

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
 Data File : VN085135.D
 Acq On : 06 Dec 2024 18:27
 Operator : JC\MD
 Sample : P5139-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 23:12:16 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)

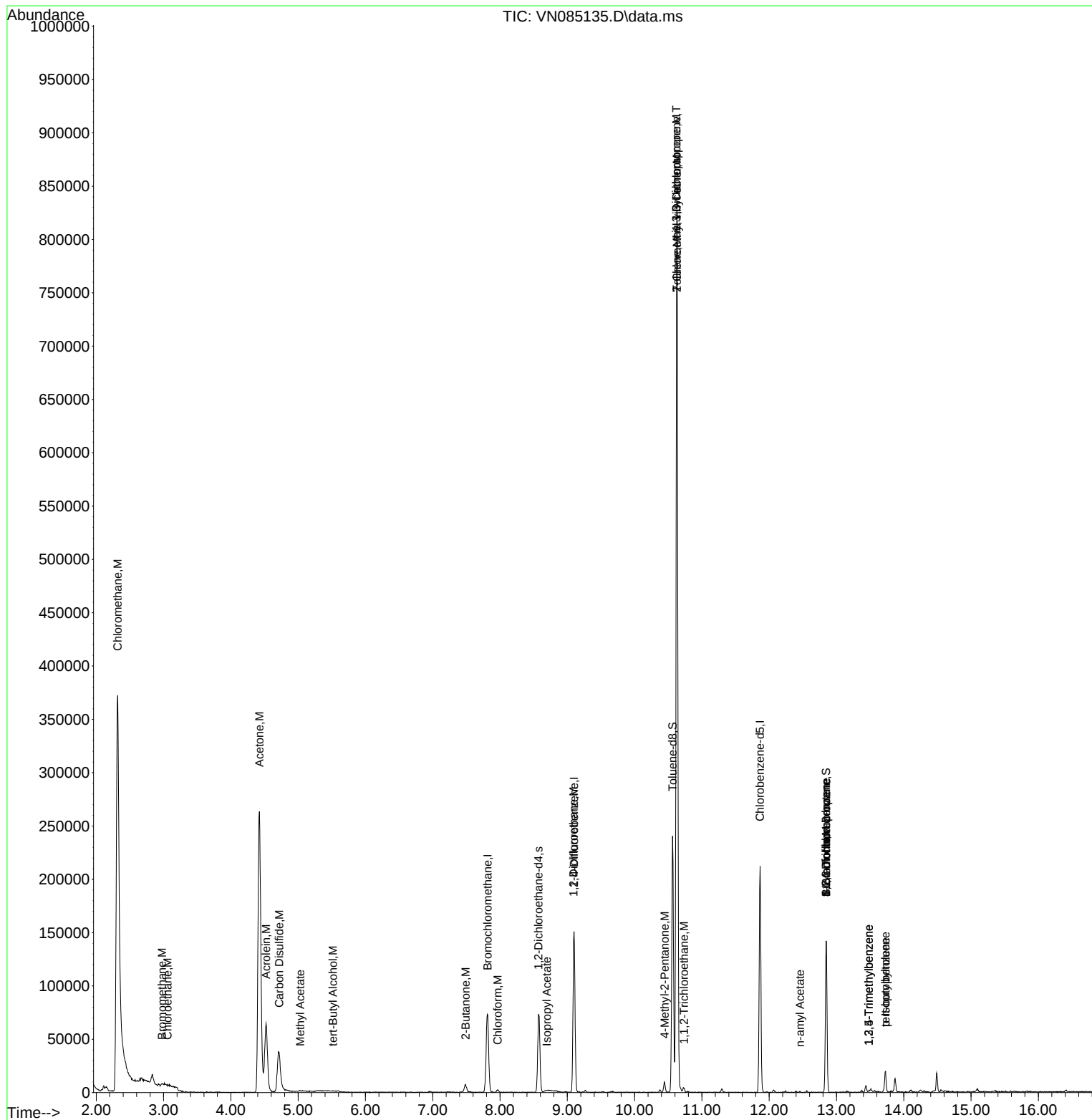
Internal Standards						
1) Bromochloromethane	7.818	128	27342	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	130359	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	123038	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	64050	29.523	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.400%
60) 4-Bromofluorobenzene	12.847	95	48807	23.974	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	79.900%
63) Toluene-d8	10.565	98	162389	28.136	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	93.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.318	50	15523	8.017	ug/l #	43
5) Bromomethane	2.977	94	607	0.483	ug/l #	41
6) Chloroethane	3.059	64	1365	1.122	ug/l #	65
12) Methyl Acetate	5.030	43	1191	0.606	ug/l #	46
13) Acrolein	4.524	56	113	0.396	ug/l #	1
15) Acetone	4.424	58	157586	712.930	ug/l	96
16) Carbon Disulfide	4.718	76	5974	1.200	ug/l	96
23) tert-Butyl Alcohol	5.518	59	121	0.414	ug/l #	100
25) Chloroform	7.965	83	2511	0.743	ug/l	92
30) 2-Butanone	7.489	43	12129	12.565	ug/l #	96
36) 1,2-Dichloroethane	9.094	62	4654	2.069	ug/l #	75
44) Isopropyl Acetate	8.694	43	1040	0.312	ug/l #	48
47) n-amyl Acetate	12.459	43	592	0.211	ug/l #	78
48) t-1,3-Dichloropropene	10.624	75	4026	1.671	ug/l #	1
49) cis-1,3-Dichloropropene	10.624	75	4026	1.535	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	3316	2.143	ug/l #	18
55) 2-Chloroethyl vinyl ether	10.629	63	42116	38.530	ug/l #	1
56) Bromoform	12.847	173	489	0.387	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	6715	3.344	ug/l	95
62) Toluene	10.629	91	624689	87.058	ug/l	100
72) 1,2,3-Trichloropropane	12.847	75	26137	12.254	ug/l	1
76) 1,3,5-Trimethylbenzene	13.482	105	1274	0.210	ug/l	82
77) t-1,4-Dichloro-2-butene	12.847	75	26137	33.724	ug/l #	10
79) tert-butylbenzene	13.729	119	10622	2.128	ug/l	59
80) 1,2,4-Trimethylbenzene	13.482	105	1274	0.212	ug/l	87
82) p-Isopropyltoluene	13.729	119	10622	1.807	ug/l	95

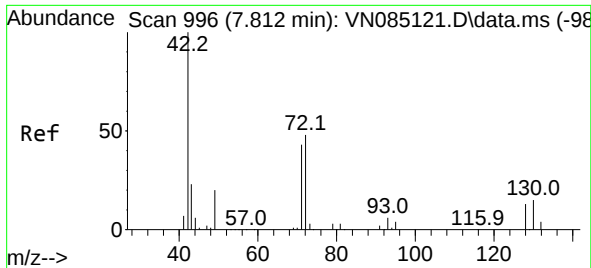
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120624\
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
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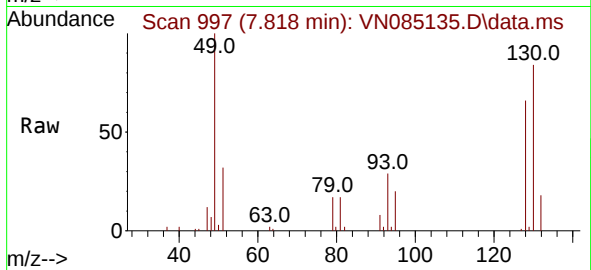
Quant Time: Dec 06 23:12:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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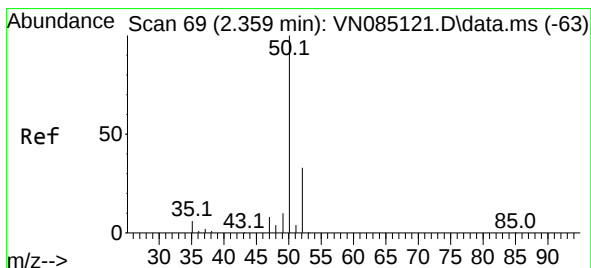
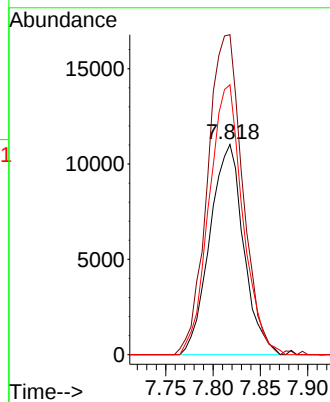
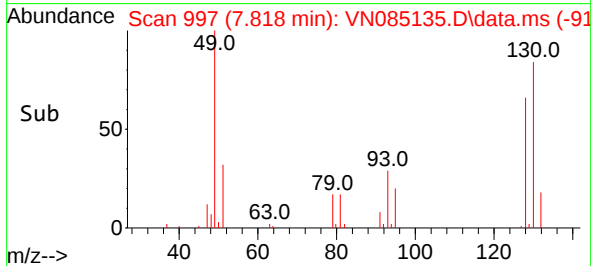


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

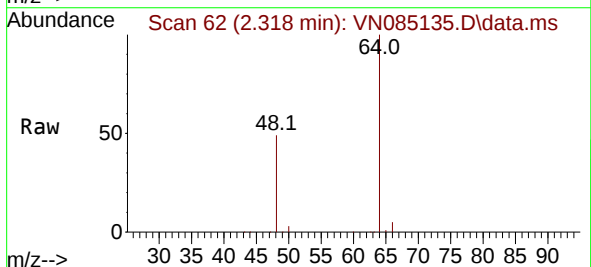
Instrument :
MSVOA_N
ClientSampleId :



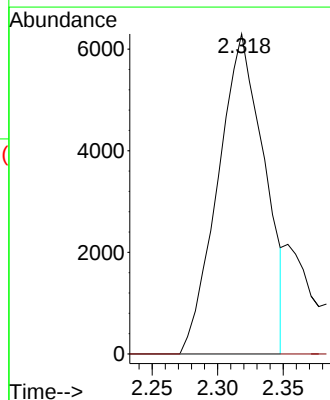
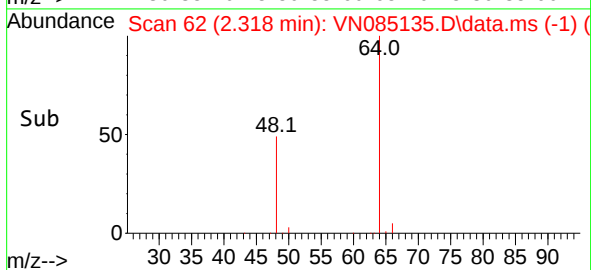
Tgt Ion	Ratio	Lower	Upper
128	100		
49	157.9	0.0	394.5
130	128.5	0.0	316.5

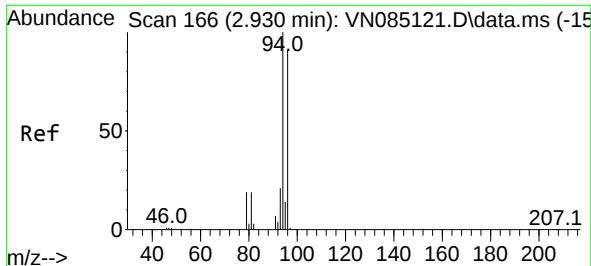


#3
Chloromethane
Concen: 8.017 ug/l
RT: 2.318 min Scan# 62
Delta R.T. -0.041 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27



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

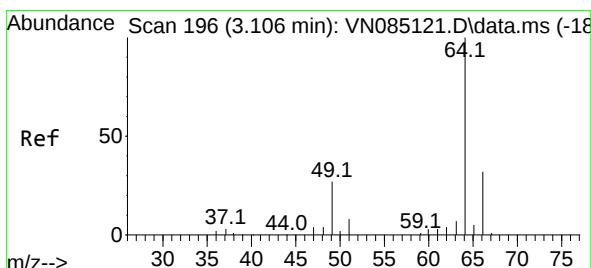
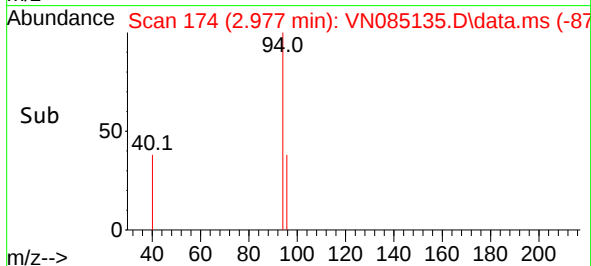
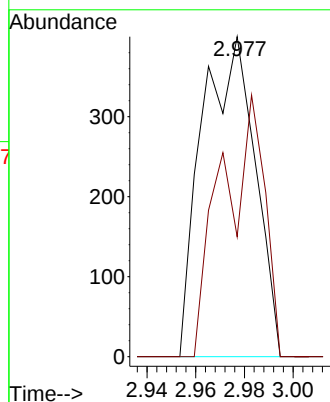
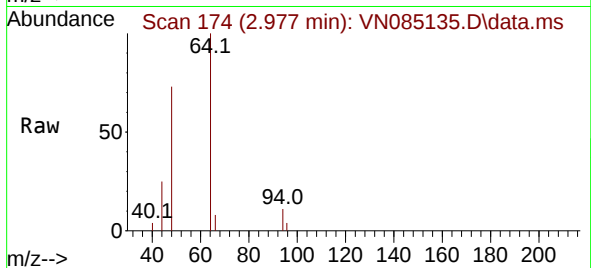




#5
Bromomethane
Concen: 0.483 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

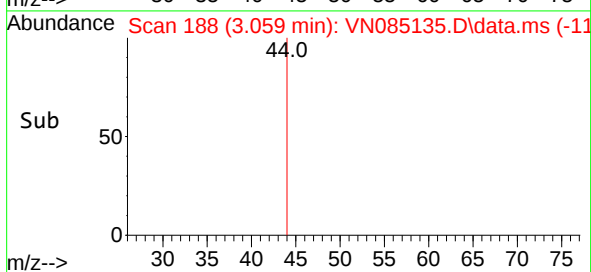
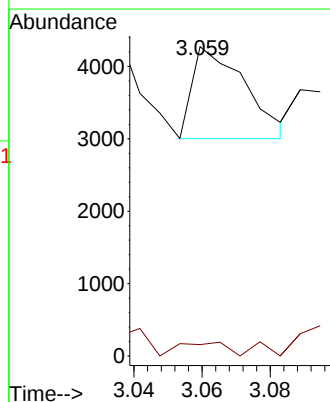
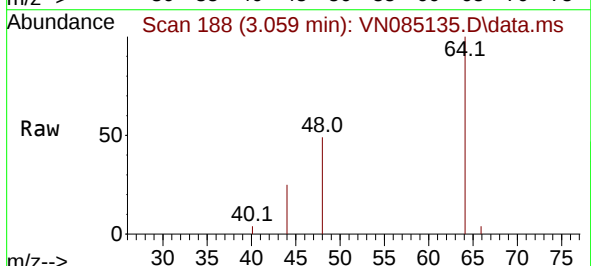
Instrument :
MSVOA_N
ClientSampleId :

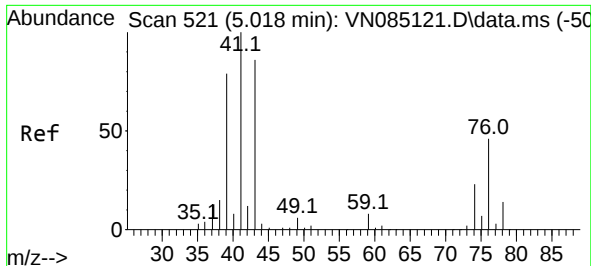
Tgt Ion: 94 Resp: 607
Ion Ratio Lower Upper
94 100
96 37.5 76.2 114.4#



#6
Chloroethane
Concen: 1.122 ug/l
RT: 3.059 min Scan# 188
Delta R.T. -0.065 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

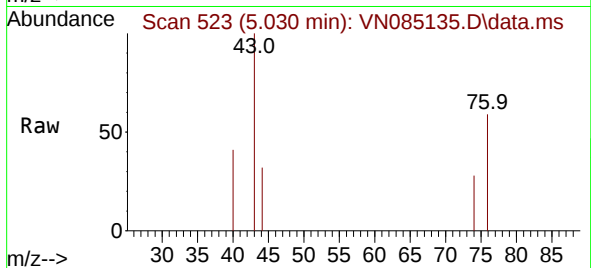
Tgt Ion: 64 Resp: 1365
Ion Ratio Lower Upper
64 100
66 12.4 25.5 38.3#



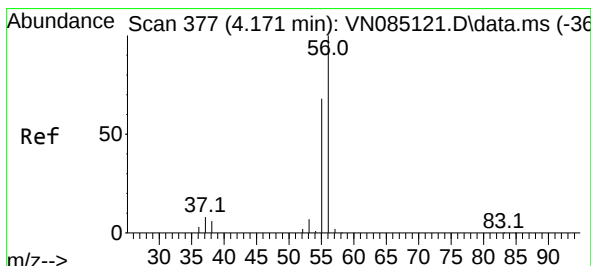
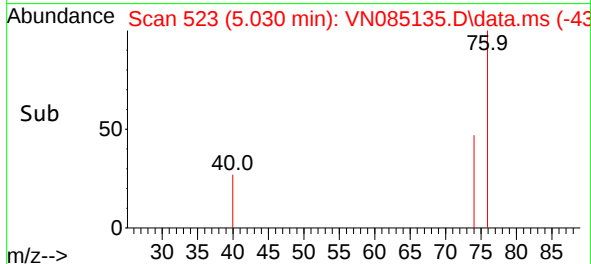
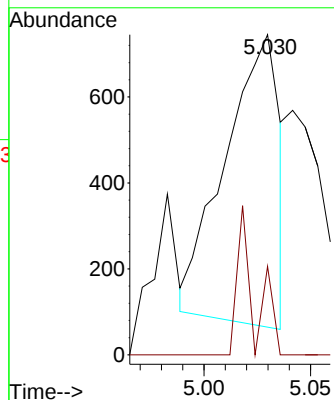


#12
Methyl Acetate
Concen: 0.606 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Instrument :
MSVOA_N
ClientSampleId :

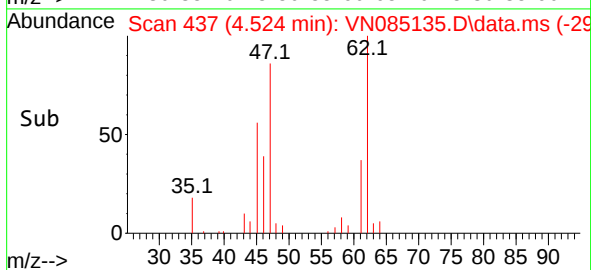
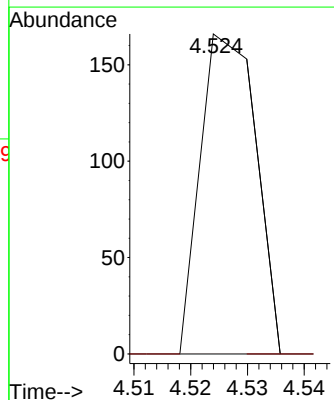
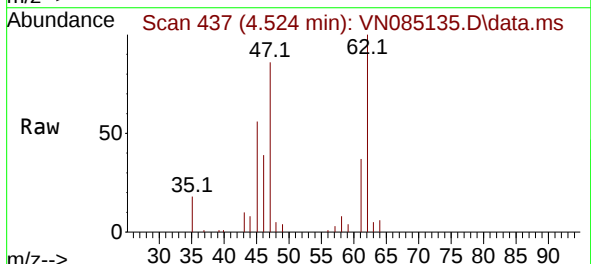


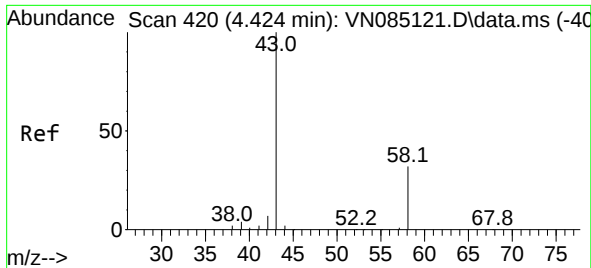
Tgt Ion: 43 Resp: 1191
Ion Ratio Lower Upper
43 100
74 51.9 19.8 29.6#



#13
Acrolein
Concen: 0.396 ug/l
RT: 4.524 min Scan# 437
Delta R.T. 0.341 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 1226.5 59.4 89.0#

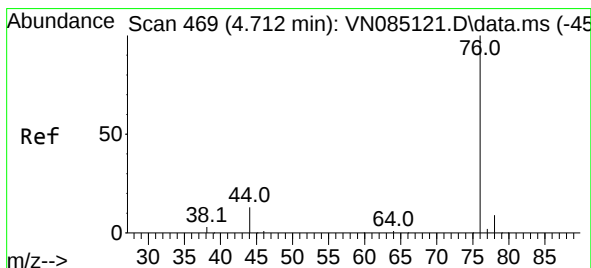
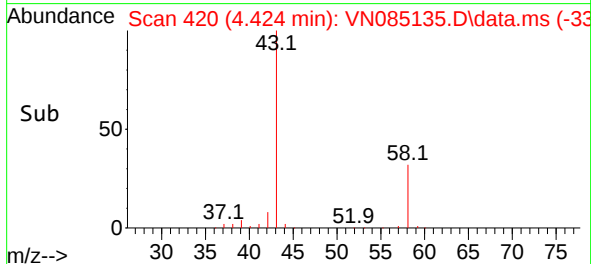
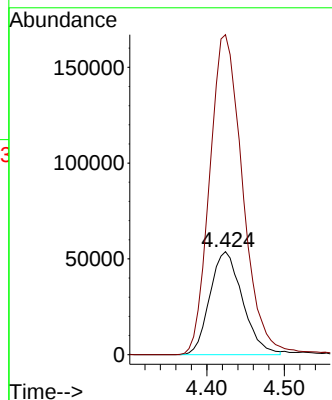
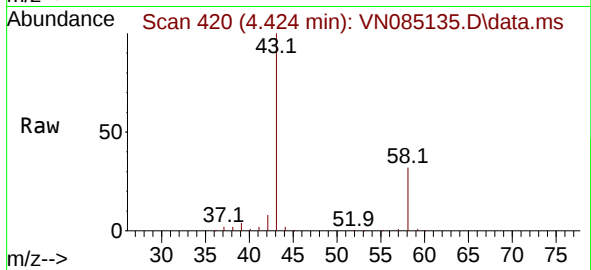




#15
Acetone
Concen: 712.930 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

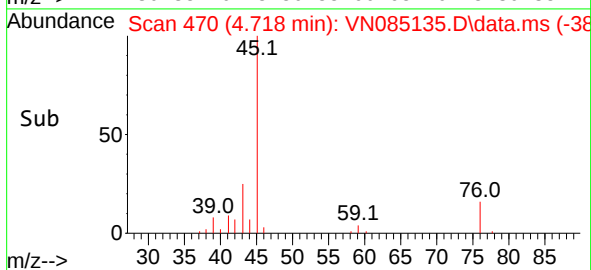
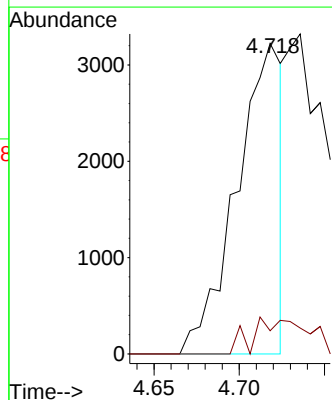
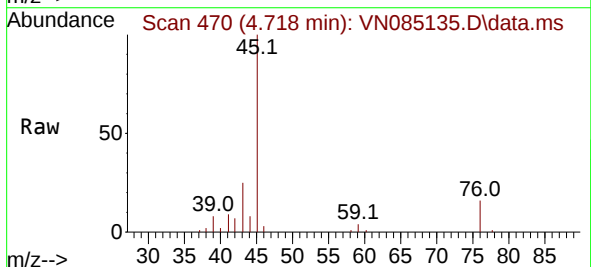
Instrument :
MSVOA_N
ClientSampleId :

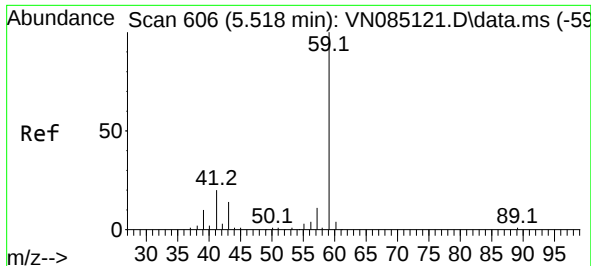
Tgt Ion: 58 Resp: 157586
Ion Ratio Lower Upper
58 100
43 310.2 242.3 363.5



#16
Carbon Disulfide
Concen: 1.200 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 76 Resp: 5974
Ion Ratio Lower Upper
76 100
78 7.5 7.1 10.7

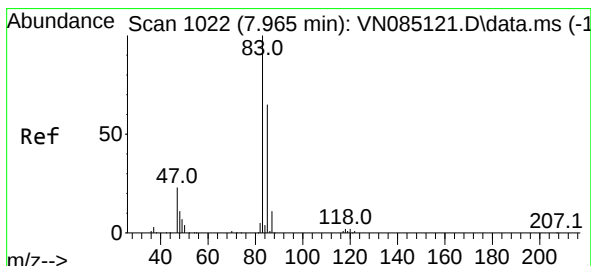
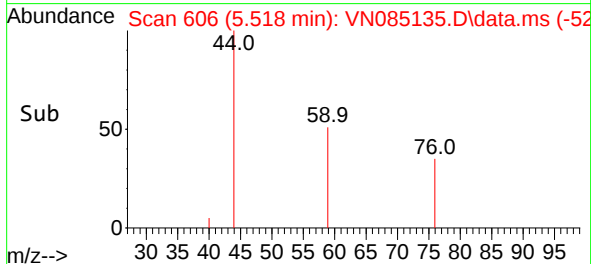
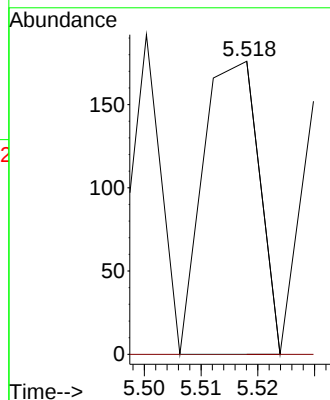
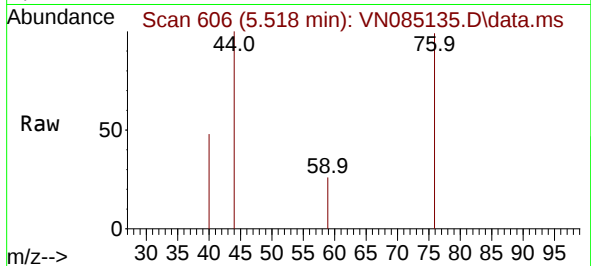




#23
tert-Butyl Alcohol
Concen: 0.414 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

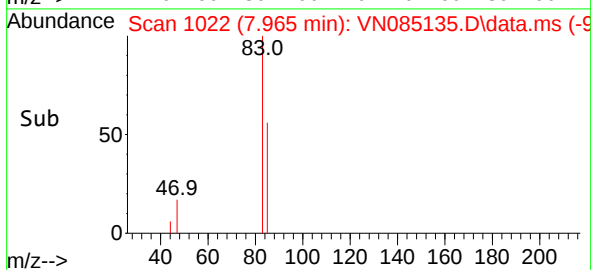
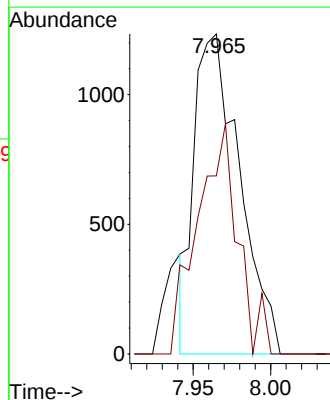
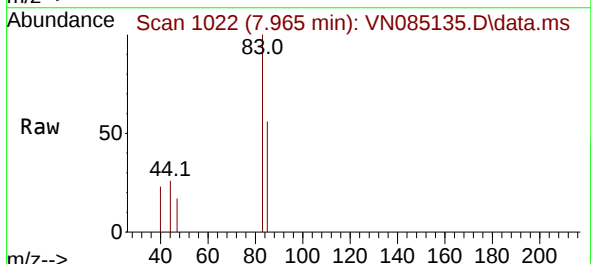
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MSVOA_N
ClientSampleId :

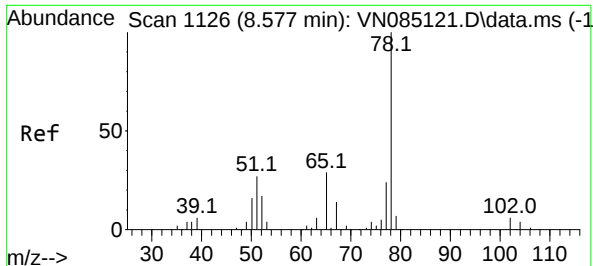
Tgt Ion: 59 Resp: 121
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.743 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 83 Resp: 2511
Ion Ratio Lower Upper
83 100
85 55.7 49.4 74.0





#27

1,2-Dichloroethane-d4

Concen: 29.523 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

Instrument :

MSVOA_N

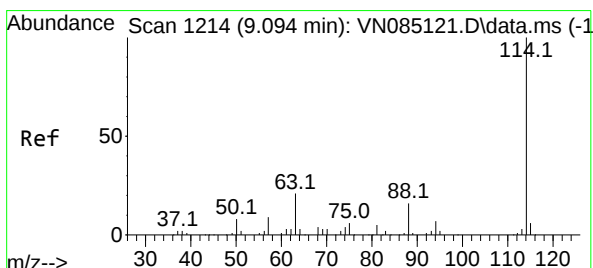
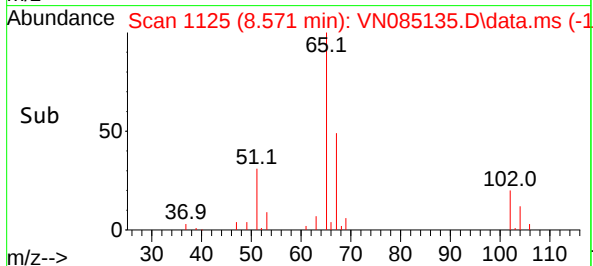
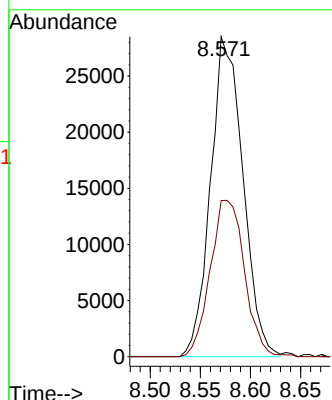
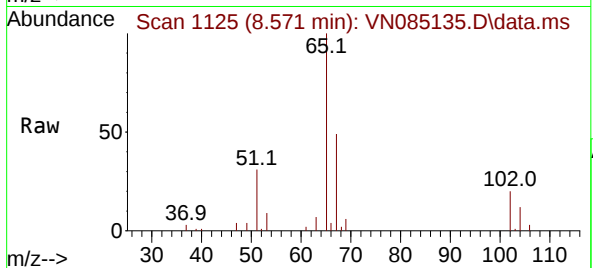
ClientSampleId :

Tgt Ion: 65 Resp: 64050

Ion Ratio Lower Upper

65 100

67 51.5 39.9 59.9



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

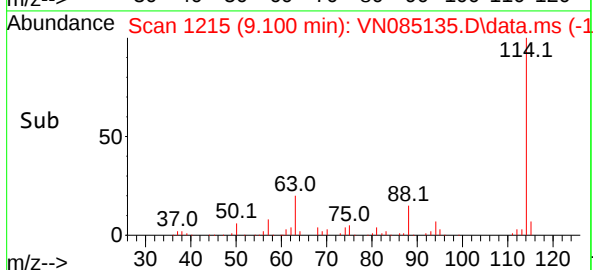
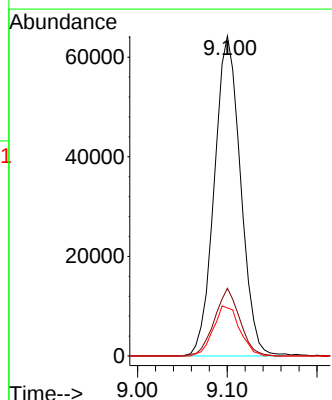
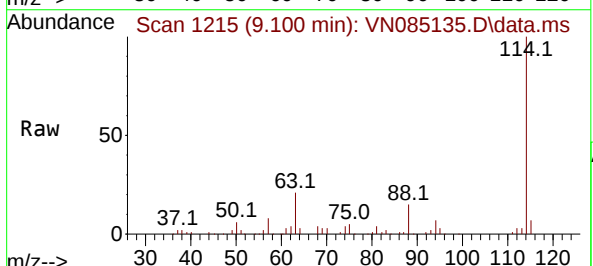
Tgt Ion: 114 Resp: 130359

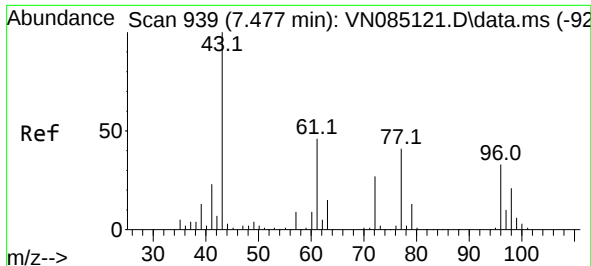
Ion Ratio Lower Upper

114 100

63 20.4 16.2 24.2

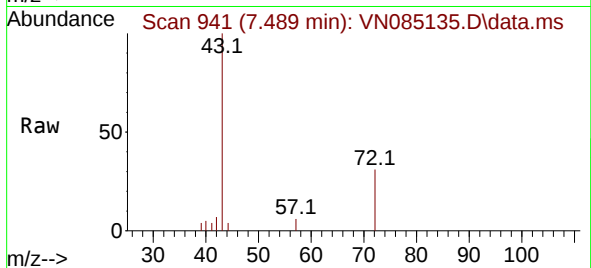
88 15.7 12.5 18.7



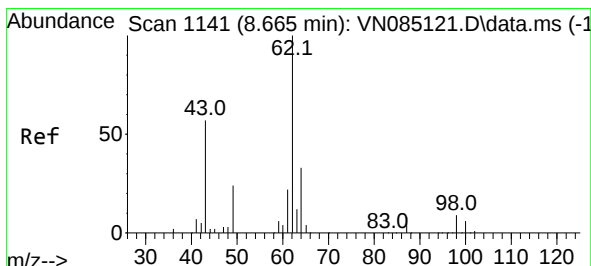
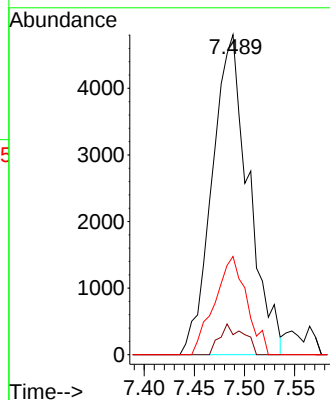
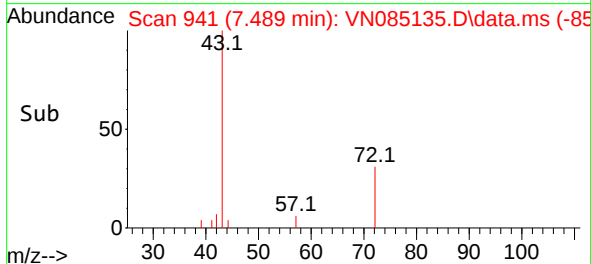


#30
2-Butanone
Concen: 12.565 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Instrument :
MSVOA_N
ClientSampleId :

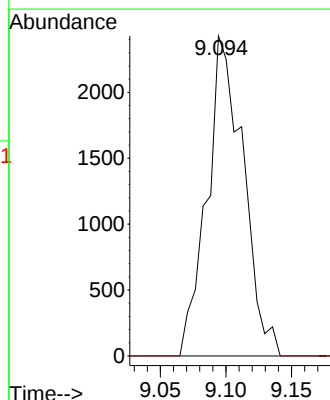
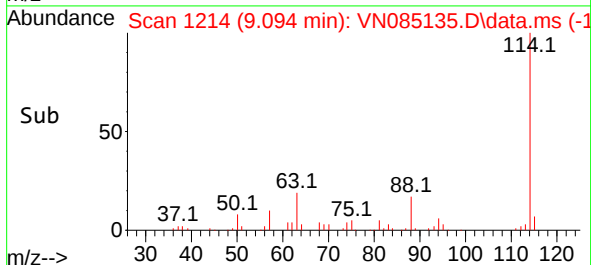
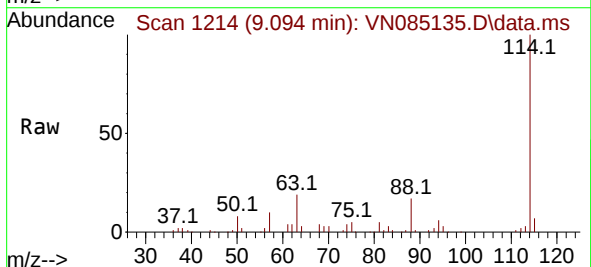


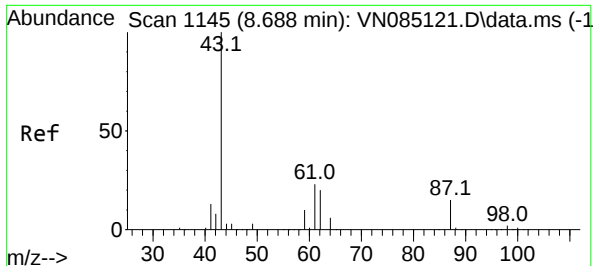
Tgt Ion: 43 Resp: 12129
Ion Ratio Lower Upper
43 100
57 3.6 6.9 10.3#
72 27.0 21.8 32.8



#36
1,2-Dichloroethane
Concen: 2.069 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.429 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 62 Resp: 4654
Ion Ratio Lower Upper
62 100
98 0.0 7.3 10.9#

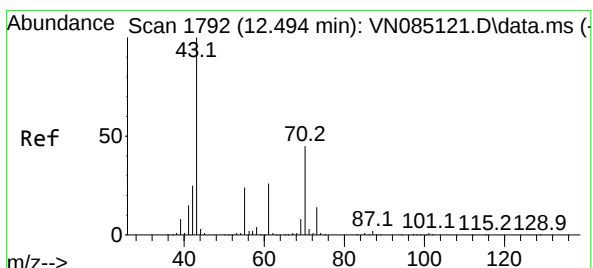
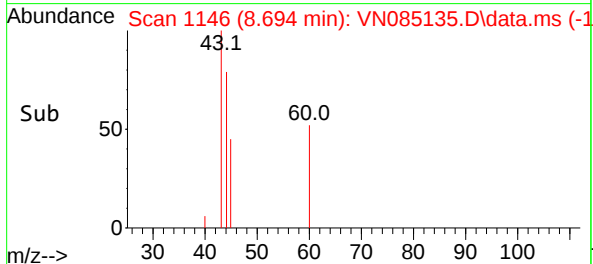
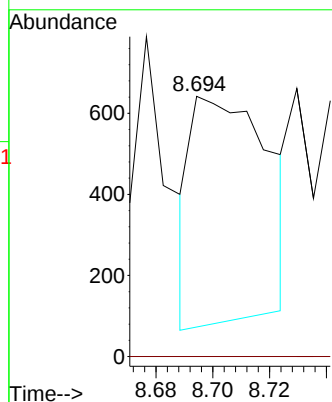
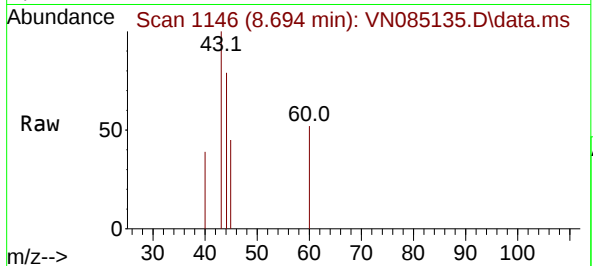




#44
Isopropyl Acetate
Concen: 0.312 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

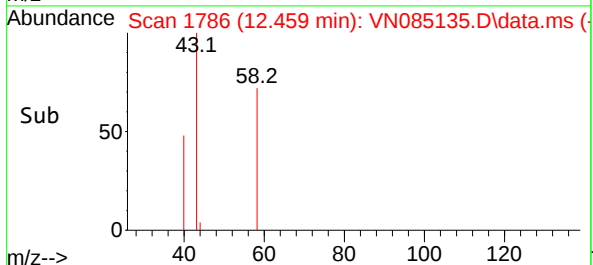
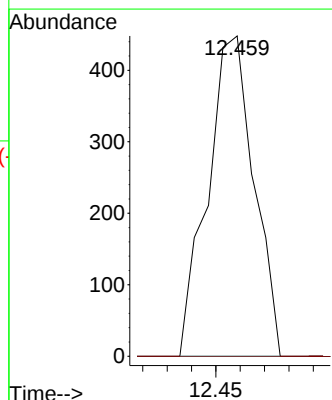
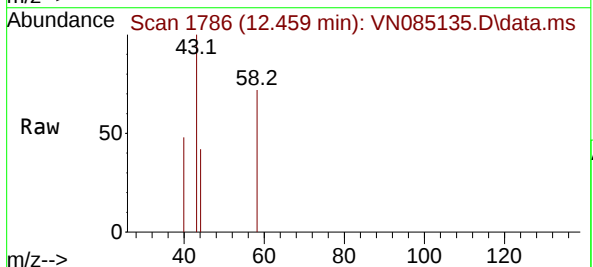
Instrument :
MSVOA_N
ClientSampleId :

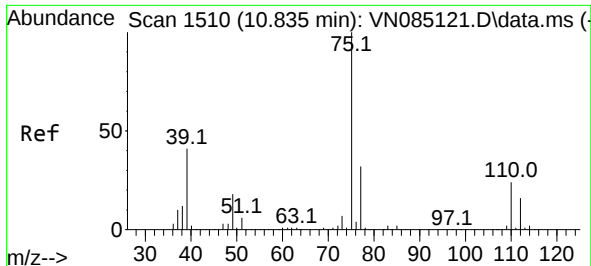
Tgt Ion: 43 Resp: 1040
Ion Ratio Lower Upper
43 100
61 0.0 21.5 32.3#



#47
n-amy1 Acetate
Concen: 0.211 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.035 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 43 Resp: 592
Ion Ratio Lower Upper
43 100
55 40.9 23.3 34.9#

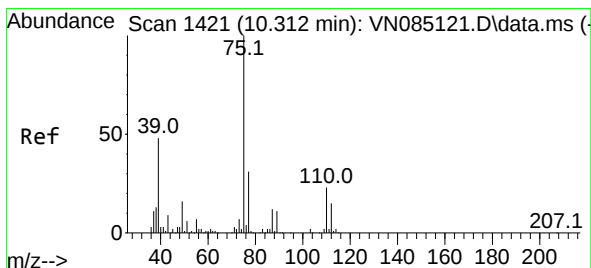
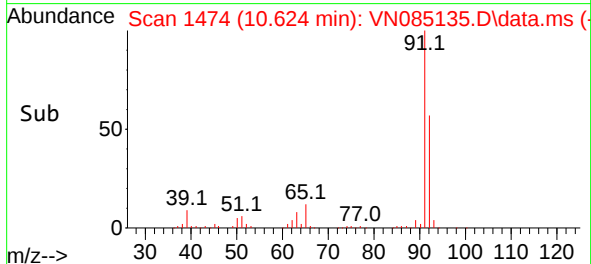
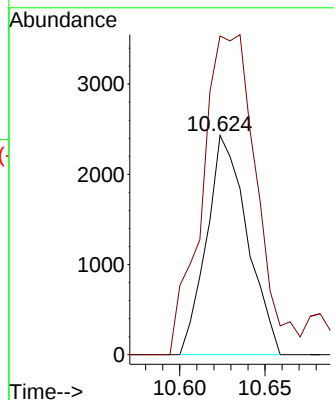
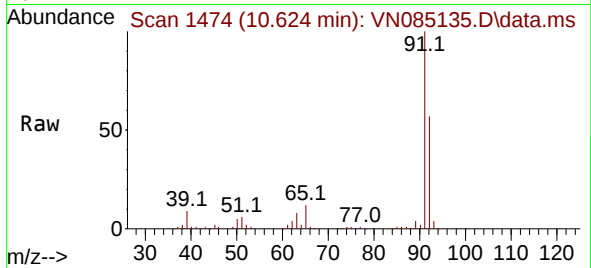




#48
 t-1,3-Dichloropropene
 Concen: 1.671 ug/l
 RT: 10.624 min Scan# 1474
 Delta R.T. -0.212 min
 Lab File: VN085135.D
 Acq: 06 Dec 2024 18:27

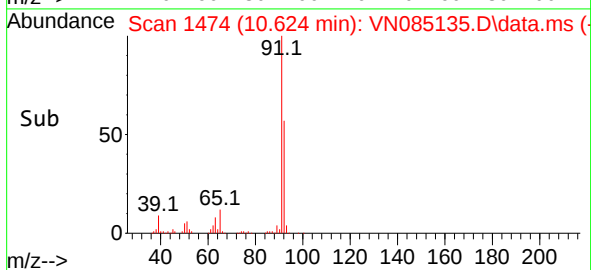
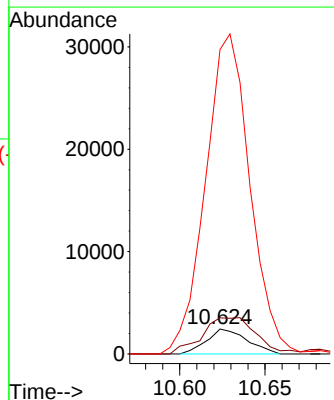
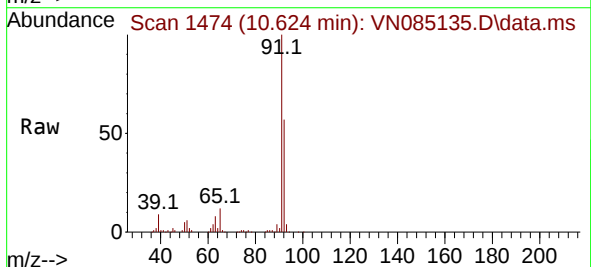
Instrument :
 MSVOA_N
 ClientSampleId :

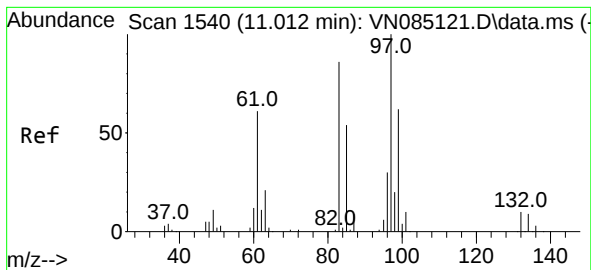
Tgt Ion: 75 Resp: 4026
 Ion Ratio Lower Upper
 75 100
 77 132.2 25.5 38.3#



#49
 cis-1,3-Dichloropropene
 Concen: 1.535 ug/l
 RT: 10.624 min Scan# 1474
 Delta R.T. 0.312 min
 Lab File: VN085135.D
 Acq: 06 Dec 2024 18:27

Tgt Ion: 75 Resp: 4026
 Ion Ratio Lower Upper
 75 100
 77 132.2 23.8 35.6#
 39 1158.4 37.3 55.9#

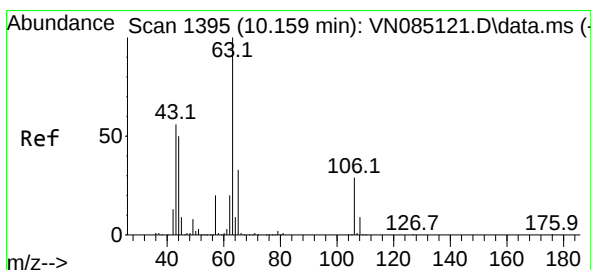
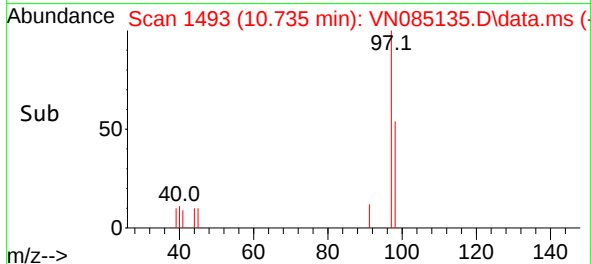
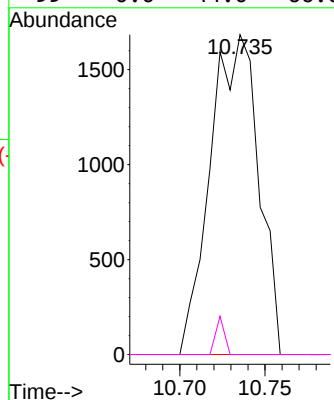
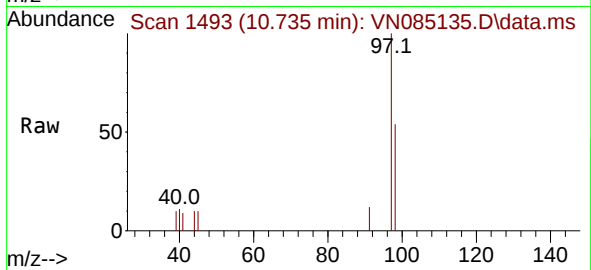




#50
1,1,2-Trichloroethane
Concen: 2.143 ug/l
RT: 10.735 min Scan# 1475
Delta R.T. -0.276 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

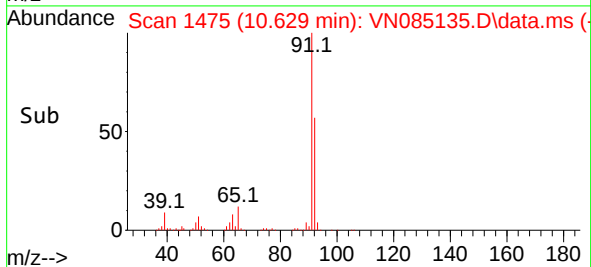
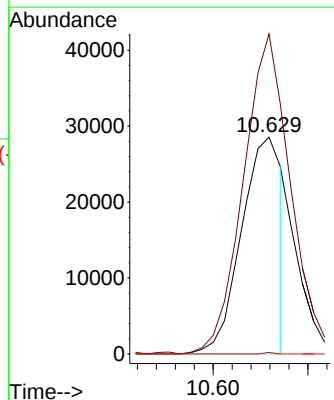
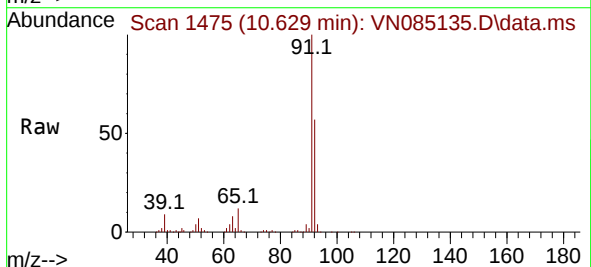
Instrument :
MSVOA_N
ClientSampleId :

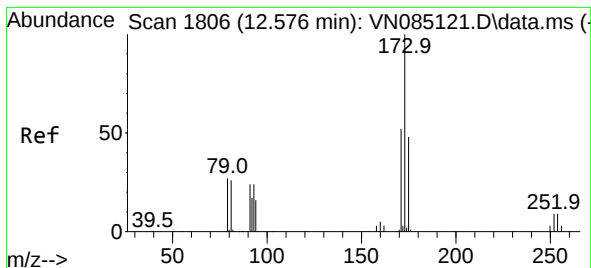
Tgt Ion: 97	Resp: 3316
Ion Ratio	Lower Upper
97 100	
83 0.0	65.8 98.8#
85 0.0	40.8 61.2#
99 0.0	44.0 66.0#



#55
2-Chloroethyl vinyl ether
Concen: 38.530 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.471 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 63	Resp: 42116
Ion Ratio	Lower Upper
63 100	
65 137.7	25.9 38.9#
106 0.0	23.5 35.3#





#56

Bromoform

Concen: 0.387 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min MSVOA_N

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

Instrument :

MSVOA_N

ClientSampleId :

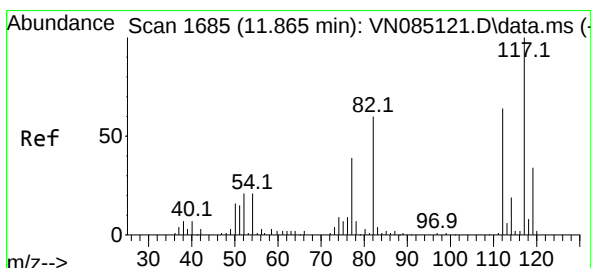
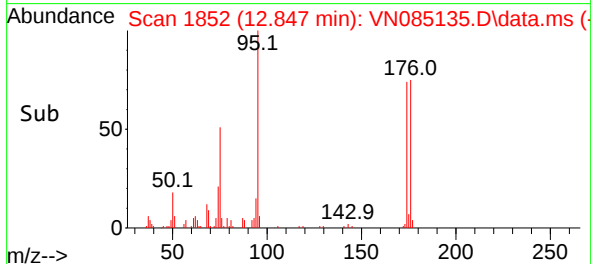
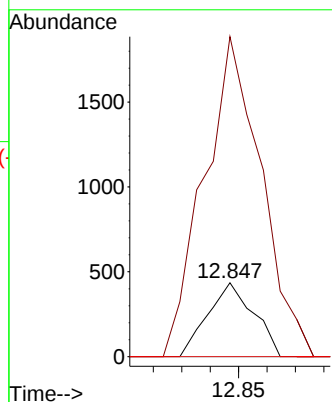
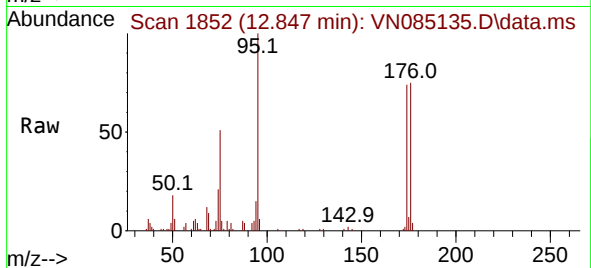
Tgt Ion:173 Resp: 489

Ion Ratio Lower Upper

173 100

175 539.5 40.2 60.2#

254 0.0 6.2 9.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

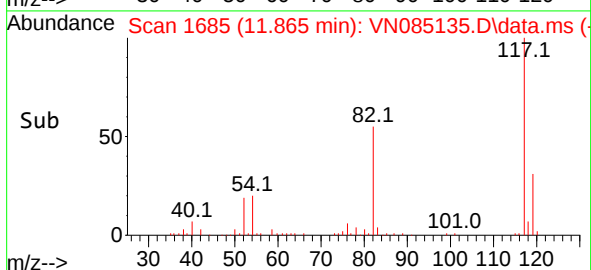
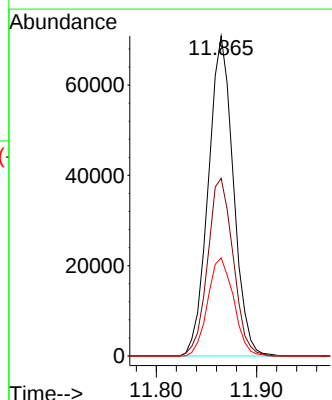
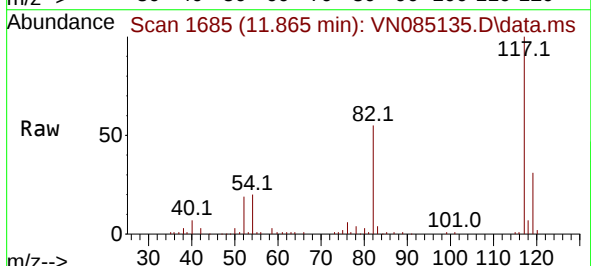
Tgt Ion:117 Resp: 123038

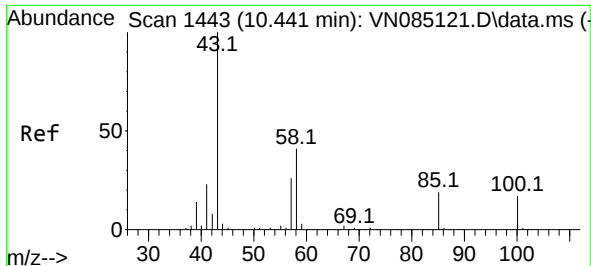
Ion Ratio Lower Upper

117 100

82 56.6 44.2 66.4

119 31.7 25.4 38.2

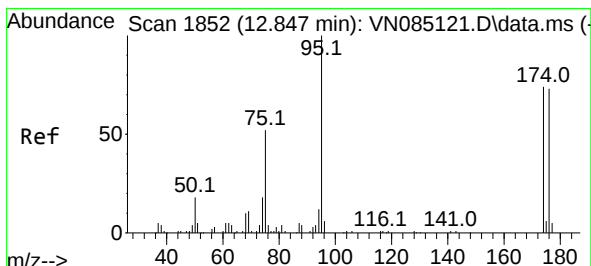
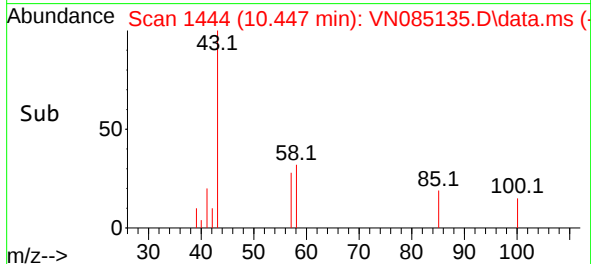
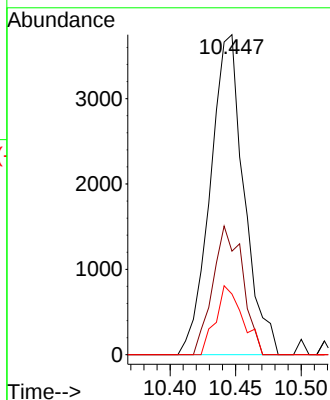
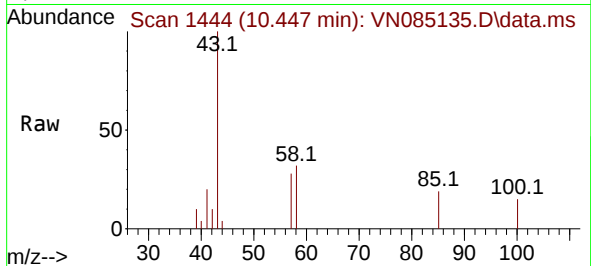




#58
4-Methyl-2-Pentanone
Concen: 3.344 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

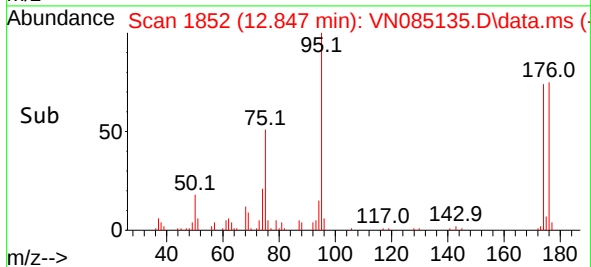
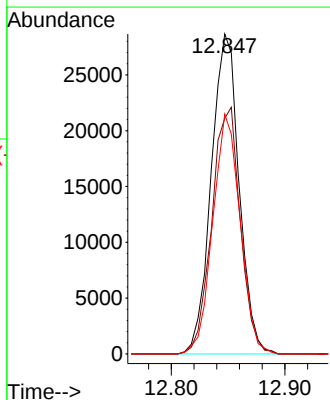
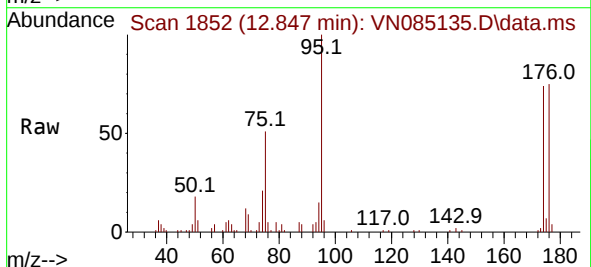
Instrument :
MSVOA_N
ClientSampleId :

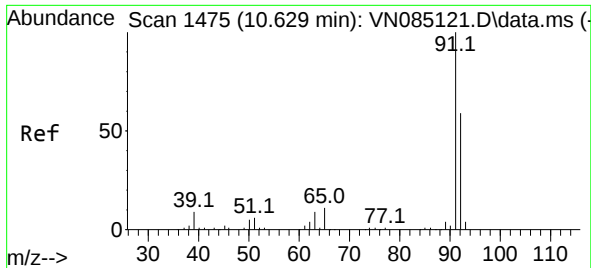
Tgt Ion:	43	Resp:	6715
Ion	Ratio	Lower	Upper
43	100		
58	35.6	31.6	47.4
85	17.2	15.0	22.6



#60
4-Bromofluorobenzene
Concen: 23.974 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion:	95	Resp:	48807
Ion	Ratio	Lower	Upper
95	100		
174	78.8	60.3	90.5
176	73.8	57.4	86.0

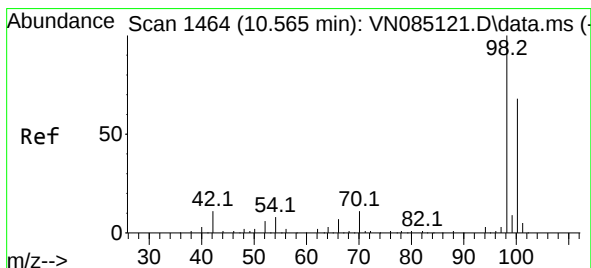
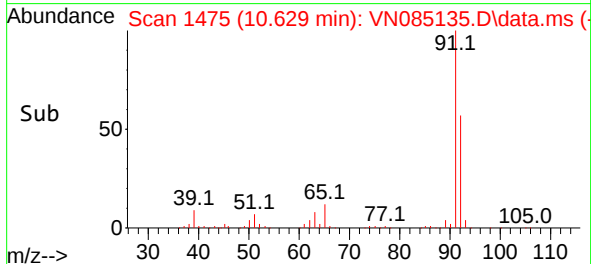
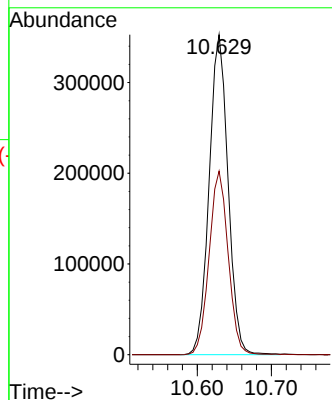
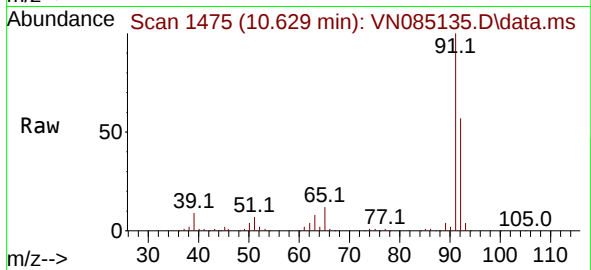




#62
Toluene
Concen: 87.058 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

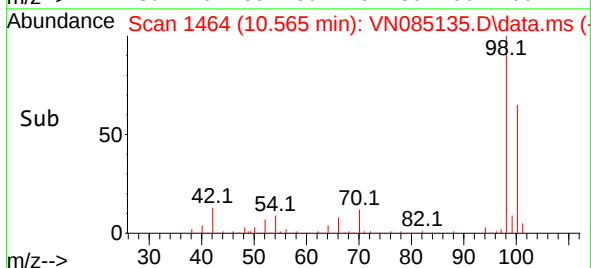
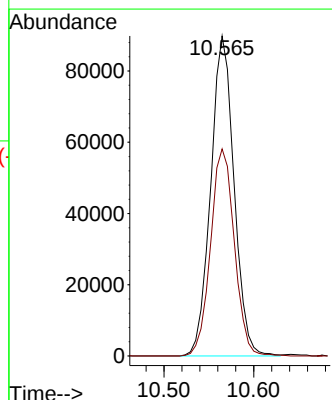
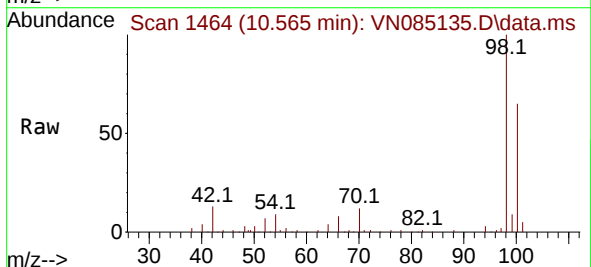
Instrument :
MSVOA_N
ClientSampleId :

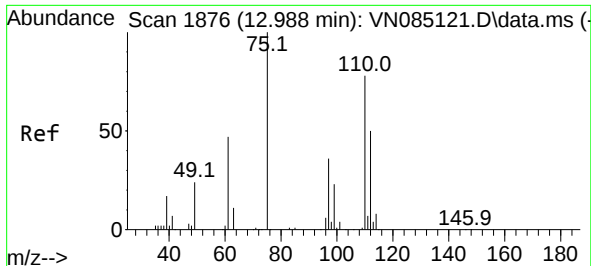
Tgt Ion: 91 Resp: 624689
Ion Ratio Lower Upper
91 100
92 57.7 46.5 69.7



#63
Toluene-d8
Concen: 28.136 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion: 98 Resp: 162389
Ion Ratio Lower Upper
98 100
100 65.9 52.0 78.0

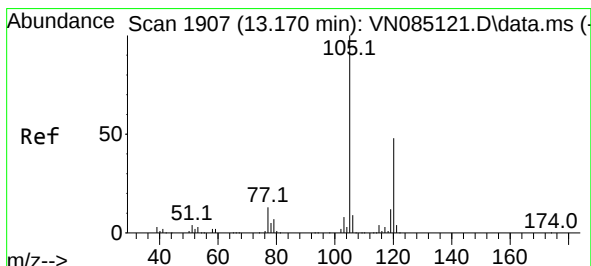
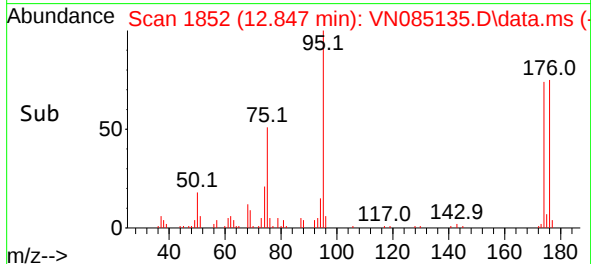
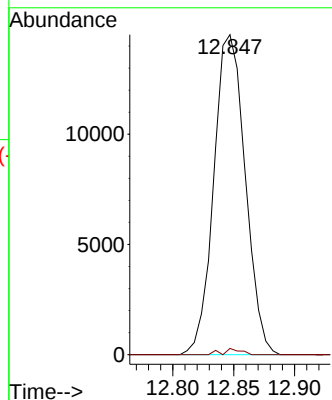
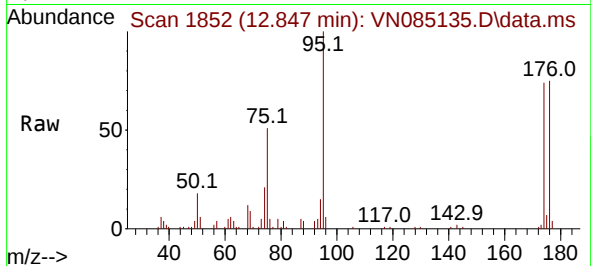




#72
1,2,3-Trichloropropane
Concen: 12.254 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.147 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

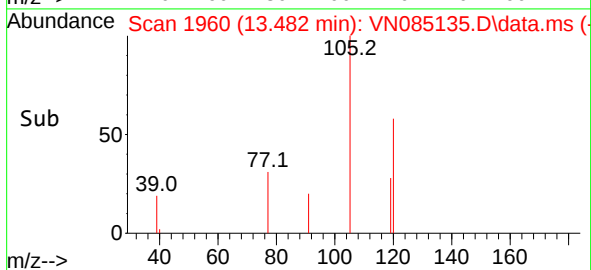
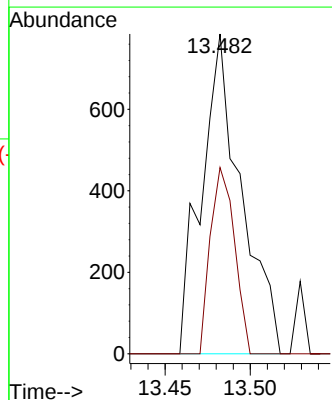
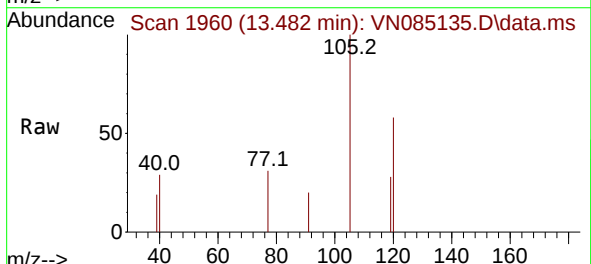
Instrument :
MSVOA_N
ClientSampleId :

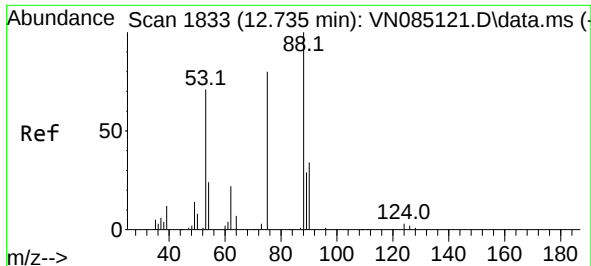
Tgt Ion: 75 Resp: 26137
Ion Ratio Lower Upper
75 100
77 0.8 0.0 339.0



#76
1,3,5-Trimethylbenzene
Concen: 0.210 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.312 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion:105 Resp: 1274
Ion Ratio Lower Upper
105 100
120 35.4 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 33.724 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

Instrument :

MSVOA_N

ClientSampleId :

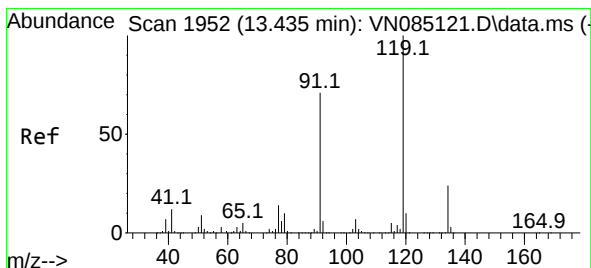
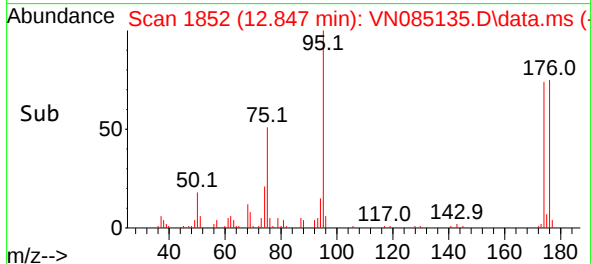
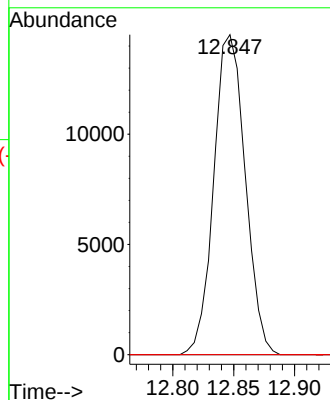
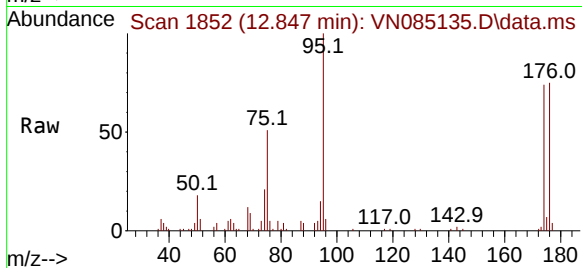
Tgt Ion: 75 Resp: 26137

Ion Ratio Lower Upper

75 100

53 0.0 49.1 147.3#

89 0.0 22.9 68.5#



#79

tert-butylbenzene

Concen: 2.128 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN085135.D

Acq: 06 Dec 2024 18:27

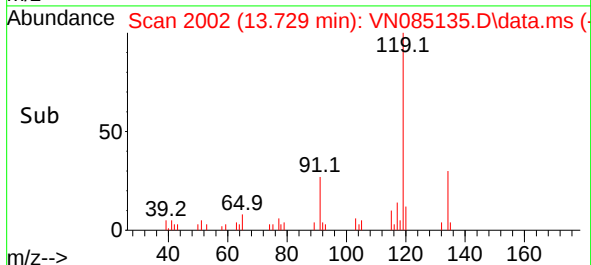
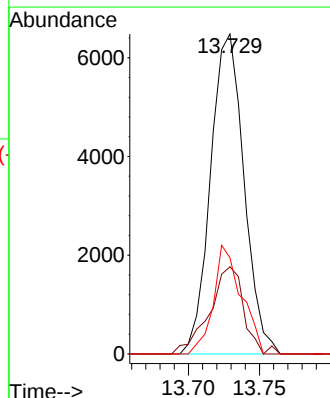
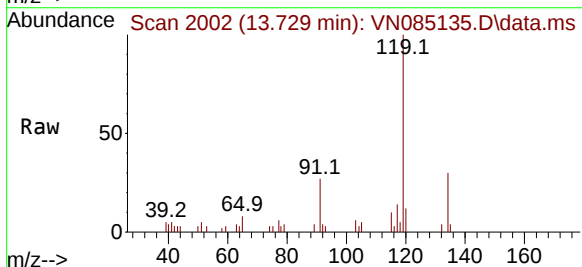
Tgt Ion: 119 Resp: 10622

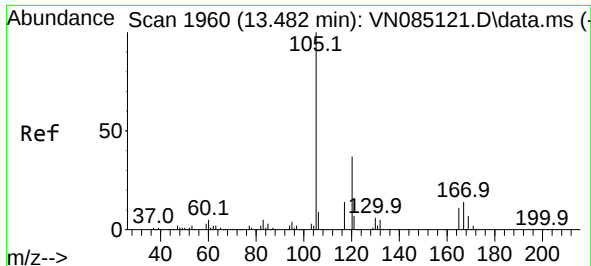
Ion Ratio Lower Upper

119 100

91 27.4 0.0 139.2

134 28.4 0.0 48.0

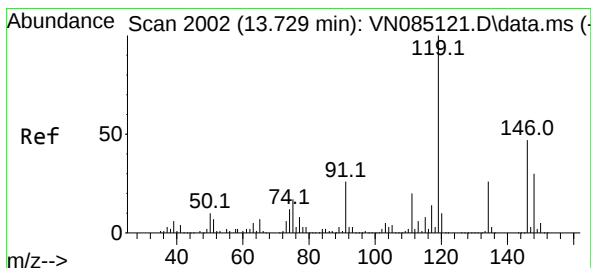
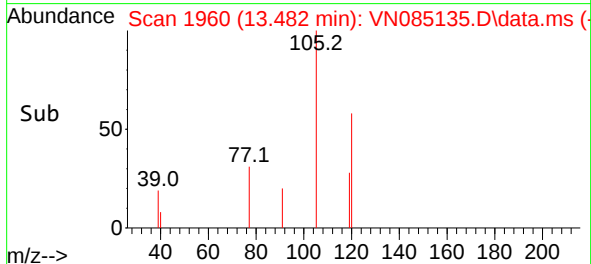
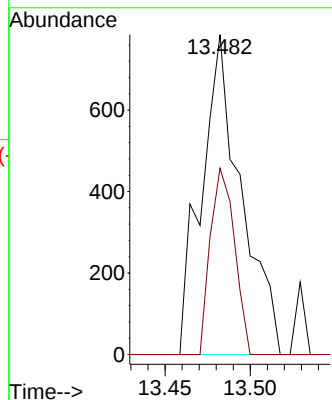
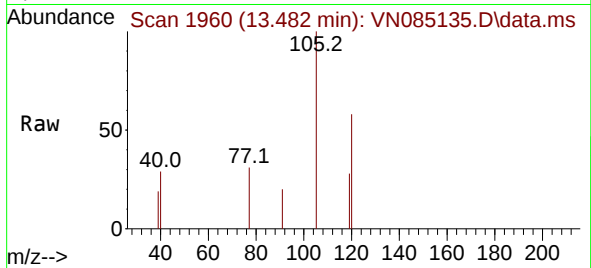




#80
1,2,4-Trimethylbenzene
Concen: 0.212 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:105 Resp: 1274
Ion Ratio Lower Upper
105 100
120 35.4 0.0 87.4



#82
p-Isopropyltoluene
Concen: 1.807 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085135.D
Acq: 06 Dec 2024 18:27

Tgt Ion:119 Resp: 10622
Ion Ratio Lower Upper
119 100
134 28.4 0.0 51.6
91 27.4 0.0 50.4

