

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085212.D
 Acq On : 16 Dec 2024 12:21
 Operator : JC\MD
 Sample : P5276-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 12:40:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

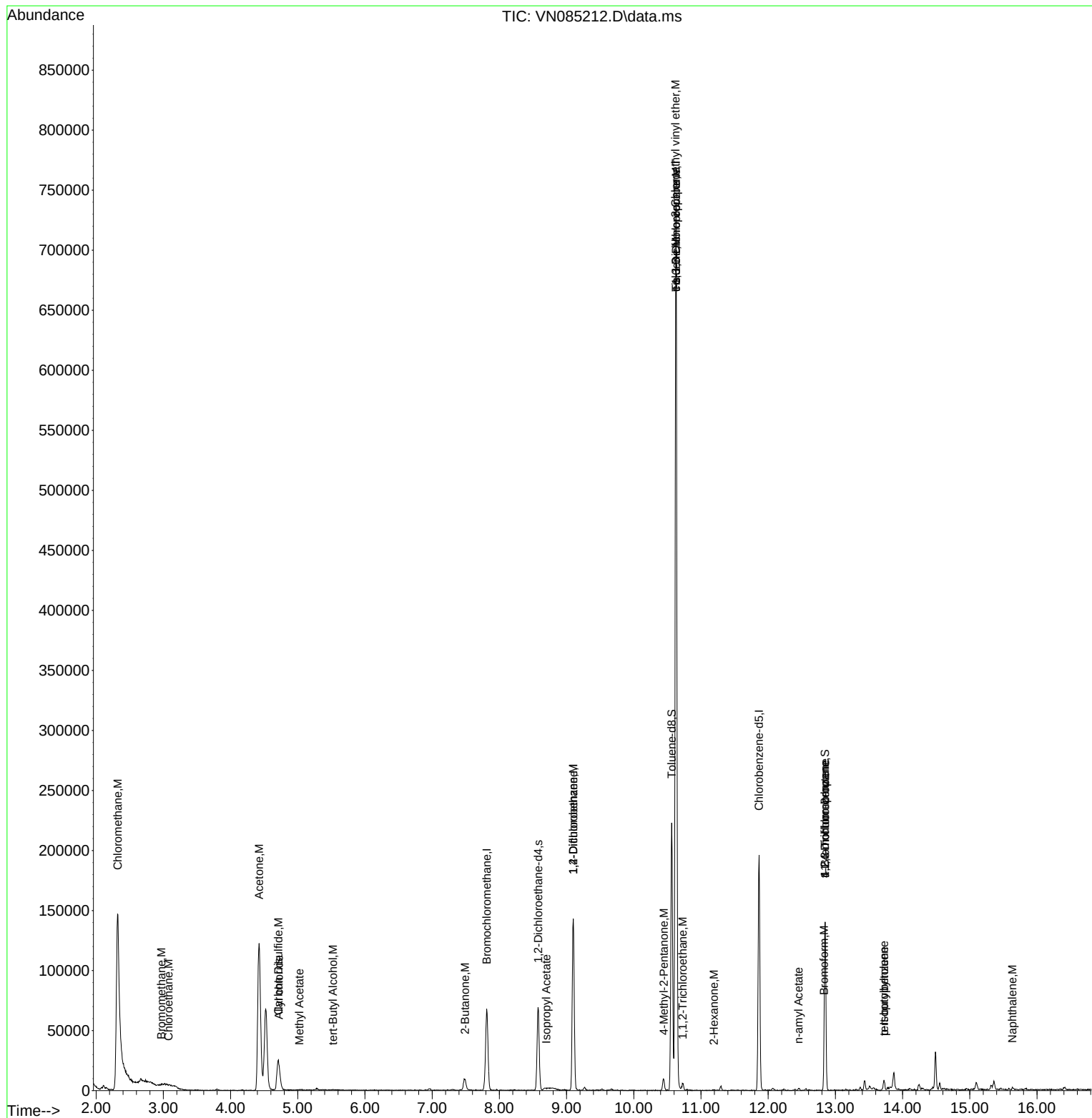
Internal Standards						
1) Bromochloromethane	7.812	128	23791	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	122910	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	115669	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	58262	30.863	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.867%			
60) 4-Bromofluorobenzene	12.847	95	51520	26.919	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 89.733%			
63) Toluene-d8	10.565	98	153509	28.292	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 94.300%			
Target Compounds						Qvalue
3) Chloromethane	2.324	50	5571	3.307	ug/l #	43
5) Bromomethane	2.971	94	305	0.279	ug/l #	60
6) Chloroethane	3.077	64	654	0.618	ug/l #	43
12) Methyl Acetate	5.024	43	772	0.452	ug/l #	51
15) Acetone	4.424	58	74703	388.405	ug/l	95
16) Carbon Disulfide	4.712	76	3326	0.768	ug/l #	75
17) Allyl chloride	4.718	41	3966	1.913	ug/l	85
23) tert-Butyl Alcohol	5.524	59	145	0.569	ug/l #	100
30) 2-Butanone	7.488	43	17363	19.077	ug/l #	97
36) 1,2-Dichloroethane	9.100	62	4070	1.919	ug/l #	75
44) Isopropyl Acetate	8.700	43	1670	0.531	ug/l #	48
47) n-amyl Acetate	12.453	43	688	0.260	ug/l	96
48) t-1,3-Dichloropropene	10.629	75	3901	1.717	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	3901	1.577	ug/l #	1
50) 1,1,2-Trichloroethane	10.729	97	4722	3.237	ug/l #	20
55) 2-Chloroethyl vinyl ether	10.624	63	39354	38.185	ug/l #	1
56) Bromoform	12.829	173	290	0.243	ug/l #	34
58) 4-Methyl-2-Pentanone	10.447	43	7291	3.862	ug/l #	92
59) 2-Hexanone	11.194	43	407	0.285	ug/l #	33
62) Toluene	10.629	91	565173	83.781	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	26859	13.395	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	26859	36.863	ug/l #	10
79) tert-butylbenzene	13.723	119	5009	1.067	ug/l	52
82) p-Isopropyltoluene	13.723	119	5009	0.906	ug/l	91
91) Naphthalene	15.635	128	1710	0.389	ug/l #	68

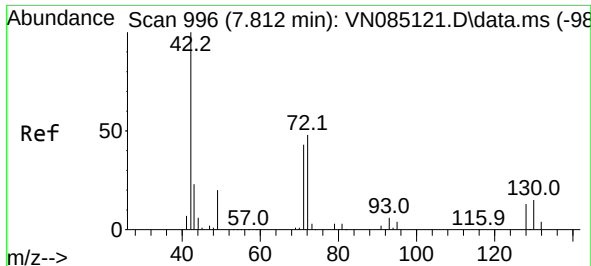
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN085212.D
Acq On : 16 Dec 2024 12:21
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

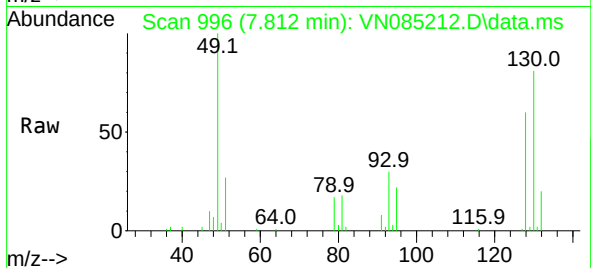
Quant Time: Dec 16 12:40:19 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration



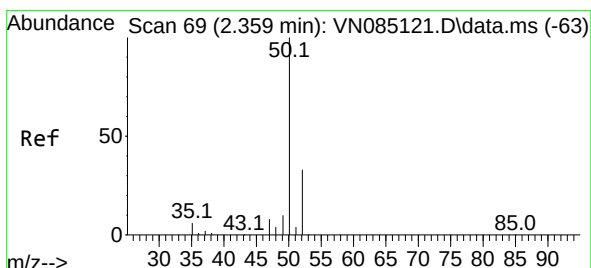
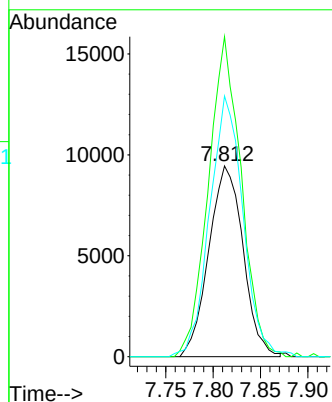
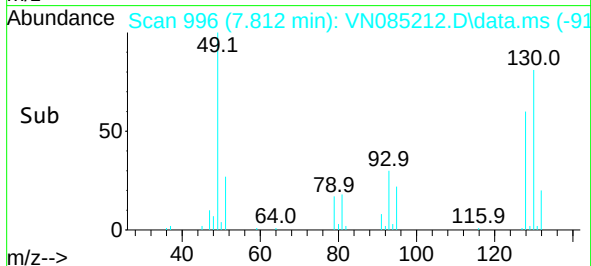


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :

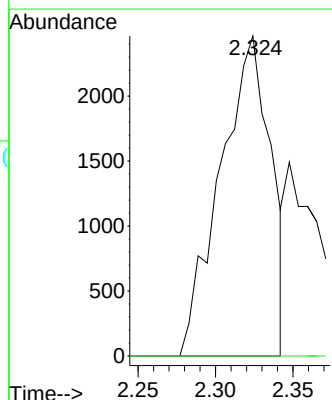
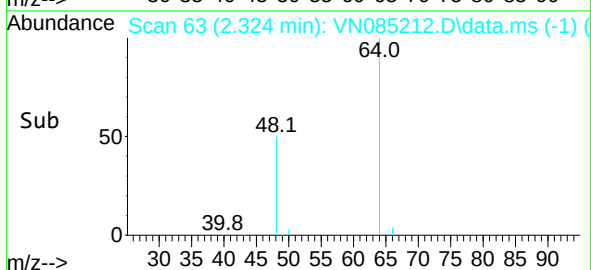
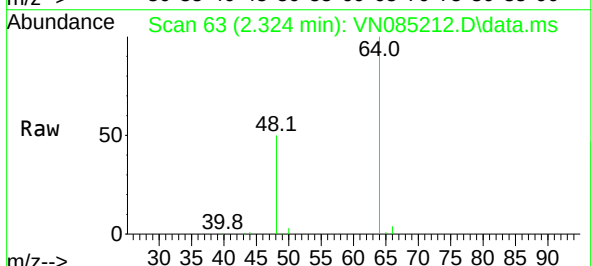


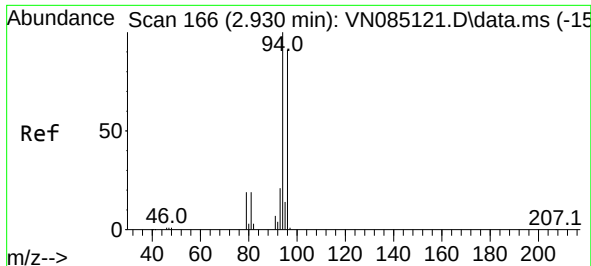
Tgt Ion:128 Resp: 23791
Ion Ratio Lower Upper
128 100
49 160.3 0.0 394.5
130 132.6 0.0 316.5



#3
Chloromethane
Concen: 3.307 ug/l
RT: 2.324 min Scan# 63
Delta R.T. -0.035 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Tgt Ion: 50 Resp: 5571
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

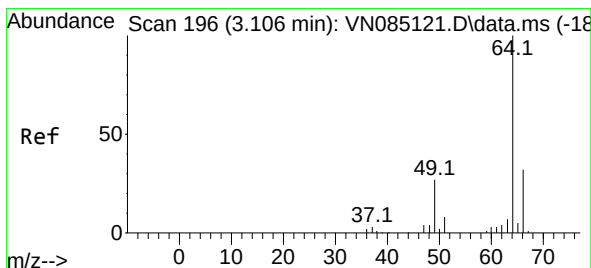
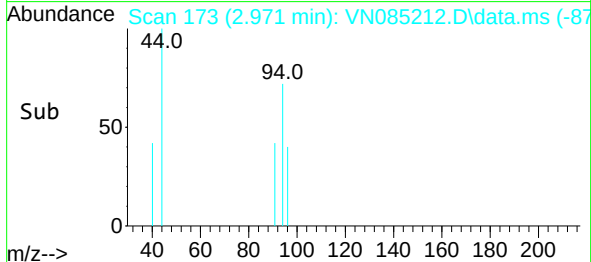
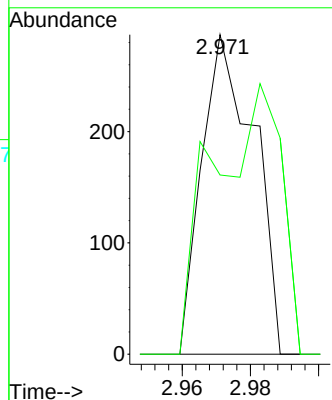
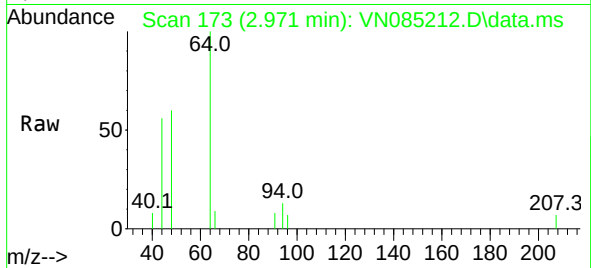




#5
Bromomethane
Concen: 0.279 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

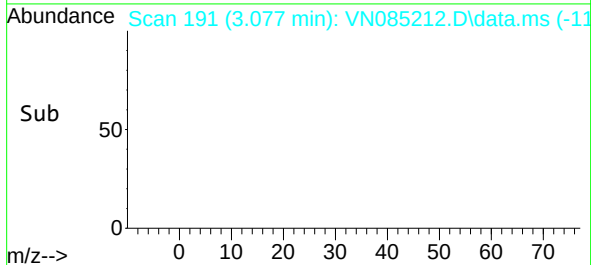
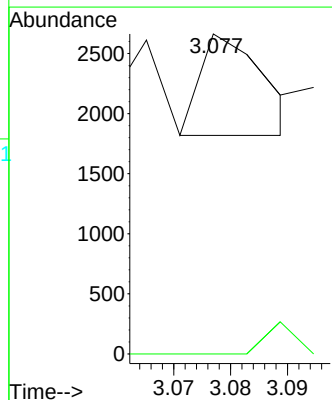
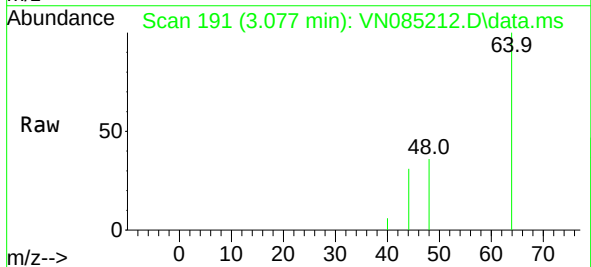
Instrument :
MSVOA_N
ClientSampleId :

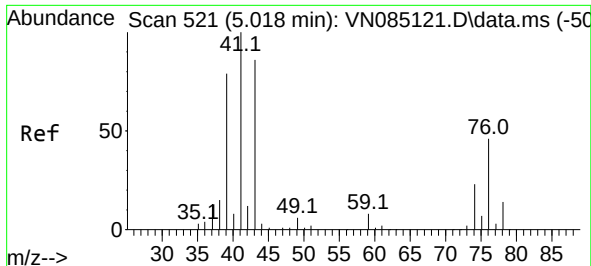
Tgt Ion: 94 Resp: 305
Ion Ratio Lower Upper
94 100
96 56.1 76.2 114.4#



#6
Chloroethane
Concen: 0.618 ug/l
RT: 3.077 min Scan# 191
Delta R.T. -0.047 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

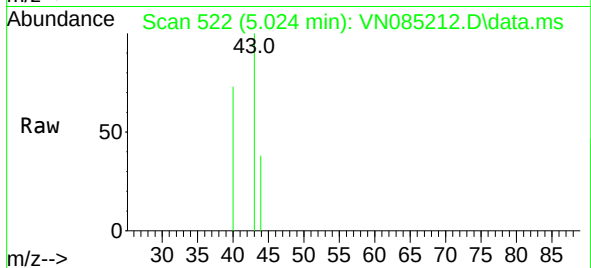
Tgt Ion: 64 Resp: 654
Ion Ratio Lower Upper
64 100
66 0.0 25.5 38.3#



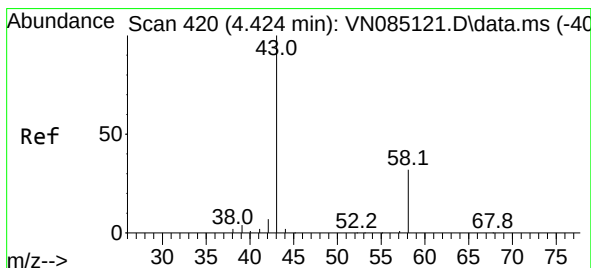
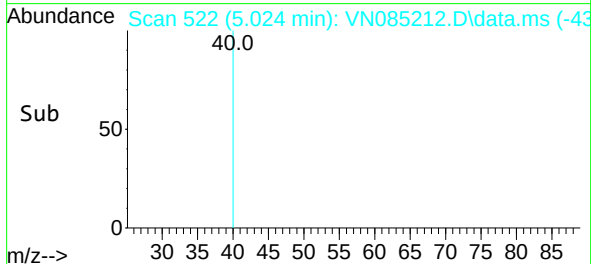
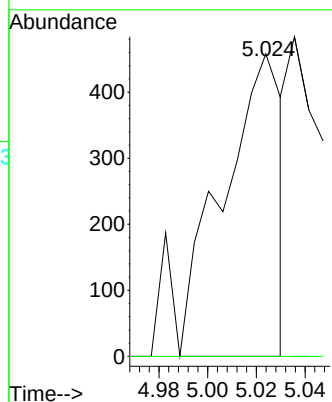


#12
Methyl Acetate
Concen: 0.452 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :

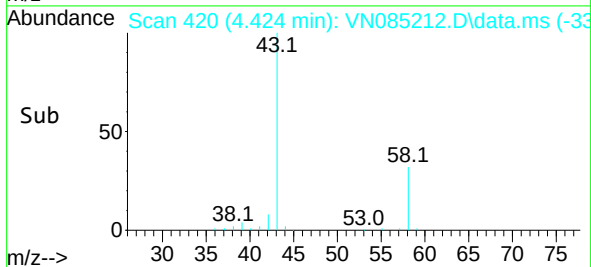
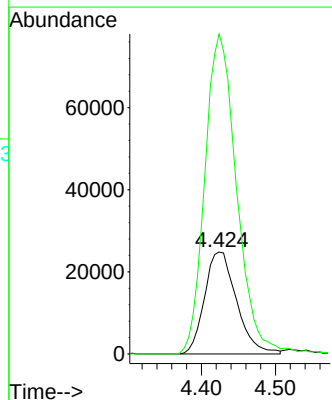
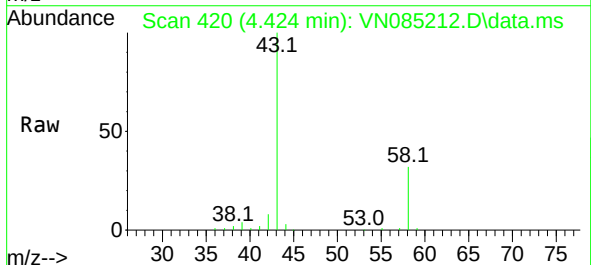


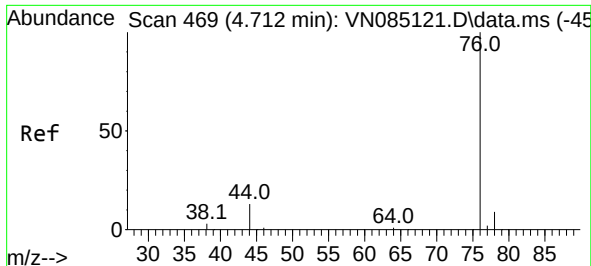
Tgt Ion: 43 Resp: 772
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



#15
Acetone
Concen: 388.405 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

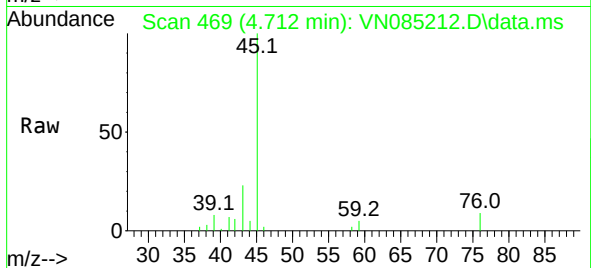
Tgt Ion: 58 Resp: 74703
Ion Ratio Lower Upper
58 100
43 313.1 242.3 363.5



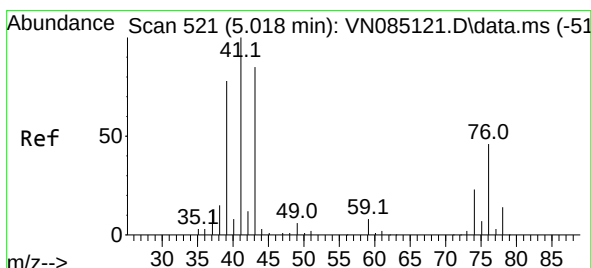
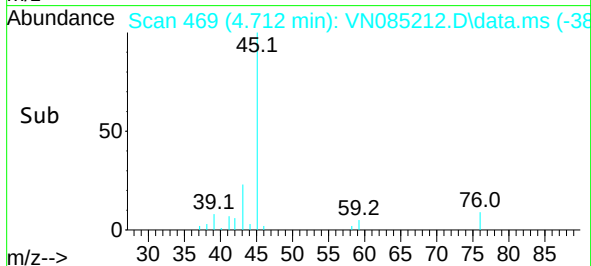
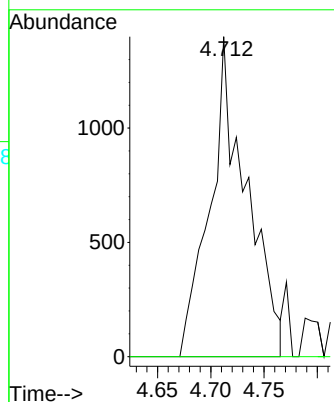


#16
Carbon Disulfide
Concen: 0.768 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 16 Dec 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :

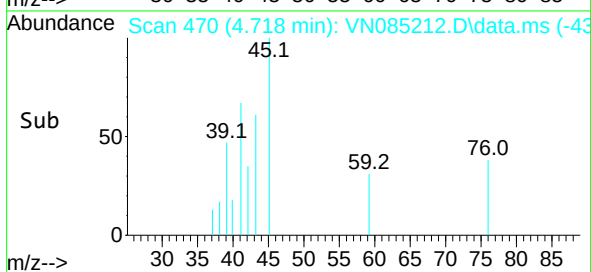
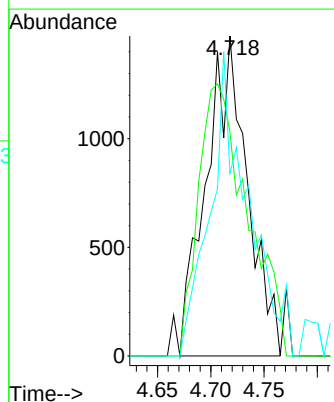
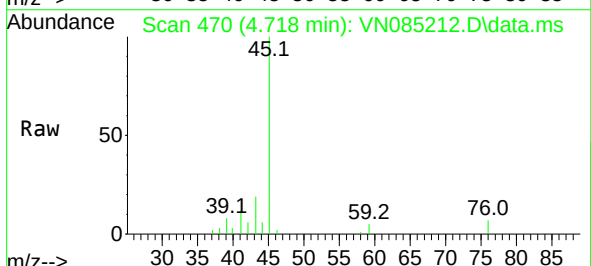


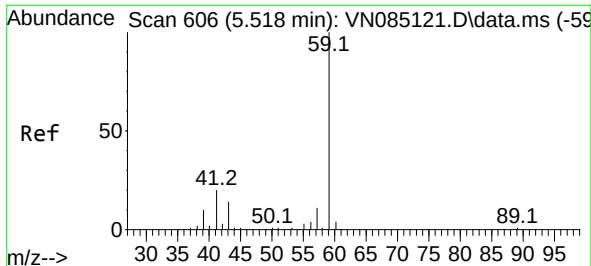
Tgt Ion: 76 Resp: 3326
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#17
Allyl chloride
Concen: 1.913 ug/l
RT: 4.718 min Scan# 470
Delta R.T. -0.306 min
Lab File: VN085121.D
Acq: 16 Dec 2024 12:21

Tgt Ion: 41 Resp: 3966
Ion Ratio Lower Upper
41 100
39 70.1 32.0 96.2
76 57.1 20.2 60.5

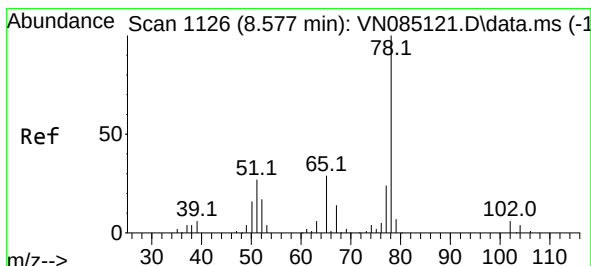
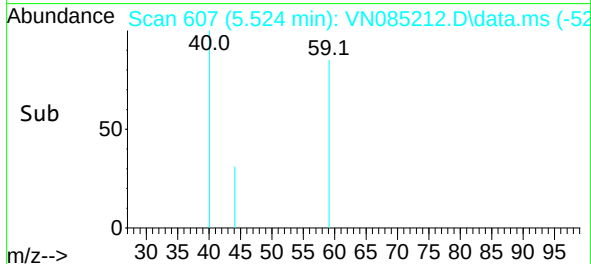
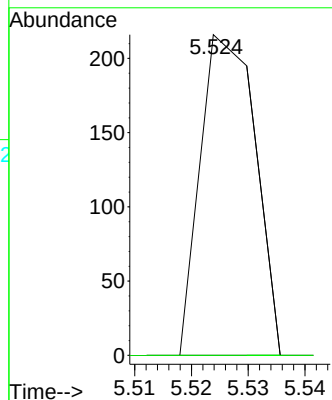
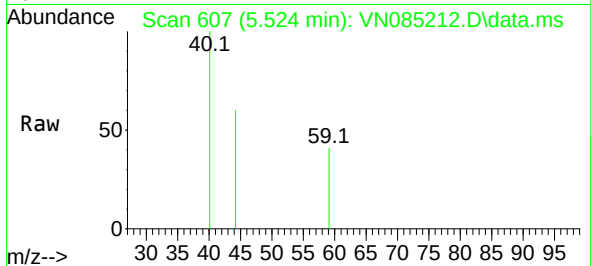




#23
tert-Butyl Alcohol
Concen: 0.569 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN085121.D
Acq: 16 Dec 2024 12:21

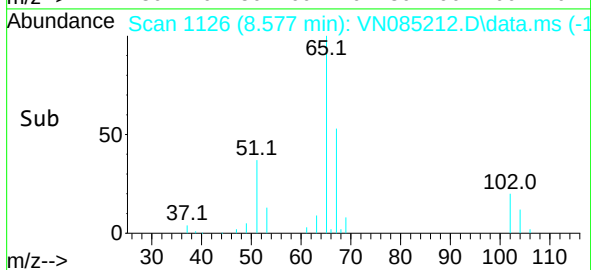
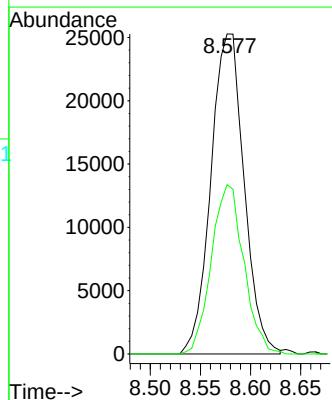
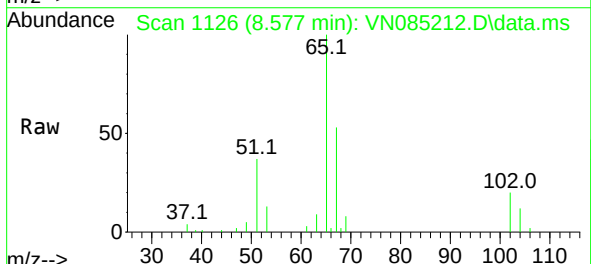
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MSVOA_N
ClientSampleId :

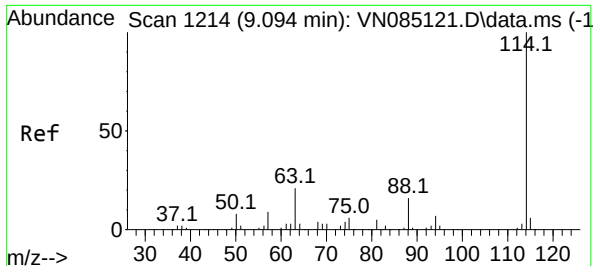
Tgt Ion: 59 Resp: 145
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.863 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085121.D
Acq: 16 Dec 2024 12:21

Tgt Ion: 65 Resp: 58262
Ion Ratio Lower Upper
65 100
67 51.6 39.9 59.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 114

Delta R.T. 0.000 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

ClientSampleId :

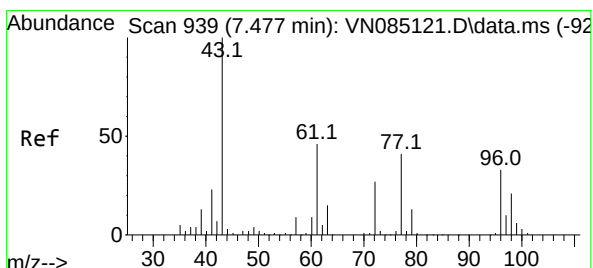
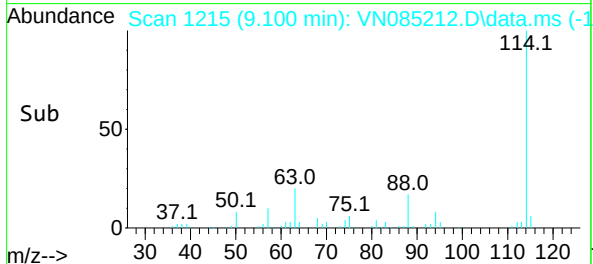
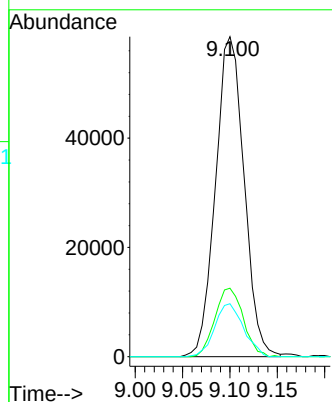
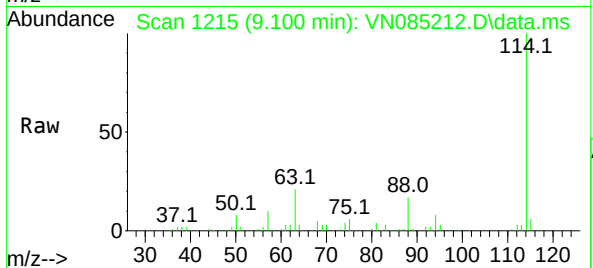
Tgt Ion:114 Resp: 122910

Ion Ratio Lower Upper

114 100

63 21.1 16.2 24.2

88 16.7 12.5 18.7



#30

2-Butanone

Concen: 19.077 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

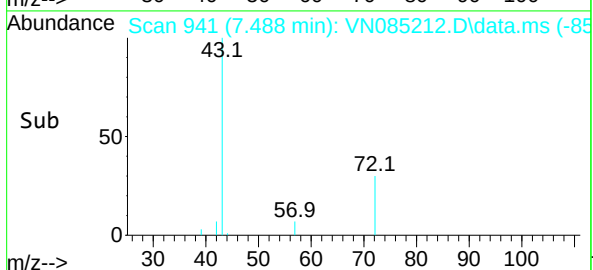
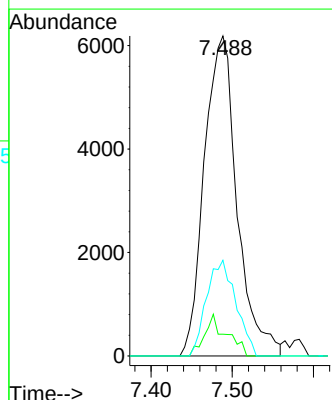
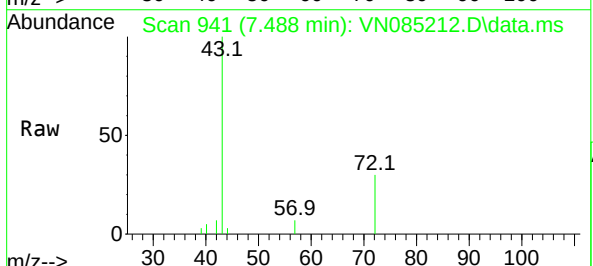
Tgt Ion: 43 Resp: 17363

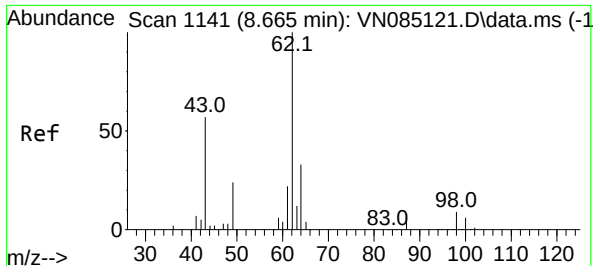
Ion Ratio Lower Upper

43 100

57 6.0 6.9 10.3#

72 26.8 21.8 32.8





#36

1,2-Dichloroethane

Concen: 1.919 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

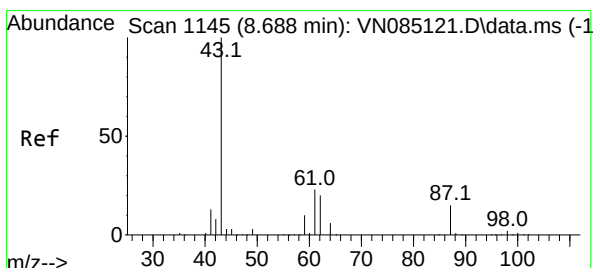
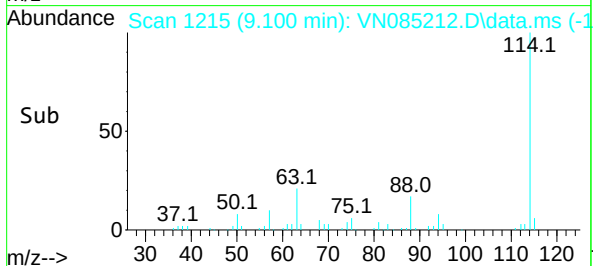
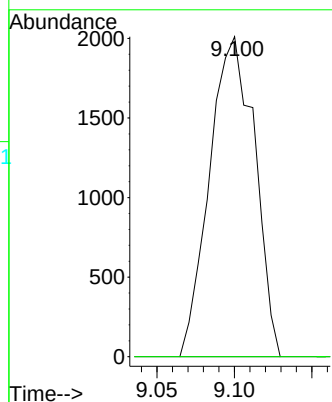
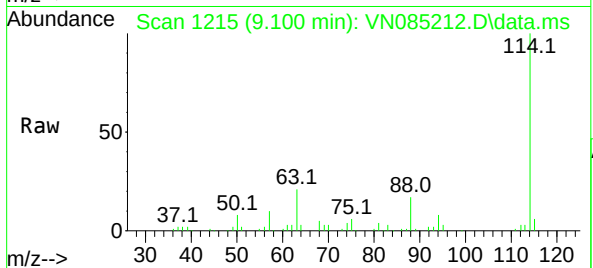
ClientSampleId :

Tgt Ion: 62 Resp: 4070

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#44

Isopropyl Acetate

Concen: 0.531 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.012 min

Lab File: VN085212.D

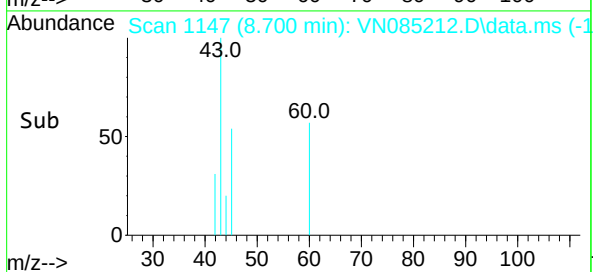
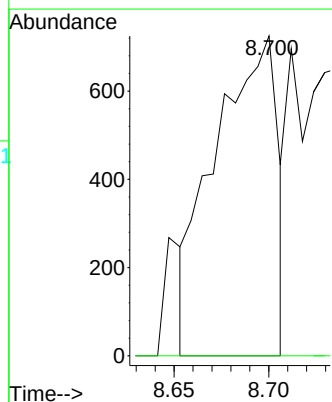
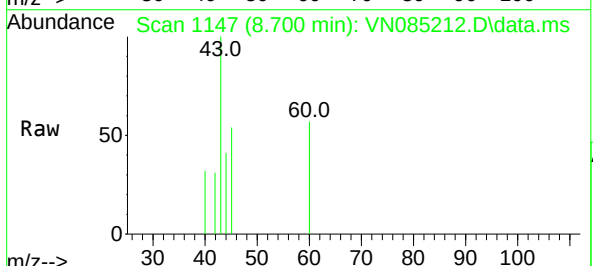
Acq: 16 Dec 2024 12:21

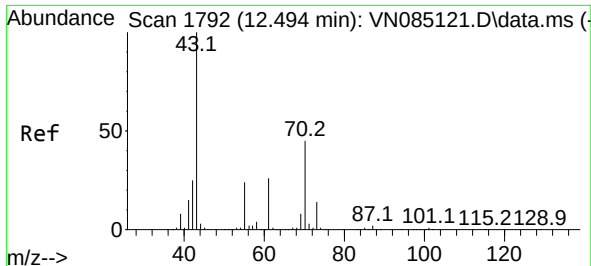
Tgt Ion: 43 Resp: 1670

Ion Ratio Lower Upper

43 100

61 0.0 21.5 32.3#

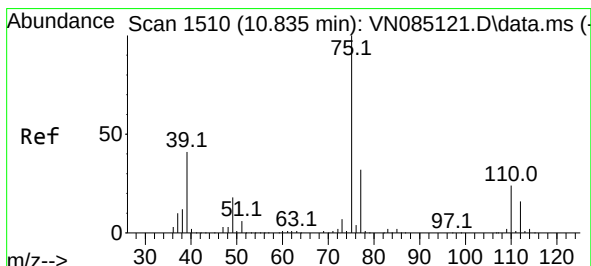
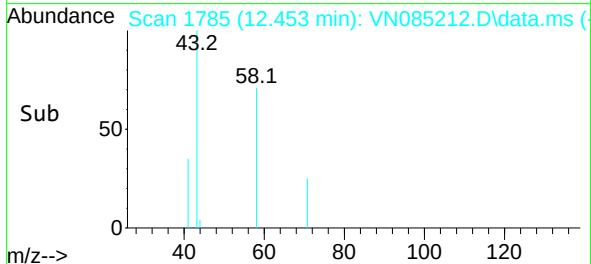
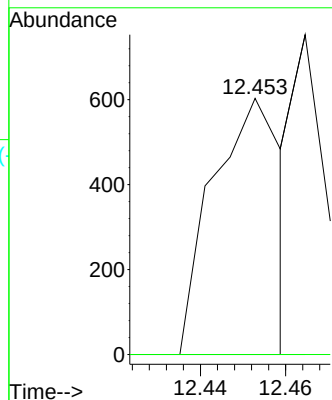
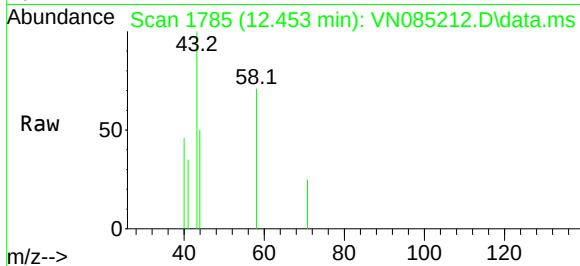




#47
n-amyl acetate
Concen: 0.260 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

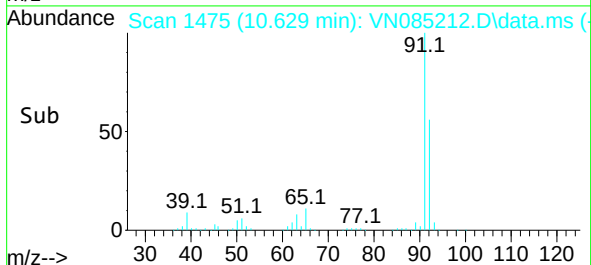
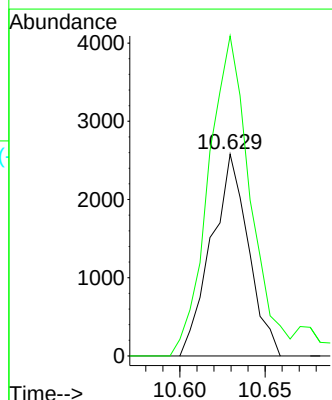
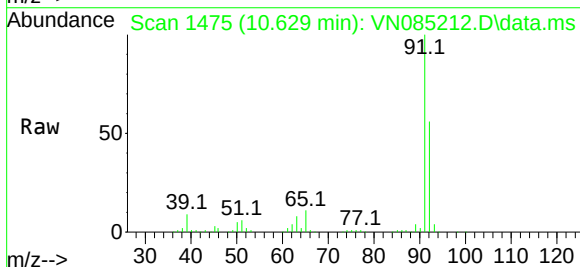
Instrument :
MSVOA_N
ClientSampleId :

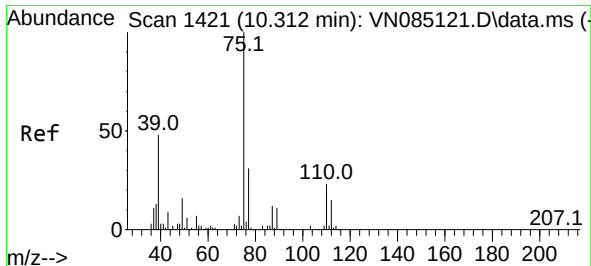
Tgt Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
55 26.9 23.3 34.9



#48
t-1,3-Dichloropropene
Concen: 1.717 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Tgt Ion: 75 Resp: 3901
Ion Ratio Lower Upper
75 100
77 150.4 25.5 38.3#





#49

cis-1,3-Dichloropropene

Concen: 1.577 ug/l

RT: 10.629 min Scan# 14

Delta R.T. 0.318 min

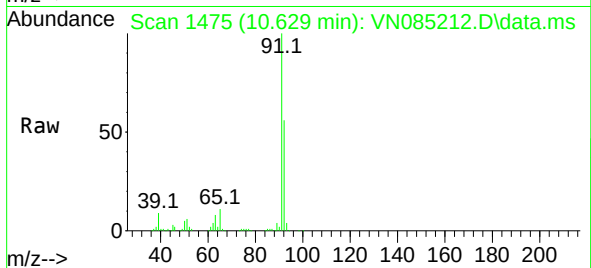
Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

ClientSampleId :



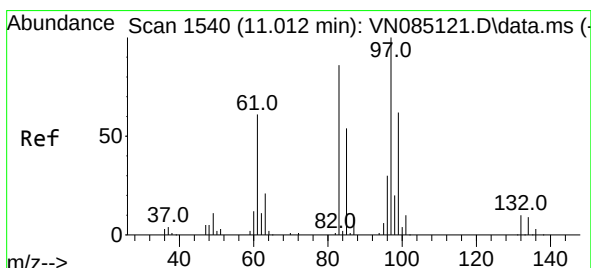
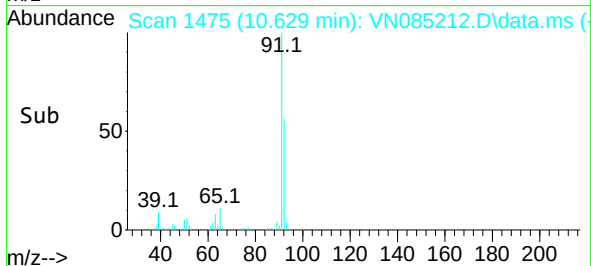
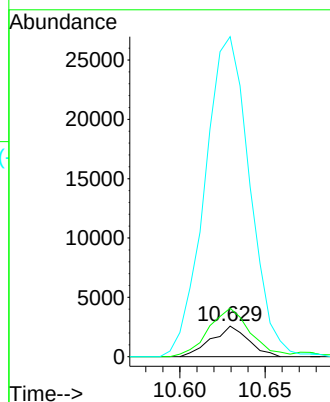
Tgt Ion: 75 Resp: 3901

Ion Ratio Lower Upper

75 100

77 150.4 23.8 35.6#

39 994.1 37.3 55.9#



#50

1,1,2-Trichloroethane

Concen: 3.237 ug/l

RT: 10.729 min Scan# 1492

Delta R.T. -0.282 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Tgt Ion: 97 Resp: 4722

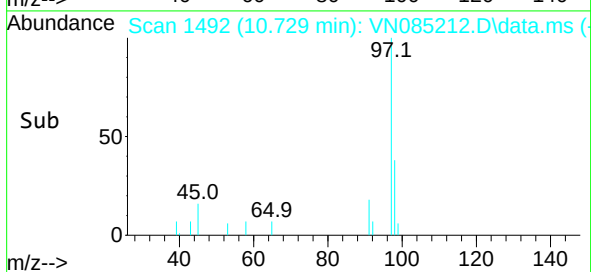
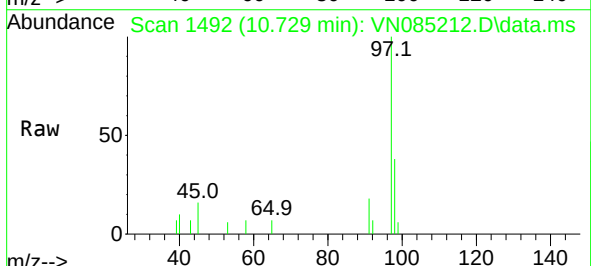
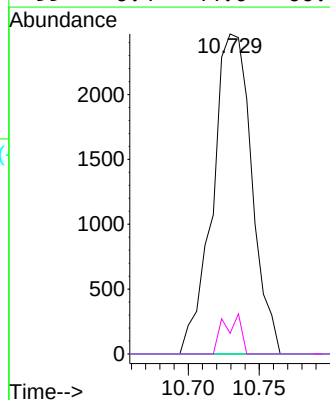
Ion Ratio Lower Upper

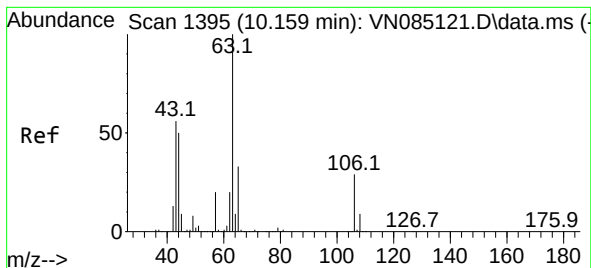
97 100

83 0.0 65.8 98.8#

85 0.0 40.8 61.2#

99 6.4 44.0 66.0#

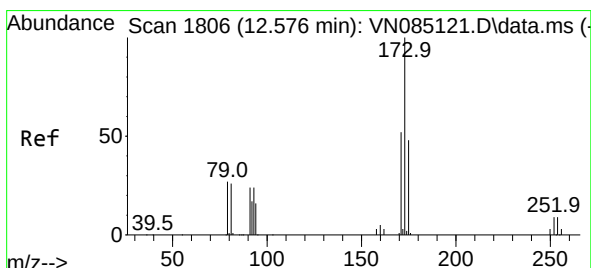
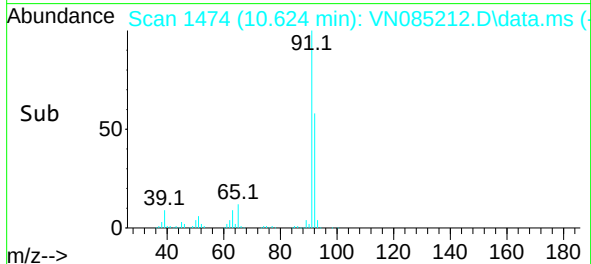
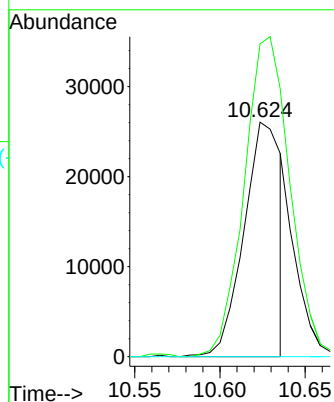
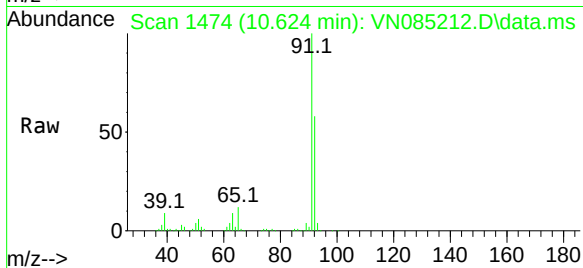




#55
2-Chloroethyl vinyl ether
Concen: 38.185 ug/l
RT: 10.624 min Scan# 14
Delta R.T. 0.465 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

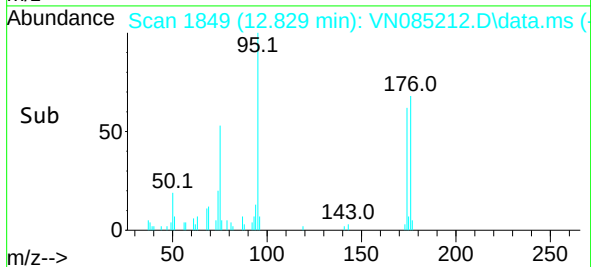
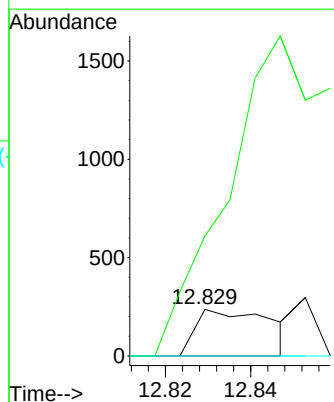
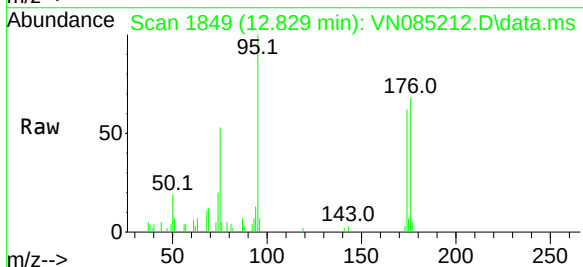
Instrument :
MSVOA_N
ClientSampleId :

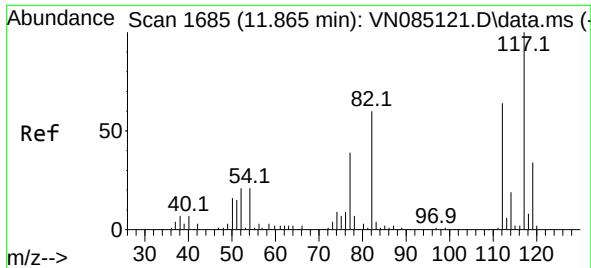
Tgt Ion: 63 Resp: 39354
Ion Ratio Lower Upper
63 100
65 135.6 25.9 38.9#
106 0.0 23.5 35.3#



#56
Bromoform
Concen: 0.243 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.253 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Tgt Ion:173 Resp: 290
Ion Ratio Lower Upper
173 100
175 0.0 40.2 60.2#
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

ClientSampleId :

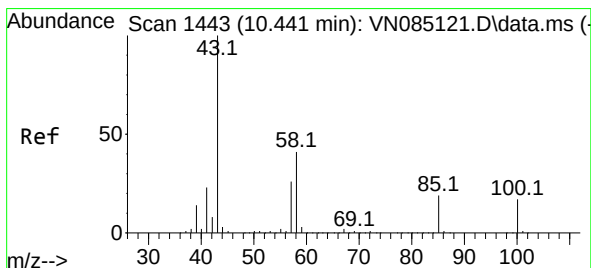
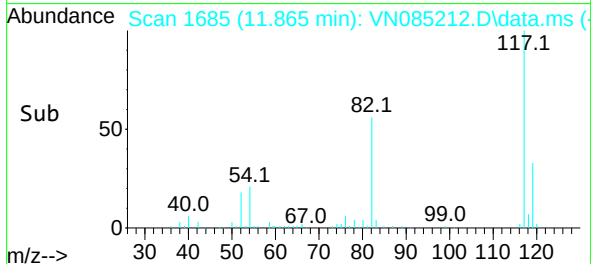
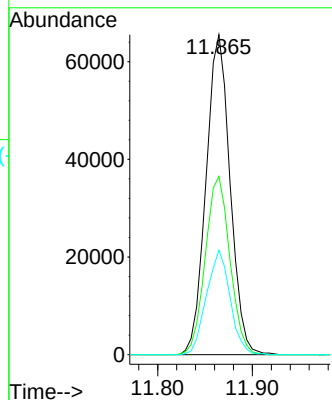
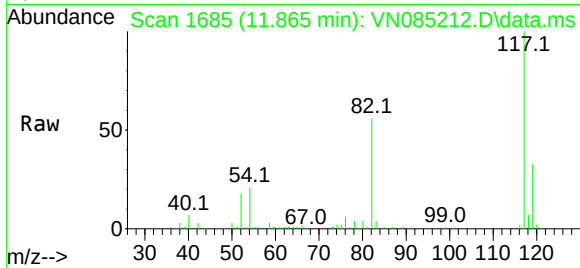
Tgt Ion:117 Resp: 115669

Ion Ratio Lower Upper

117 100

82 57.0 44.2 66.4

119 31.9 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 3.862 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

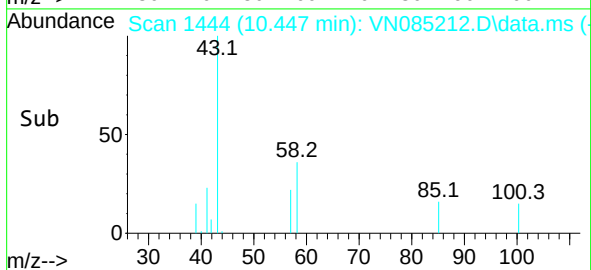
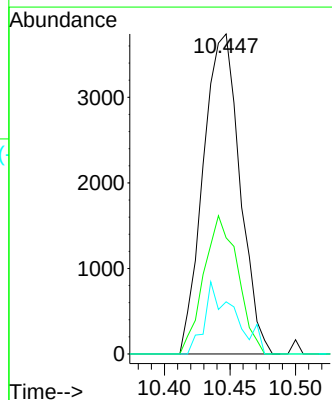
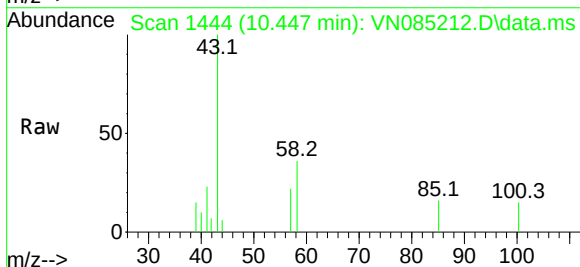
Tgt Ion: 43 Resp: 7291

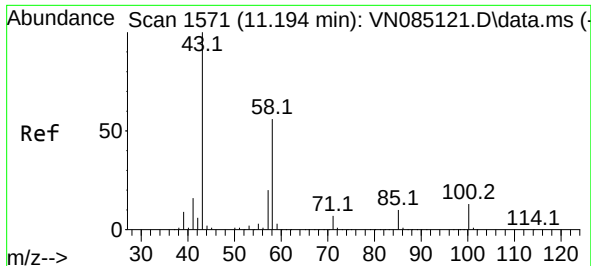
Ion Ratio Lower Upper

43 100

58 40.0 31.6 47.4

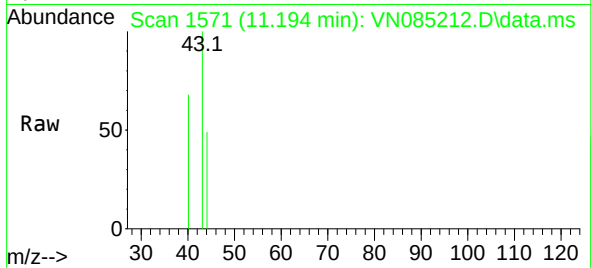
85 7.8 15.0 22.6#



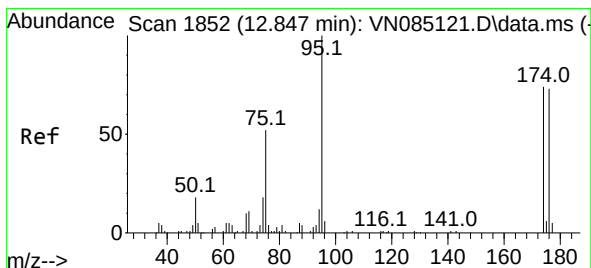
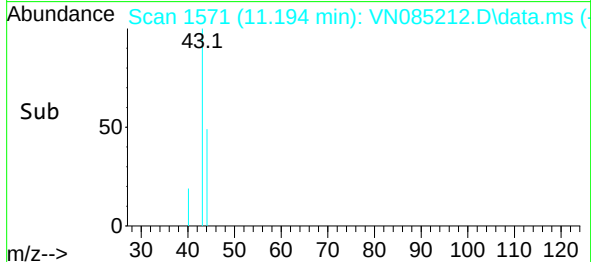
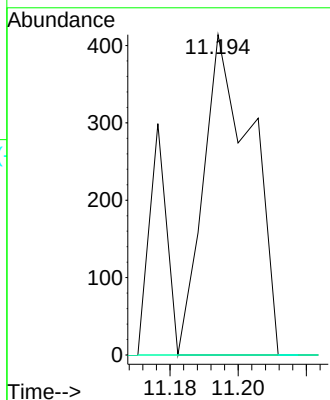


#59
2-Hexanone
Concen: 0.285 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :

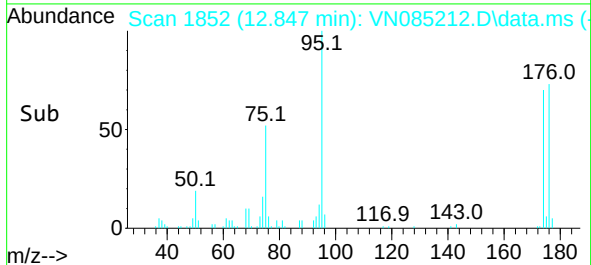
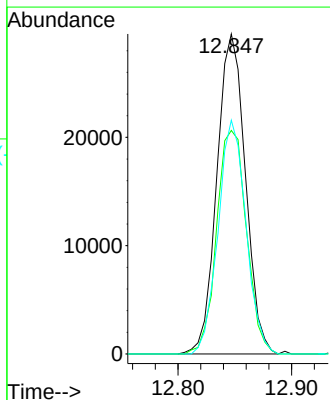
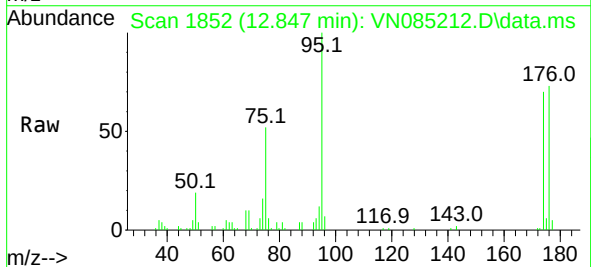


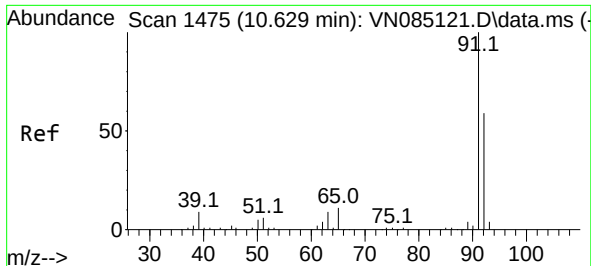
Tgt Ion:	43	Resp:	407
Ion	Ratio	Lower	Upper
43	100		
58	0.0	43.6	65.4#
57	0.0	15.4	23.0#



#60
4-Bromofluorobenzene
Concen: 26.919 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Tgt Ion:	95	Resp:	51520
Ion	Ratio	Lower	Upper
95	100		
174	73.1	60.3	90.5
176	71.3	57.4	86.0

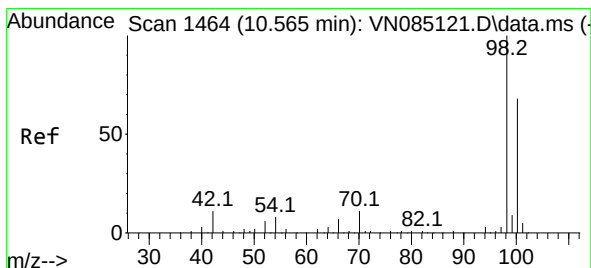
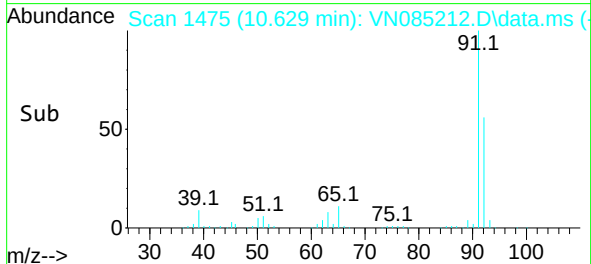
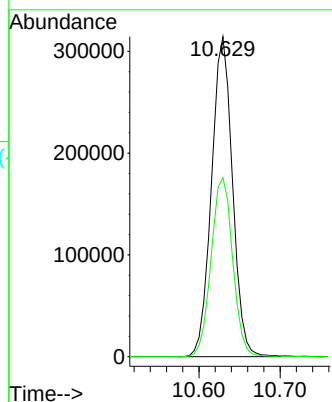
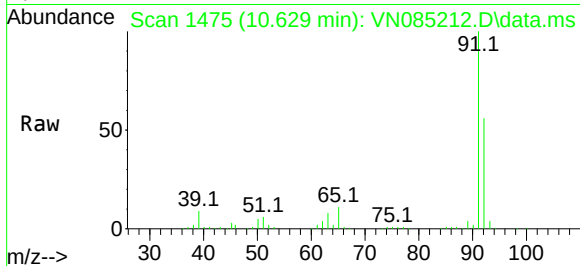




#62
Toluene
Concen: 83.781 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

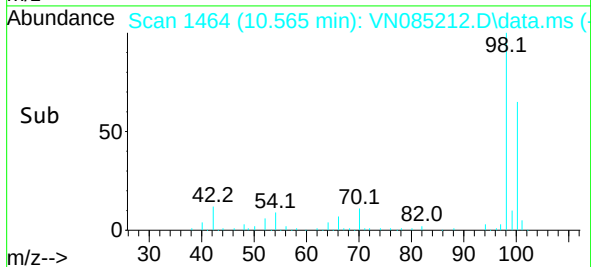
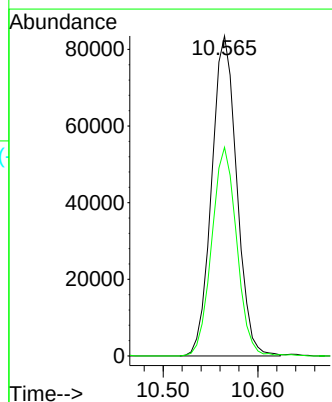
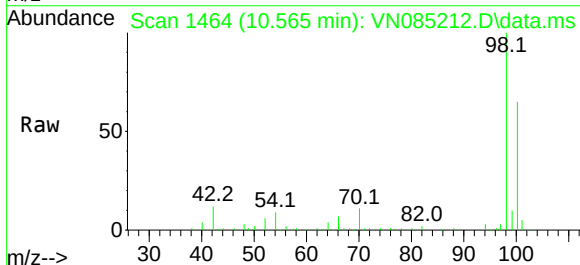
Instrument :
MSVOA_N
ClientSampleId :

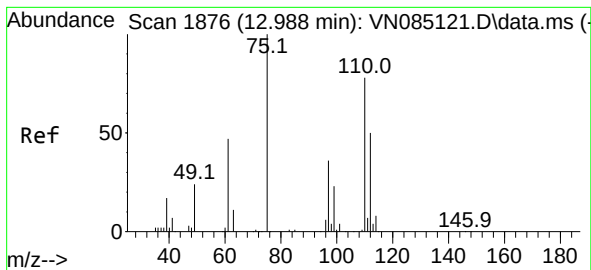
Tgt Ion: 91 Resp: 565173
Ion Ratio Lower Upper
91 100
92 57.5 46.5 69.7



#63
Toluene-d8
Concen: 28.292 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Tgt Ion: 98 Resp: 153509
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0





#72

1,2,3-Trichloropropane

Concen: 13.395 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

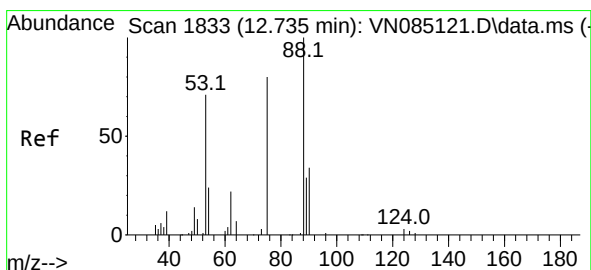
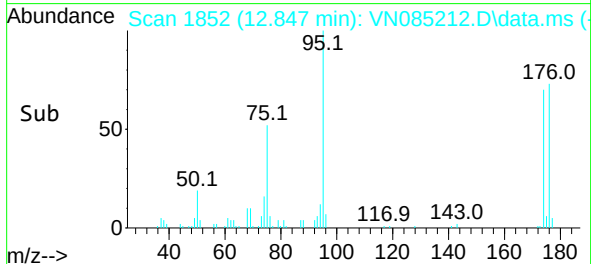
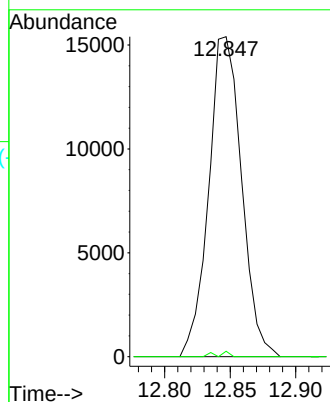
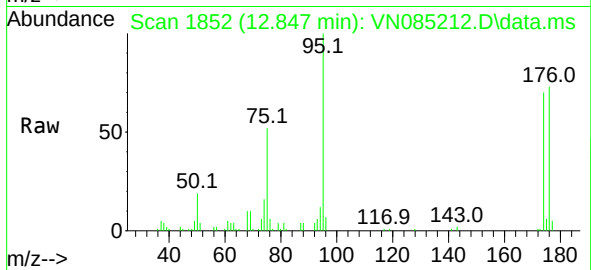
ClientSampleId :

Tgt Ion: 75 Resp: 26859

Ion Ratio Lower Upper

75 100

77 0.3 0.0 339.0



#77

t-1,4-Dichloro-2-butene

Concen: 36.863 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

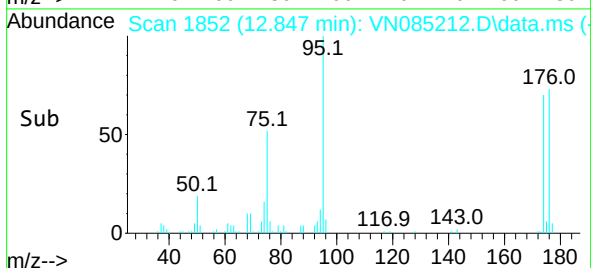
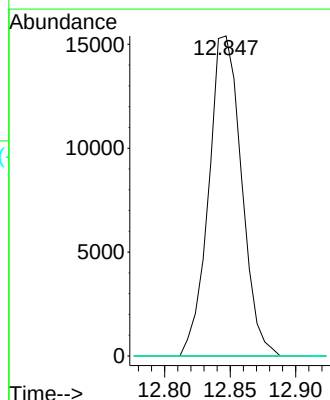
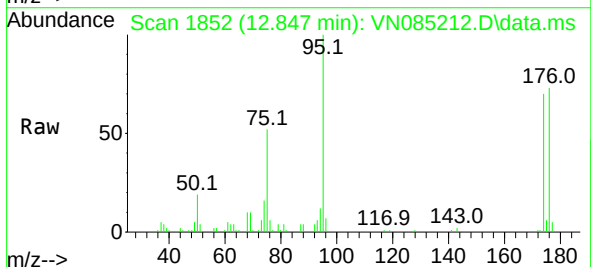
Tgt Ion: 75 Resp: 26859

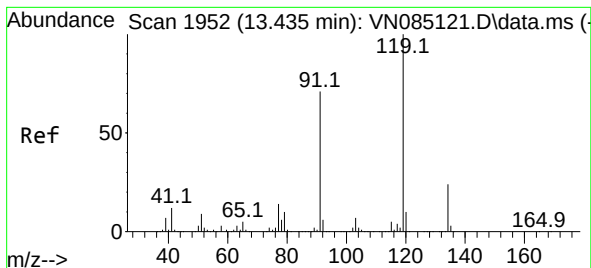
Ion Ratio Lower Upper

75 100

53 0.0 49.1 147.3#

89 0.0 22.9 68.5#





#79

tert-butylbenzene

Concen: 1.067 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.288 min

Lab File: VN085212.D

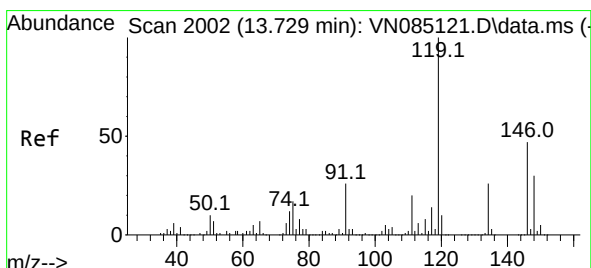
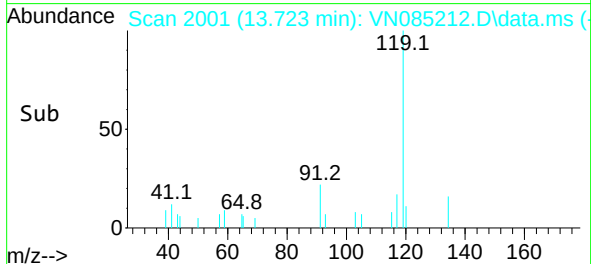
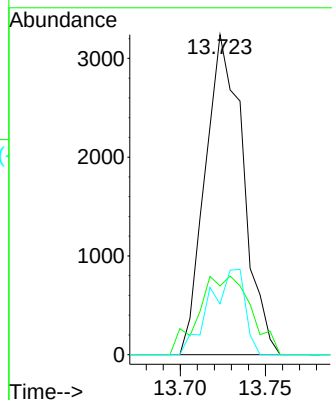
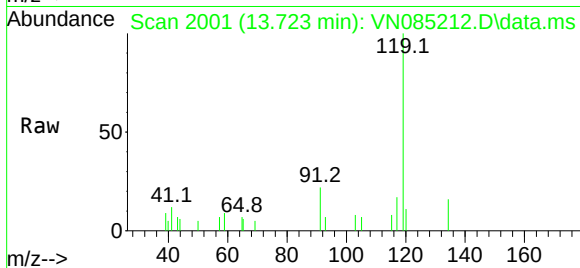
Acq: 16 Dec 2024 12:21

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	119	Resp:	5009
Ion	Ratio	Lower	Upper
119	100		
91	16.8	0.0	139.2
134	24.8	0.0	48.0



#82

p-Isopropyltoluene

Concen: 0.906 ug/l

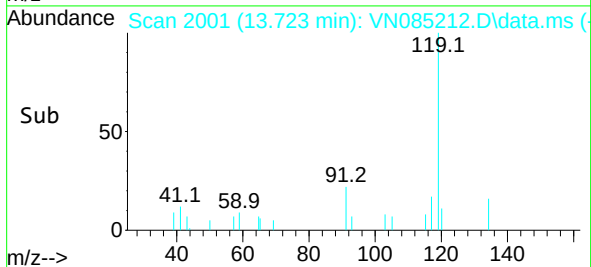
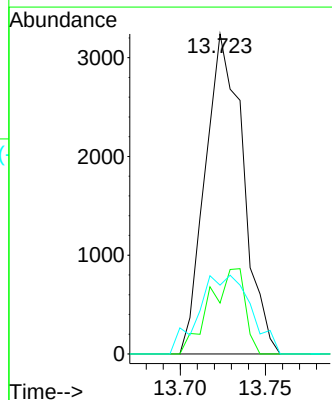
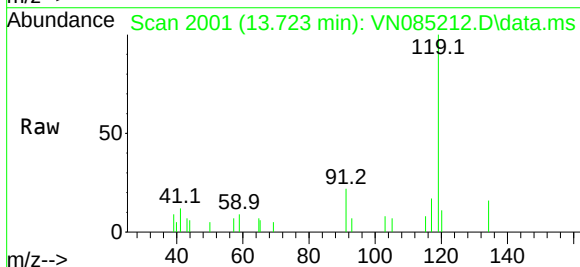
RT: 13.723 min Scan# 2001

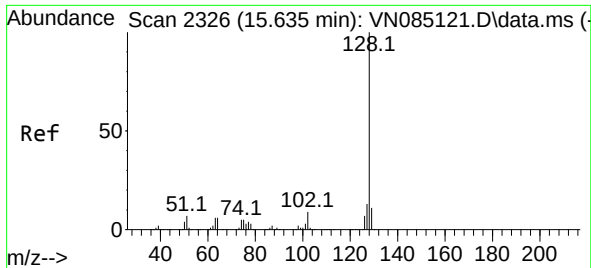
Delta R.T. -0.006 min

Lab File: VN085212.D

Acq: 16 Dec 2024 12:21

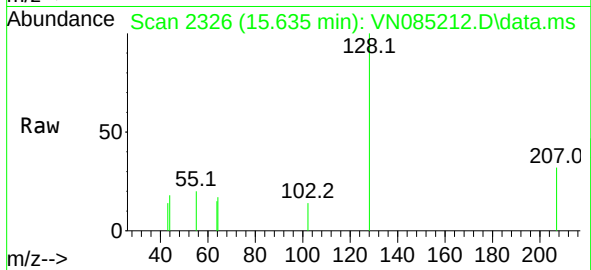
Tgt Ion:	119	Resp:	5009
Ion	Ratio	Lower	Upper
119	100		
134	24.8	0.0	51.6
91	16.8	0.0	50.4





#91
Naphthalene
Concen: 0.389 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN085212.D
Acq: 16 Dec 2024 12:21

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	1710
Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	0.0	8.7	13.1#

