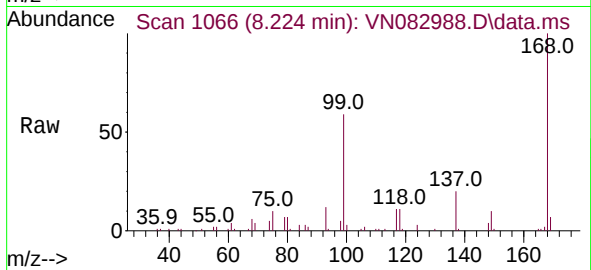




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.005 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

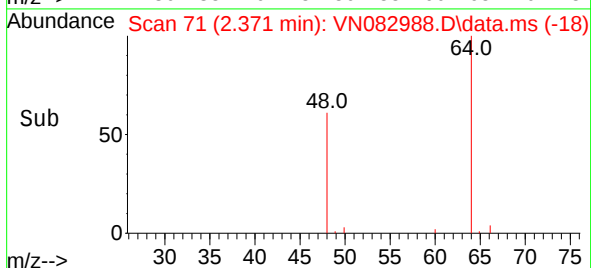
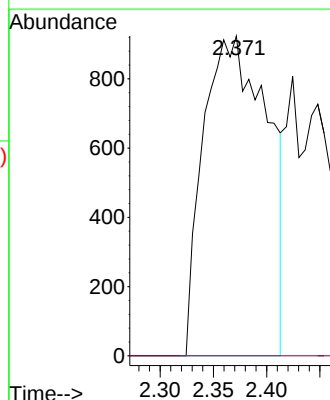
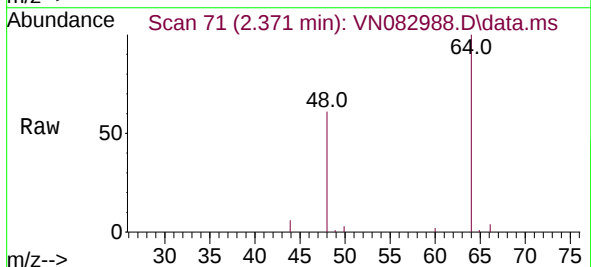
Instrument :
MSVOA_N
ClientSampleId :
A1285

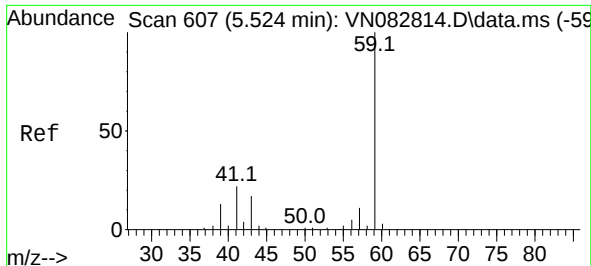
Tgt Ion:168 Resp: 70957
Ion Ratio Lower Upper
168 100
99 59.3 48.2 72.4



#3
Chloromethane
Concen: 4.436 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.012 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 50 Resp: 3865
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#





#11

Tert butyl alcohol

Concen: 0.323 ug/l

RT: 5.536 min Scan# 607

Delta R.T. 0.012 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

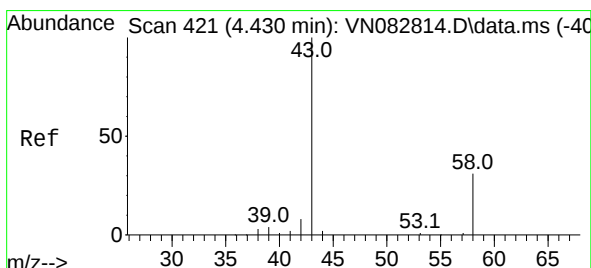
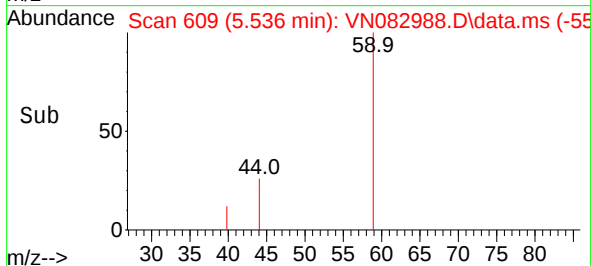
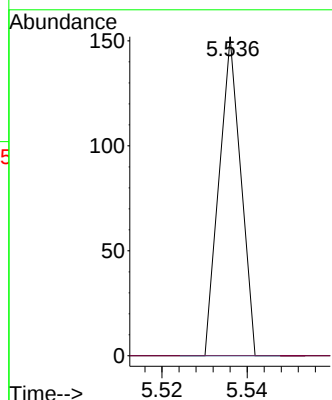
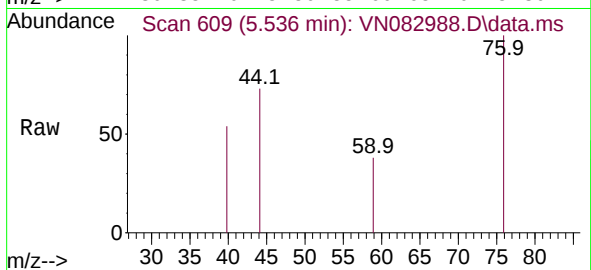
A1285

Tgt Ion: 59 Resp: 54

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#16

Acetone

Concen: 29.104 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.000 min

Lab File: VN082988.D

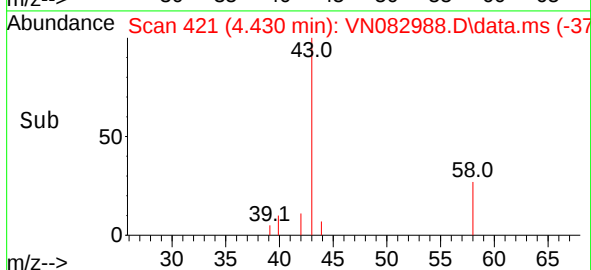
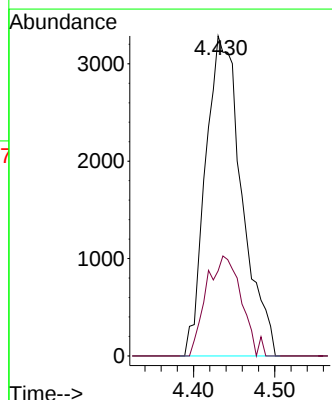
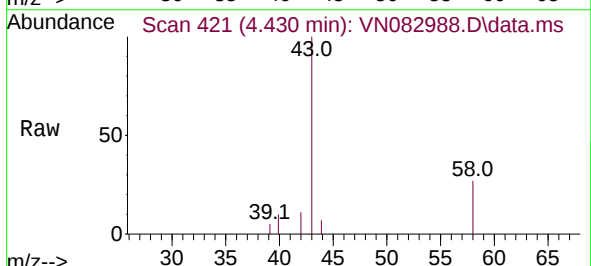
Acq: 19 Jul 2024 14:58

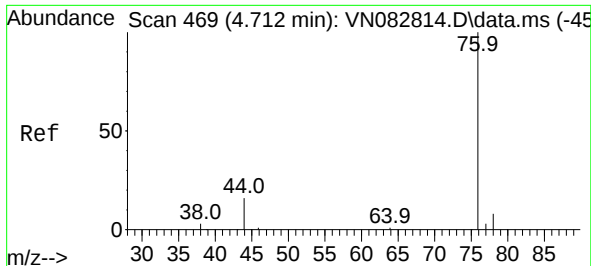
Tgt Ion: 43 Resp: 10192

Ion Ratio Lower Upper

43 100

58 26.6 21.8 32.6

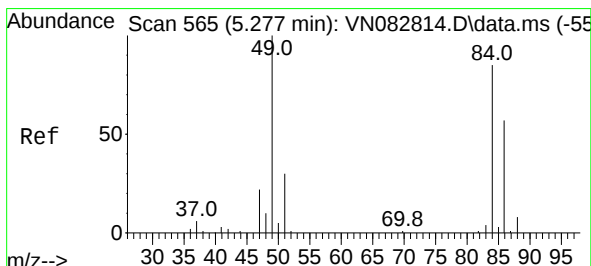
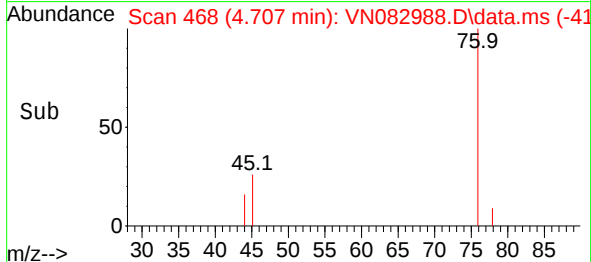
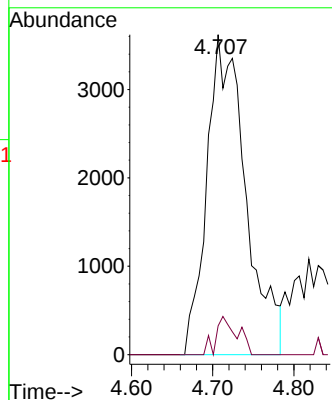
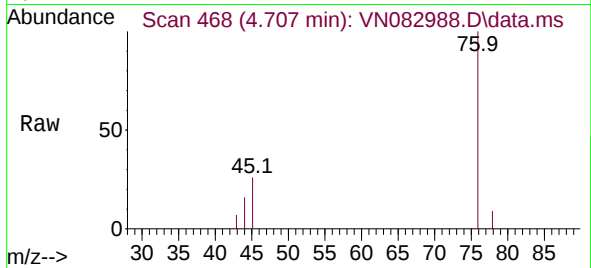




#17
Carbon Disulfide
Concen: 5.555 ug/l
RT: 4.707 min Scan# 41
Delta R.T. -0.005 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

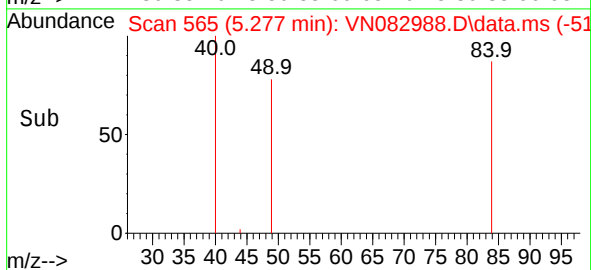
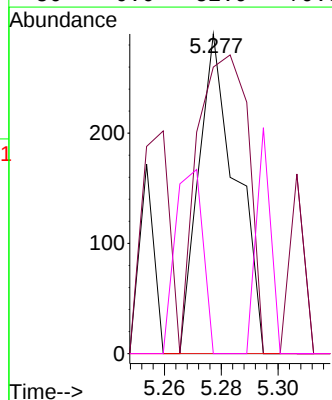
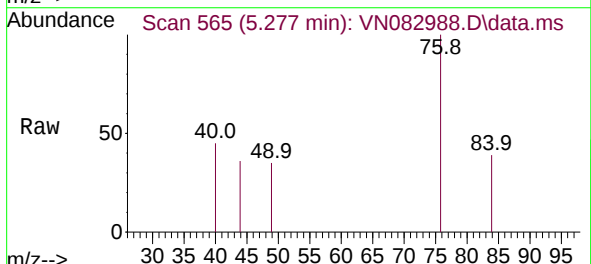
Instrument :
MSVOA_N
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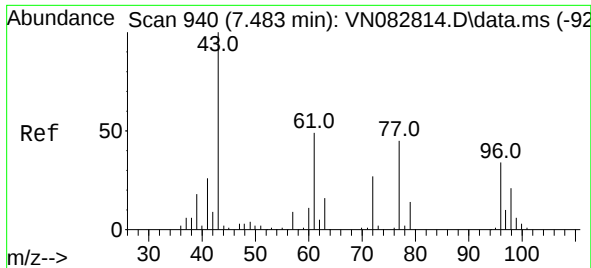
Tgt Ion: 76 Resp: 12024
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8



#20
Methylene Chloride
Concen: 0.315 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.000 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 84 Resp: 266
Ion Ratio Lower Upper
84 100
49 89.7 119.6 179.4#
51 0.0 34.8 52.2#
86 0.0 52.9 79.3#

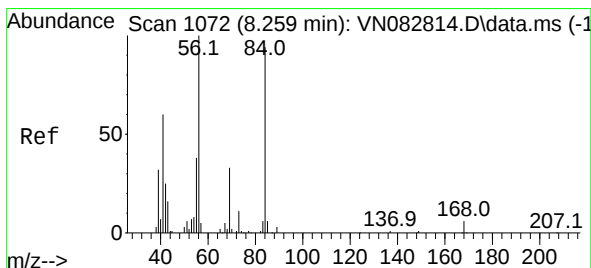
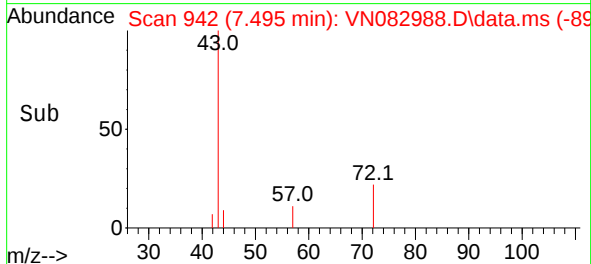
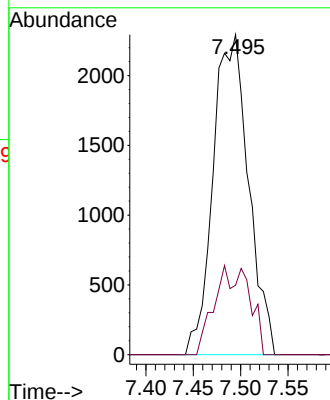
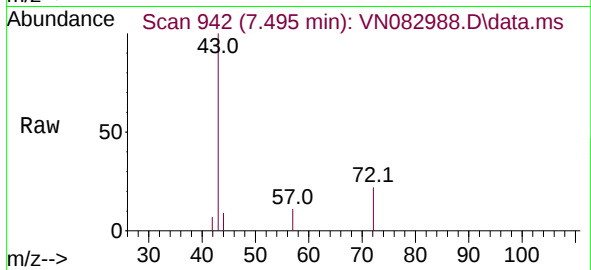




#25
2-Butanone
Concen: 11.243 ug/l
RT: 7.495 min Scan# 940
Delta R.T. 0.007 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

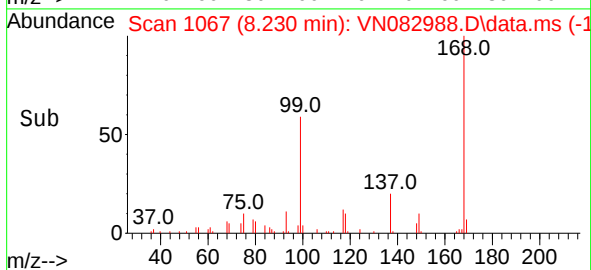
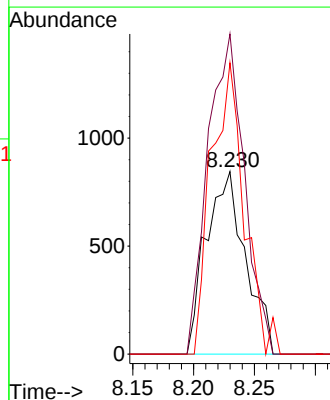
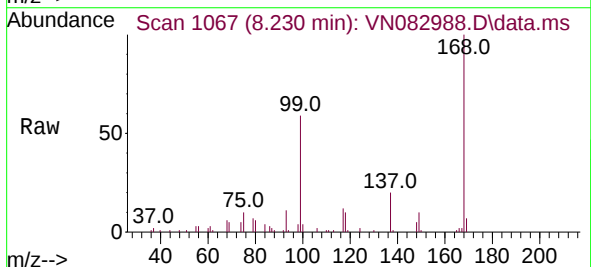
Instrument :
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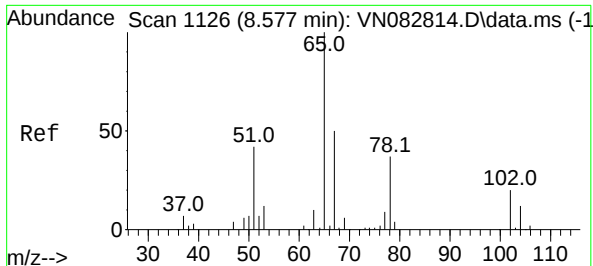
Tgt Ion: 43 Resp: 5945
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2



#31
Cyclohexane
Concen: 1.456 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 56 Resp: 1894
Ion Ratio Lower Upper
56 100
69 175.4 24.5 36.7#
84 159.6 66.0 99.0#

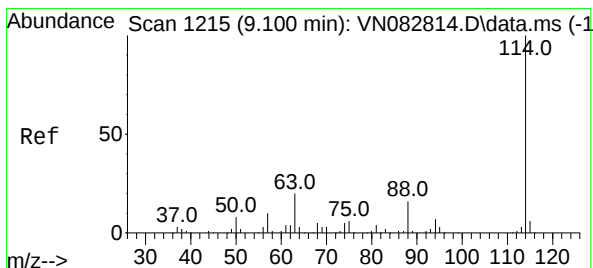
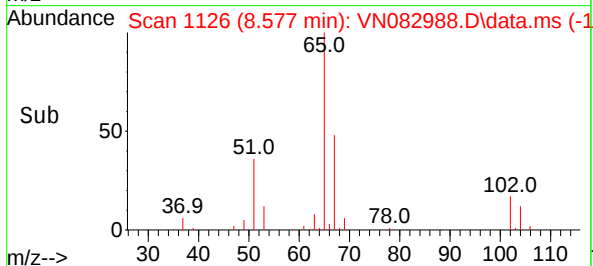
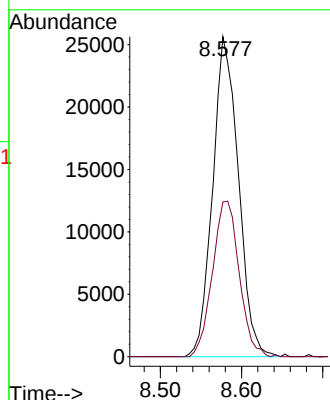
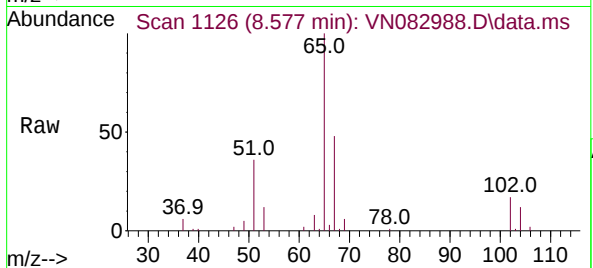




#33
1,2-Dichloroethane-d4
Concen: 56.692 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.005 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

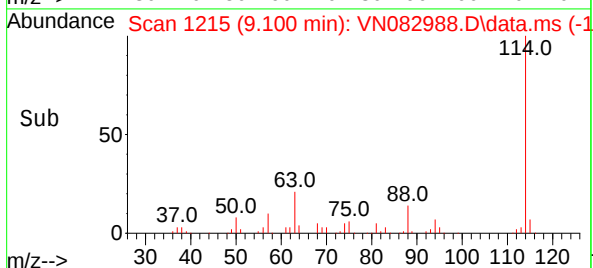
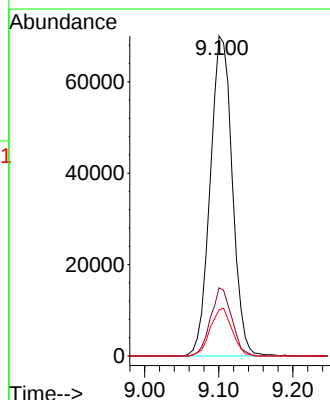
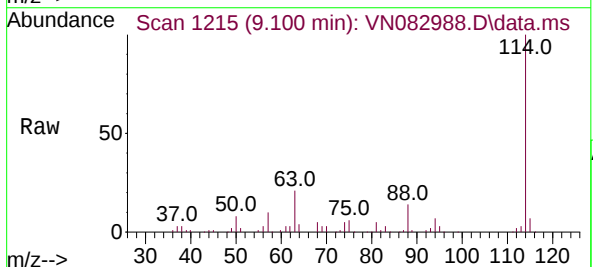
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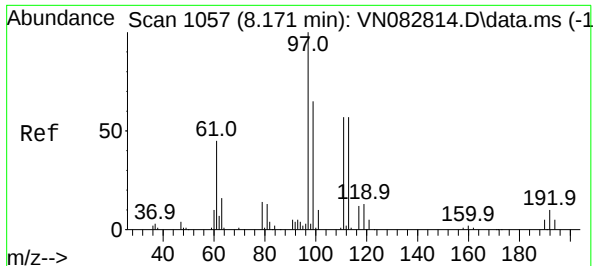
Tgt Ion: 65 Resp: 56390
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.006 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 114 Resp: 144826
Ion Ratio Lower Upper
114 100
63 21.3 0.0 44.6
88 14.3 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.540 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

A1285

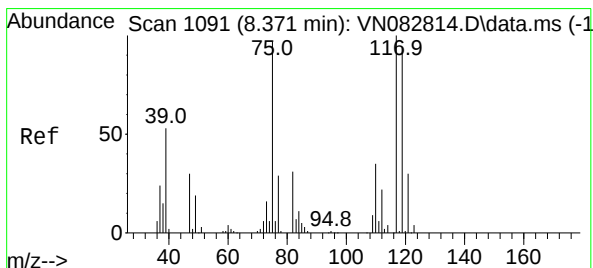
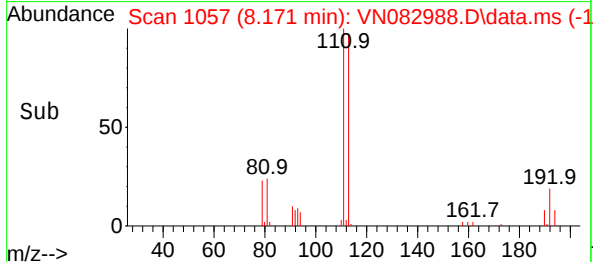
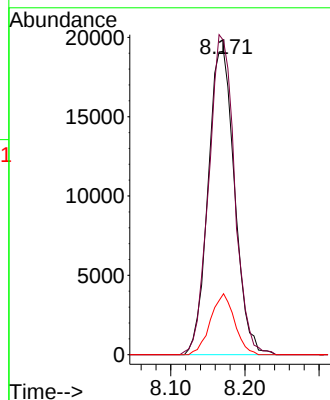
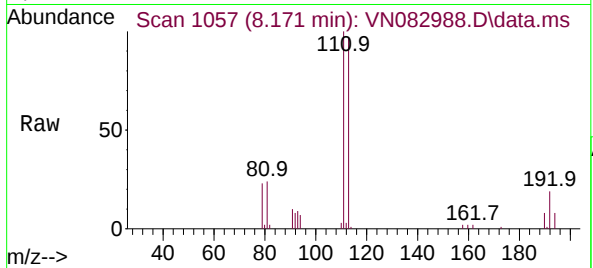
Tgt Ion:113 Resp: 47897

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

192 18.1 14.9 22.3



#36

1,1-Dichloropropene

Concen: 5.331 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

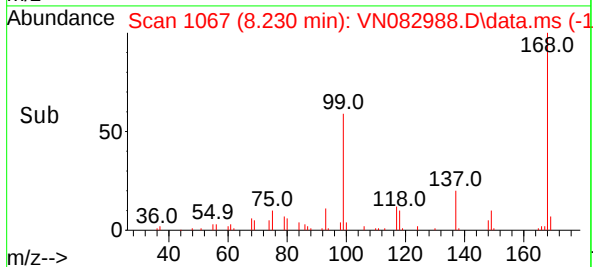
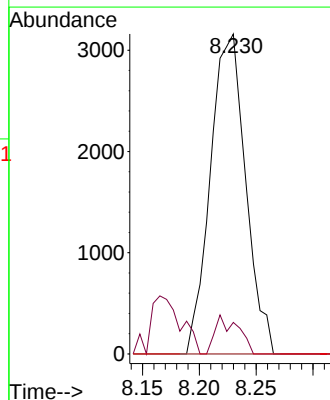
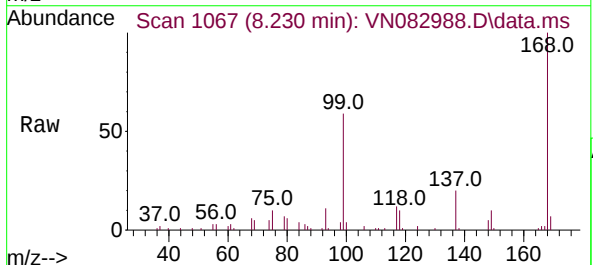
Tgt Ion: 75 Resp: 6830

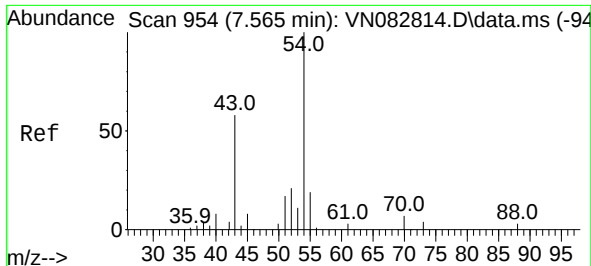
Ion Ratio Lower Upper

75 100

110 7.8 16.3 48.9#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 4.557 ug/l

RT: 7.495 min Scan# 942

Delta R.T. -0.070 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

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ClientSampleId :

A1285

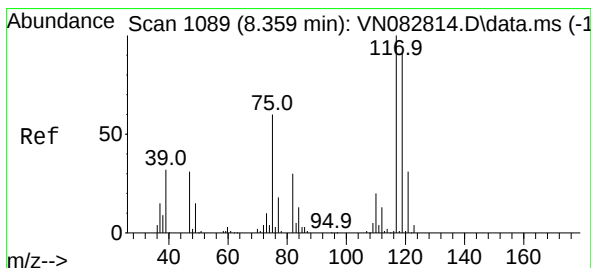
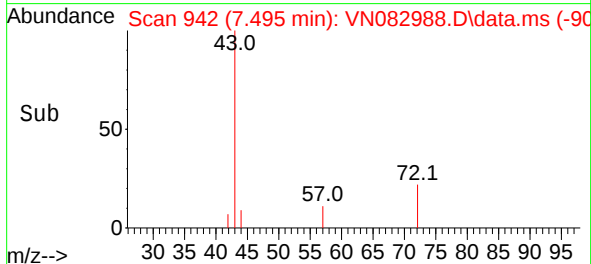
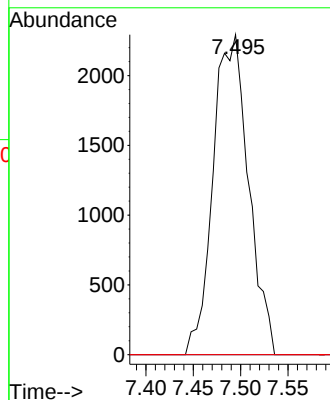
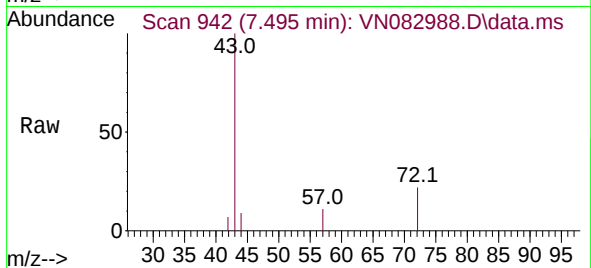
Tgt Ion: 43 Resp: 5945

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.188 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

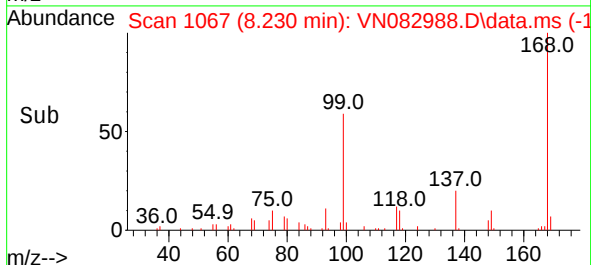
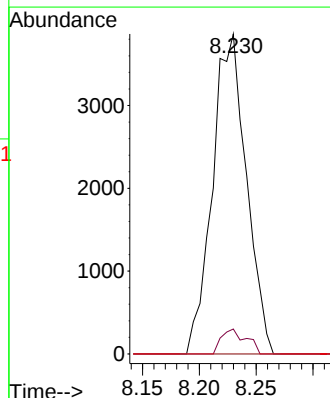
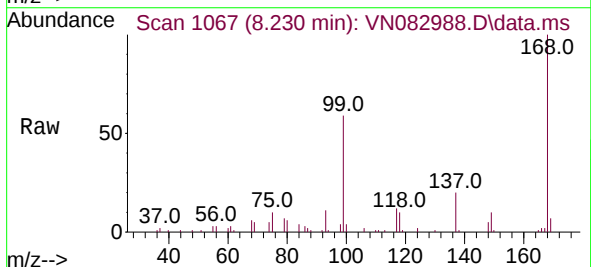
Tgt Ion: 117 Resp: 8003

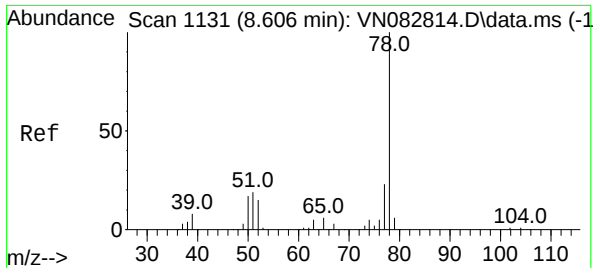
Ion Ratio Lower Upper

117 100

119 7.8 74.9 112.3#

121 0.0 24.3 36.5#





#40

Benzene

Concen: 0.458 ug/l

RT: 8.612 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

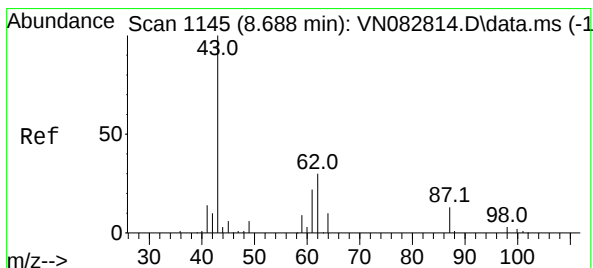
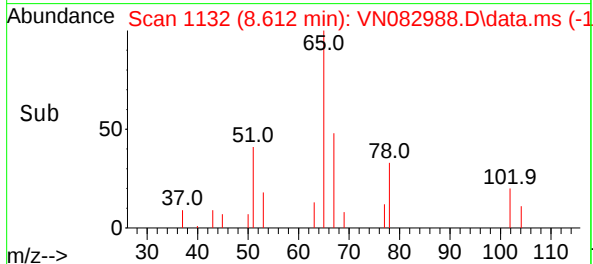
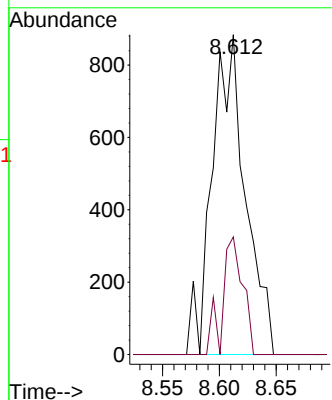
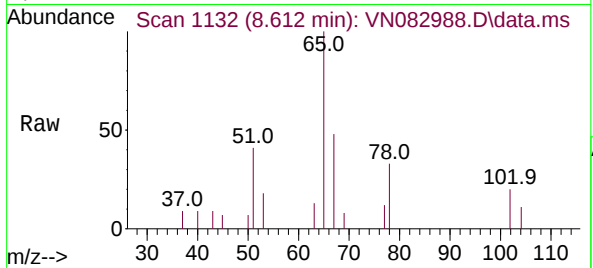
A1285

Tgt Ion: 78 Resp: 1806

Ion Ratio Lower Upper

78 100

77 36.8 19.0 28.4#



#43

Isopropyl Acetate

Concen: 13.717 ug/l

RT: 8.642 min Scan# 1137

Delta R.T. -0.052 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

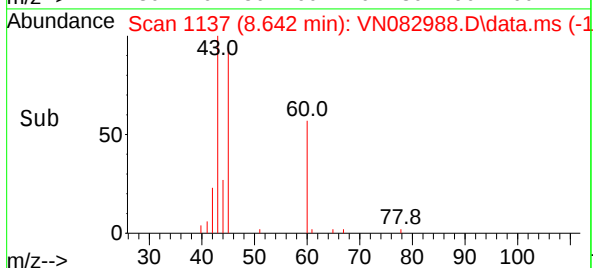
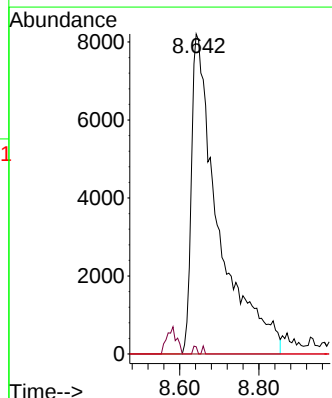
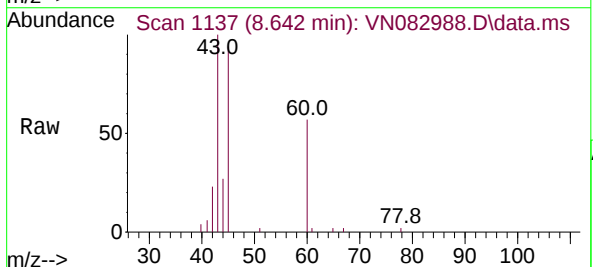
Tgt Ion: 43 Resp: 39035

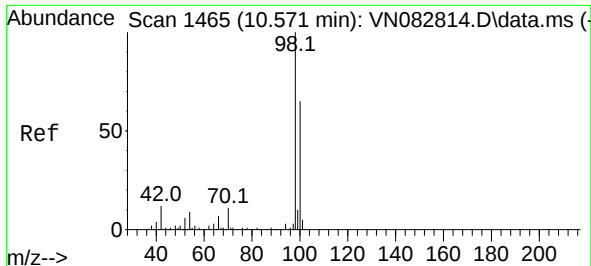
Ion Ratio Lower Upper

43 100

61 0.3 17.8 26.6#

87 0.0 8.2 12.2#

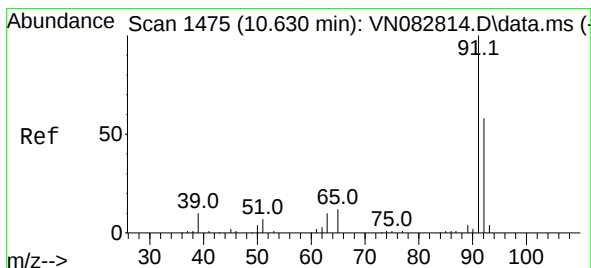
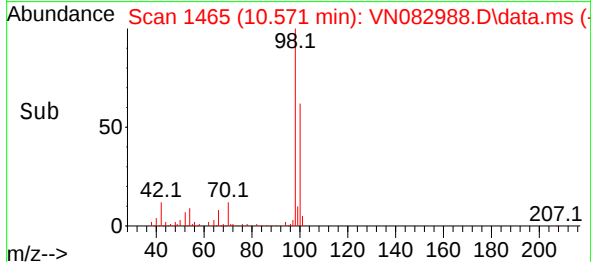
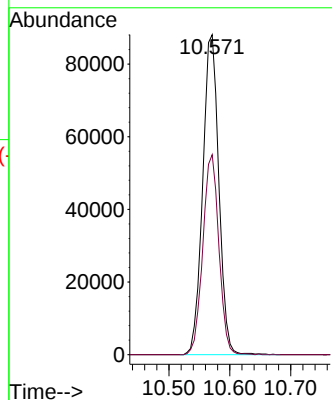
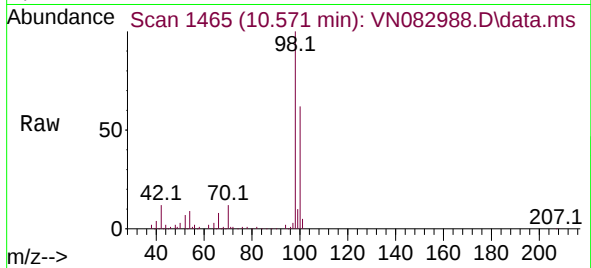




#50
Toluene-d8
Concen: 47.254 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.001 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

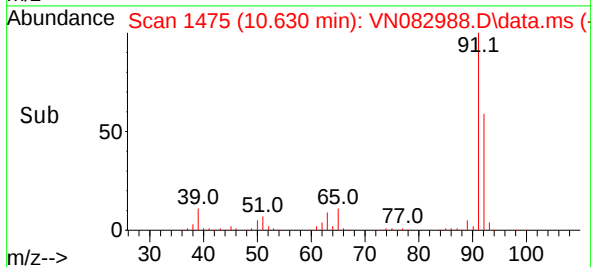
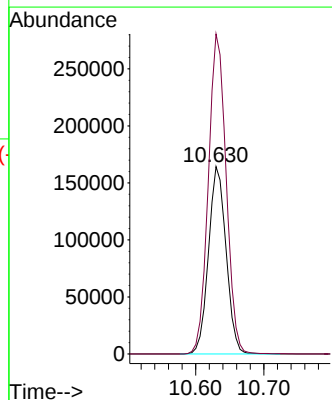
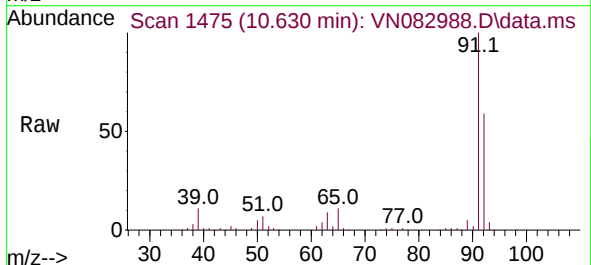
Instrument :
MSVOA_N
ClientSampleId :
A1285

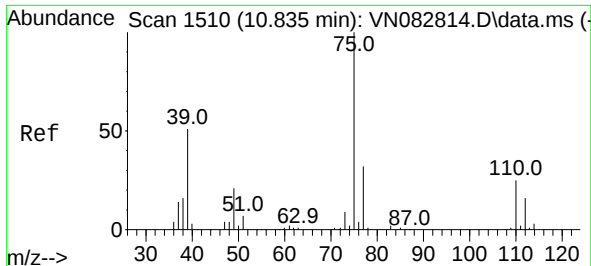
Tgt Ion: 98 Resp: 162193
Ion Ratio Lower Upper
98 100
100 62.2 51.5 77.3



#52
Toluene
Concen: 119.642 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.005 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 92 Resp: 294558
Ion Ratio Lower Upper
92 100
91 173.6 139.4 209.0





#53

t-1,3-Dichloropropene

Concen: 2.620 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. -0.205 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

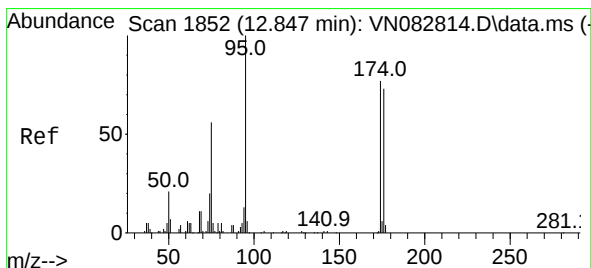
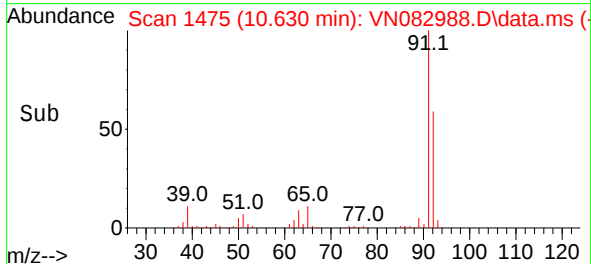
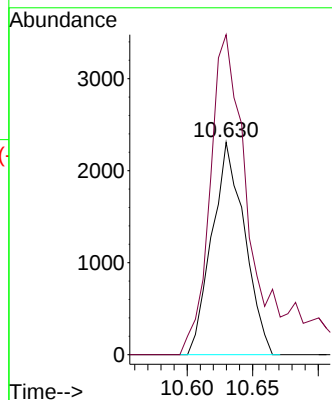
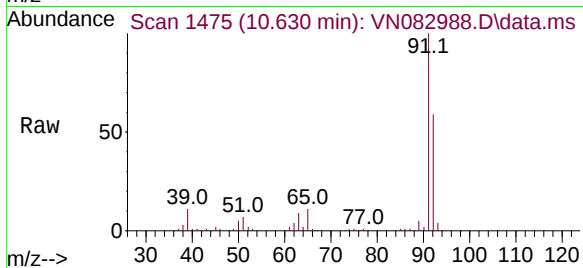
A1285

Tgt Ion: 75 Resp: 3997

Ion Ratio Lower Upper

75 100

77 150.7 25.7 38.5#



#62

4-Bromofluorobenzene

Concen: 42.453 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

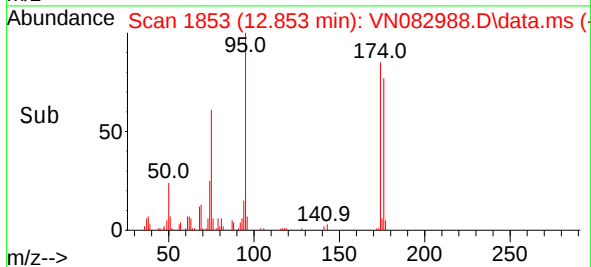
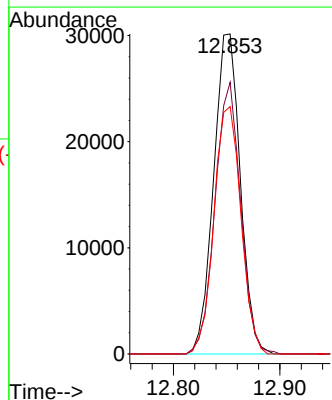
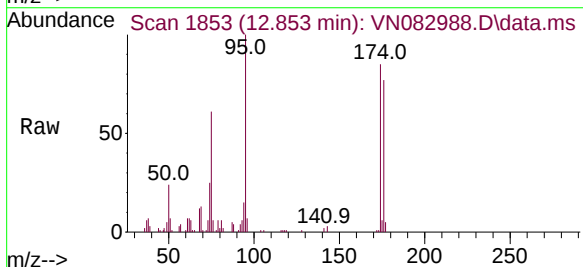
Tgt Ion: 95 Resp: 52342

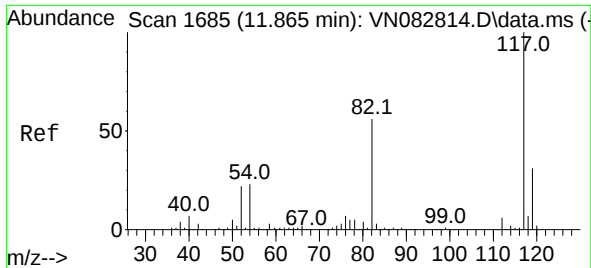
Ion Ratio Lower Upper

95 100

174 81.5 0.0 159.2

176 78.3 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.005 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

A1285

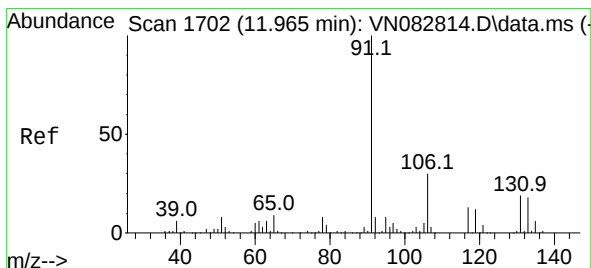
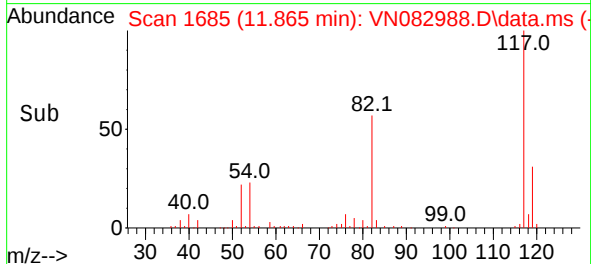
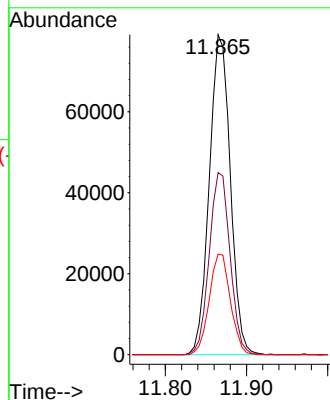
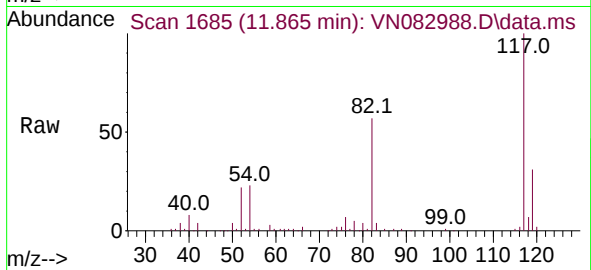
Tgt Ion:117 Resp: 142050

Ion Ratio Lower Upper

117 100

82 56.9 47.5 71.3

119 31.4 25.6 38.4



#67

Ethyl Benzene

Concen: 2.657 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.001 min

Lab File: VN082988.D

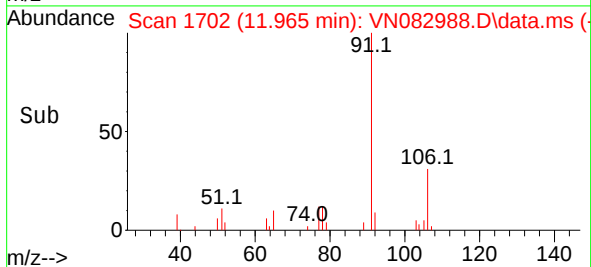
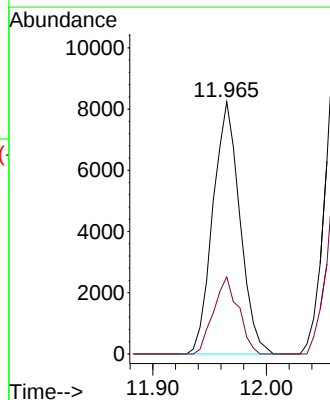
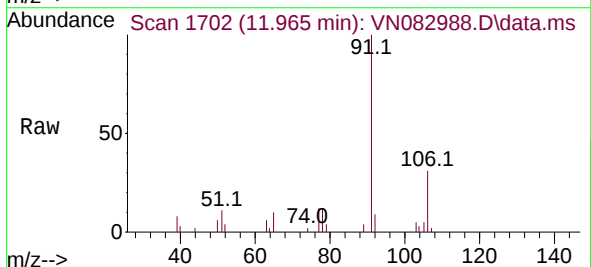
Acq: 19 Jul 2024 14:58

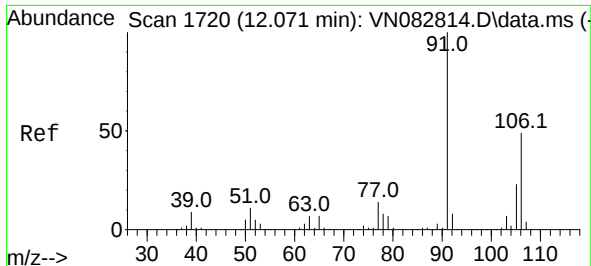
Tgt Ion: 91 Resp: 13593

Ion Ratio Lower Upper

91 100

106 30.6 24.0 36.0





#68

m/p-Xylenes

Concen: 7.441 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.001 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

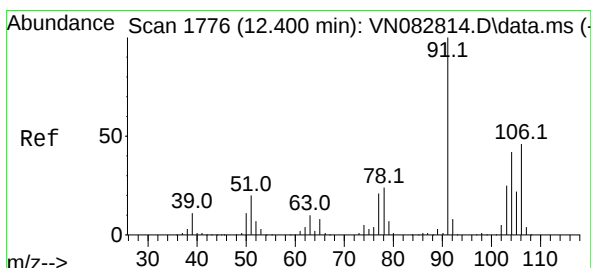
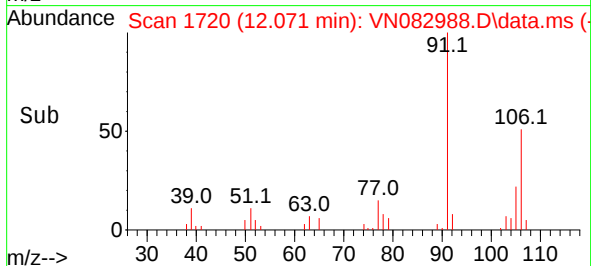
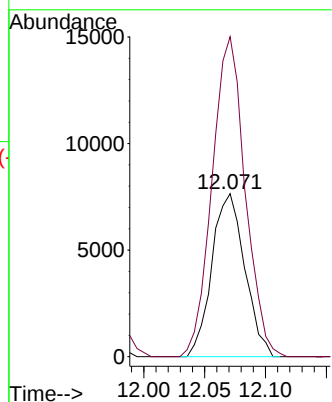
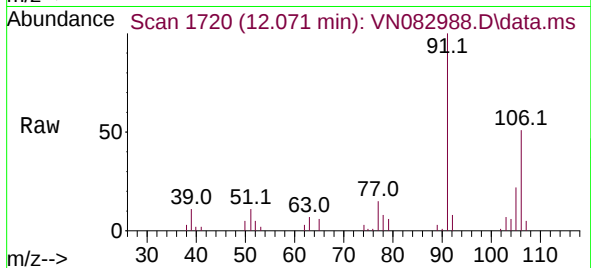
A1285

Tgt Ion:106 Resp: 14372

Ion Ratio Lower Upper

106 100

91 197.2 166.1 249.1



#69

o-Xylene

Concen: 3.204 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN082988.D

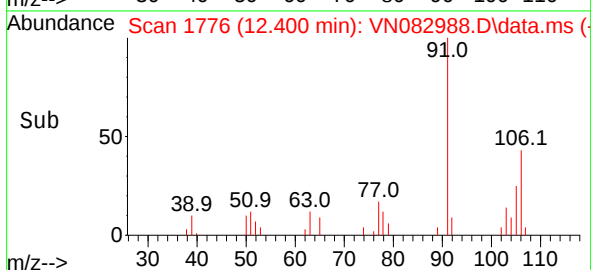
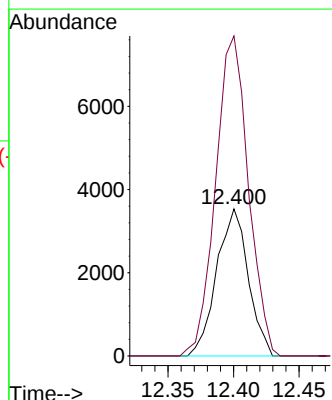
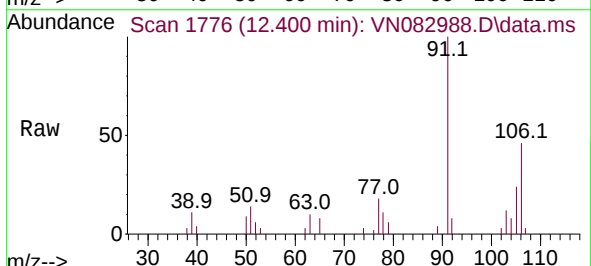
Acq: 19 Jul 2024 14:58

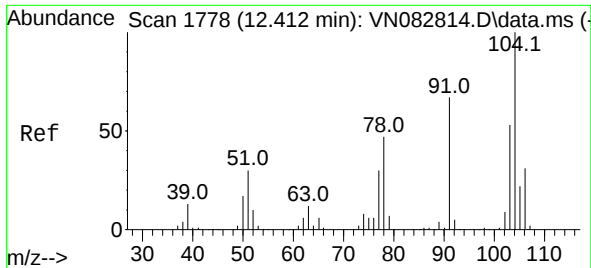
Tgt Ion:106 Resp: 5929

Ion Ratio Lower Upper

106 100

91 225.5 111.3 333.9

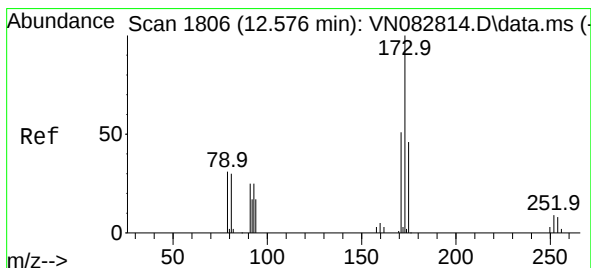
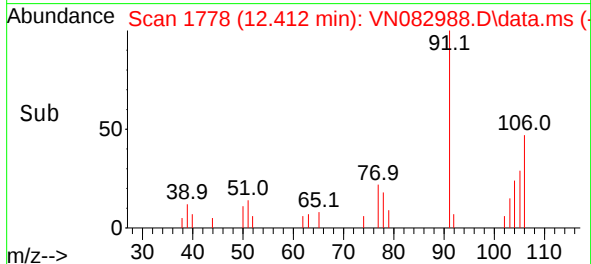
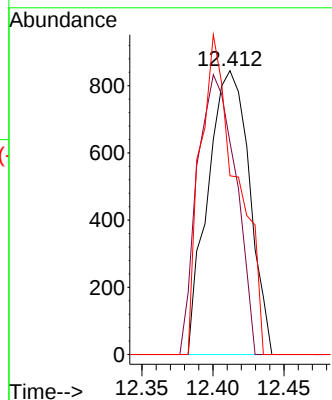
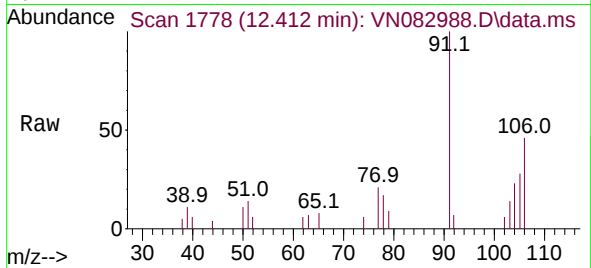




#70
Styrene
Concen: 0.562 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

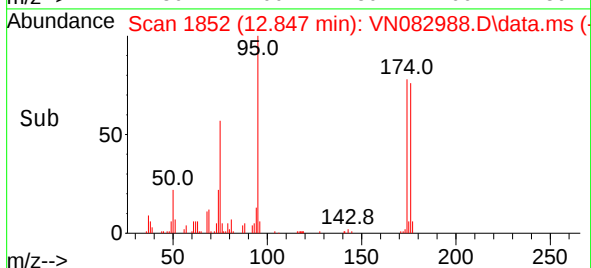
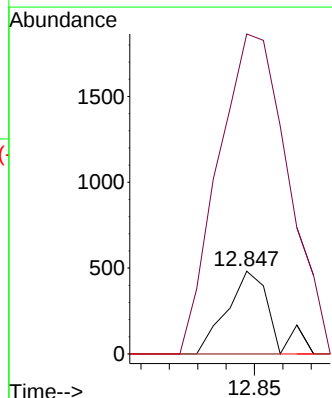
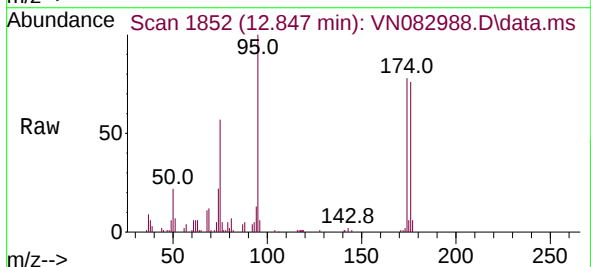
Instrument :
MSVOA_N
ClientSampleId :
A1285

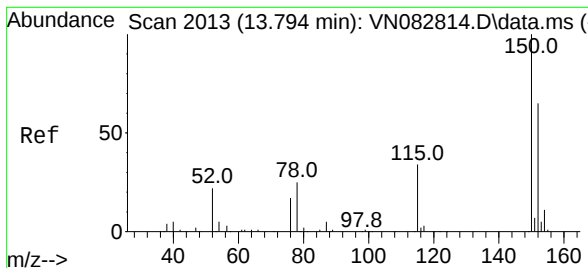
Tgt Ion:104 Resp: 1718
Ion Ratio Lower Upper
104 100
78 91.2 41.6 62.4#
103 100.1 44.0 66.0#



#71
Bromoform
Concen: 0.543 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion:173 Resp: 462
Ion Ratio Lower Upper
173 100
175 599.8 24.0 72.0#
254 0.0 0.0 0.0

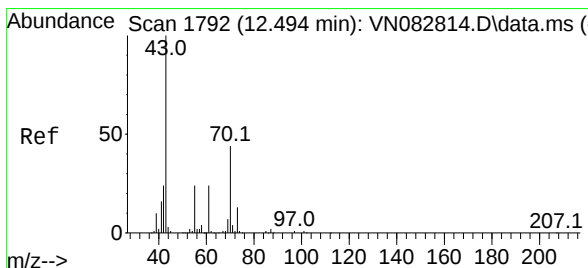
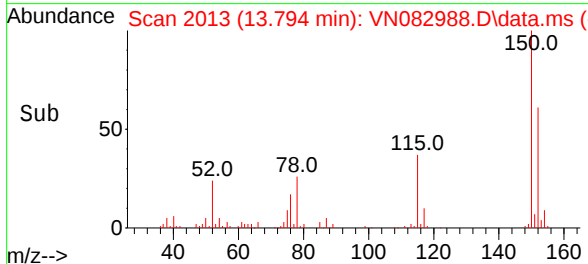
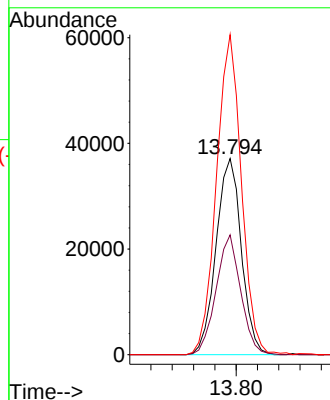
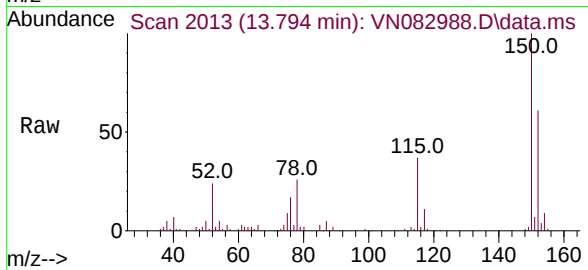




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

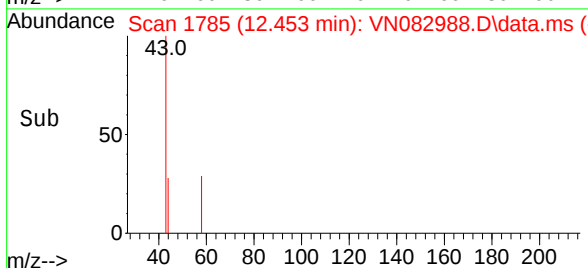
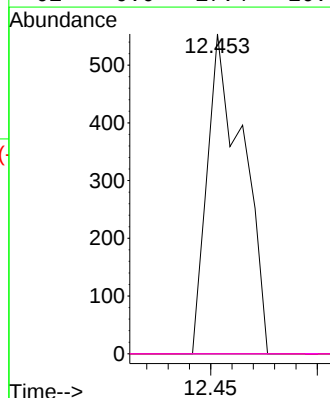
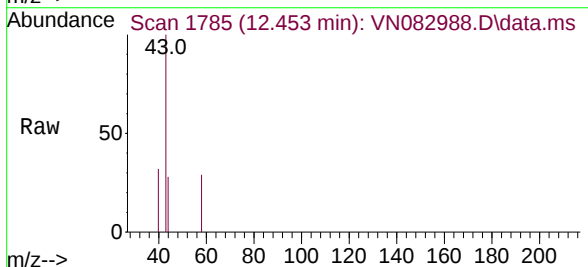
Instrument :
MSVOA_N
ClientSampleId :
A1285

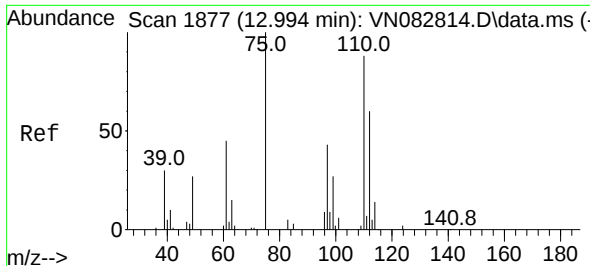
Tgt Ion:152 Resp: 61132
Ion Ratio Lower Upper
152 100
115 59.4 30.6 91.6
150 160.9 0.0 348.6



#74
N-ethyl acetate
Concen: 0.351 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.041 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion: 43 Resp: 645
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.6#
55 0.0 18.7 28.1#
61 0.0 17.4 26.0#





#76

1,2,3-Trichloropropane

Concen: 28.624 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

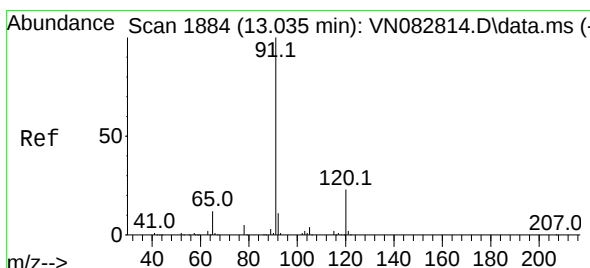
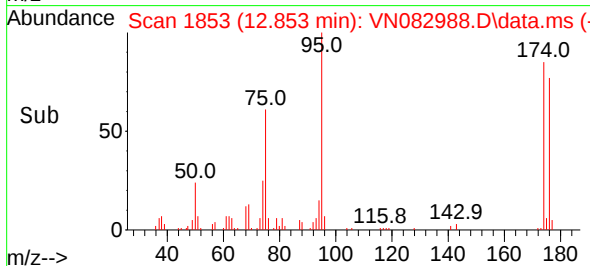
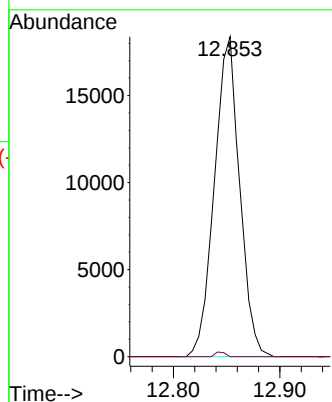
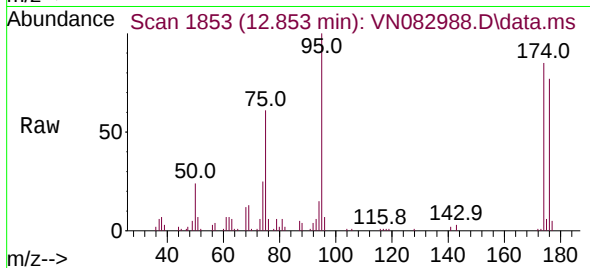
A1285

Tgt Ion: 75 Resp: 30168

Ion Ratio Lower Upper

75 100

77 0.6 110.9 332.6#



#78

n-propylbenzene

Concen: 0.312 ug/l

RT: 13.041 min Scan# 1885

Delta R.T. 0.006 min

Lab File: VN082988.D

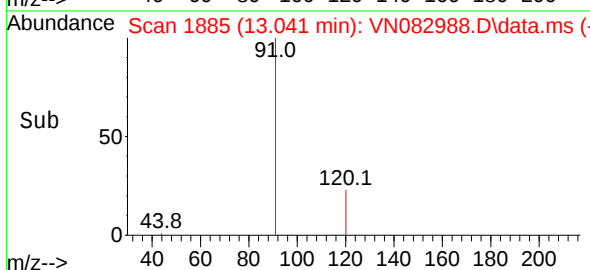
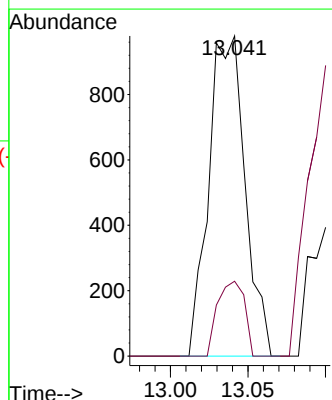
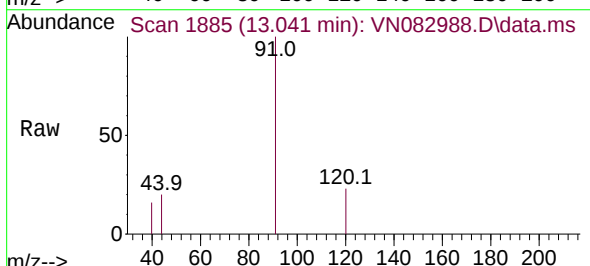
Acq: 19 Jul 2024 14:58

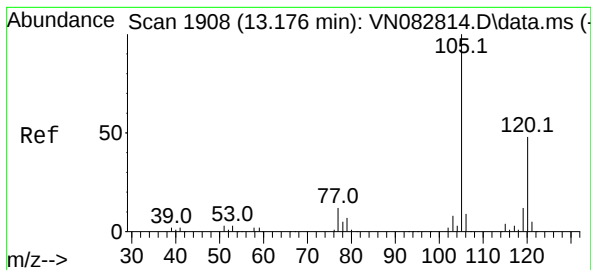
Tgt Ion: 91 Resp: 1593

Ion Ratio Lower Upper

91 100

120 17.4 10.9 32.9





#80

1,3,5-Trimethylbenzene

Concen: 0.653 ug/l

RT: 13.177 min Scan# 1908

Delta R.T. 0.001 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

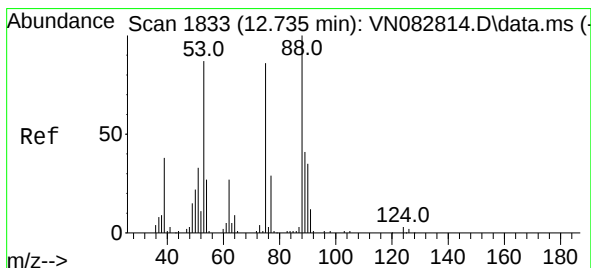
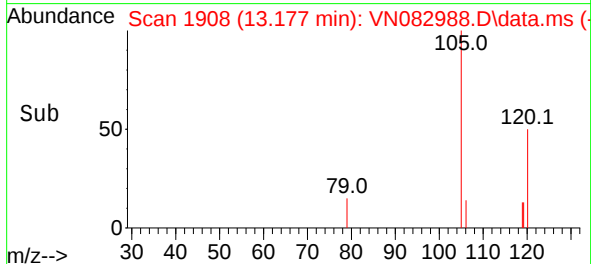
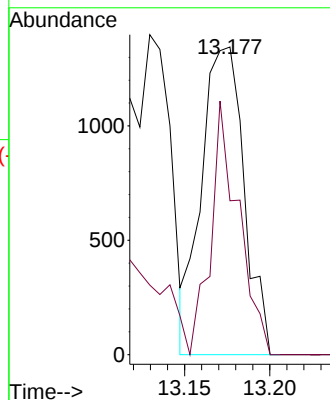
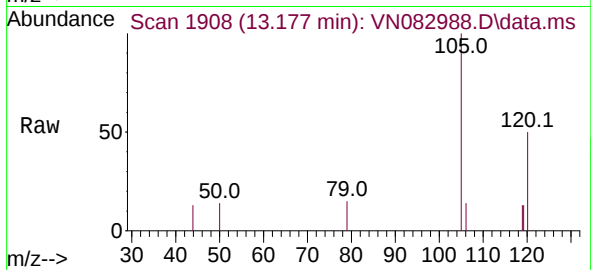
A1285

Tgt Ion:105 Resp: 2346

Ion Ratio Lower Upper

105 100

120 53.3 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 56.295 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

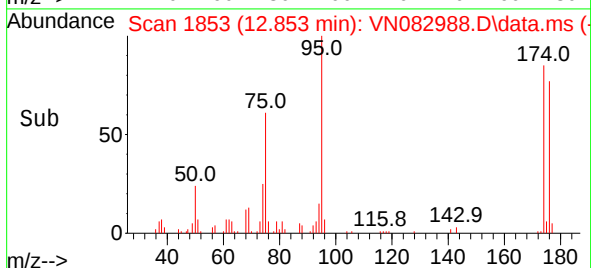
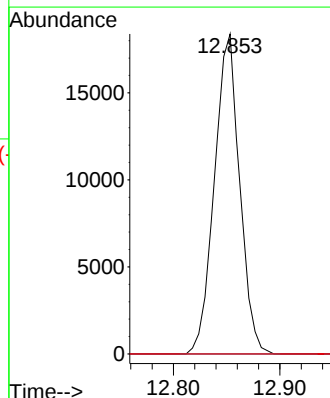
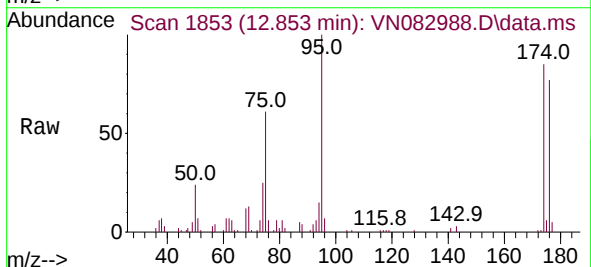
Tgt Ion: 75 Resp: 30168

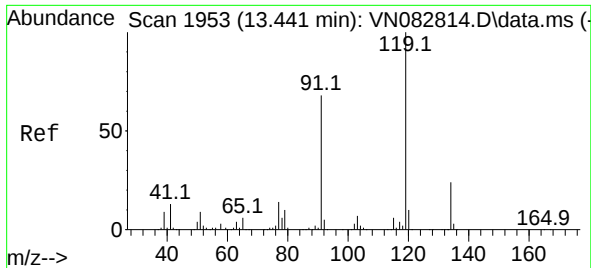
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 36.3 54.5#

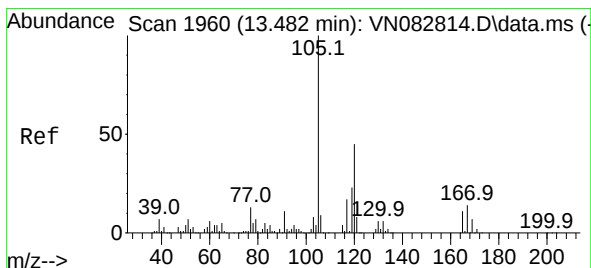
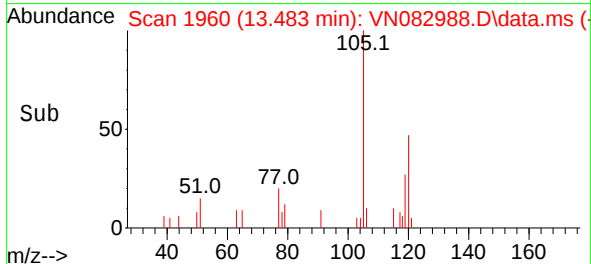
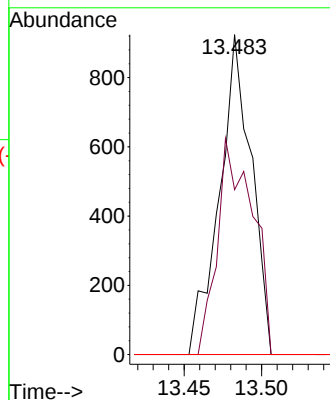
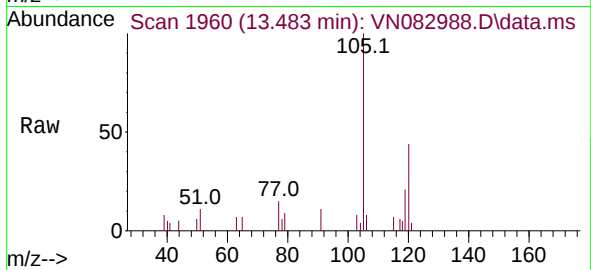




#83
tert-Butylbenzene
Concen: 0.416 ug/l
RT: 13.483 min Scan# 1953
Delta R.T. 0.042 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

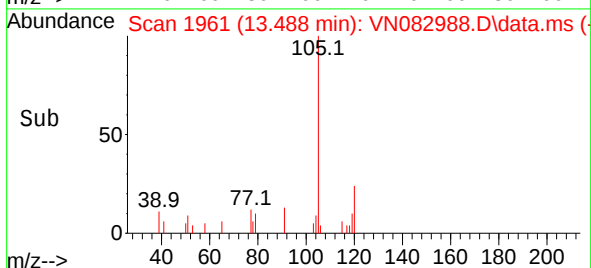
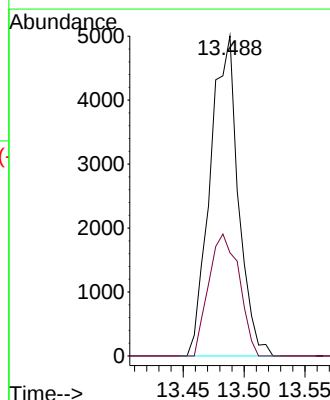
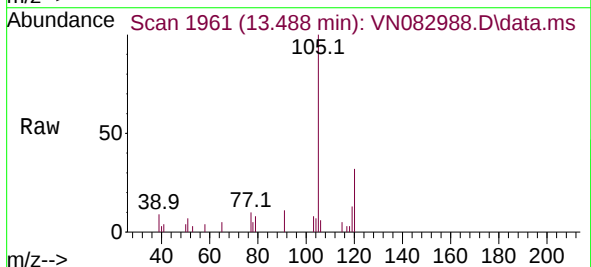
Instrument :
MSVOA_N
ClientSampleId :
A1285

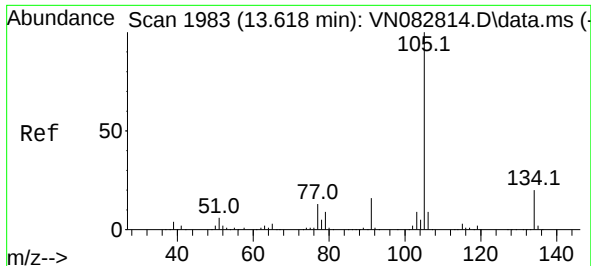
Tgt Ion:119 Resp: 1325
Ion Ratio Lower Upper
119 100
91 74.7 35.0 105.1
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 2.198 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Tgt Ion:105 Resp: 8044
Ion Ratio Lower Upper
105 100
120 41.3 21.9 65.8





#85

sec-Butylbenzene

Concen: 1.870 ug/l

RT: 13.488 min Scan# 1983

Delta R.T. -0.129 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

Instrument :

MSVOA_N

ClientSampleId :

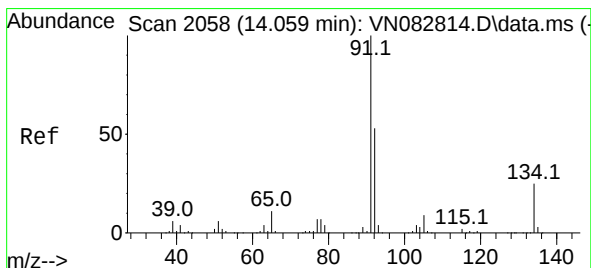
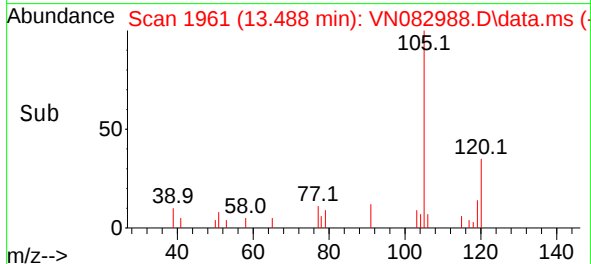
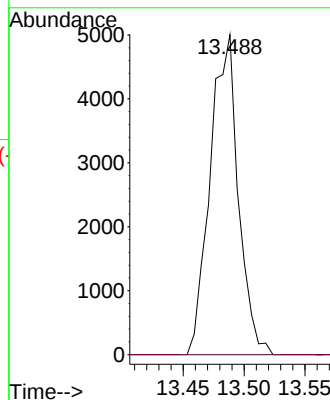
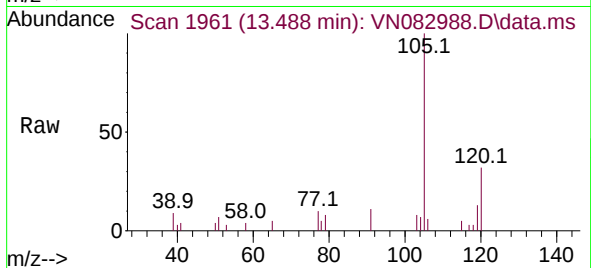
A1285

Tgt Ion:105 Resp: 8044

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.3#



#89

n-Butylbenzene

Concen: 0.505 ug/l

RT: 13.994 min Scan# 2047

Delta R.T. -0.064 min

Lab File: VN082988.D

Acq: 19 Jul 2024 14:58

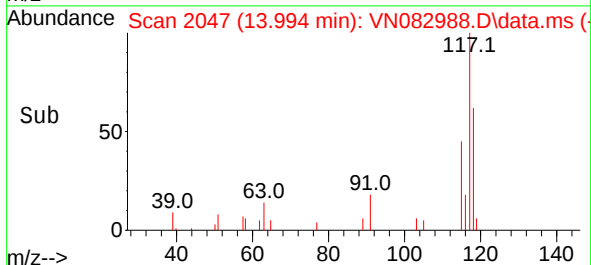
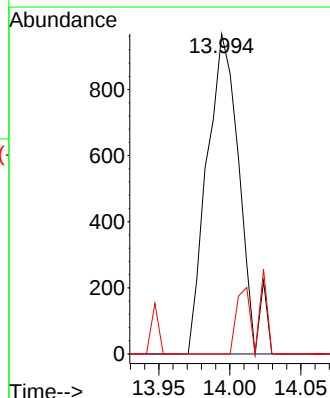
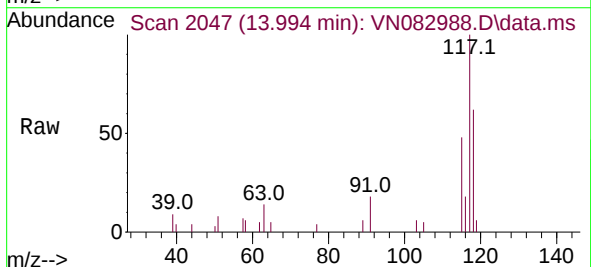
Tgt Ion: 91 Resp: 1552

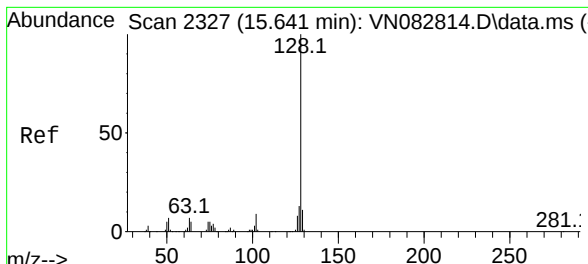
Ion Ratio Lower Upper

91 100

92 0.0 26.1 78.3#

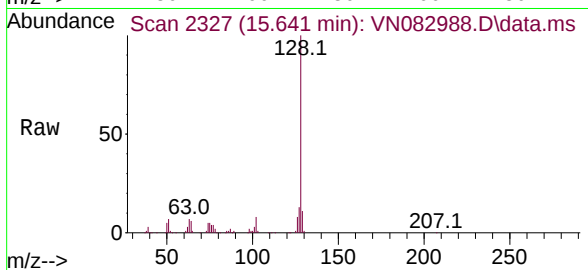
134 8.6 12.1 36.3#





#95
Naphthalene
Concen: 60.586 ug/l
RT: 15.641 min Scan# 24
Delta R.T. 0.000 min
Lab File: VN082988.D
Acq: 19 Jul 2024 14:58

Instrument :
MSVOA_N
ClientSampleId :
A1285



Tgt Ion:128 Resp: 224671

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	10.7	8.6	12.8

