

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085282.D
 Acq On : 20 Dec 2024 14:43
 Operator : JC\MD
 Sample : P5328-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:24:47 2024
 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)

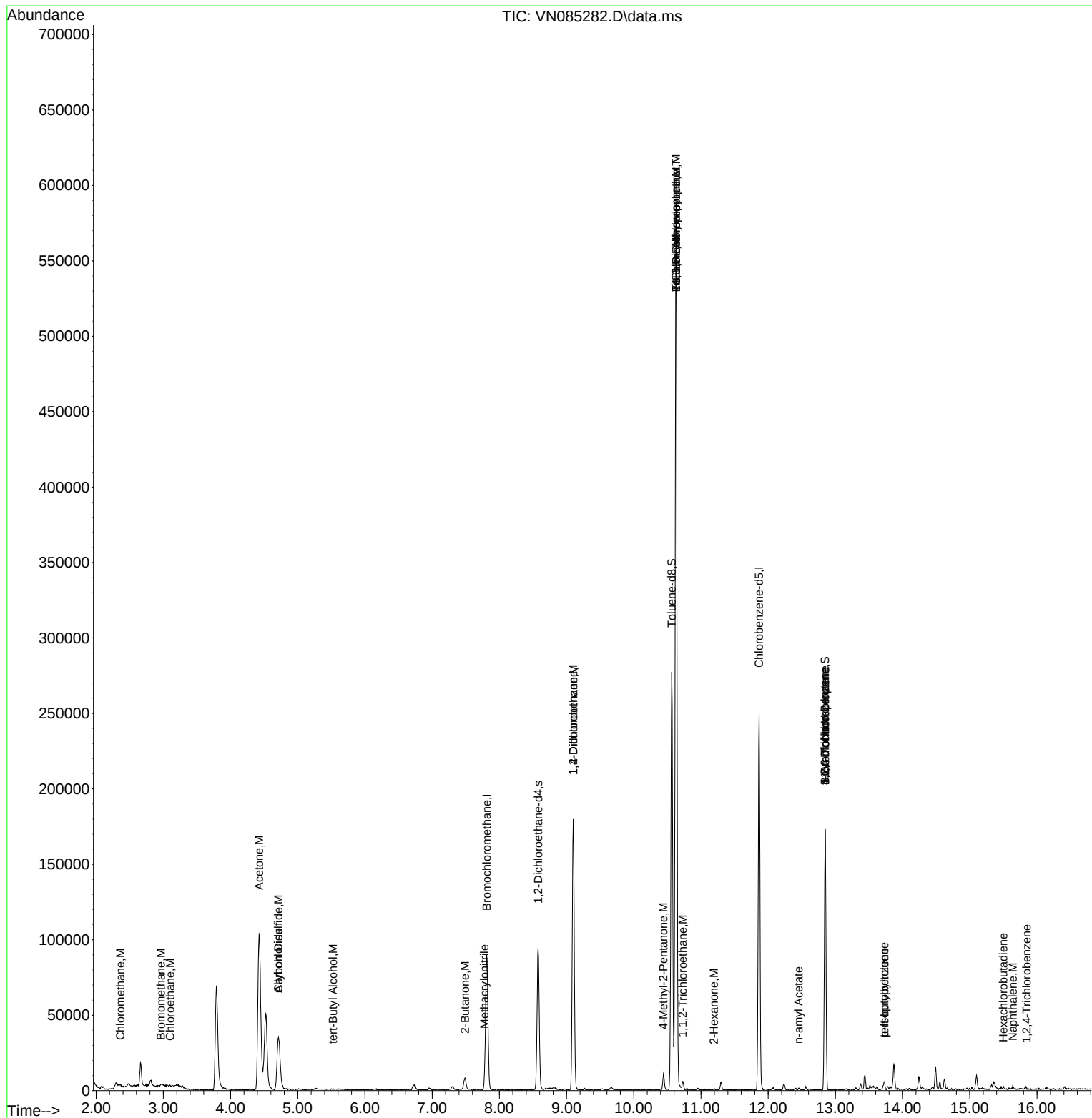
Internal Standards						
1) Bromochloromethane	7.812	128	29425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	145458	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	136162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	78551	30.346	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.167%
60) 4-Bromofluorobenzene	12.847	95	55452	25.141	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.800%
63) Toluene-d8	10.565	98	185829	27.949	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.167%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	511	0.206	ug/l #	81
5) Bromomethane	2.965	94	389	0.264	ug/l #	60
6) Chloroethane	3.100	64	372	0.234	ug/l #	1
15) Acetone	4.424	58	58159	219.586	ug/l	96
16) Carbon Disulfide	4.712	76	3441	0.623	ug/l #	77
17) Allyl chloride	4.712	41	6714	2.283	ug/l	77
23) tert-Butyl Alcohol	5.524	59	163	0.471	ug/l #	100
30) 2-Butanone	7.488	43	13360	10.022	ug/l #	62
35) Methacrylonitrile	7.777	41	400	0.271	ug/l #	51
36) 1,2-Dichloroethane	9.100	62	5938	2.057	ug/l #	77
47) n-amyl Acetate	12.453	43	1048	0.269	ug/l #	48
48) t-1,3-Dichloropropene	10.629	75	3280	1.122	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	3280	1.044	ug/l #	1
50) 1,1,2-Trichloroethane	10.729	97	4101	2.214	ug/l #	16
55) 2-Chloroethyl vinyl ether	10.629	63	32099	22.247	ug/l #	1
56) Bromoform	12.847	173	395	0.279	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	6989	2.532	ug/l	96
59) 2-Hexanone	11.194	43	501	0.250	ug/l #	50
62) Toluene	10.629	91	432616	51.716	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	31679	13.287	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	31679	32.512	ug/l #	6
79) tert-butylbenzene	13.729	119	2848	0.517	ug/l	43
82) p-Isopropyltoluene	13.729	119	2848	0.435	ug/l	81
89) 1,2,4-Trichlorobenzene	15.847	180	552	0.337	ug/l #	62
90) Hexachlorobutadiene	15.500	225	302	0.370	ug/l #	22
91) Naphthalene	15.641	128	2626	0.499	ug/l #	69

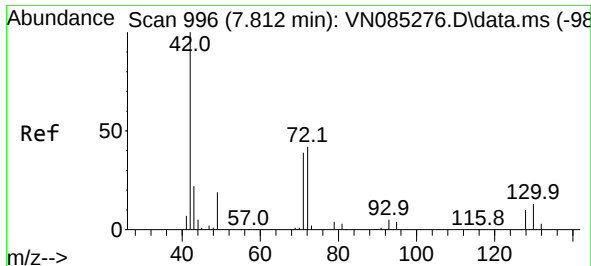
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
Data File : VN085282.D
Acq On : 20 Dec 2024 14:43
Operator : JC\MD
Sample : P5328-01RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 21 02:24:47 2024
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

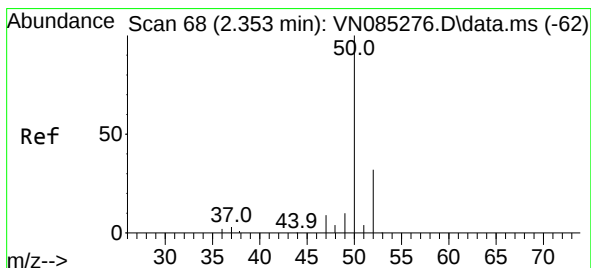
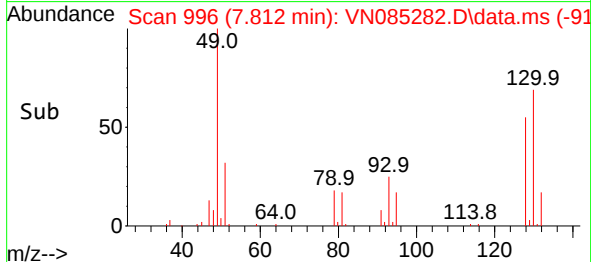
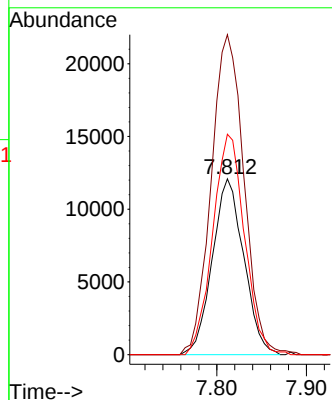
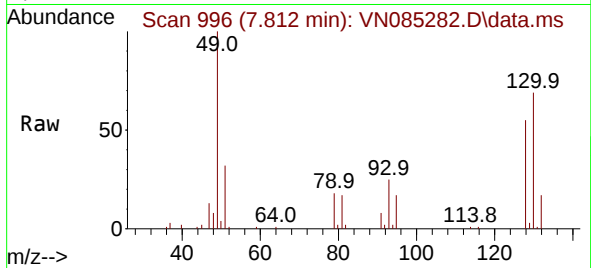




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

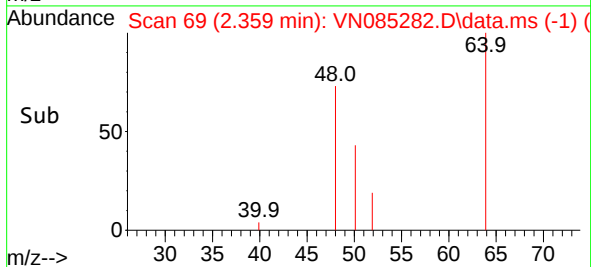
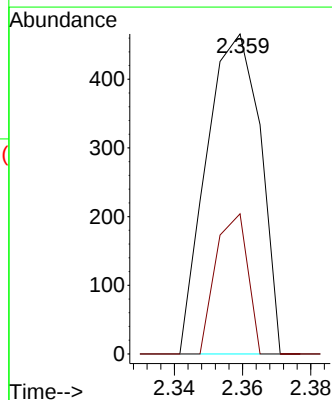
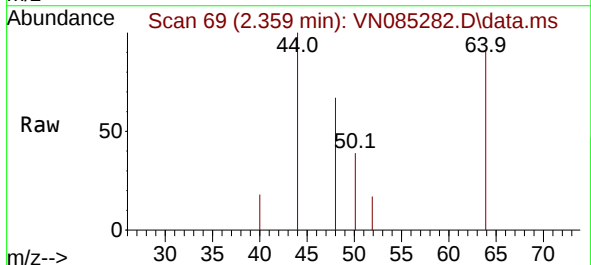
Instrument :
MSVOA_N
ClientSampleId :

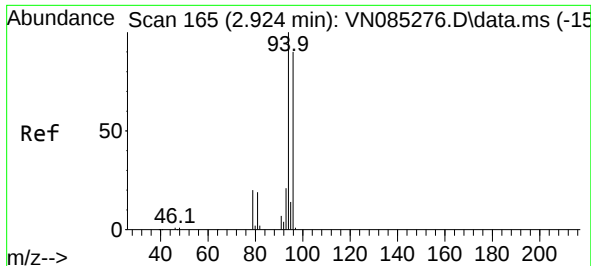
Tgt Ion:128 Resp: 29425
Ion Ratio Lower Upper
128 100
49 189.4 0.0 497.8
130 126.7 0.0 328.5



#3
Chloromethane
Concen: 0.206 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 50 Resp: 511
Ion Ratio Lower Upper
50 100
52 43.8 26.5 39.7#

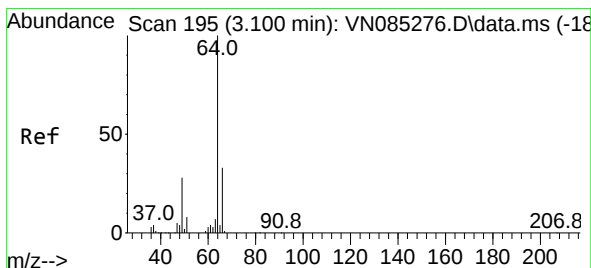
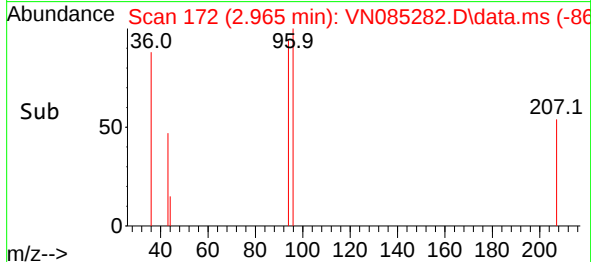
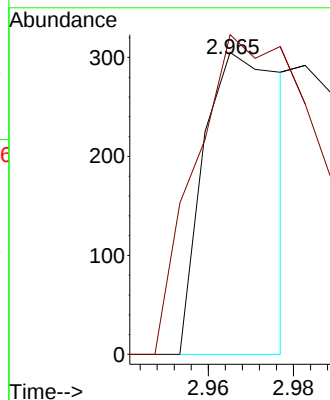
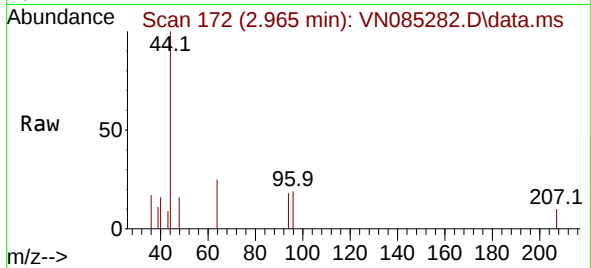




#5
Bromomethane
Concen: 0.264 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

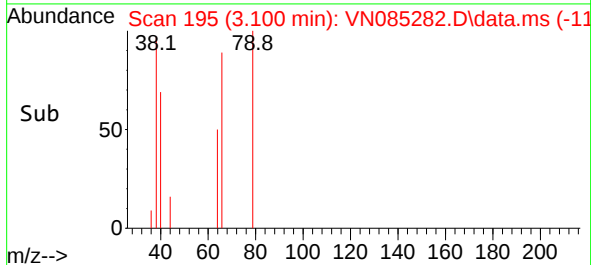
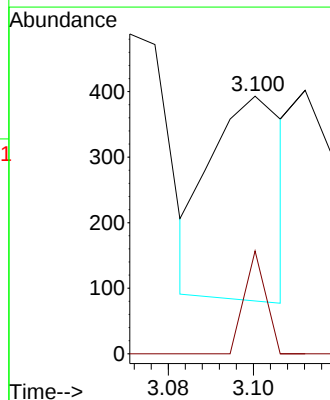
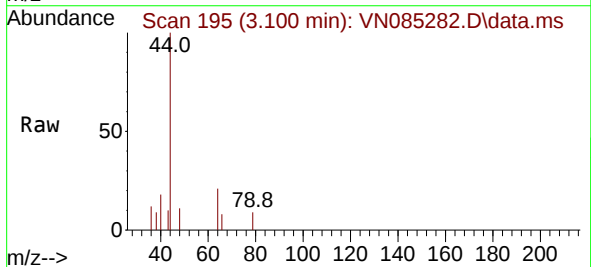
Instrument :
MSVOA_N
ClientSampleId :

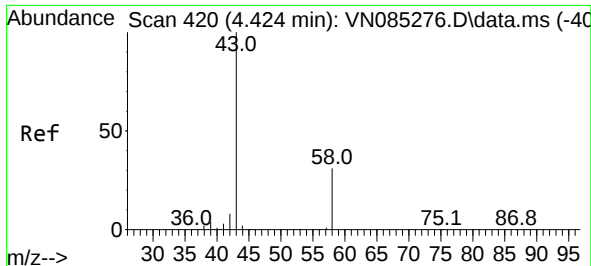
Tgt Ion: 94 Resp: 389
Ion Ratio Lower Upper
94 100
96 55.7 75.6 113.4#



#6
Chloroethane
Concen: 0.234 ug/l
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 64 Resp: 372
Ion Ratio Lower Upper
64 100
66 84.0 22.2 33.4#

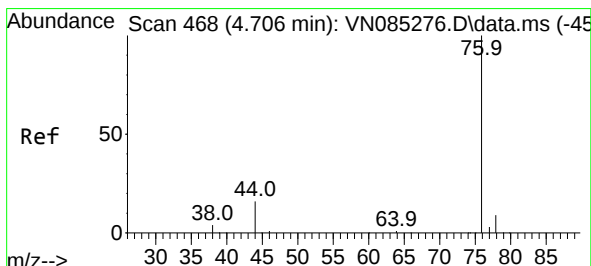
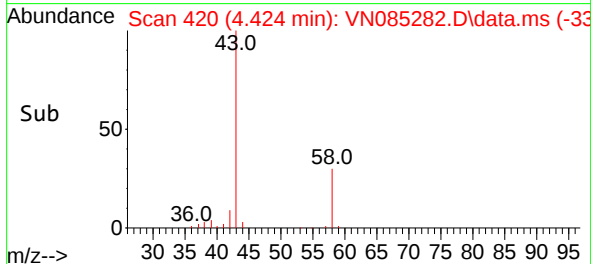
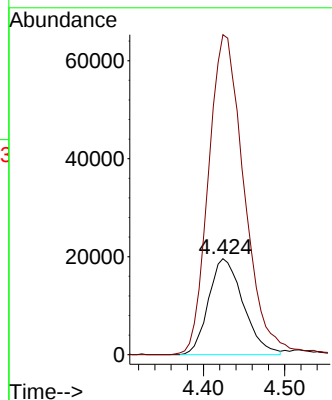
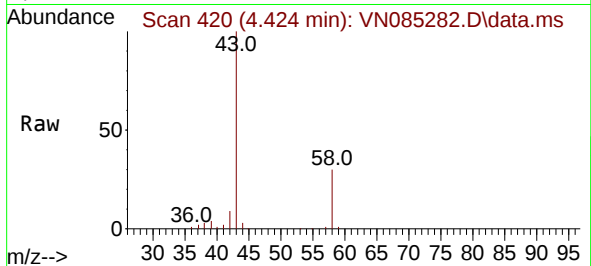




#15
Acetone
Concen: 219.586 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

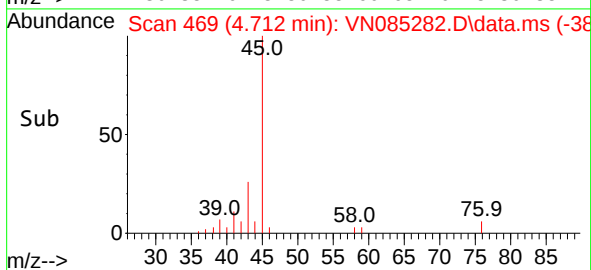
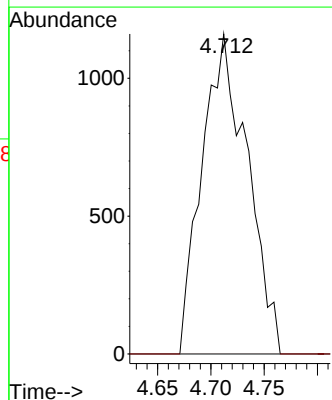
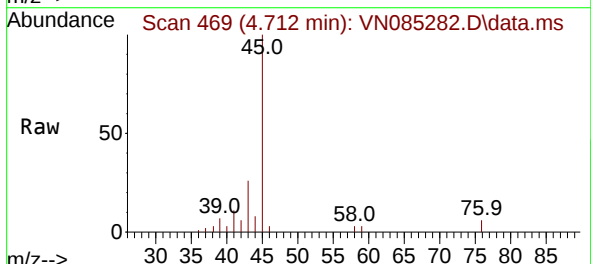
Instrument :
MSVOA_N
ClientSampleId :

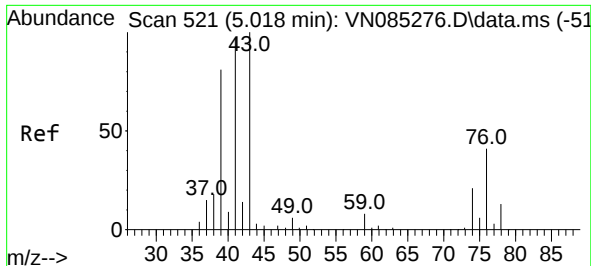
Tgt Ion: 58 Resp: 58159
Ion Ratio Lower Upper
58 100
43 331.6 258.8 388.2



#16
Carbon Disulfide
Concen: 0.623 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 76 Resp: 3441
Ion Ratio Lower Upper
76 100
78 0.0 6.6 9.8#





#17

Allyl chloride

Concen: 2.283 ug/l

RT: 4.712 min Scan# 4

Delta R.T. -0.312 min

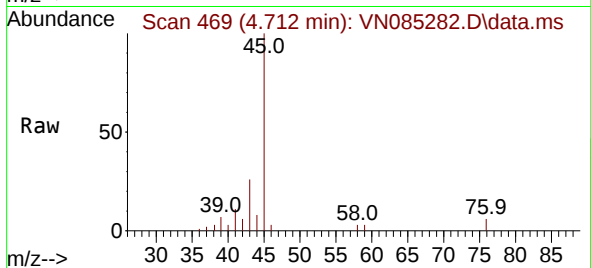
Lab File: VN085282.D

Acq: 20 Dec 2024 14:43

Instrument :

MSVOA_N

ClientSampleId :



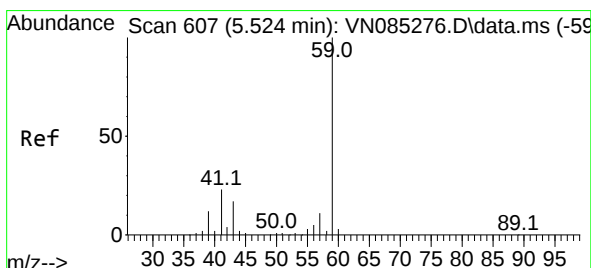
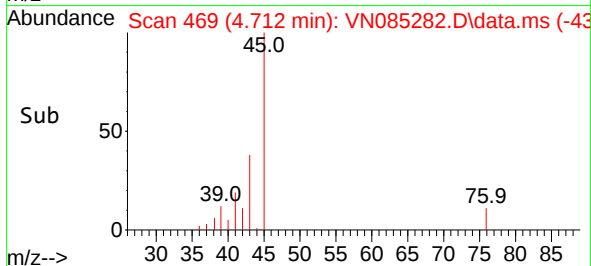
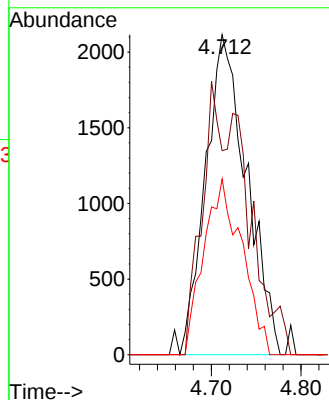
Tgt Ion: 41 Resp: 6714

Ion Ratio Lower Upper

41 100

39 63.8 41.3 124.1

76 54.9 19.5 58.5



#23

tert-Butyl Alcohol

Concen: 0.471 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN085282.D

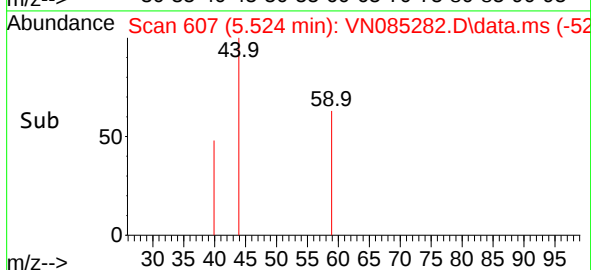
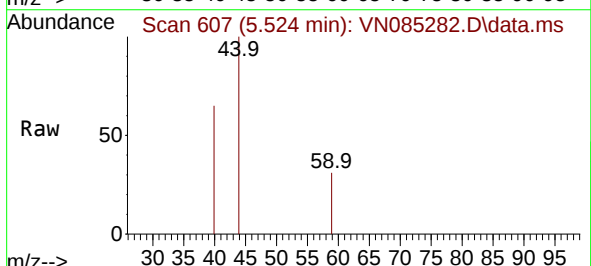
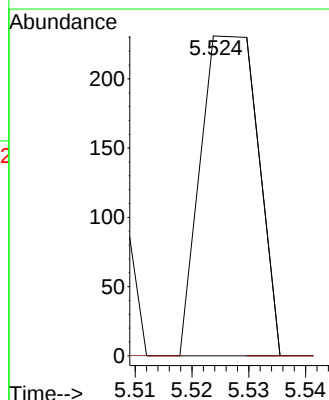
Acq: 20 Dec 2024 14:43

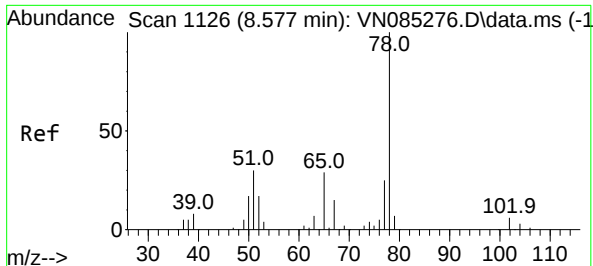
Tgt Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

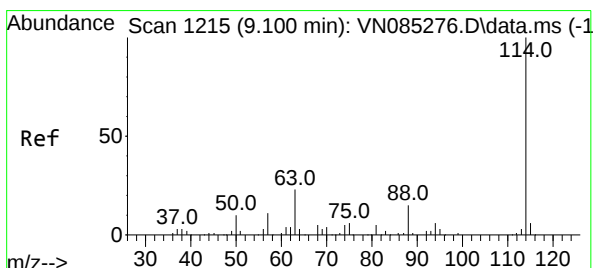
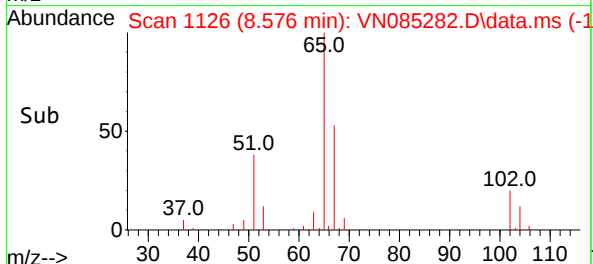
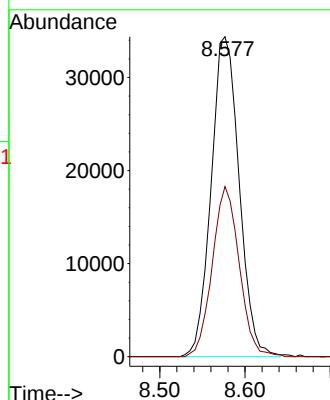
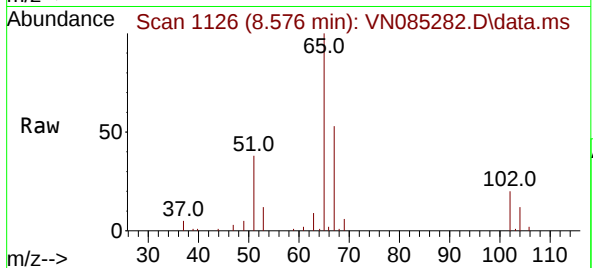




#27
 1,2-Dichloroethane-d4
 Concen: 30.346 ug/l
 RT: 8.576 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43

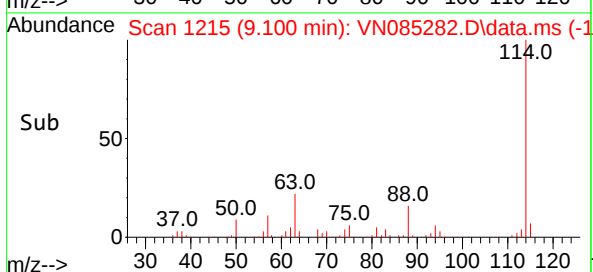
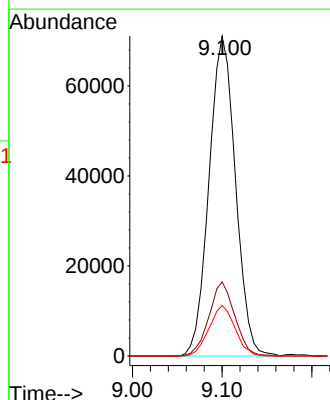
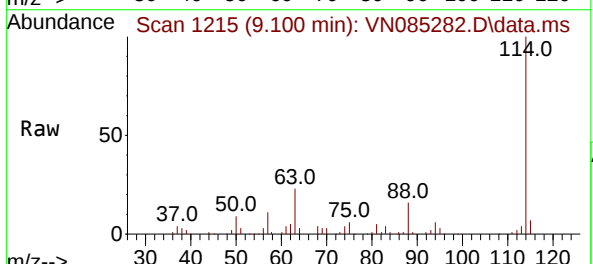
Instrument :
 MSVOA_N
 ClientSampleId :

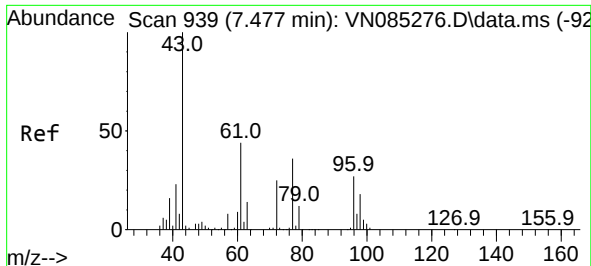
Tgt Ion: 65 Resp: 78551
 Ion Ratio Lower Upper
 65 100
 67 51.1 42.0 63.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43

Tgt Ion: 114 Resp: 145458
 Ion Ratio Lower Upper
 114 100
 63 22.5 18.0 27.0
 88 15.4 12.9 19.3

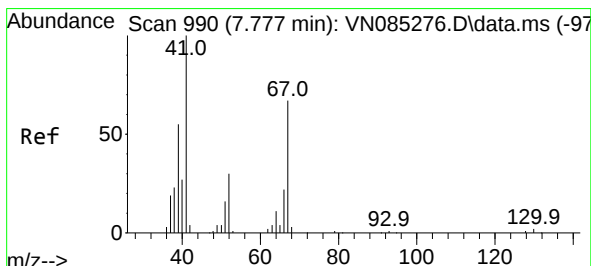
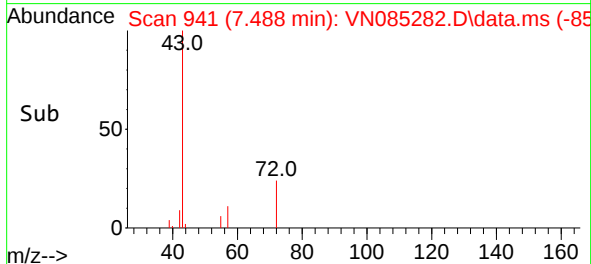
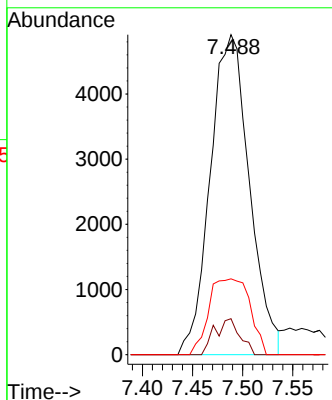
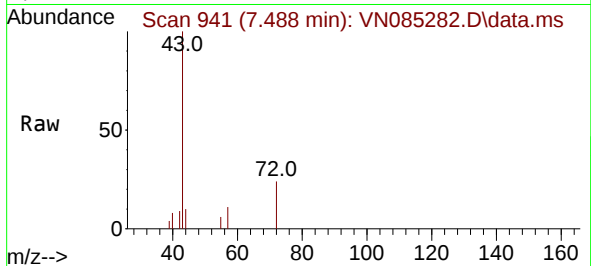




#30
2-Butanone
Concen: 10.022 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

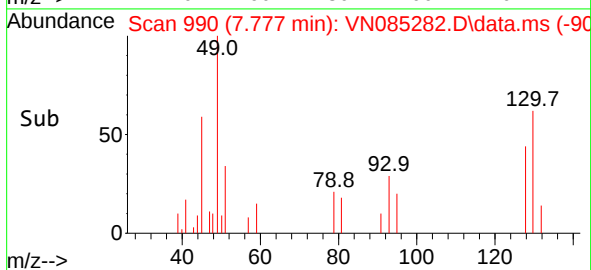
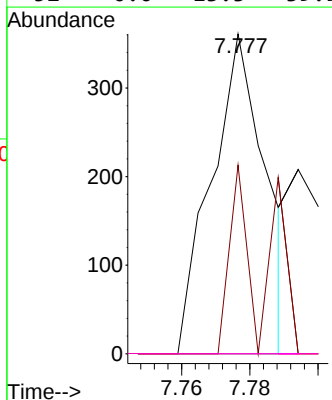
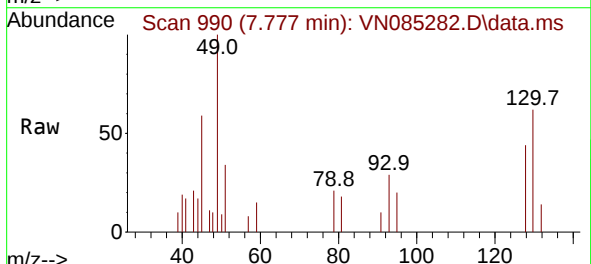
Instrument :
MSVOA_N
ClientSampleId :

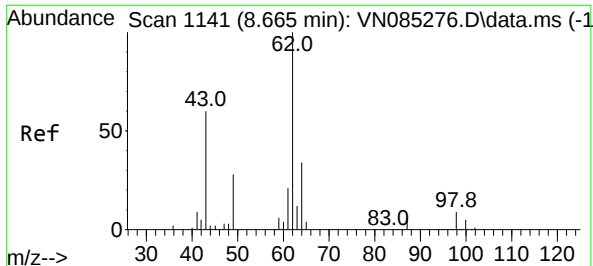
Tgt Ion: 43 Resp: 13360
Ion Ratio Lower Upper
43 100
57 7.2 6.2 9.2
72 0.0 19.9 29.9#



#35
Methacrylonitrile
Concen: 0.271 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.006 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 41 Resp: 400
Ion Ratio Lower Upper
41 100
39 59.0 26.7 80.0
67 0.0 32.5 97.5#
52 0.0 13.3 39.9#





#36

1,2-Dichloroethane

Concen: 2.057 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN085282.D

Acq: 20 Dec 2024 14:43

Instrument :

MSVOA_N

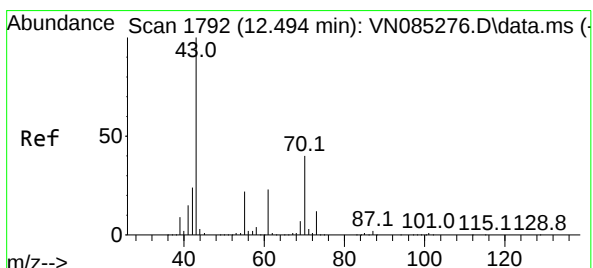
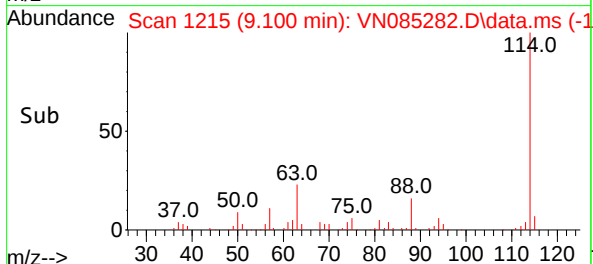
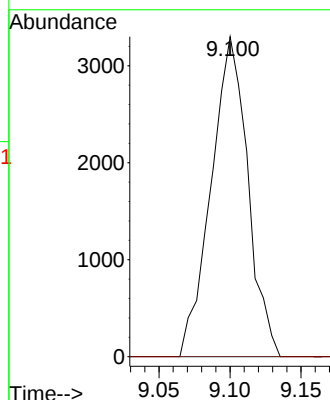
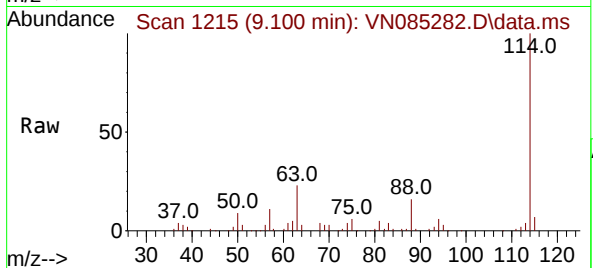
ClientSampleId :

Tgt Ion: 62 Resp: 5938

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#47

n-amy1 Acetate

Concen: 0.269 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.041 min

Lab File: VN085282.D

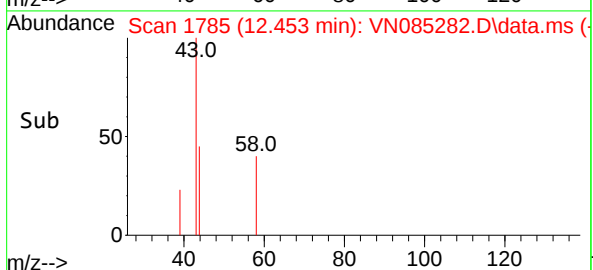
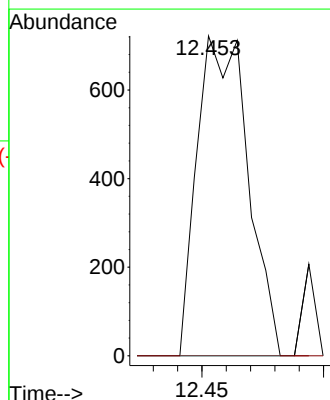
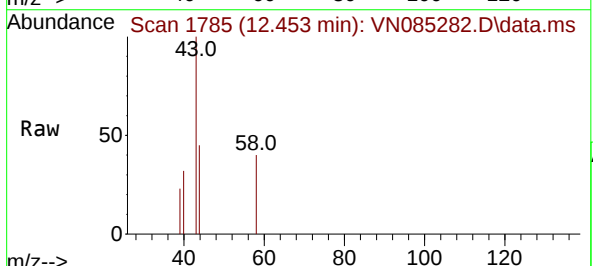
Acq: 20 Dec 2024 14:43

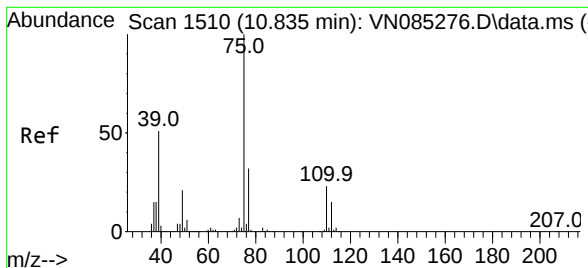
Tgt Ion: 43 Resp: 1048

Ion Ratio Lower Upper

43 100

55 0.0 21.3 31.9#

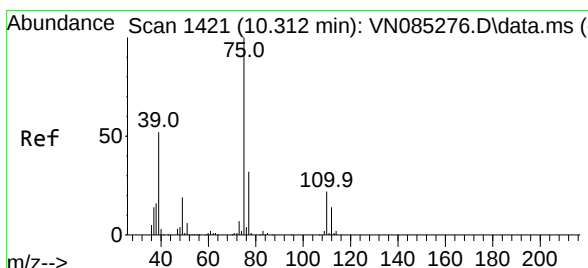
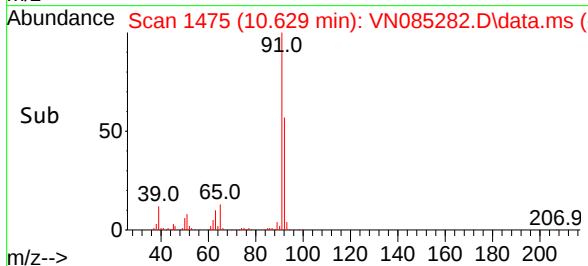
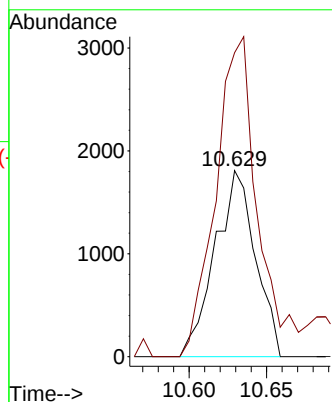
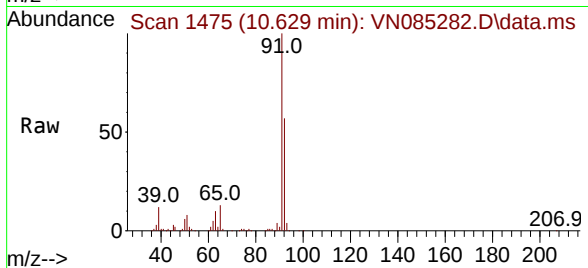




#48
t-1,3-Dichloropropene
Concen: 1.122 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.200 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

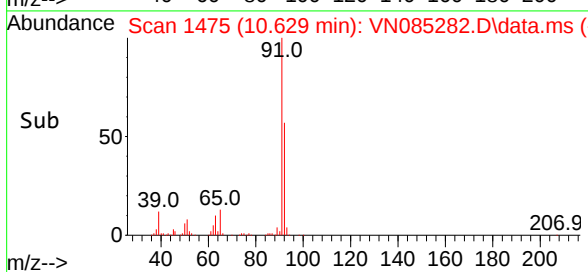
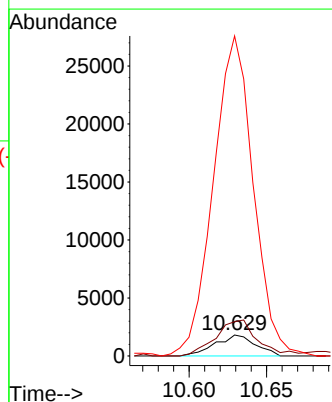
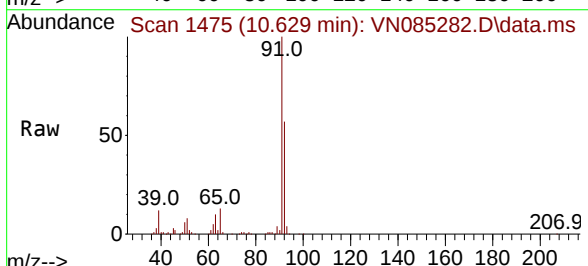
Instrument :
MSVOA_N
ClientSampleId :

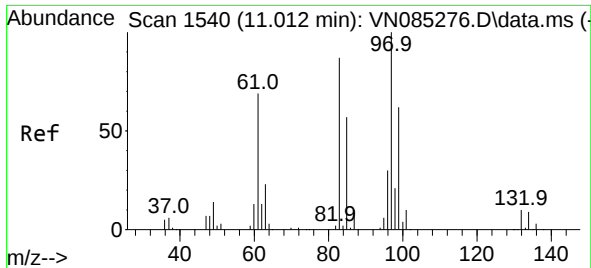
Tgt Ion: 75 Resp: 3280
Ion Ratio Lower Upper
75 100
77 163.4 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 1.044 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.318 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

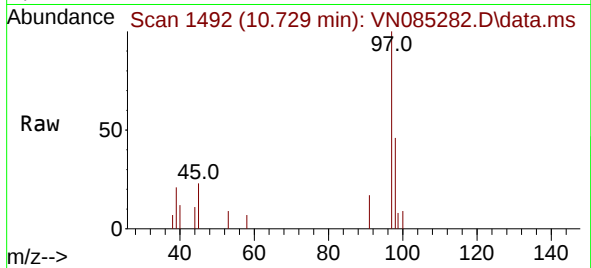
Tgt Ion: 75 Resp: 3280
Ion Ratio Lower Upper
75 100
77 163.4 26.6 40.0#
39 1488.1 41.9 62.9#



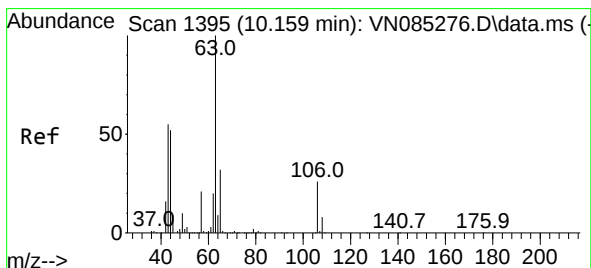
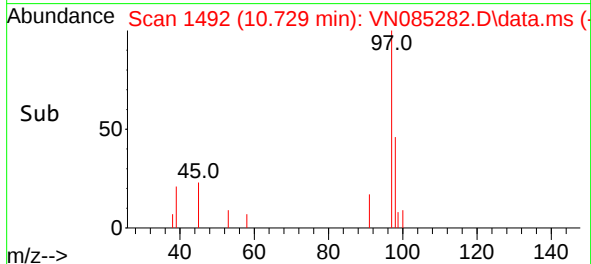
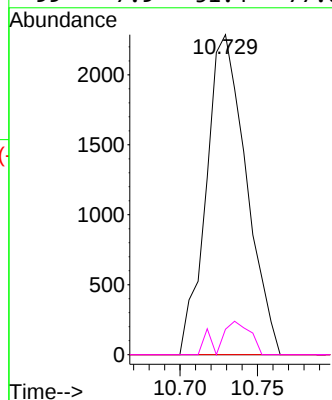


#50
 1,1,2-Trichloroethane
 Concen: 2.214 ug/l
 RT: 10.729 min Scan# 1475
 Delta R.T. -0.282 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43

Instrument :
 MSVOA_N
 ClientSampleId :

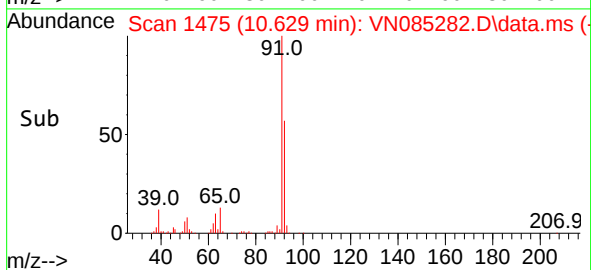
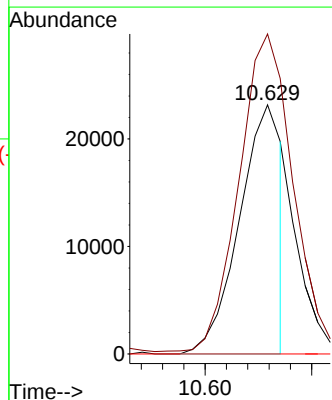
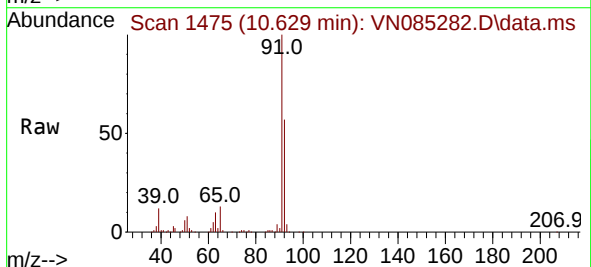


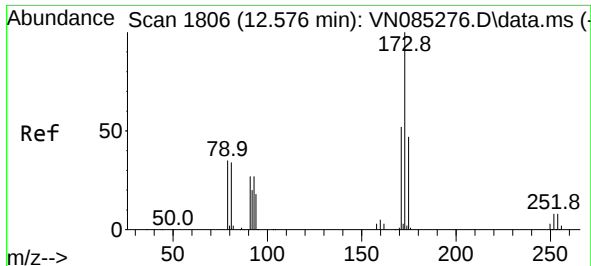
Tgt Ion: 97	Resp: 4101
Ion Ratio	Lower Upper
97	100
83	0.0 72.2 108.2#
85	0.0 46.6 70.0#
99	7.9 51.4 77.0#



#55
 2-Chloroethyl vinyl ether
 Concen: 22.247 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. 0.471 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43

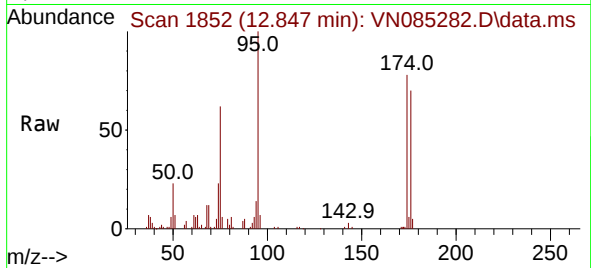
Tgt Ion: 63	Resp: 32099
Ion Ratio	Lower Upper
63	100
65	127.3 25.9 38.9#
106	0.0 21.2 31.8#



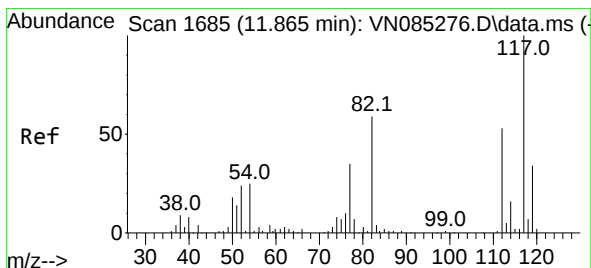
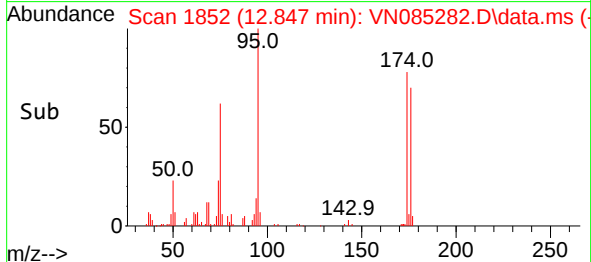
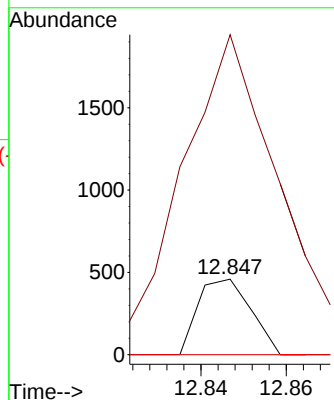


#56
Bromoform
Concen: 0.279 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Instrument :
MSVOA_N
ClientSampleId :

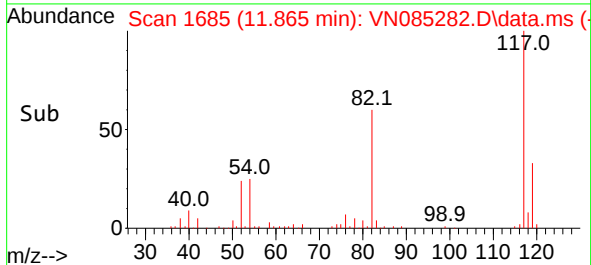
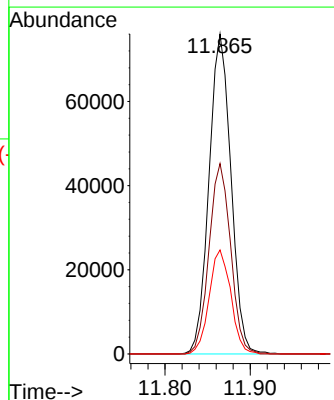
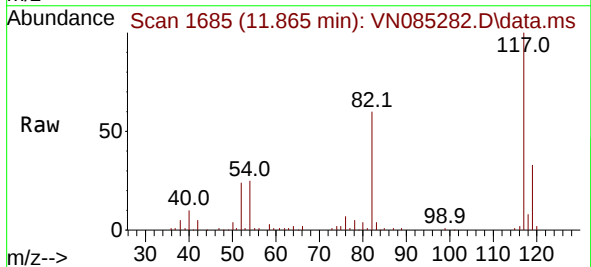


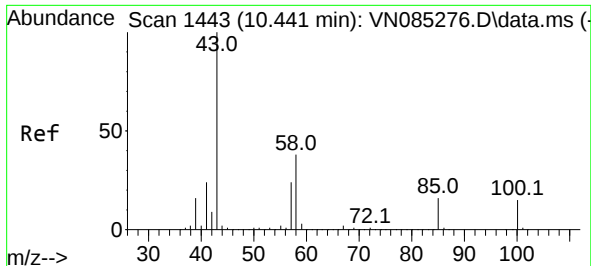
Tgt Ion:173 Resp: 395
Ion Ratio Lower Upper
173 100
175 772.9 39.4 59.2#
254 0.0 7.2 10.8#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

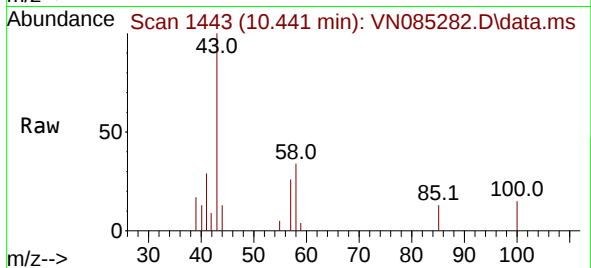
Tgt Ion:117 Resp: 136162
Ion Ratio Lower Upper
117 100
82 58.6 47.4 71.0
119 32.1 25.3 37.9





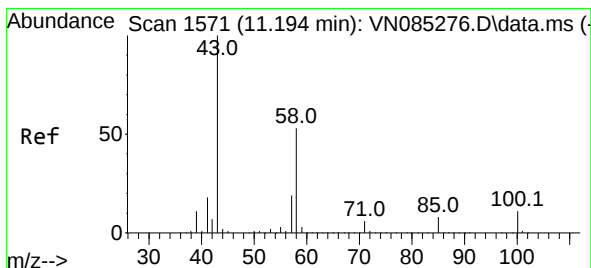
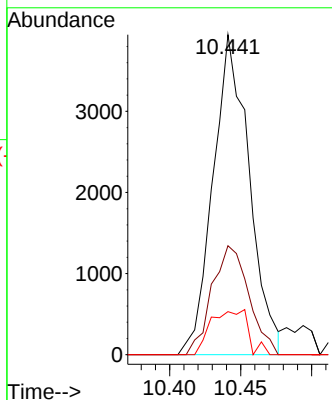
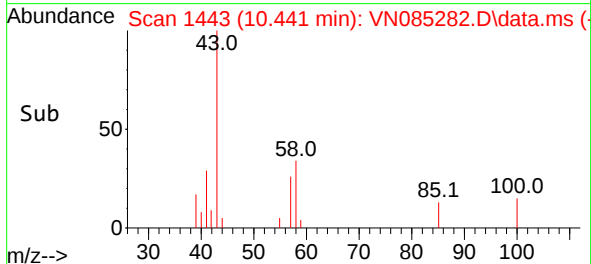
#58
4-Methyl-2-Pentanone
Concen: 2.532 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 43 Resp: 6989

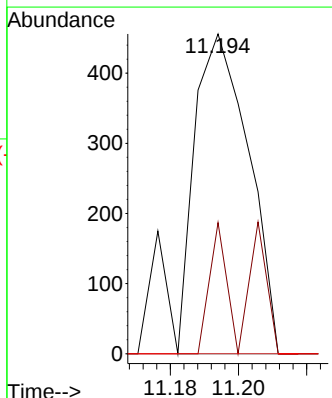
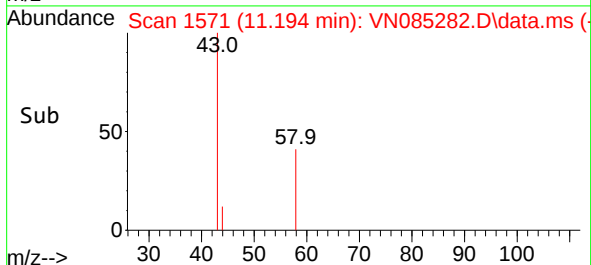
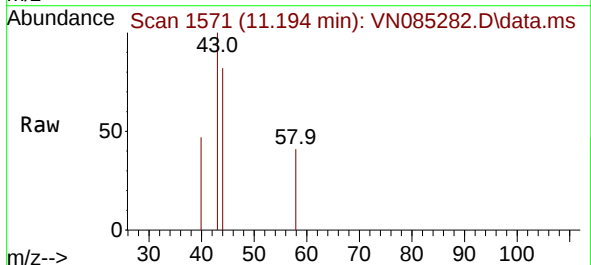
Ion	Ratio	Lower	Upper
43	100		
58	34.7	29.2	43.8
85	13.5	12.8	19.2

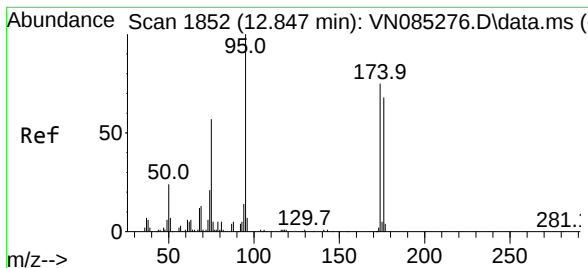


#59
2-Hexanone
Concen: 0.250 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 43 Resp: 501

Ion	Ratio	Lower	Upper
43	100		
58	13.2	40.2	60.4#
57	0.0	14.2	21.4#

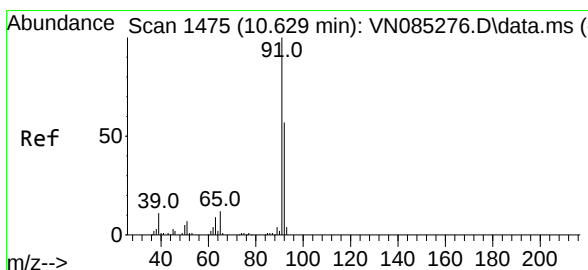
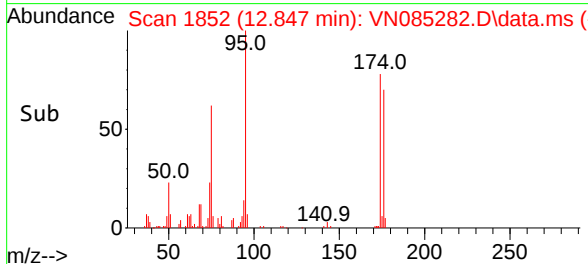
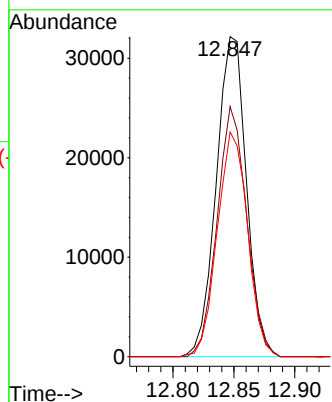
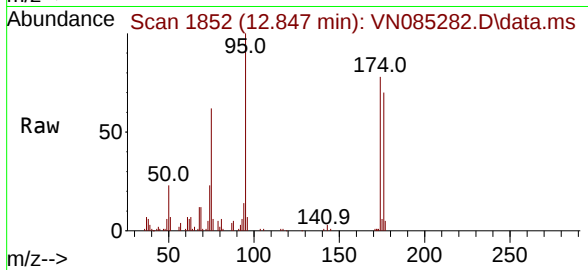




#60
4-Bromofluorobenzene
Concen: 25.141 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

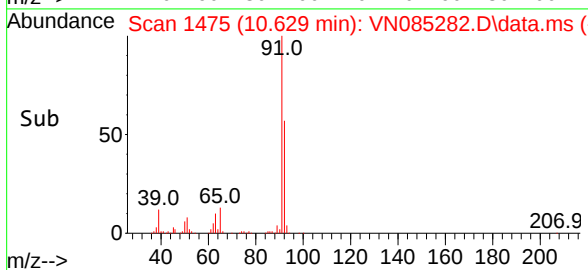
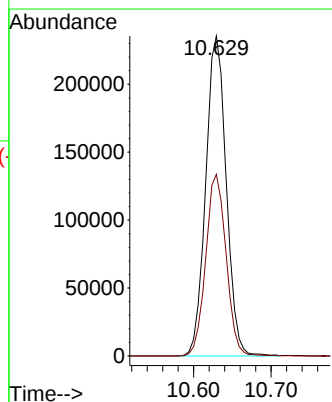
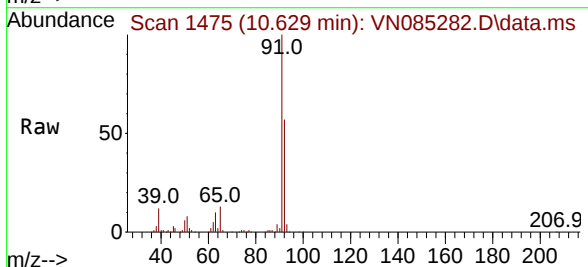
Instrument :
MSVOA_N
ClientSampleId :

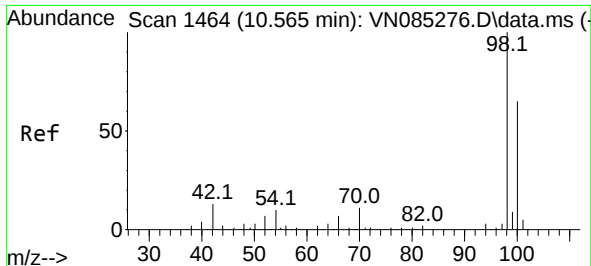
Tgt Ion: 95 Resp: 55452
Ion Ratio Lower Upper
95 100
174 76.7 57.8 86.8
176 70.4 57.1 85.7



#62
Toluene
Concen: 51.716 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

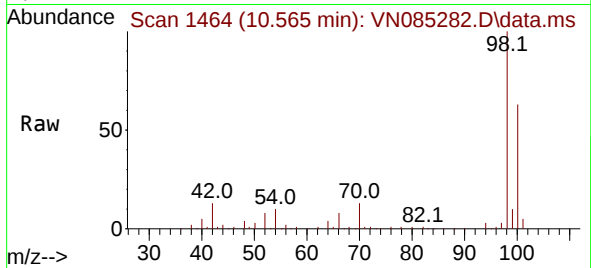
Tgt Ion: 91 Resp: 432616
Ion Ratio Lower Upper
91 100
92 56.4 45.9 68.9



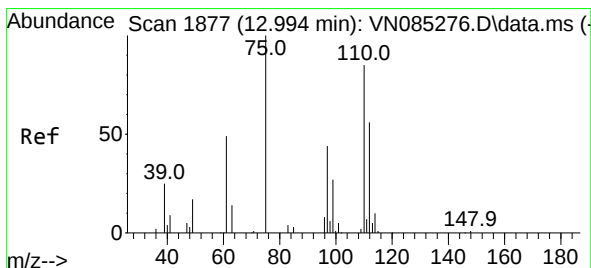
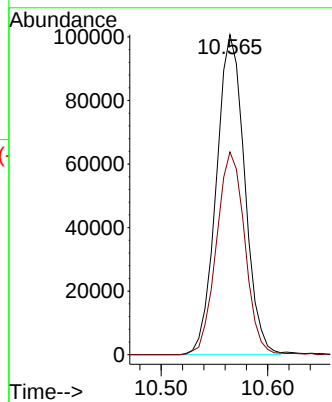
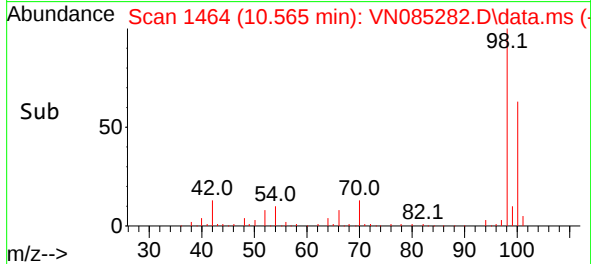


#63
Toluene-d8
Concen: 27.949 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Instrument :
MSVOA_N
ClientSampleId :

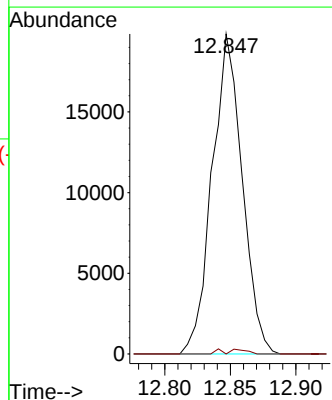
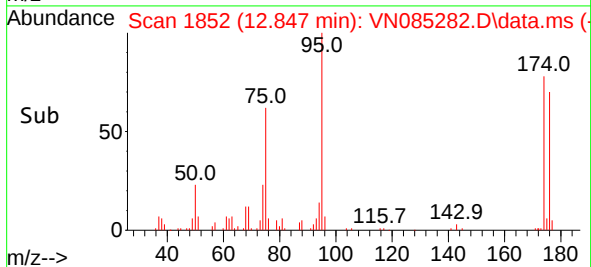
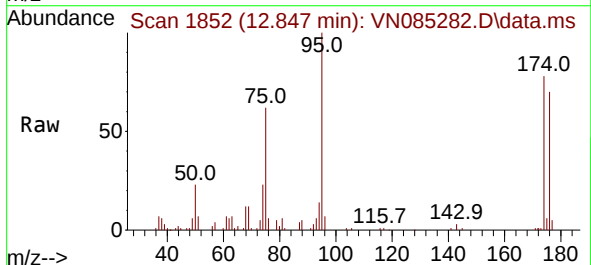


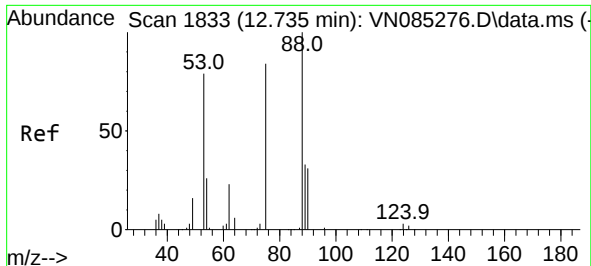
Tgt Ion: 98 Resp: 185829
Ion Ratio Lower Upper
98 100
100 63.7 50.8 76.2



#72
1,2,3-Trichloropropane
Concen: 13.287 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085282.D
Acq: 20 Dec 2024 14:43

Tgt Ion: 75 Resp: 31679
Ion Ratio Lower Upper
75 100
77 0.8 0.0 407.2





#77

t-1,4-Dichloro-2-butene

Concen: 32.512 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN085282.D

Acq: 20 Dec 2024 14:43

Instrument :

MSVOA_N

ClientSampleId :

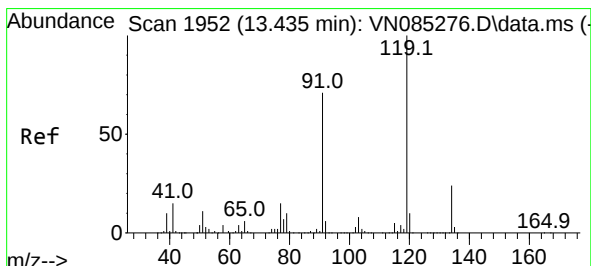
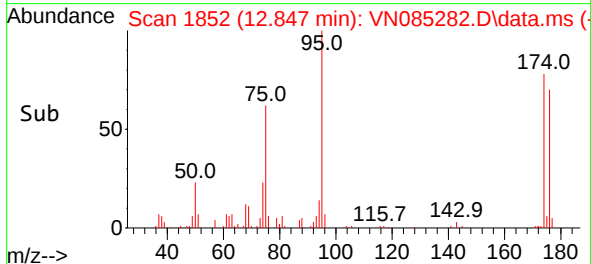
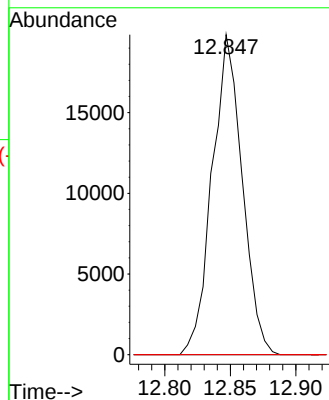
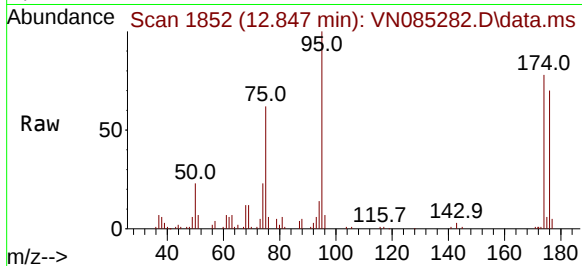
Tgt Ion: 75 Resp: 31679

Ion Ratio Lower Upper

75 100

53 0.0 54.9 164.5#

89 0.0 22.8 68.3#



#79

tert-butylbenzene

Concen: 0.517 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN085282.D

Acq: 20 Dec 2024 14:43

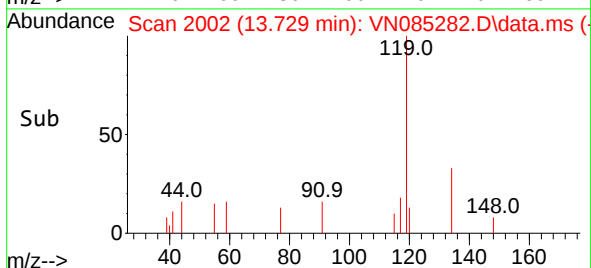
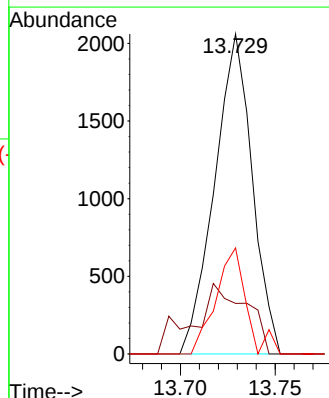
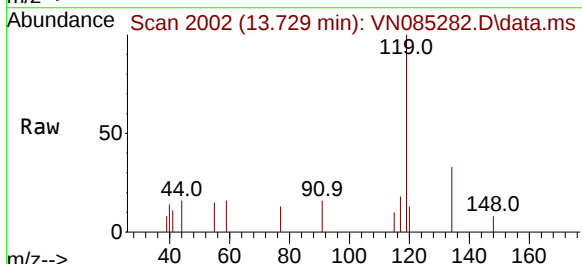
Tgt Ion: 119 Resp: 2848

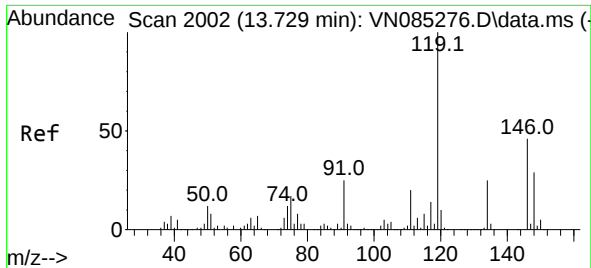
Ion Ratio Lower Upper

119 100

91 7.7 0.0 142.0

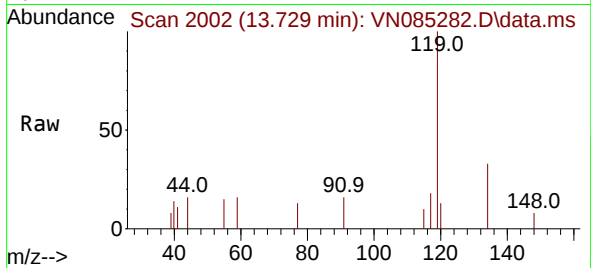
134 24.8 0.0 49.0



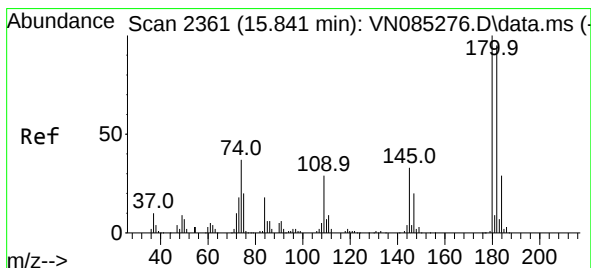
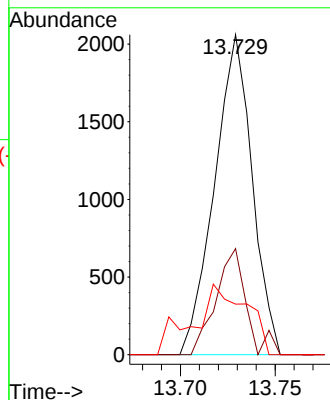
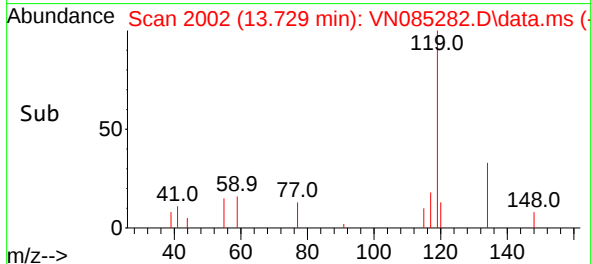


#82
 p-Isopropyltoluene
 Concen: 0.435 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43

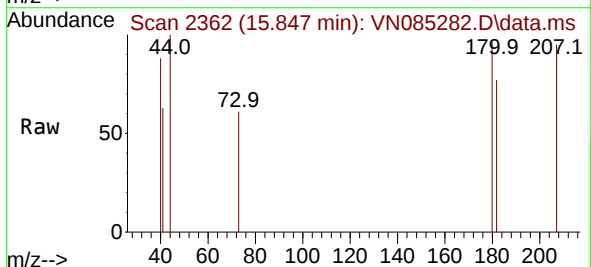
Instrument :
 MSVOA_N
 ClientSampleId :



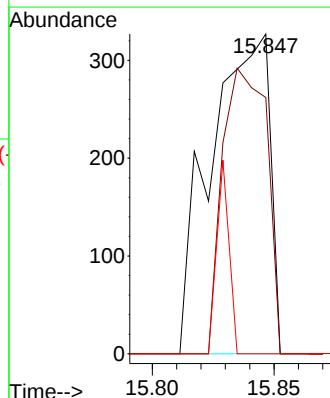
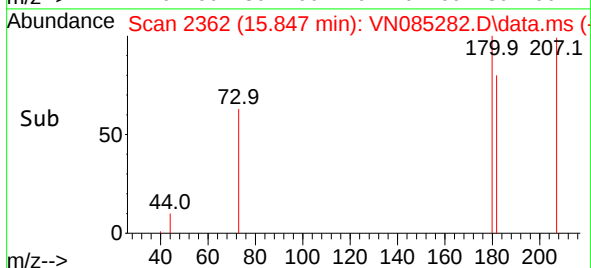
Tgt Ion:119 Resp: 2848
 Ion Ratio Lower Upper
 119 100
 134 24.8 0.0 51.4
 91 7.7 0.0 51.4

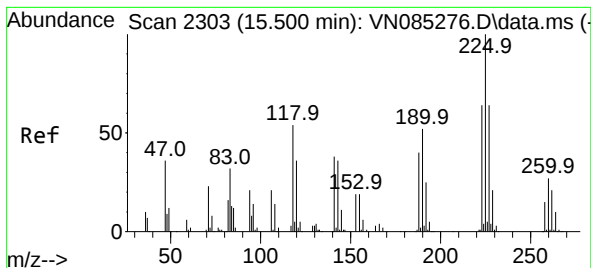


#89
 1,2,4-Trichlorobenzene
 Concen: 0.337 ug/l
 RT: 15.847 min Scan# 2362
 Delta R.T. 0.012 min
 Lab File: VN085282.D
 Acq: 20 Dec 2024 14:43



Tgt Ion:180 Resp: 552
 Ion Ratio Lower Upper
 180 100
 182 66.7 76.5 114.7#
 145 0.0 27.4 41.2#





#90

Hexachlorobutadiene

Concen: 0.370 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN085282.D

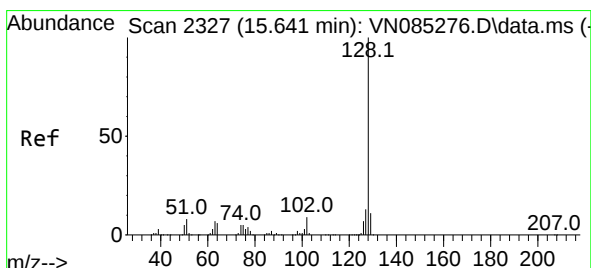
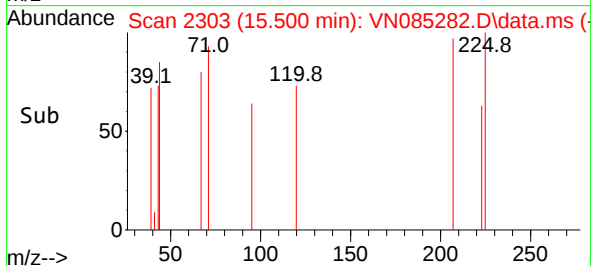
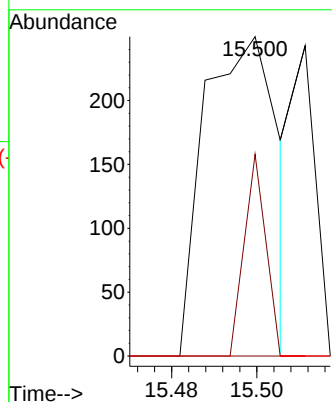
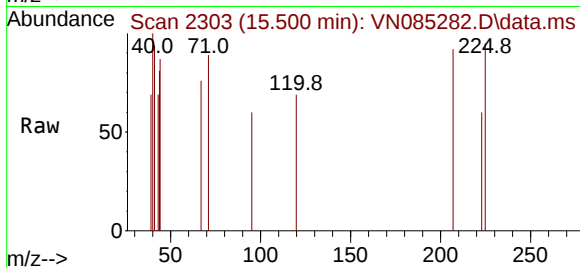
Acq: 20 Dec 2024 14:43

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:225	Resp:	302
Ion Ratio	Lower	Upper
225	100	
223	0.0	116.2
227	0.0	116.4



#91

Naphthalene

Concen: 0.499 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN085282.D

Acq: 20 Dec 2024 14:43

Tgt Ion:128	Resp:	2626
Ion Ratio	Lower	Upper
128	100	
127	0.0	16.0#
129	0.0	13.0#

