

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
 Data File : VN085376.D
 Acq On : 02 Jan 2025 12:44
 Operator : JC\MD
 Sample : P5399-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 02 13:54:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

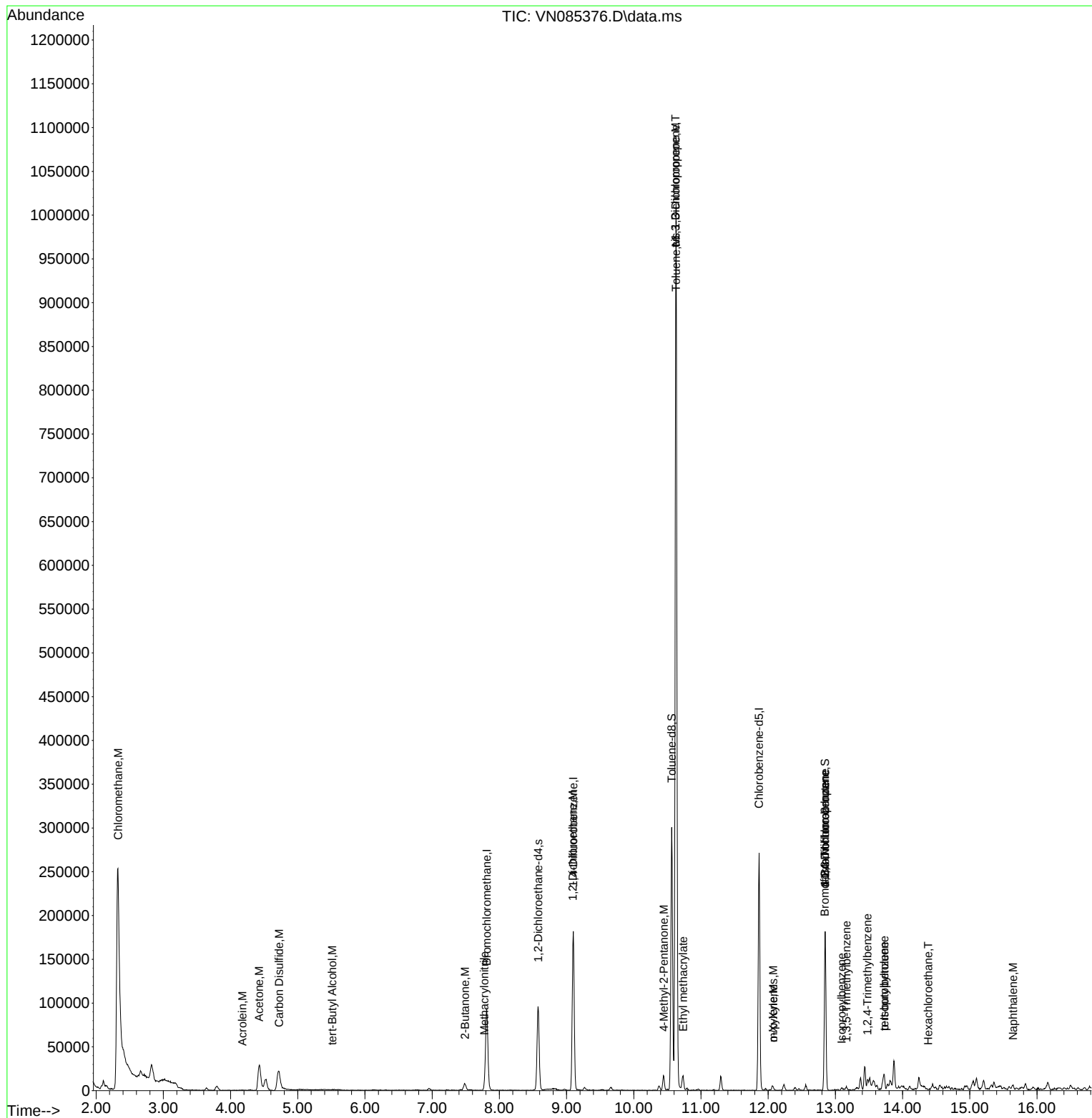
Internal Standards						
1) Bromochloromethane	7.812	128	29248	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	147571	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145951	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78776	30.617	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.067%
60) 4-Bromofluorobenzene	12.847	95	59747	25.272	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.233%
63) Toluene-d8	10.565	98	195621	27.449	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.330	50	12578	5.094	ug/l #	42
13) Acrolein	4.177	56	82	0.340	ug/l #	14
15) Acetone	4.424	58	16448	62.477	ug/l	87
16) Carbon Disulfide	4.724	76	9350	1.702	ug/l #	93
23) tert-Butyl Alcohol	5.512	59	217	0.631	ug/l #	100
30) 2-Butanone	7.488	43	13124	9.704	ug/l #	95
35) Methacrylonitrile	7.777	41	446	0.298	ug/l #	45
36) 1,2-Dichloroethane	9.094	62	5848	1.997	ug/l #	77
48) t-1,3-Dichloropropene	10.623	75	5365	1.809	ug/l #	1
49) cis-1,3-Dichloropropene	10.623	75	5365	1.683	ug/l #	1
51) Ethyl methacrylate	10.735	69	613	0.216	ug/l	85
56) Bromoform	12.841	173	638	0.444	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	11660	3.941	ug/l	96
62) Toluene	10.629	91	732741	81.719	ug/l	100
67) m/p-Xylenes	12.076	106	1393	0.394	ug/l	97
68) o-Xylene	12.076	106	1393	0.413	ug/l	95
70) Isopropylbenzene	13.094	105	2584	0.305	ug/l	86
72) 1,2,3-Trichloropropane	12.847	75	32679	12.788	ug/l	1
76) 1,3,5-Trimethylbenzene	13.164	105	1470	0.203	ug/l	94
77) t-1,4-Dichloro-2-butene	12.847	75	32679	31.289	ug/l #	6
79) tert-butylbenzene	13.729	119	7933	1.343	ug/l	59
80) 1,2,4-Trimethylbenzene	13.476	105	6768	0.941	ug/l	96
82) p-Isopropyltoluene	13.729	119	7933	1.129	ug/l	94
86) Hexachloroethane	14.382	117	409	0.271	ug/l #	18
91) Naphthalene	15.647	128	5911	1.048	ug/l #	85

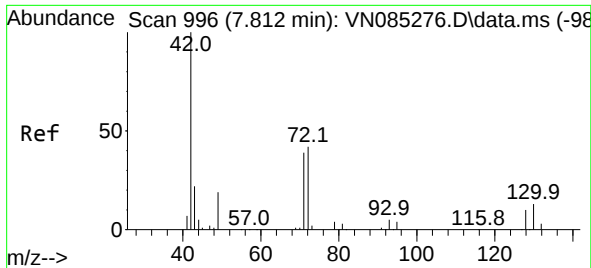
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010225\
Data File : VN085376.D
Acq On : 02 Jan 2025 12:44
Operator : JC\MD
Sample : P5399-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jan 02 13:54:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

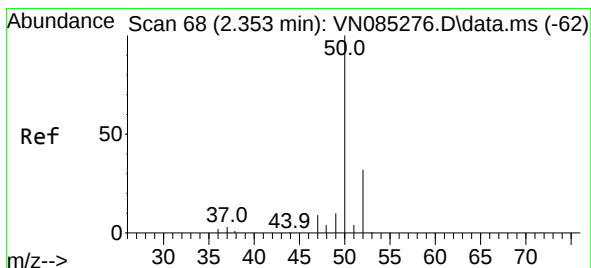
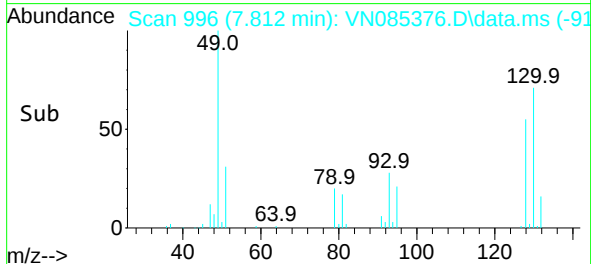
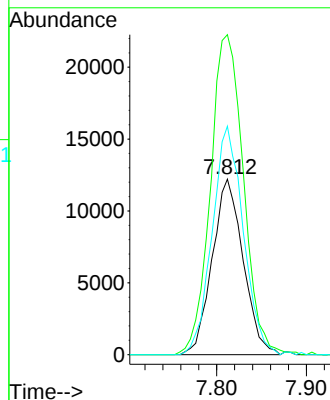
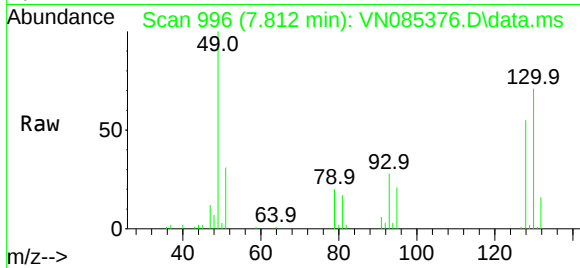




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

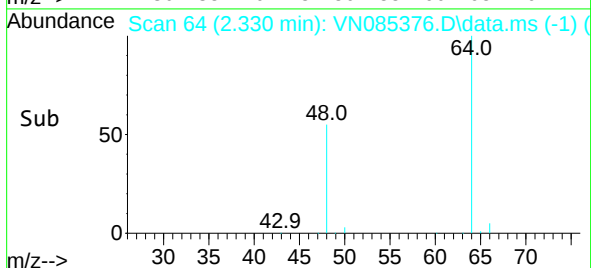
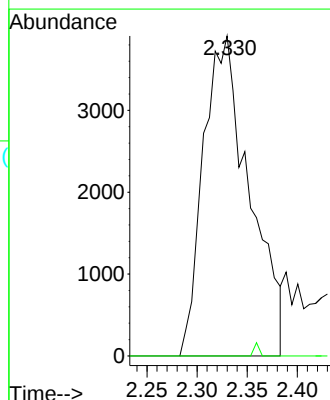
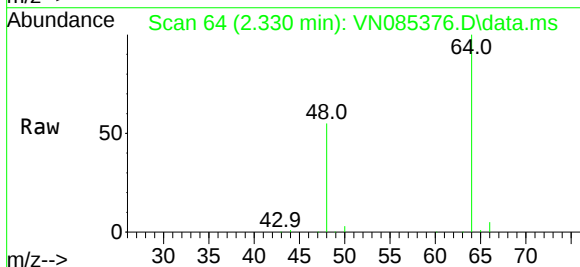
Instrument :
MSVOA_N
ClientSampleId :

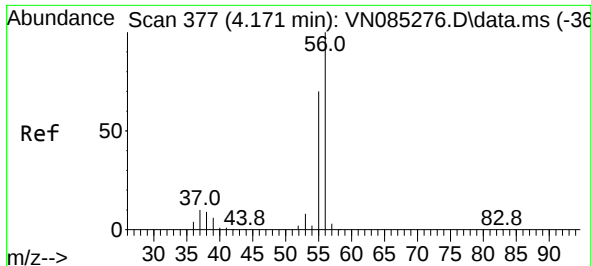
Tgt Ion:128 Resp: 29248
Ion Ratio Lower Upper
128 100
49 193.9 0.0 497.8
130 130.5 0.0 328.5



#3
Chloromethane
Concen: 5.094 ug/l
RT: 2.330 min Scan# 64
Delta R.T. -0.029 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 50 Resp: 12578
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

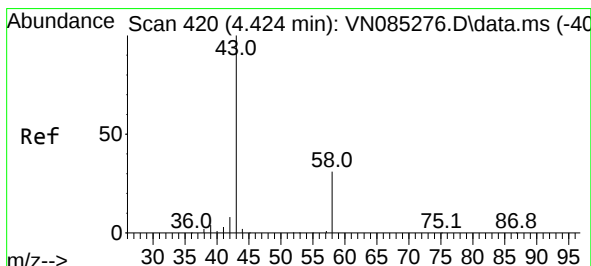
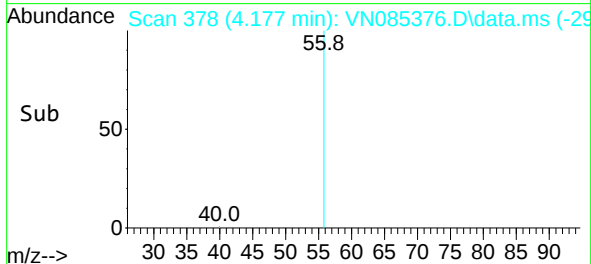
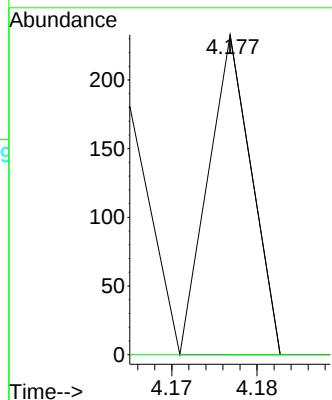
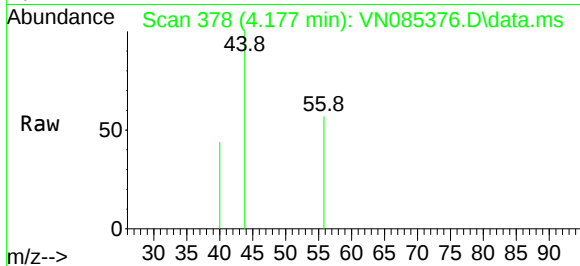




#13
Acrolein
Concen: 0.340 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

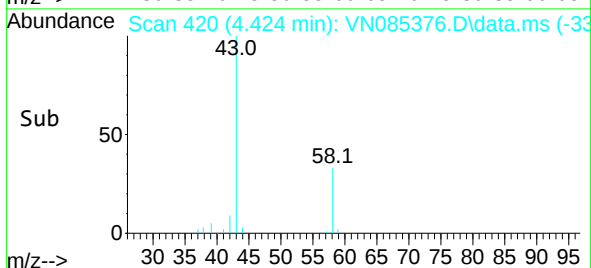
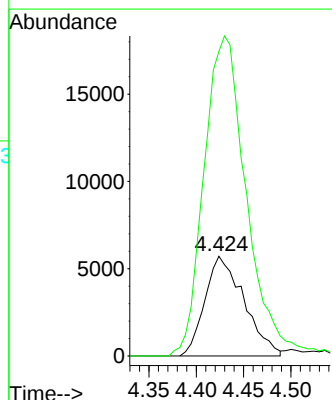
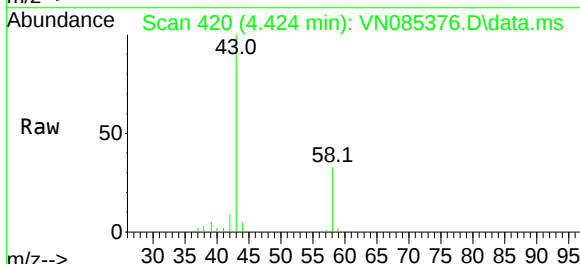
Instrument :
MSVOA_N
ClientSampleId :

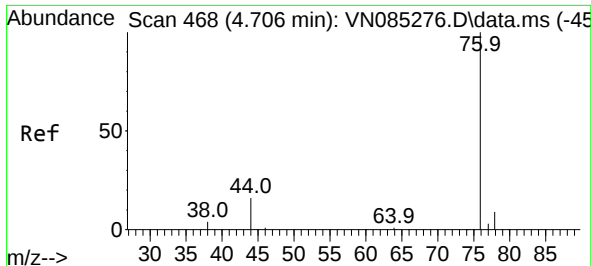
Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#



#15
Acetone
Concen: 62.477 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

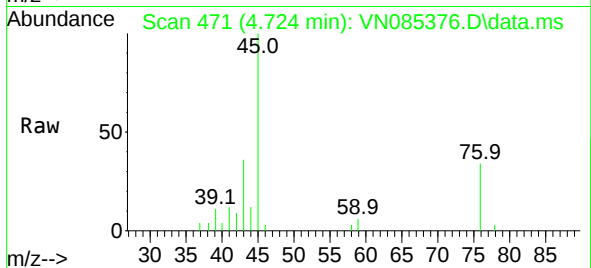
Tgt Ion: 58 Resp: 16448
Ion Ratio Lower Upper
58 100
43 296.9 258.8 388.2



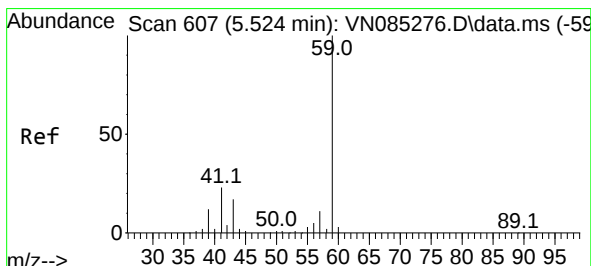
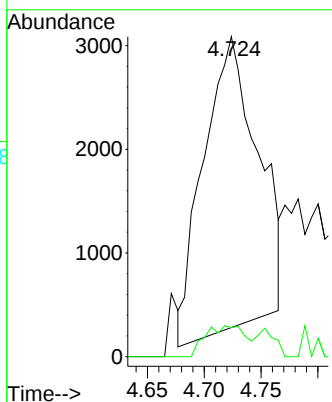
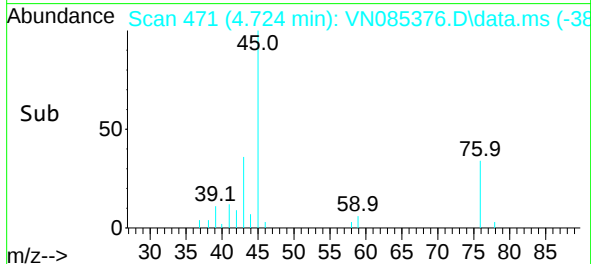


#16
Carbon Disulfide
Concen: 1.702 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :

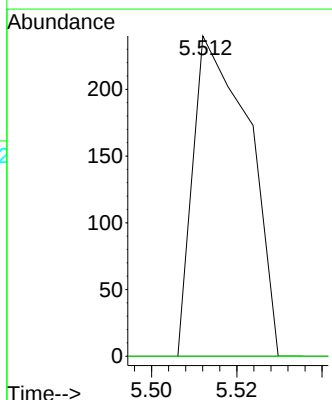
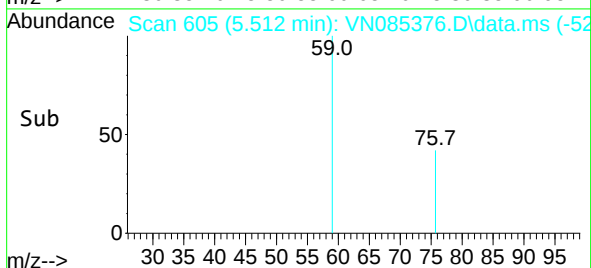
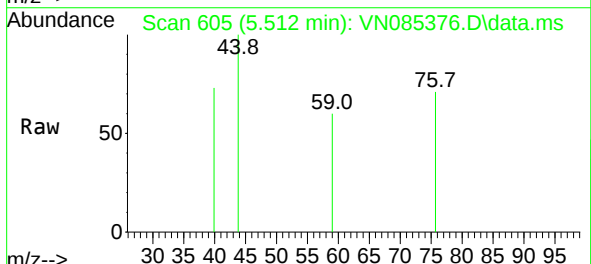


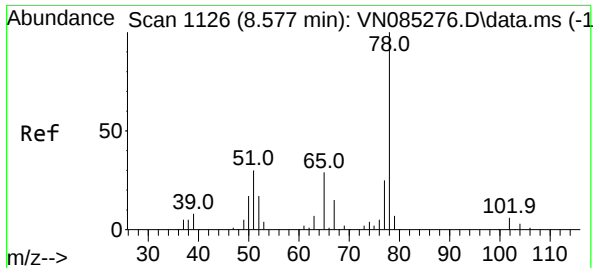
Tgt Ion: 76 Resp: 9350
Ion Ratio Lower Upper
76 100
78 10.6 6.6 9.8#



#23
tert-Butyl Alcohol
Concen: 0.631 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 59 Resp: 217
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 30.617 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

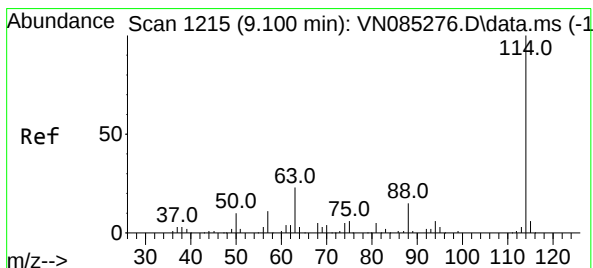
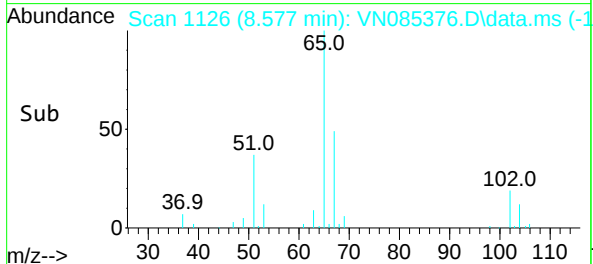
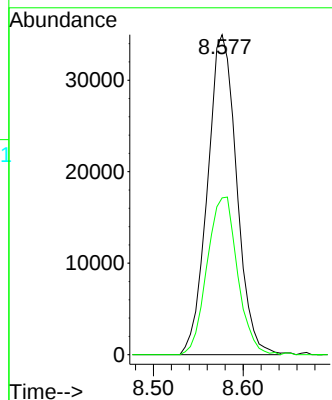
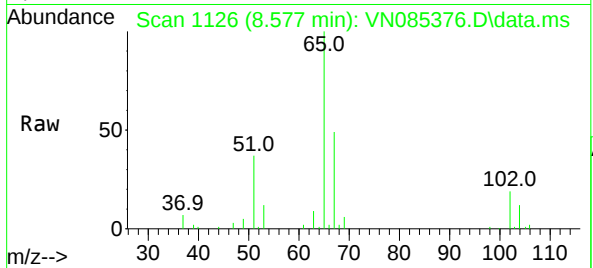
ClientSampleId :

Tgt Ion: 65 Resp: 78776

Ion Ratio Lower Upper

65 100

67 51.4 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

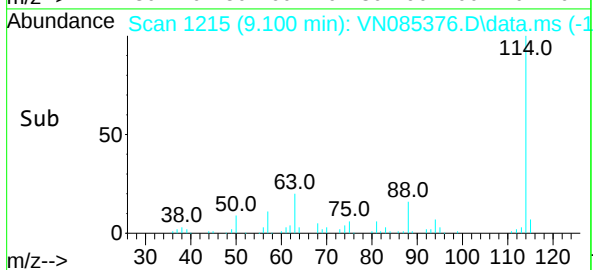
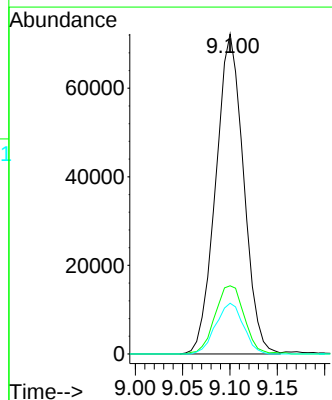
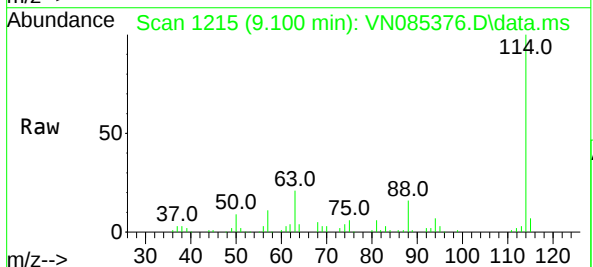
Tgt Ion: 114 Resp: 147571

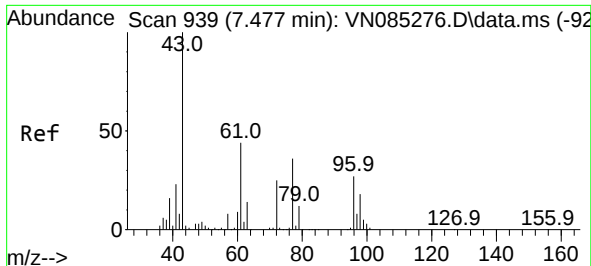
Ion Ratio Lower Upper

114 100

63 22.5 18.0 27.0

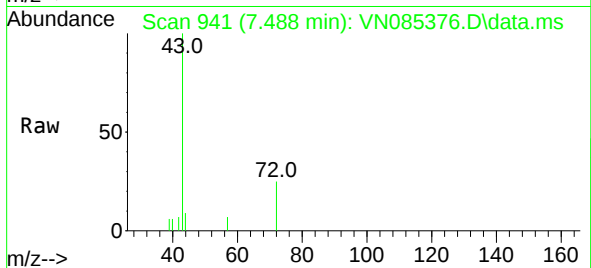
88 15.7 12.9 19.3



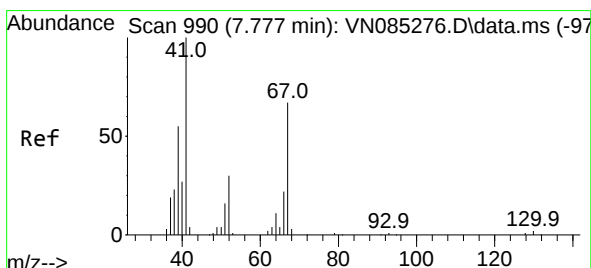
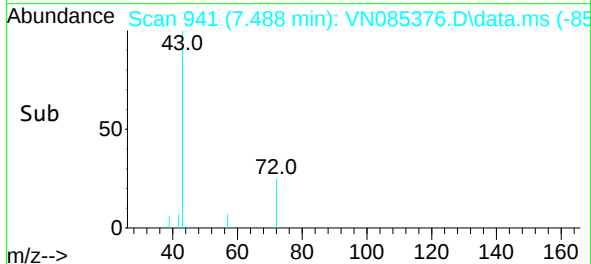
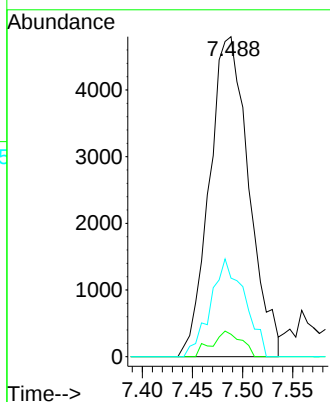


#30
2-Butanone
Concen: 9.704 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :

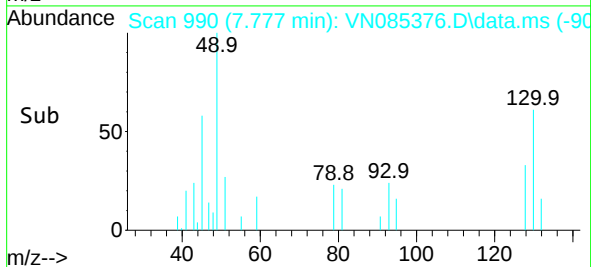
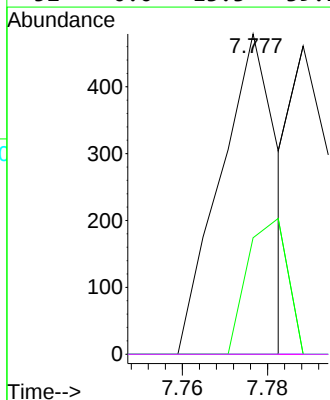
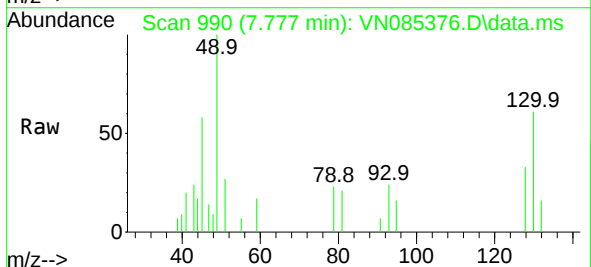


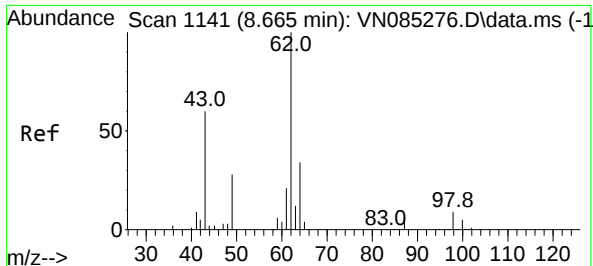
Tgt Ion: 43 Resp: 13124
Ion Ratio Lower Upper
43 100
57 4.5 6.2 9.2#
72 26.5 19.9 29.9



#35
Methacrylonitrile
Concen: 0.298 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 41 Resp: 446
Ion Ratio Lower Upper
41 100
39 36.3 26.7 80.0
67 0.0 32.5 97.5#
52 0.0 13.3 39.9#





#36

1,2-Dichloroethane

Concen: 1.997 ug/l

RT: 9.094 min Scan# 1141

Delta R.T. 0.429 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

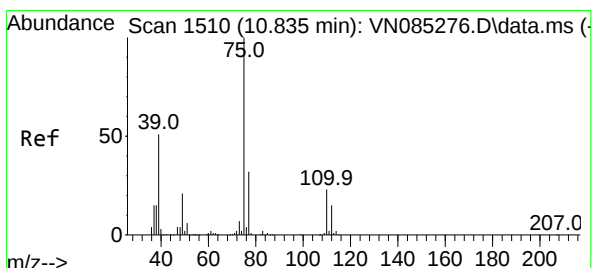
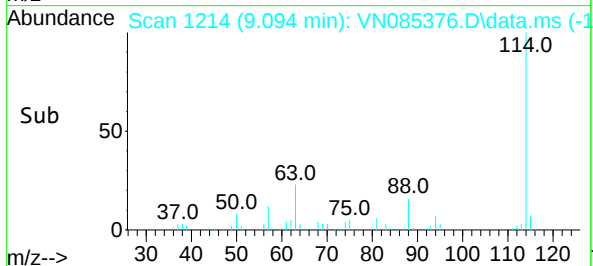
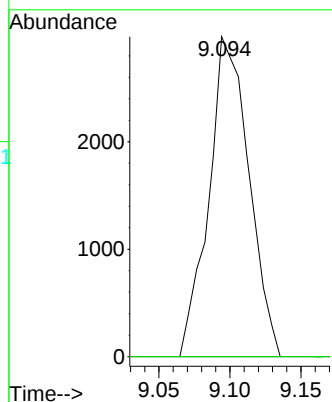
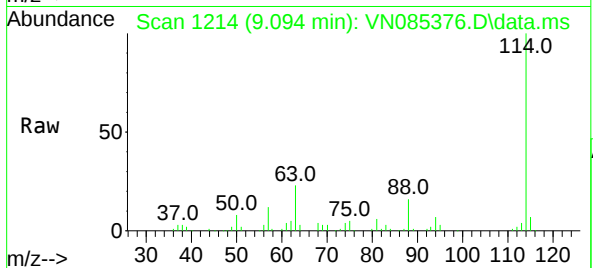
ClientSampleId :

Tgt Ion: 62 Resp: 5848

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#48

t-1,3-Dichloropropene

Concen: 1.809 ug/l

RT: 10.623 min Scan# 1474

Delta R.T. -0.206 min

Lab File: VN085376.D

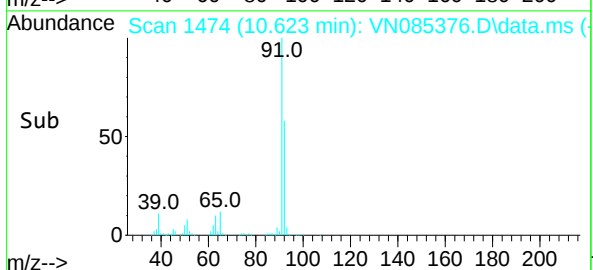
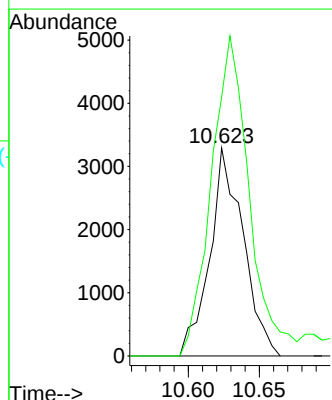
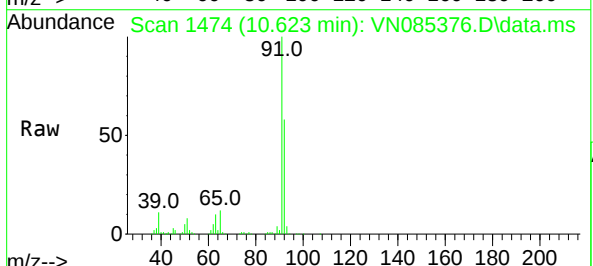
Acq: 02 Jan 2025 12:44

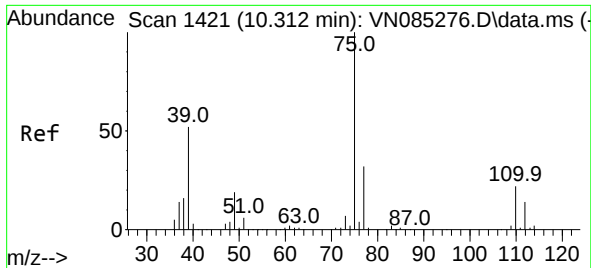
Tgt Ion: 75 Resp: 5365

Ion Ratio Lower Upper

75 100

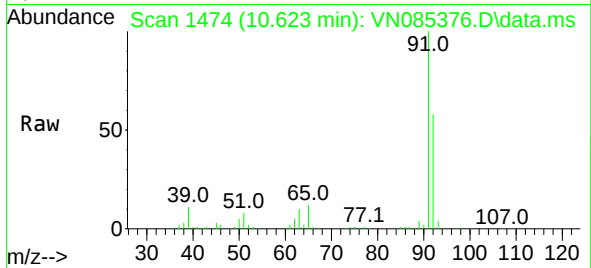
77 124.5 23.8 35.6#



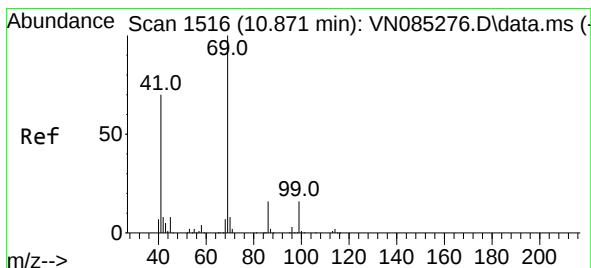
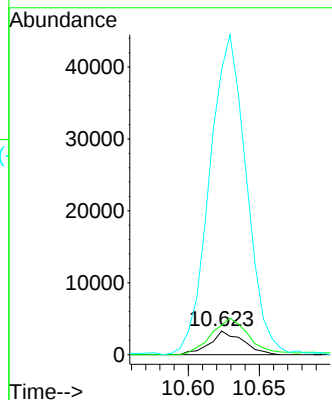
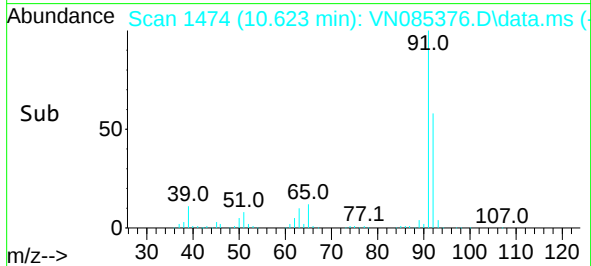


#49
 cis-1,3-Dichloropropene
 Concen: 1.683 ug/l
 RT: 10.623 min Scan# 1421
 Delta R.T. 0.312 min
 Lab File: VN085376.D
 Acq: 02 Jan 2025 12:44

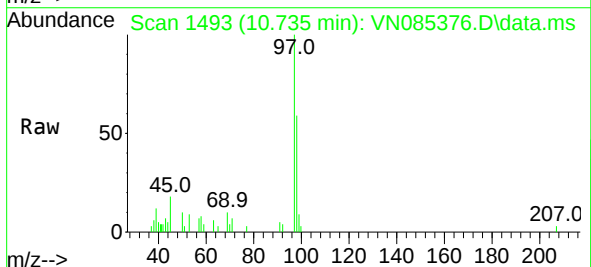
Instrument :
 MSVOA_N
 ClientSampleId :



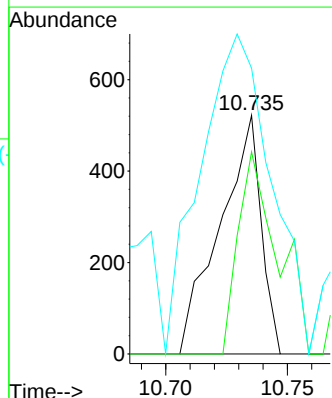
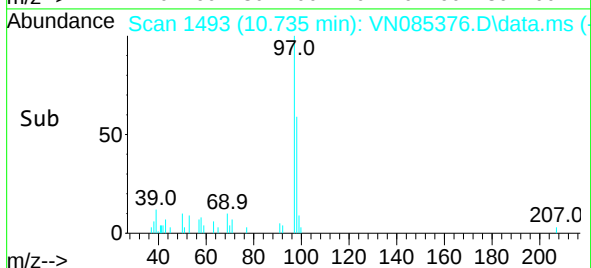
Tgt Ion: 75 Resp: 5365
 Ion Ratio Lower Upper
 75 100
 77 124.5 26.6 40.0#
 39 1176.6 41.9 62.9#

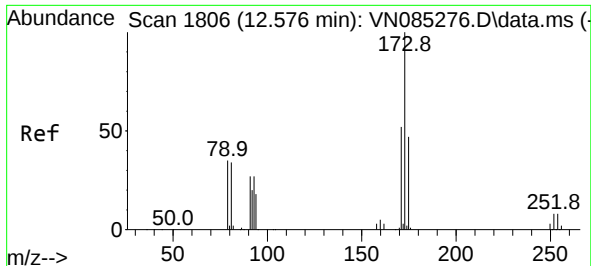


#51
 Ethyl methacrylate
 Concen: 0.216 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.135 min
 Lab File: VN085376.D
 Acq: 02 Jan 2025 12:44



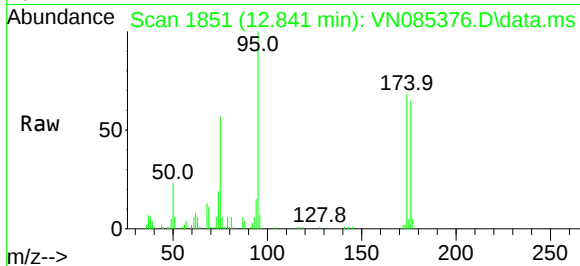
Tgt Ion: 69 Resp: 613
 Ion Ratio Lower Upper
 69 100
 41 84.7 38.1 114.5
 39 64.6 24.1 72.2



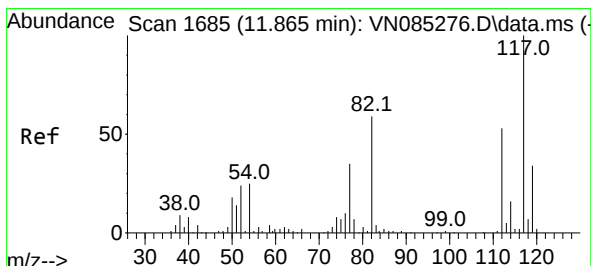
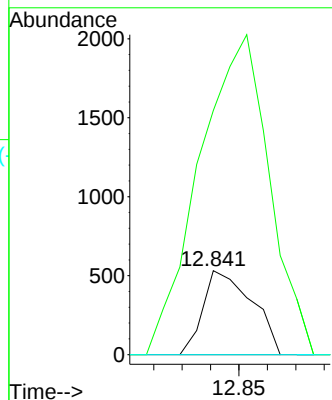
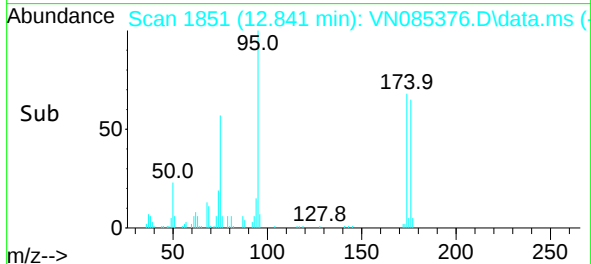


#56
Bromoform
Concen: 0.444 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :

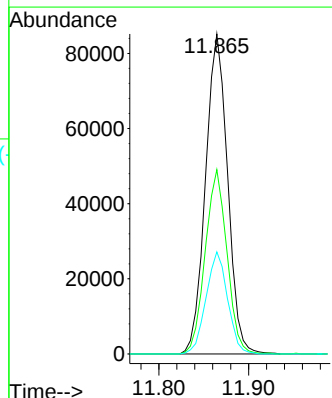
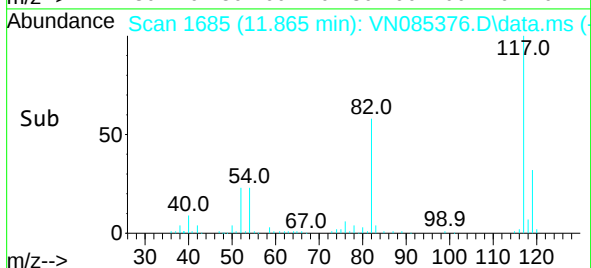
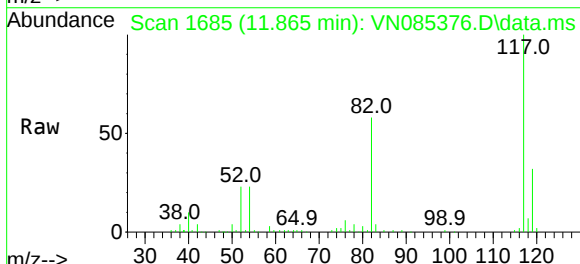


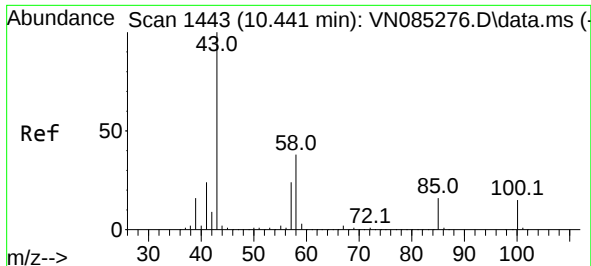
Tgt Ion:173 Resp: 638
Ion Ratio Lower Upper
173 100
175 544.5 39.4 59.2#
254 0.0 7.2 10.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

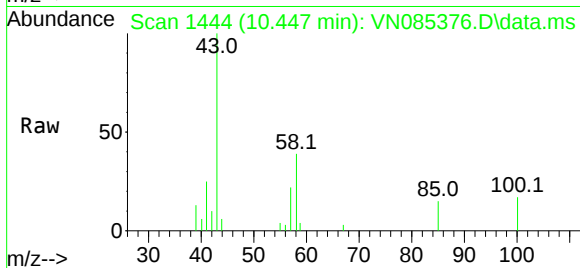
Tgt Ion:117 Resp: 145951
Ion Ratio Lower Upper
117 100
82 56.7 47.4 71.0
119 31.0 25.3 37.9



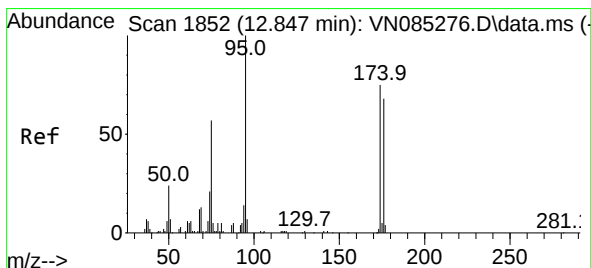
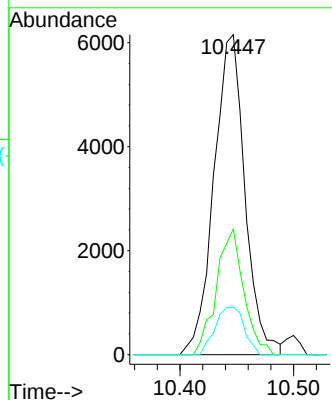
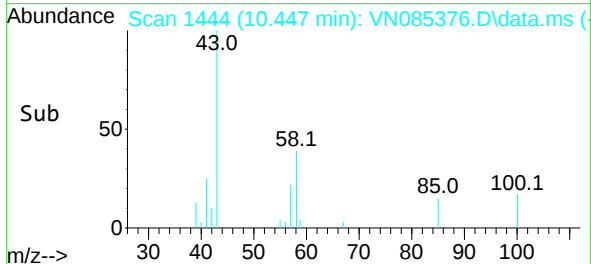


#58
4-Methyl-2-Pentanone
Concen: 3.941 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

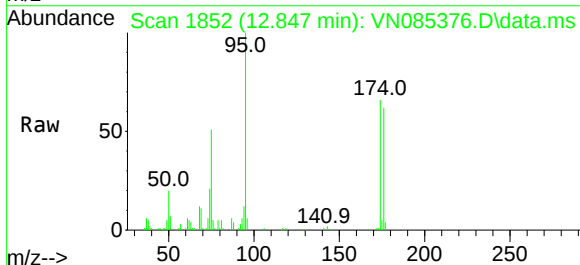
Instrument :
MSVOA_N
ClientSampleId :



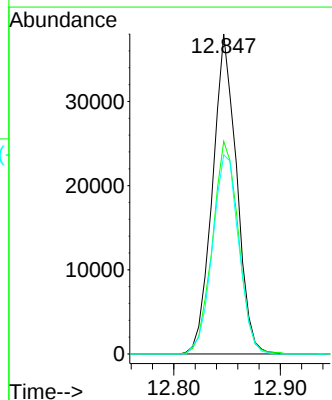
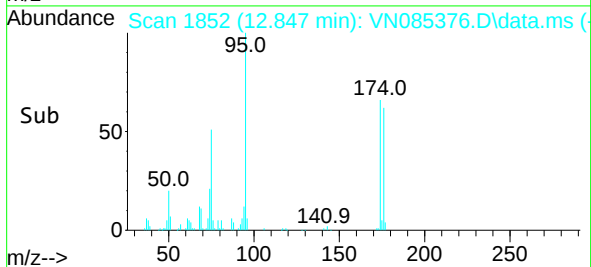
Tgt Ion: 43 Resp: 11660
Ion Ratio Lower Upper
43 100
58 34.7 29.2 43.8
85 13.9 12.8 19.2

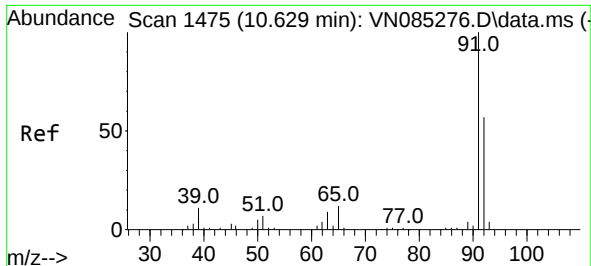


#60
4-Bromofluorobenzene
Concen: 25.272 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44



Tgt Ion: 95 Resp: 59747
Ion Ratio Lower Upper
95 100
174 71.7 57.8 86.8
176 68.3 57.1 85.7

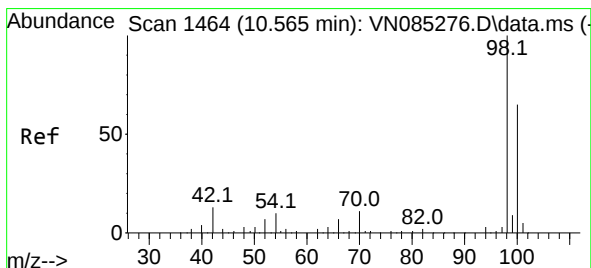
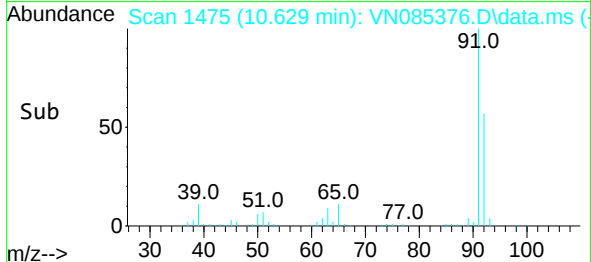
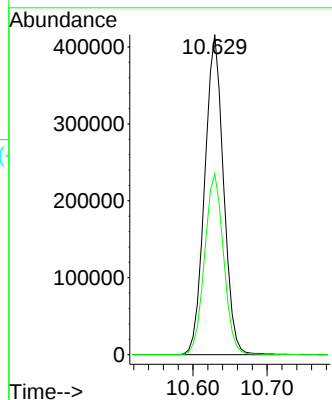
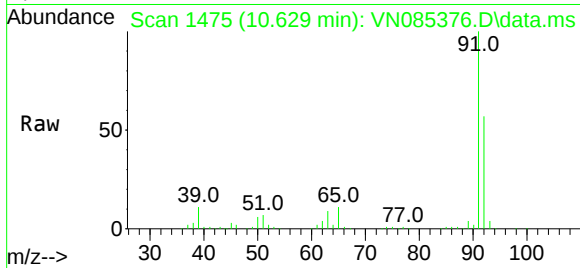




#62
Toluene
Concen: 81.719 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

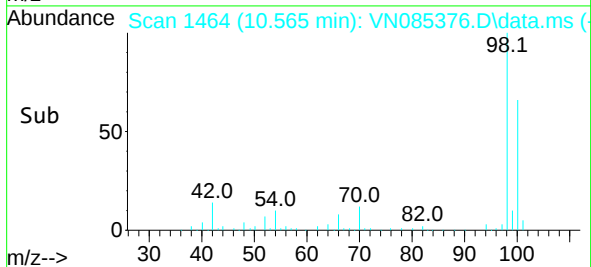
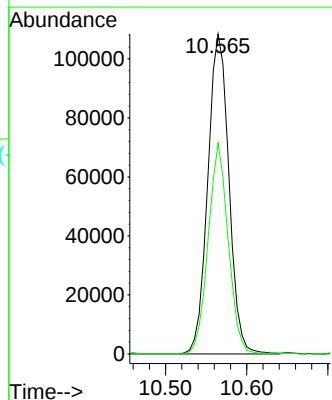
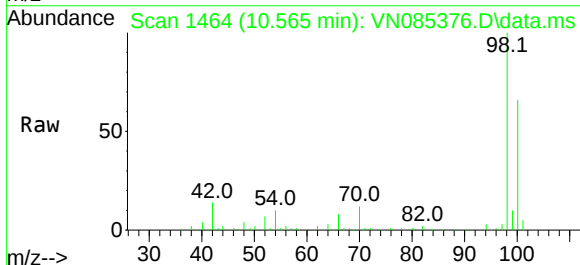
Instrument :
MSVOA_N
ClientSampleId :

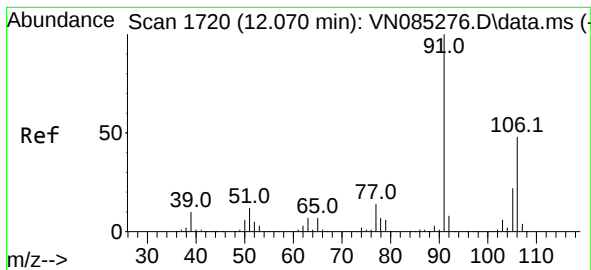
Tgt Ion: 91 Resp: 732741
Ion Ratio Lower Upper
91 100
92 57.2 45.9 68.9



#63
Toluene-d8
Concen: 27.449 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 98 Resp: 195621
Ion Ratio Lower Upper
98 100
100 62.5 50.8 76.2

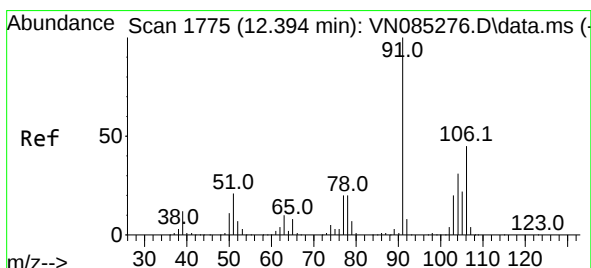
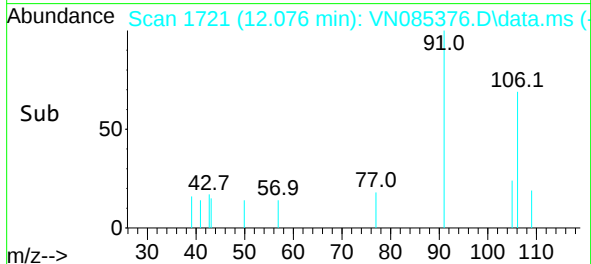
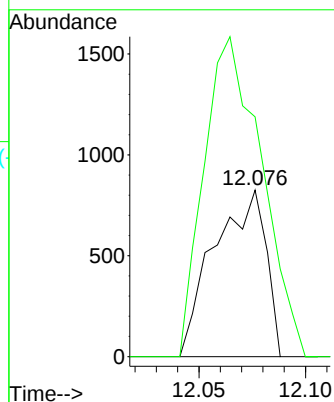
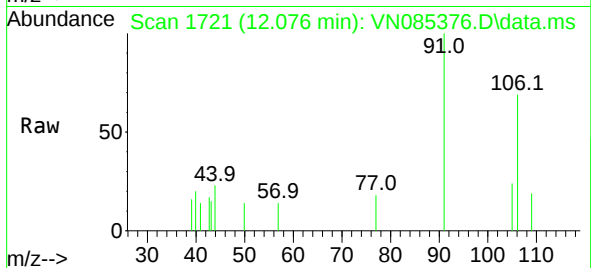




#67
m/p-Xylenes
Concen: 0.394 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

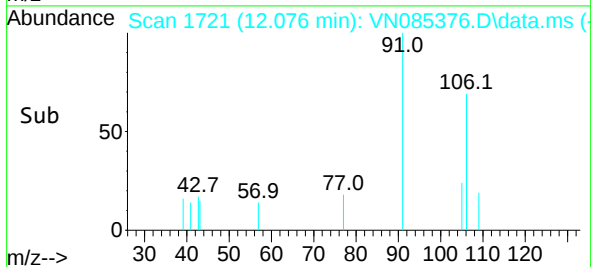
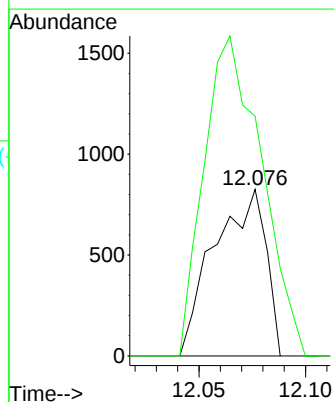
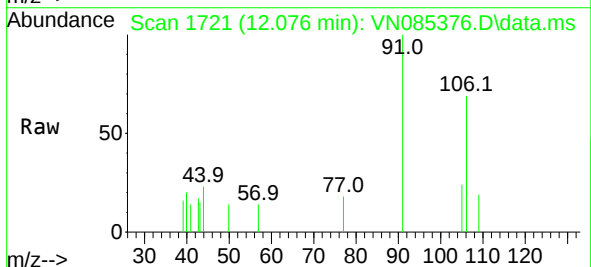
Instrument :
MSVOA_N
ClientSampleId :

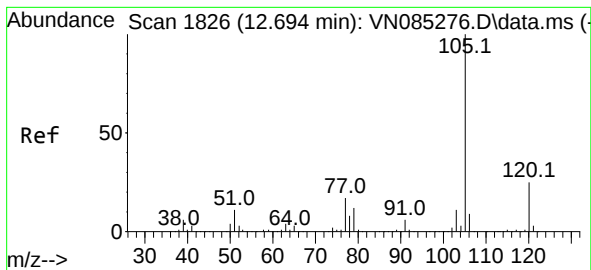
Tgt Ion:106 Resp: 1393
Ion Ratio Lower Upper
106 100
91 213.6 167.0 250.4



#68
o-Xylene
Concen: 0.413 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. -0.318 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion:106 Resp: 1393
Ion Ratio Lower Upper
106 100
91 213.6 110.6 331.8





#70

Isopropylbenzene

Concen: 0.305 ug/l

RT: 13.094 min Scan# 11

Delta R.T. 0.400 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

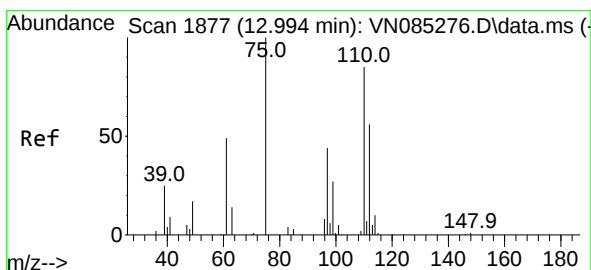
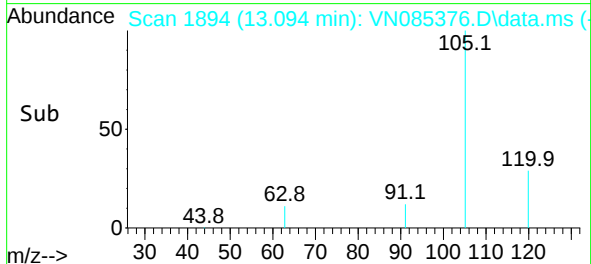
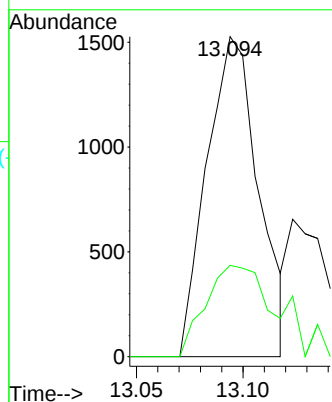
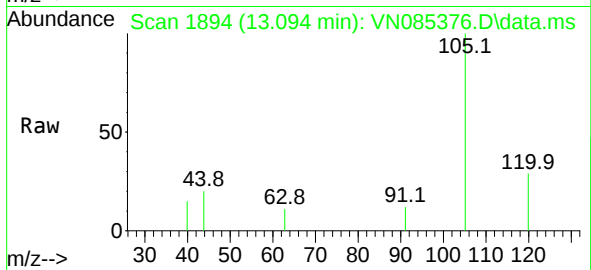
ClientSampleId :

Tgt Ion:105 Resp: 2584

Ion Ratio Lower Upper

105 100

120 33.3 18.4 34.2



#72

1,2,3-Trichloropropane

Concen: 12.788 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085376.D

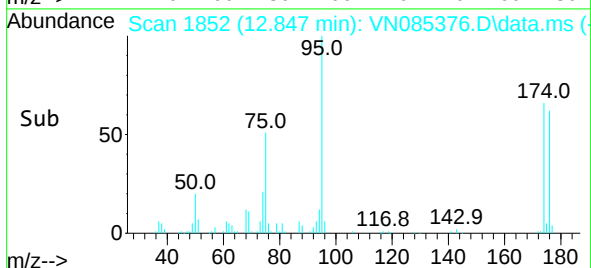
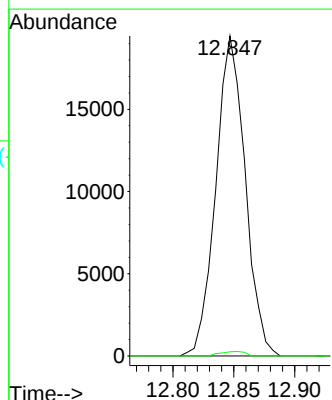
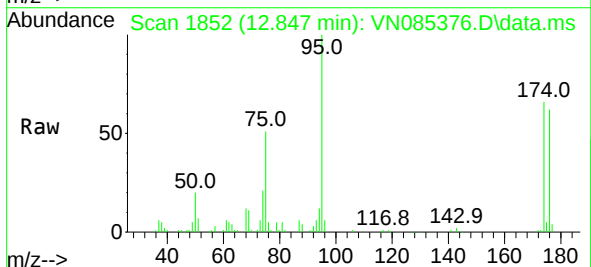
Acq: 02 Jan 2025 12:44

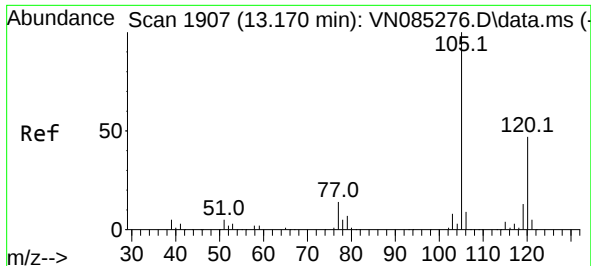
Tgt Ion: 75 Resp: 32679

Ion Ratio Lower Upper

75 100

77 1.2 0.0 407.2

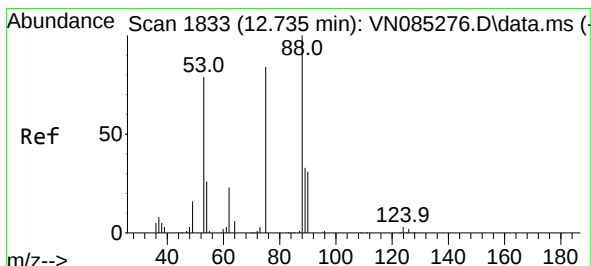
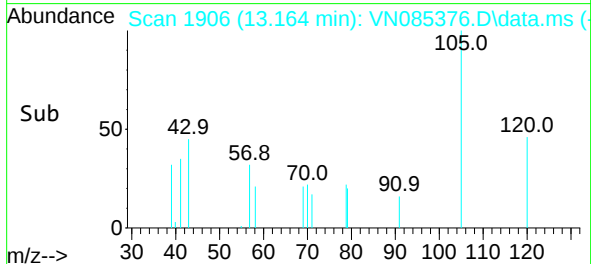
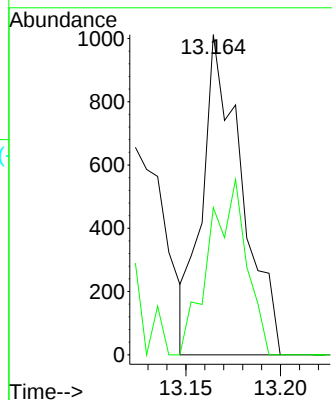
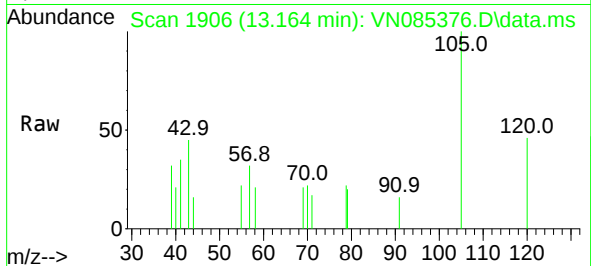




#76
1,3,5-Trimethylbenzene
Concen: 0.203 ug/l
RT: 13.164 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

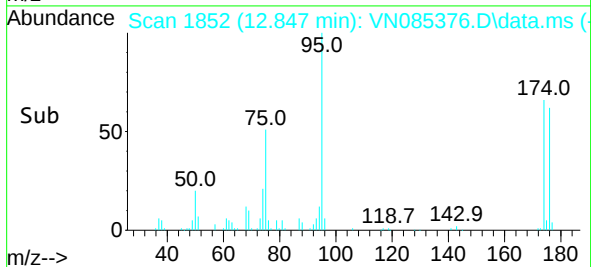
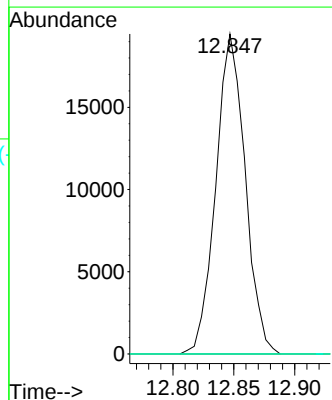
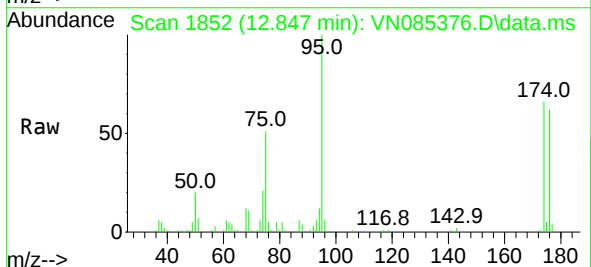
Instrument :
MSVOA_N
ClientSampleId :

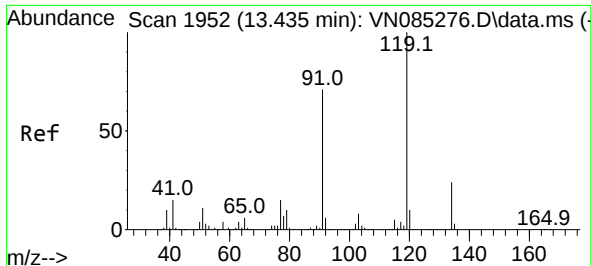
Tgt Ion:105 Resp: 1470
Ion Ratio Lower Upper
105 100
120 51.8 0.0 95.0



#77
t-1,4-Dichloro-2-butene
Concen: 31.289 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Tgt Ion: 75 Resp: 32679
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#





#79

tert-butylbenzene

Concen: 1.343 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.294 min

Lab File: VN085376.D

Acq: 02 Jan 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

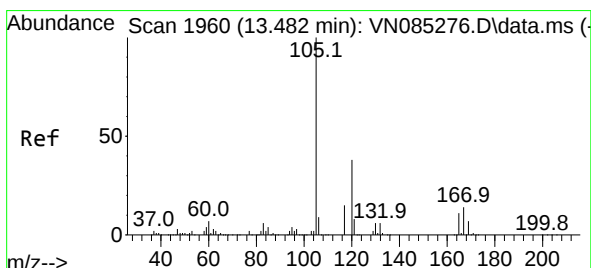
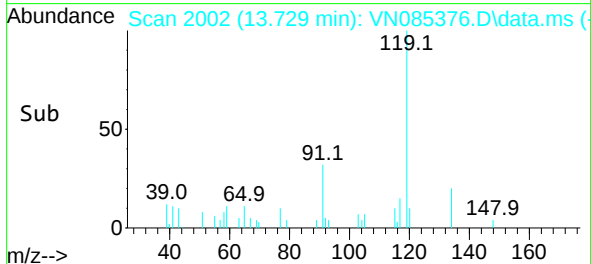
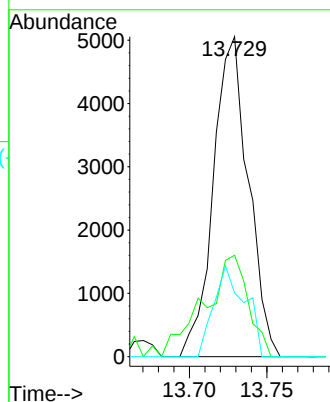
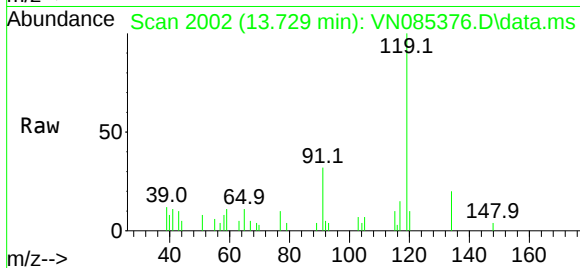
Tgt Ion:119 Resp: 7933

Ion Ratio Lower Upper

119 100

91 27.0 0.0 142.0

134 21.1 0.0 49.0



#80

1,2,4-Trimethylbenzene

Concen: 0.941 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN085376.D

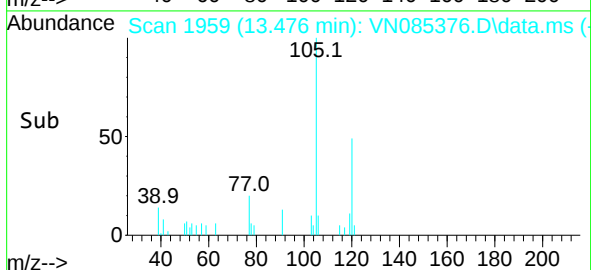
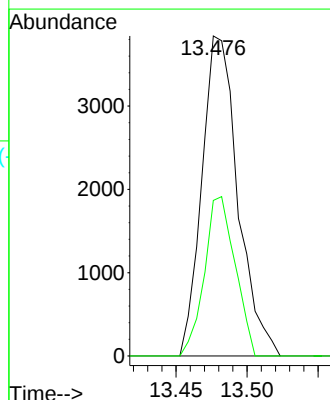
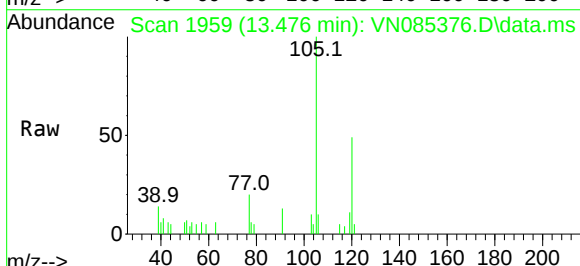
Acq: 02 Jan 2025 12:44

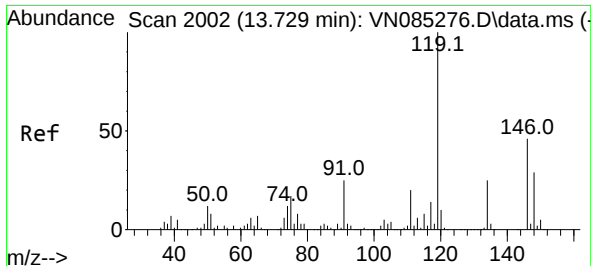
Tgt Ion:105 Resp: 6768

Ion Ratio Lower Upper

105 100

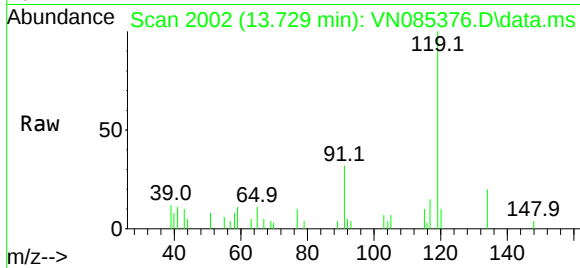
120 42.4 0.0 89.8



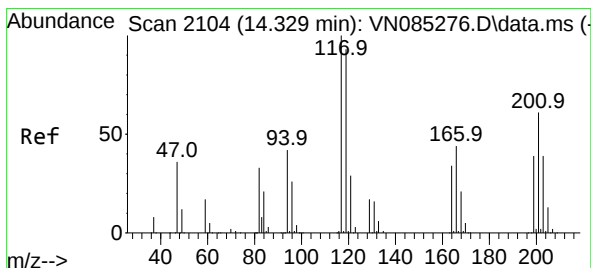
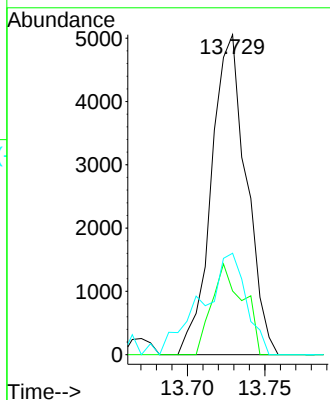
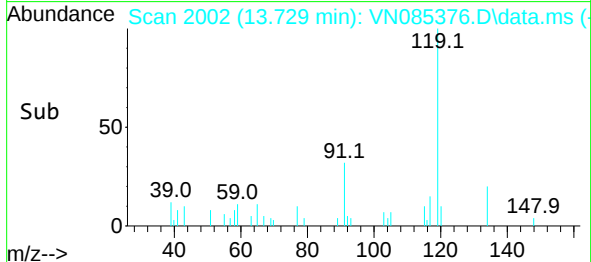


#82
p-Isopropyltoluene
Concen: 1.129 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

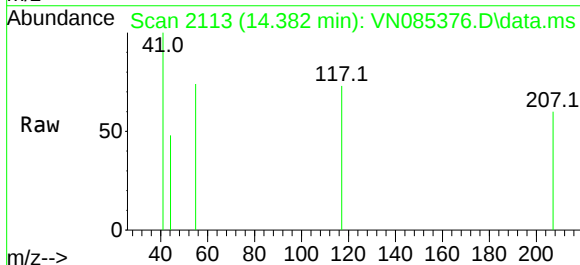
Instrument :
MSVOA_N
ClientSampleId :



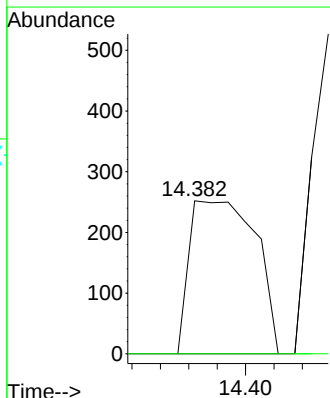
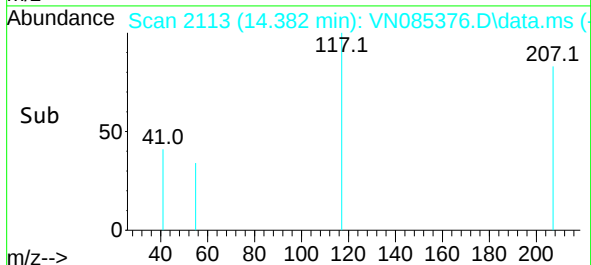
Tgt Ion:119 Resp: 7933
Ion Ratio Lower Upper
119 100
134 21.1 0.0 51.4
91 27.0 0.0 51.4

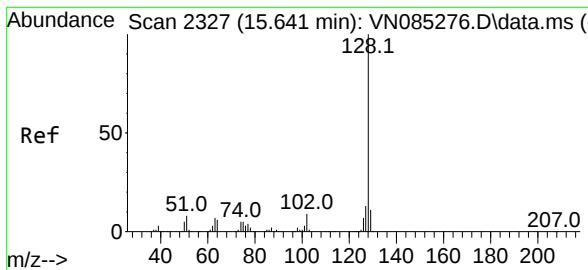


#86
Hexachloroethane
Concen: 0.271 ug/l
RT: 14.382 min Scan# 2113
Delta R.T. 0.053 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44



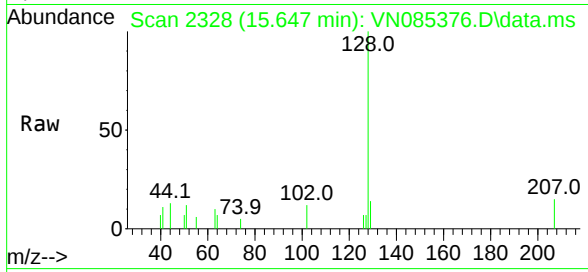
Tgt Ion:117 Resp: 409
Ion Ratio Lower Upper
117 100
201 0.0 31.8 95.3#





#91
Naphthalene
Concen: 1.048 ug/l
RT: 15.647 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085376.D
Acq: 02 Jan 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	5911
Ion	Ratio	Lower	Upper
128	100		
127	3.7	10.6	16.0#
129	12.5	8.6	13.0

