

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031125\
 Data File : VN085943.D
 Acq On : 11 Mar 2025 19:53
 Operator : JC\MD
 Sample : PB167050ZHE#09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 12 01:28:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	154052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	303243	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	109296	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120572	60.370	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 120.740%	
35) Dibromofluoromethane	8.165	113	100435	50.615	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.240%	
50) Toluene-d8	10.565	98	360946	49.997	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.000%	
62) 4-Bromofluorobenzene	12.847	95	114025	47.937	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 95.880%	

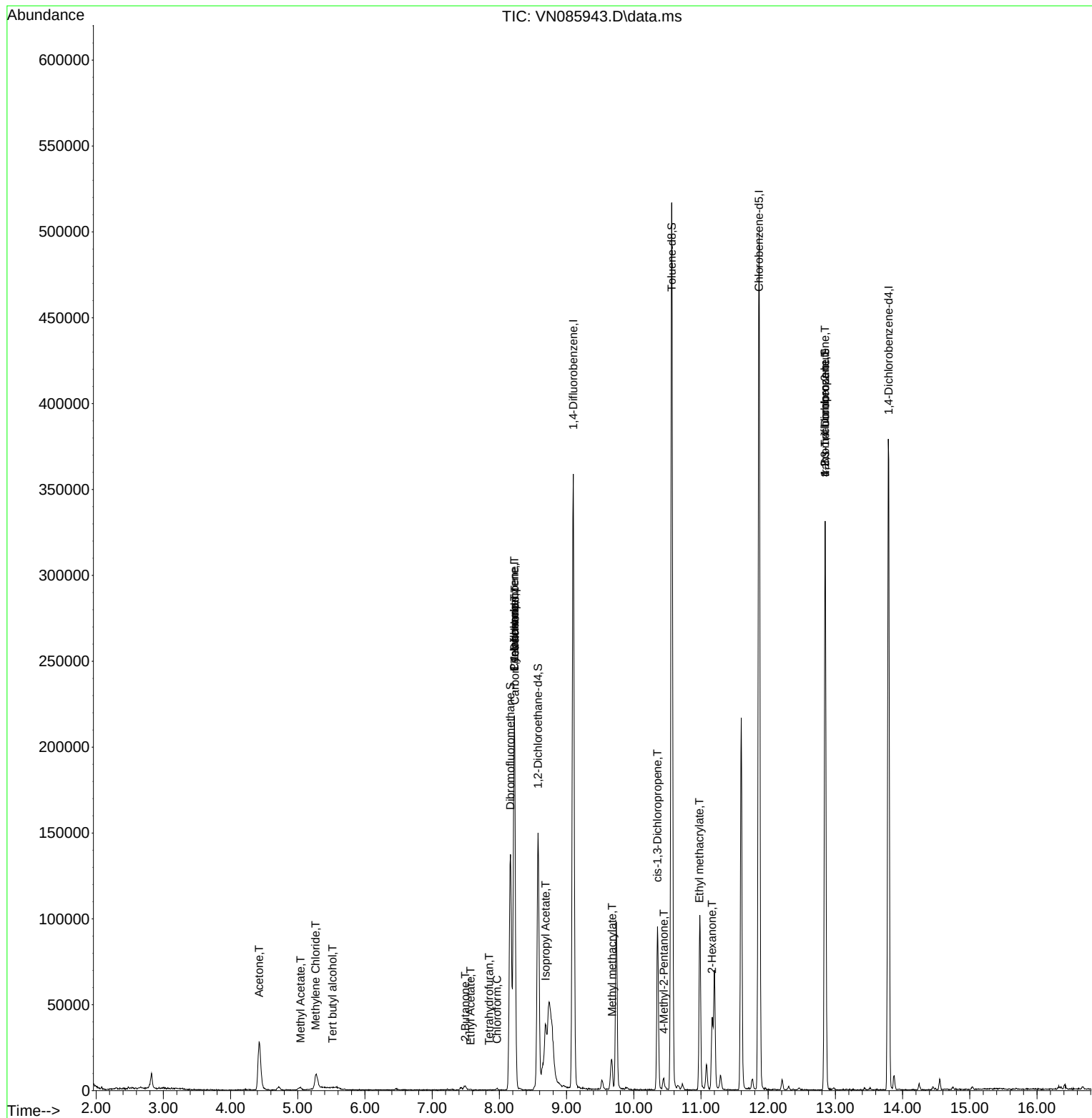
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.518	59	574	2.337	ug/l #	72
16) Acetone	4.424	43	53024	83.904	ug/l	98
18) Methyl Acetate	5.041	43	3499	1.610	ug/l #	88
20) Methylene Chloride	5.265	84	7208	3.547	ug/l	85
25) 2-Butanone	7.494	43	4575	4.921	ug/l #	83
29) Tetrahydrofuran	7.847	42	150	0.250	ug/l #	29
30) Chloroform	7.965	83	797	0.224	ug/l	93
31) Cyclohexane	8.224	56	3230	1.132	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13435	4.784	ug/l #	50
37) Ethyl Acetate	7.571	43	600	0.260	ug/l #	66
38) Carbon Tetrachloride	8.230	117	16840	5.047	ug/l #	17
43) Isopropyl Acetate	8.688	43	50541	12.047	ug/l #	75
48) Methyl methacrylate	9.676	41	1173	0.683	ug/l #	29
51) 4-Methyl-2-Pentanone	10.447	43	6068	2.723	ug/l #	75
54) cis-1,3-Dichloropropene	10.353	75	16525	4.971	ug/l #	67
56) Ethyl methacrylate	10.976	69	854	0.776	ug/l #	1
59) 2-Hexanone	11.165	43	41105	26.816	ug/l #	21
76) 1,2,3-Trichloropropane	12.847	75	58957	24.284	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	58957	70.854	ug/l #	13

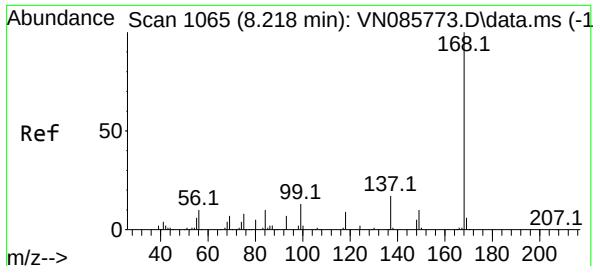
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 19 03:43:32 2025
Response via : Initial Calibration

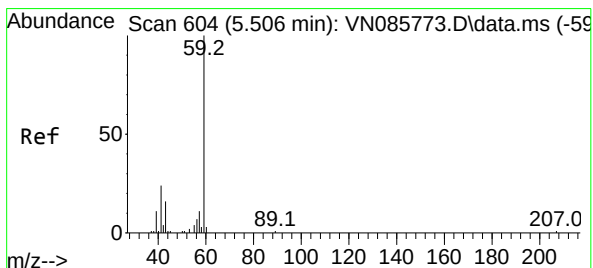
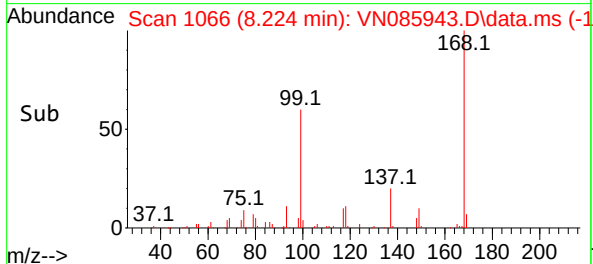
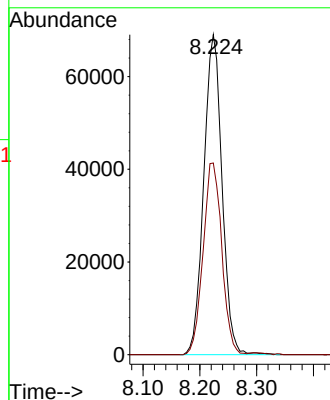
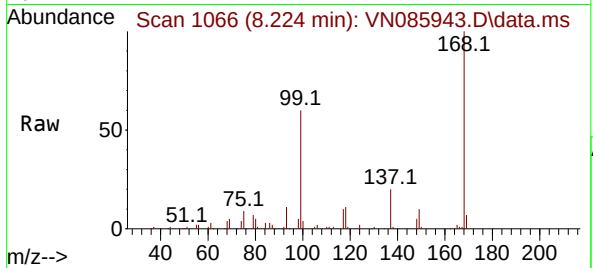




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

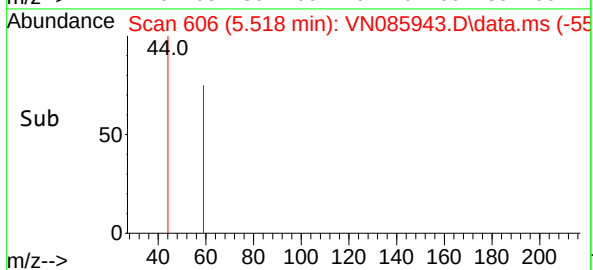
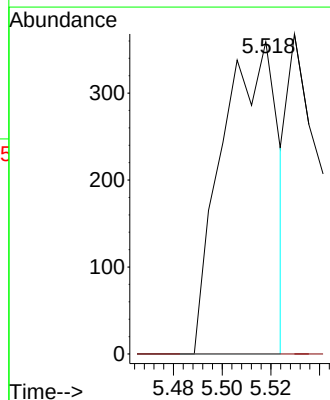
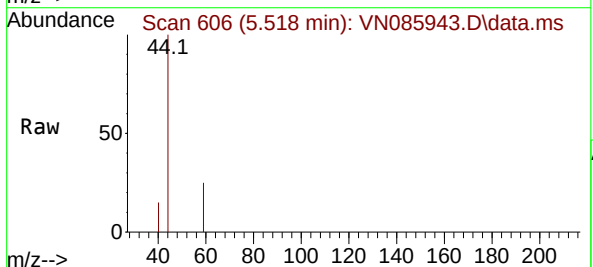
Instrument :
MSVOA_N
ClientSampleId :

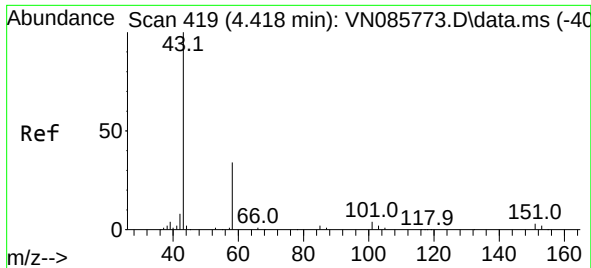
Tgt Ion:168 Resp: 154052
Ion Ratio Lower Upper
168 100
99 59.9 47.9 71.9



#11
Tert butyl alcohol
Concen: 2.337 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.012 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion: 59 Resp: 574
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

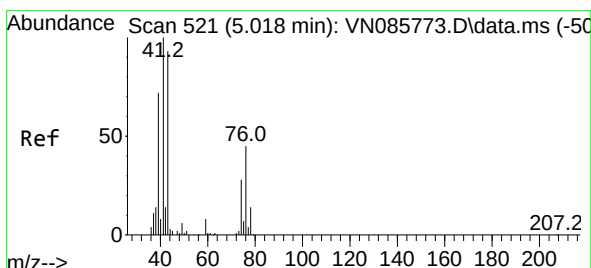
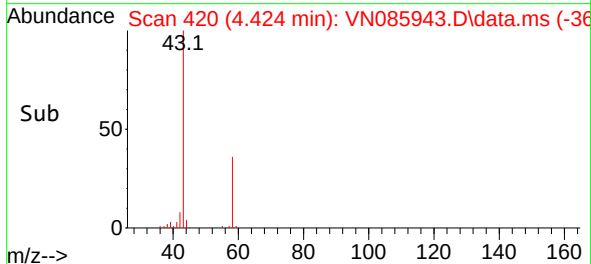
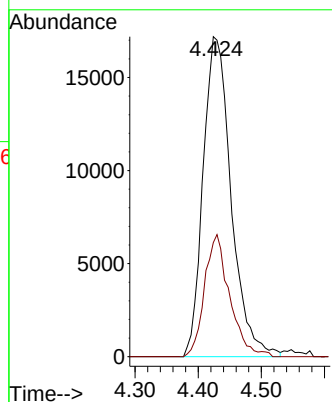
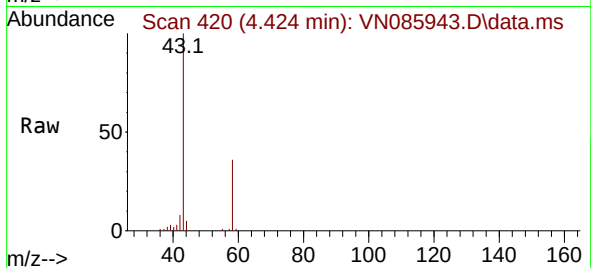




#16
Acetone
Concen: 83.904 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

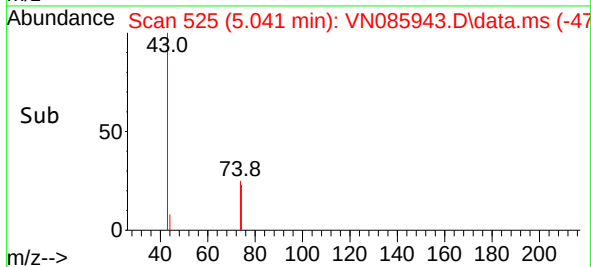
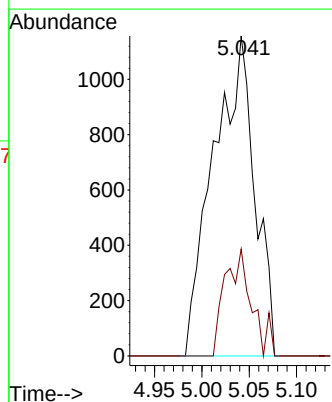
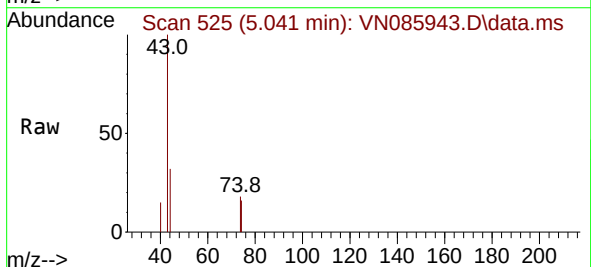
Instrument :
MSVOA_N
ClientSampleId :

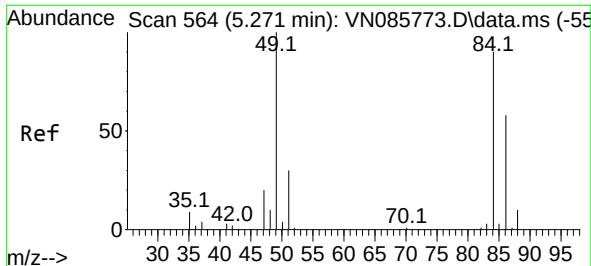
Tgt Ion: 43 Resp: 53024
Ion Ratio Lower Upper
43 100
58 35.6 27.5 41.3



#18
Methyl Acetate
Concen: 1.610 ug/l
RT: 5.041 min Scan# 525
Delta R.T. 0.023 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

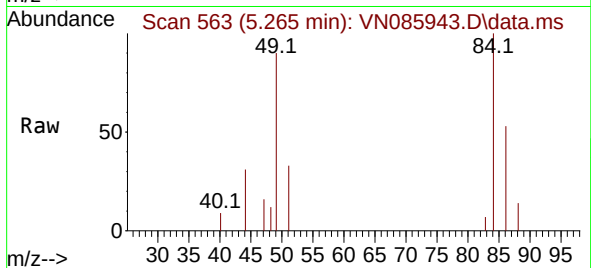
Tgt Ion: 43 Resp: 3499
Ion Ratio Lower Upper
43 100
74 21.6 22.2 33.4#



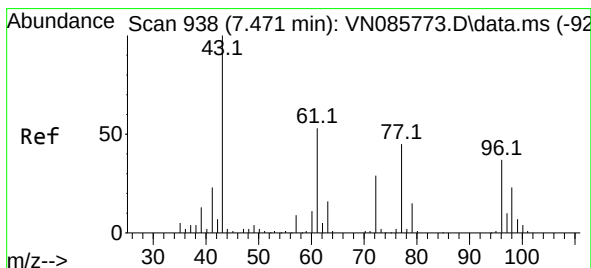
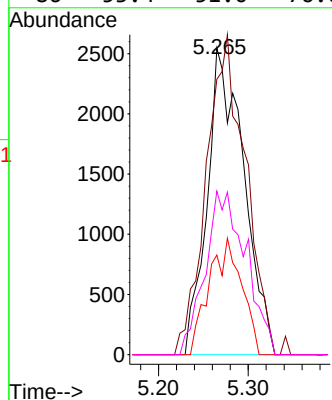


#20
Methylene Chloride
Concen: 3.547 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Instrument :
MSVOA_N
ClientSampleId :

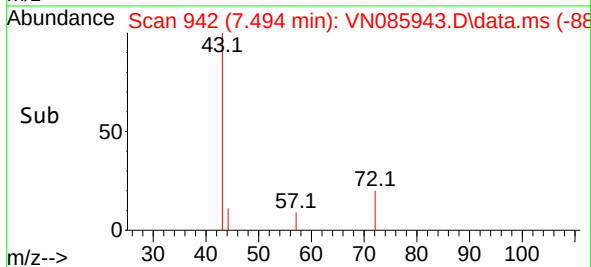
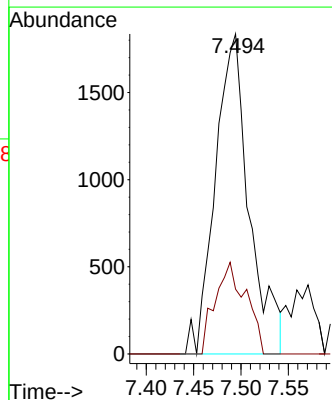
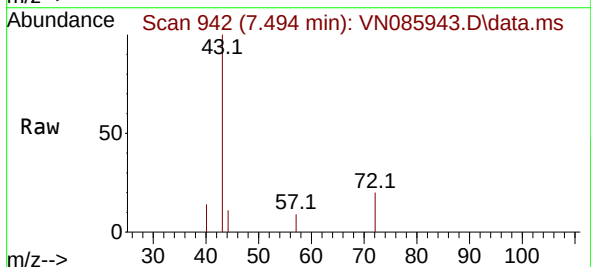


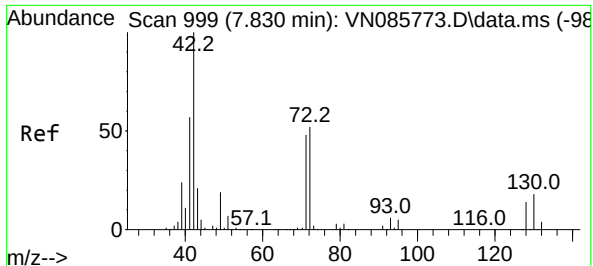
Tgt Ion:	84	Resp:	7208
Ion	Ratio	Lower	Upper
84	100		
49	89.9	88.4	132.6
51	32.5	26.6	40.0
86	53.4	51.0	76.6



#25
2-Butanone
Concen: 4.921 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.023 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion:	43	Resp:	4575
Ion	Ratio	Lower	Upper
43	100		
72	20.3	23.6	35.4#





#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.018 min

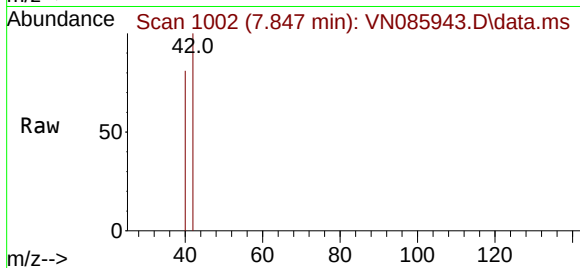
Lab File: VN085943.D

Acq: 11 Mar 2025 19:53

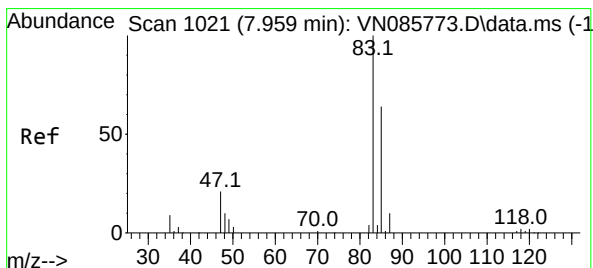
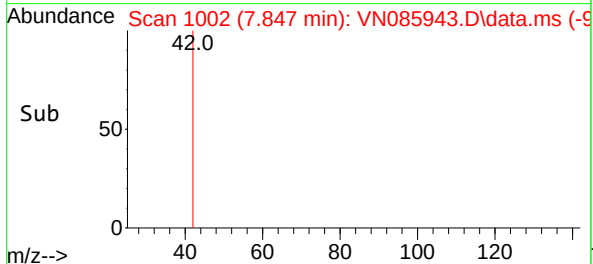
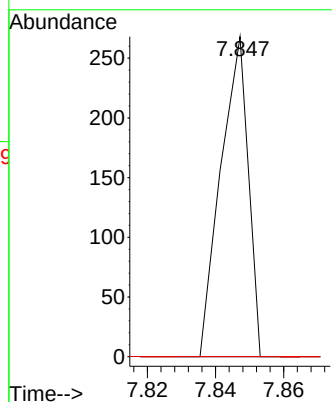
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	150
Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.0	60.0#
71	0.0	37.0	55.4#



#30

Chloroform

Concen: 0.224 ug/l

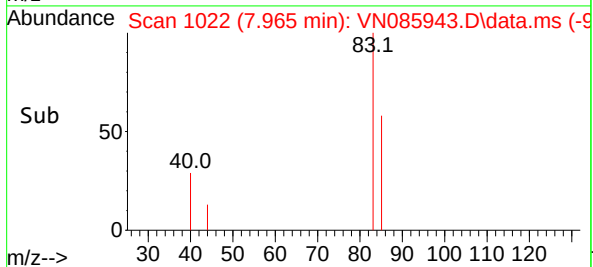
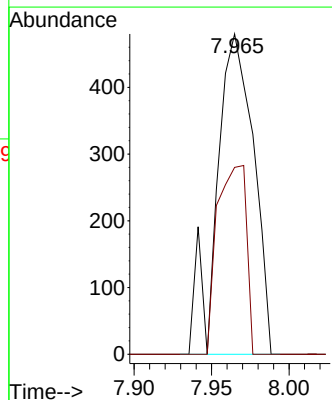
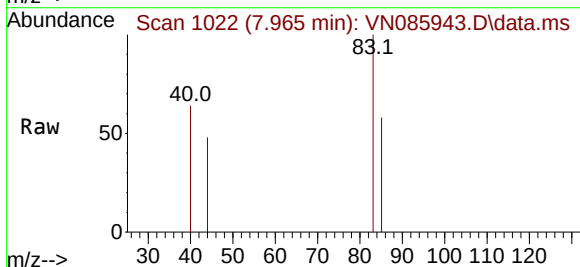
RT: 7.965 min Scan# 1022

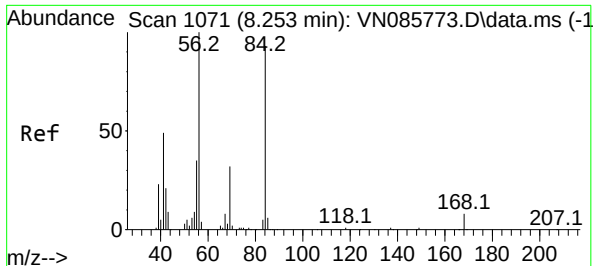
Delta R.T. 0.006 min

Lab File: VN085943.D

Acq: 11 Mar 2025 19:53

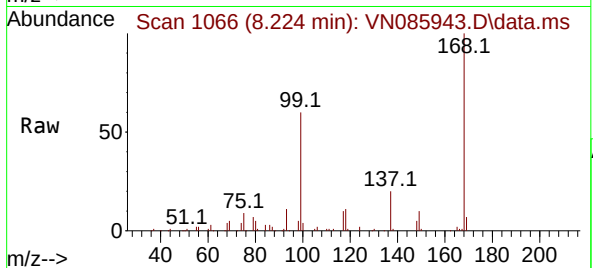
Tgt Ion:	83	Resp:	797
Ion	Ratio	Lower	Upper
83	100		
85	58.3	50.9	76.3



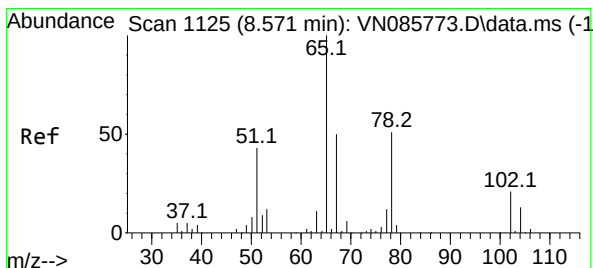
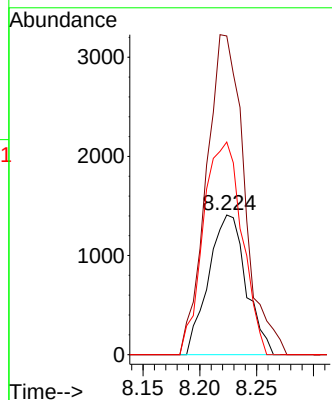
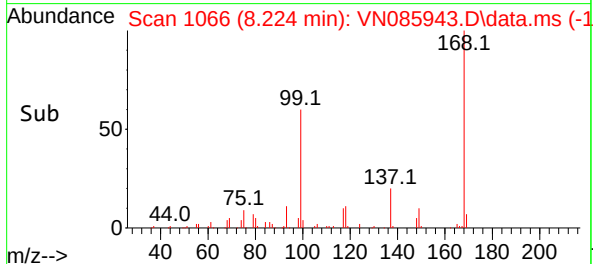


#31
Cyclohexane
Concen: 1.132 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.029 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Instrument :
MSVOA_N
ClientSampleId :

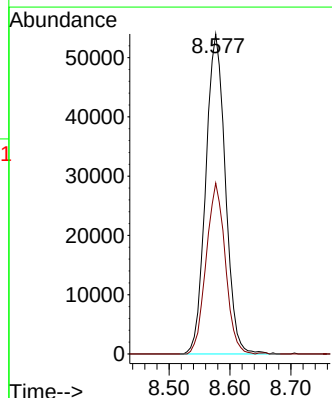
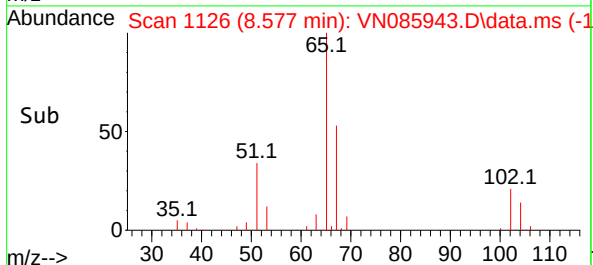
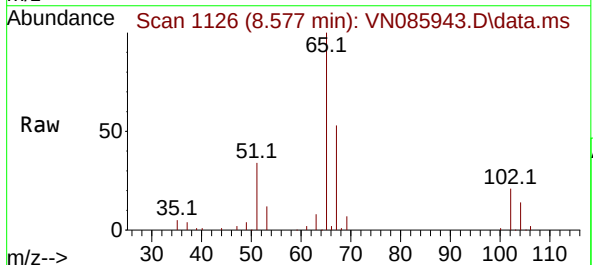


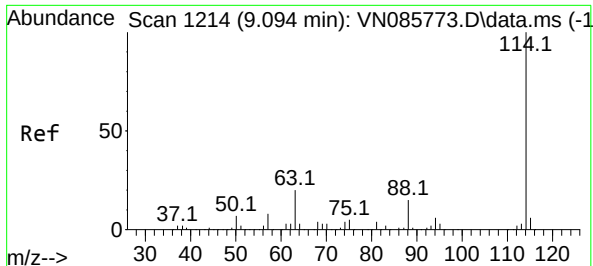
Tgt Ion: 56 Resp: 3230
Ion Ratio Lower Upper
56 100
69 228.2 25.8 38.6#
84 152.2 74.5 111.7#



#33
1,2-Dichloroethane-d4
Concen: 60.370 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion: 65 Resp: 120572
Ion Ratio Lower Upper
65 100
67 52.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085943.D

Acq: 11 Mar 2025 19:53

Instrument :

MSVOA_N

ClientSampleId :

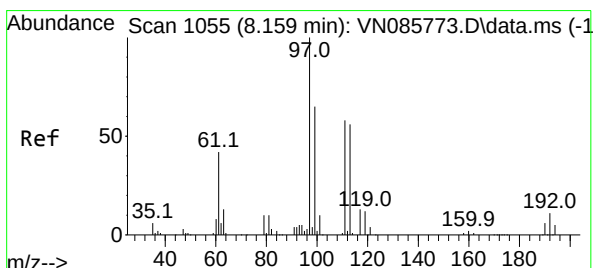
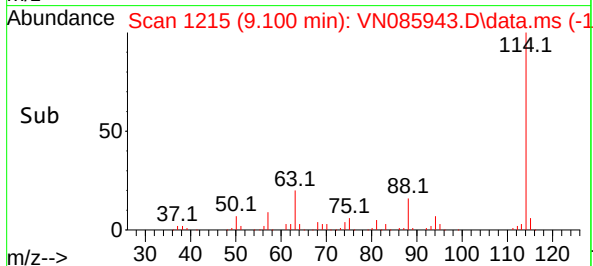
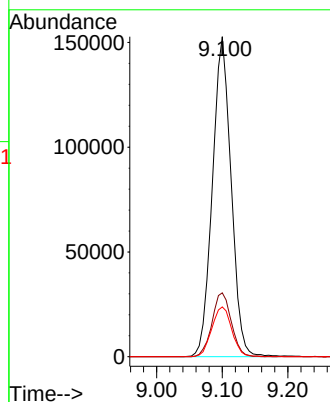
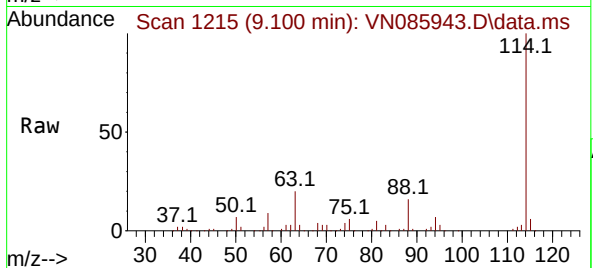
Tgt Ion:114 Resp: 303243

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.2

88 15.6 0.0 30.0



#35

Dibromofluoromethane

Concen: 50.615 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085943.D

Acq: 11 Mar 2025 19:53

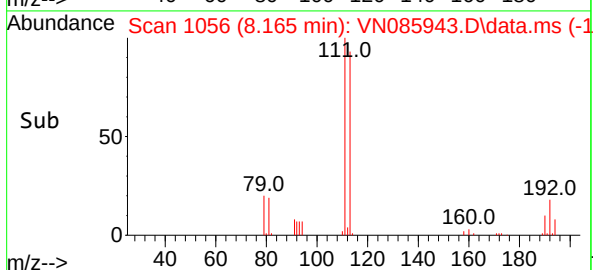
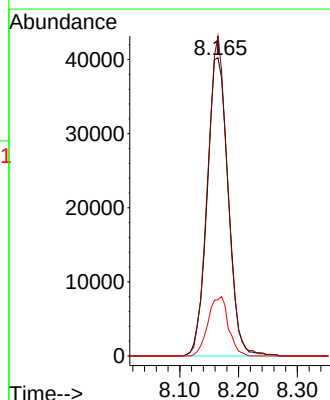
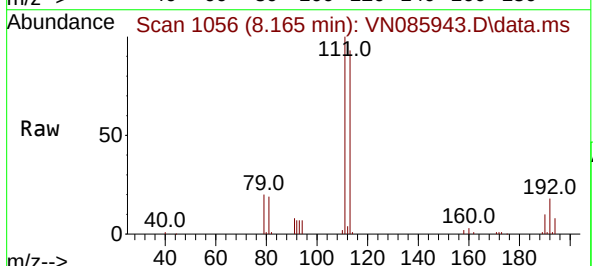
Tgt Ion:113 Resp: 100435

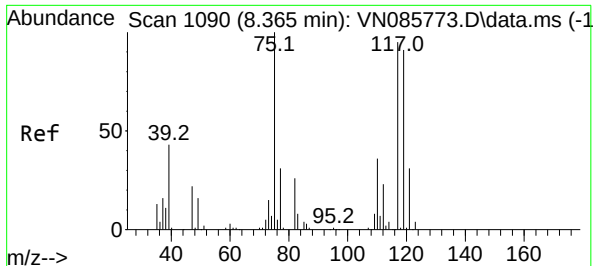
Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.4

192 19.2 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.784 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085943.D

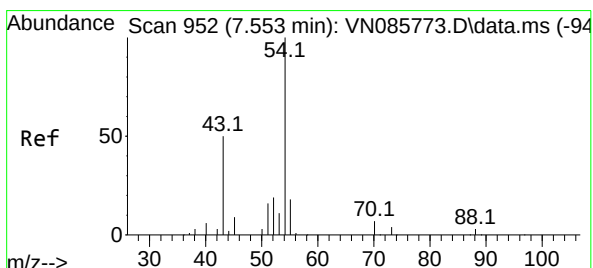
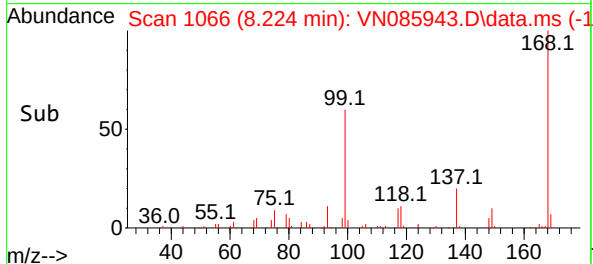
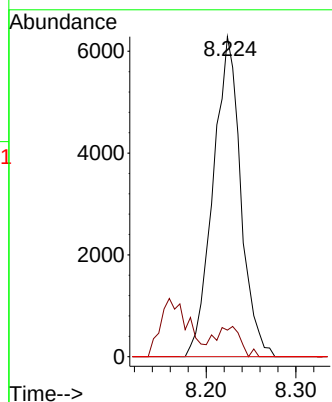
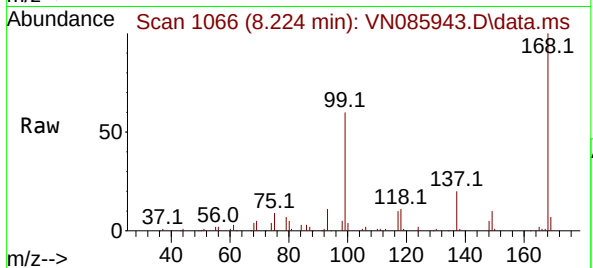
Acq: 11 Mar 2025 19:53

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	13435
Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.3	52.0#
77	0.0	24.6	37.0#



#37

Ethyl Acetate

Concen: 0.260 ug/l

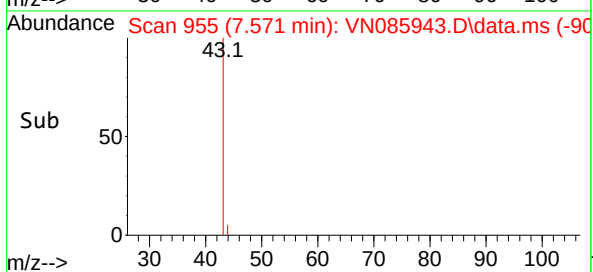
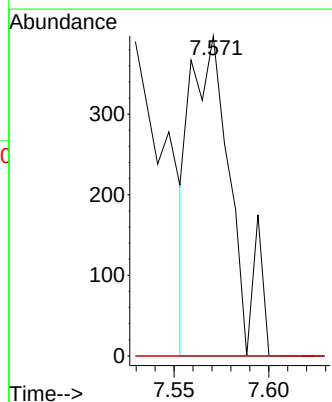
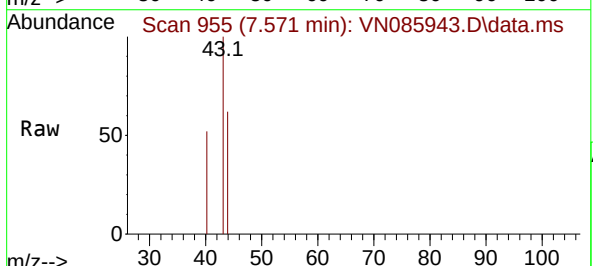
RT: 7.571 min Scan# 955

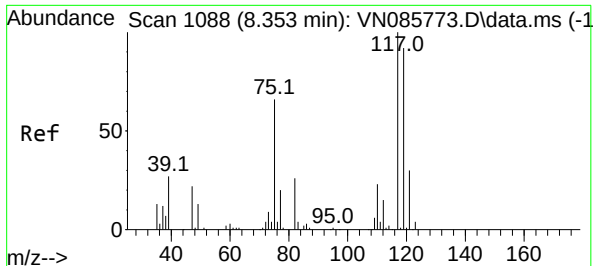
Delta R.T. 0.018 min

Lab File: VN085943.D

Acq: 11 Mar 2025 19:53

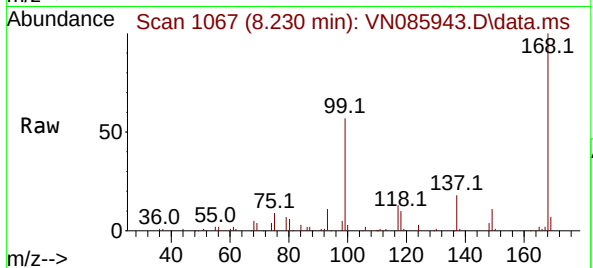
Tgt Ion:	43	Resp:	600
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.2	18.2#
70	0.0	9.5	14.3#



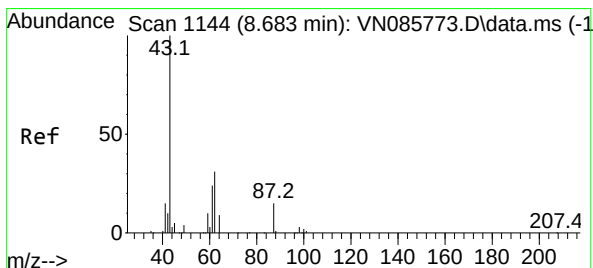
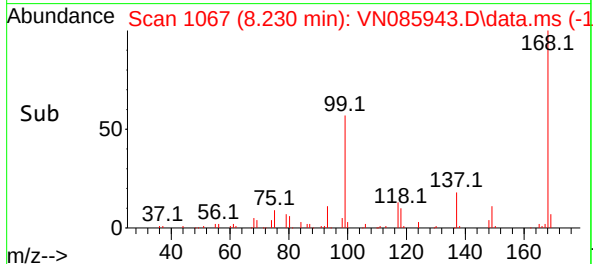
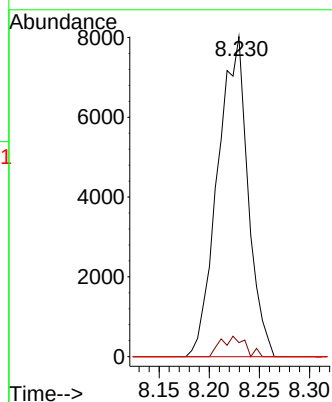


#38
Carbon Tetrachloride
Concen: 5.047 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.124 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Instrument :
MSVOA_N
ClientSampleId :

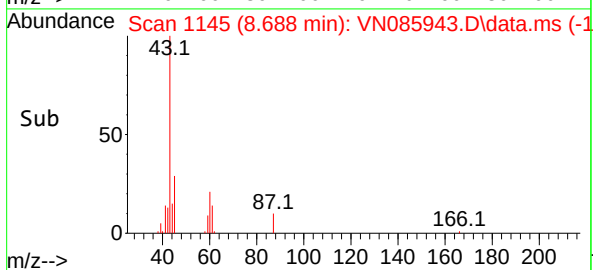
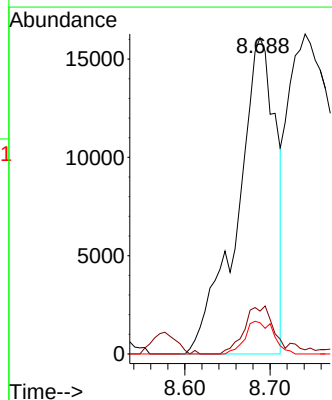
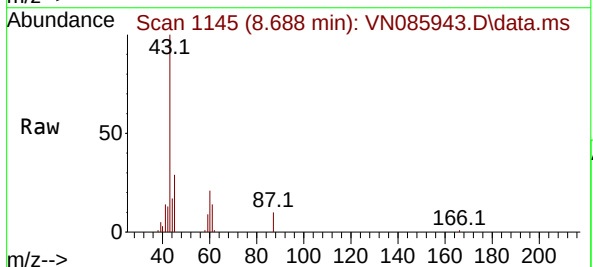


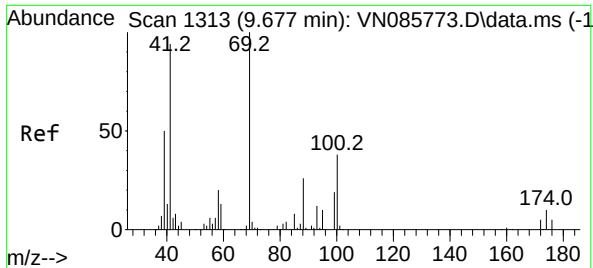
Tgt Ion:117 Resp: 16840
Ion Ratio Lower Upper
117 100
119 4.4 73.8 110.6#
121 0.0 24.3 36.5#



#43
Isopropyl Acetate
Concen: 12.047 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion: 43 Resp: 50541
Ion Ratio Lower Upper
43 100
61 12.9 22.6 34.0#
87 7.6 11.8 17.8#

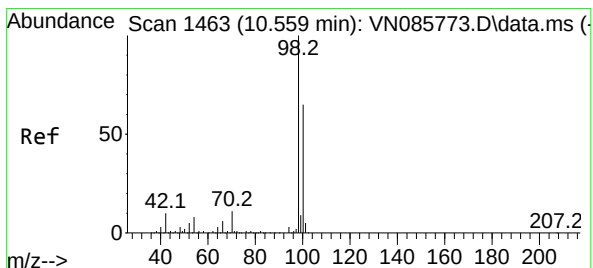
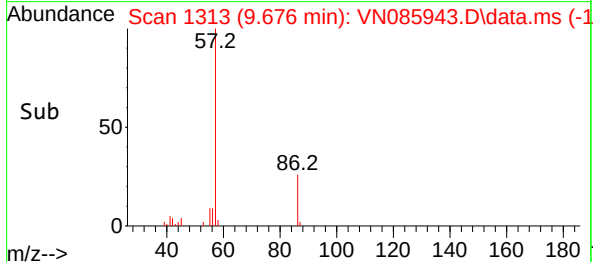
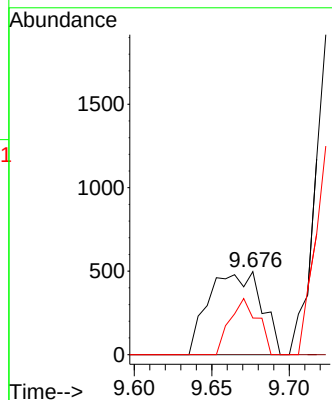
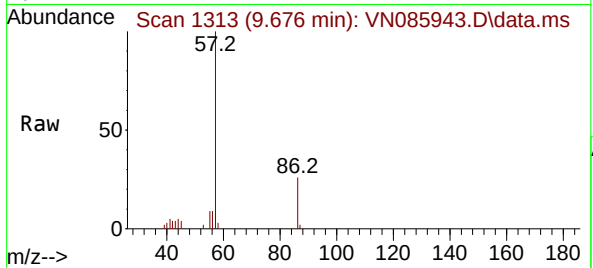




#48
Methyl methacrylate
Concen: 0.683 ug/l
RT: 9.676 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

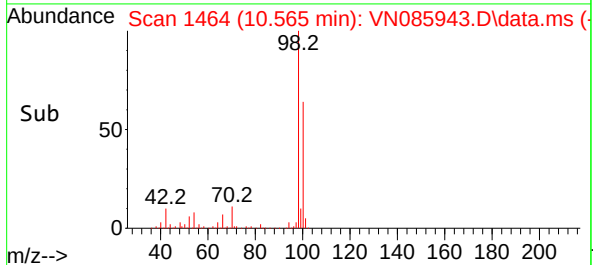
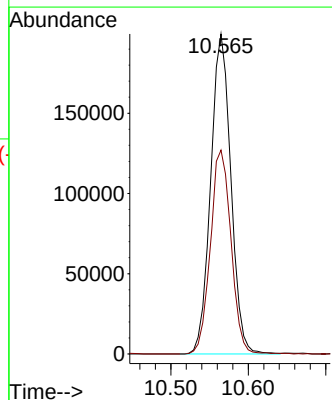
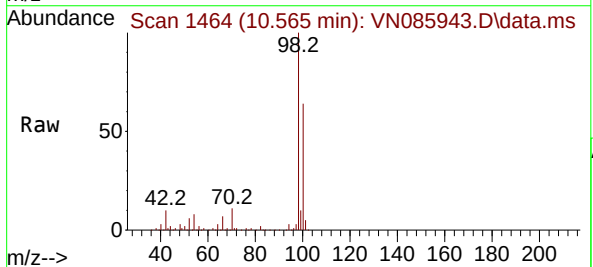
Instrument :
MSVOA_N
ClientSampleId :

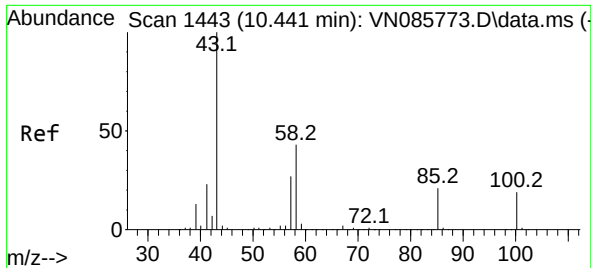
Tgt Ion: 41 Resp: 1173
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 35.8 42.3 63.5#



#50
Toluene-d8
Concen: 49.997 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion: 98 Resp: 360946
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1

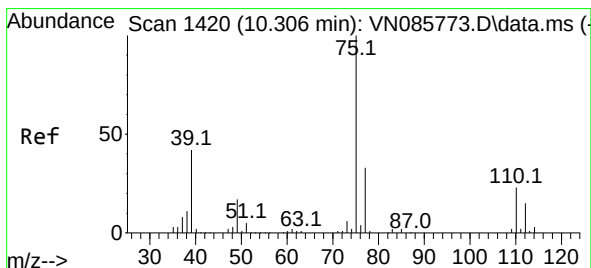
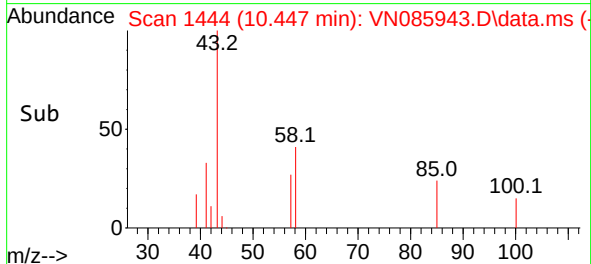
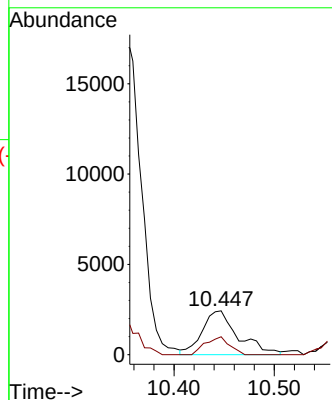
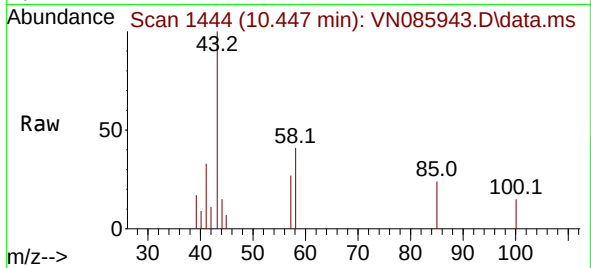




#51
4-Methyl-2-Pentanone
Concen: 2.723 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

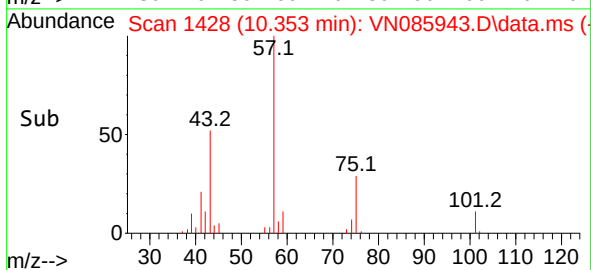
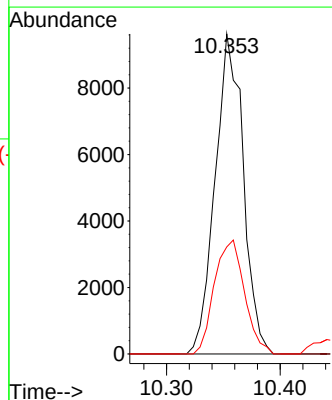
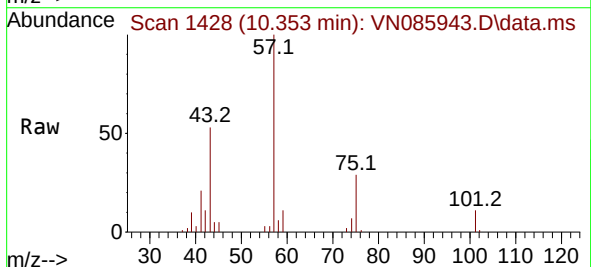
Instrument :
MSVOA_N
ClientSampleId :

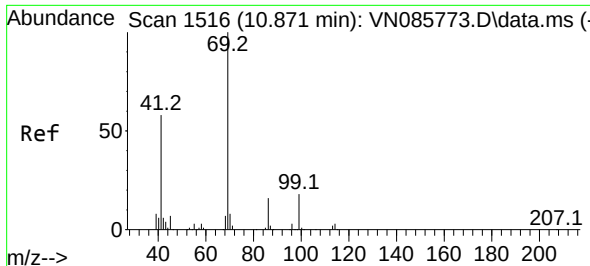
Tgt Ion: 43 Resp: 6068
Ion Ratio Lower Upper
43 100
58 27.1 34.6 52.0#



#54
cis-1,3-Dichloropropene
Concen: 4.971 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

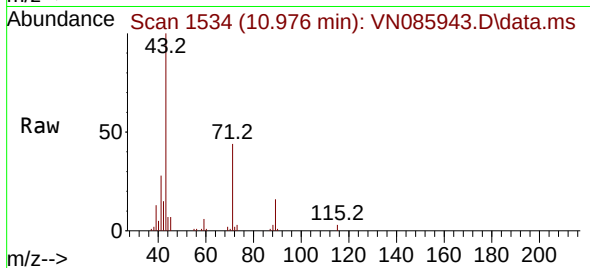
Tgt Ion: 75 Resp: 16525
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 33.5 33.4 50.0



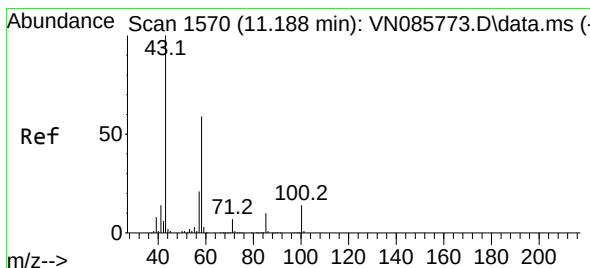
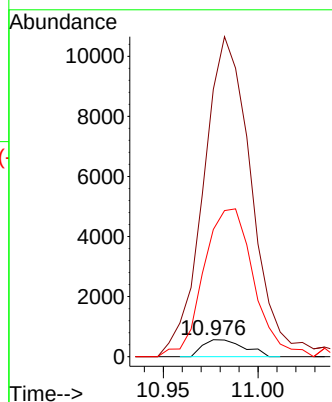
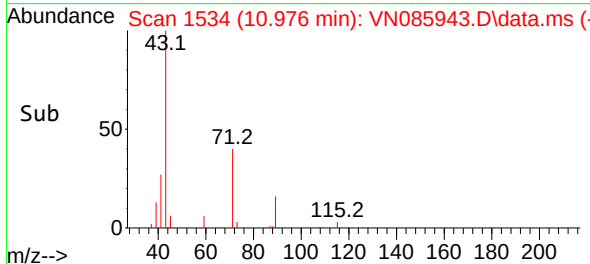


#56
Ethyl methacrylate
Concen: 0.776 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.105 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Instrument :
MSVOA_N
ClientSampleId :

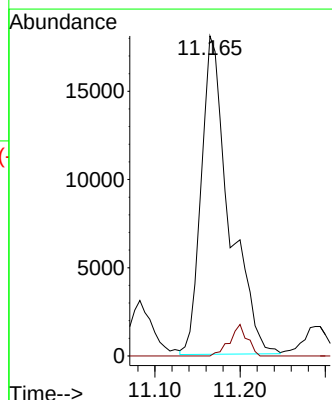
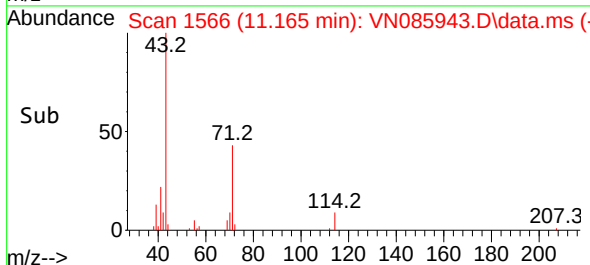
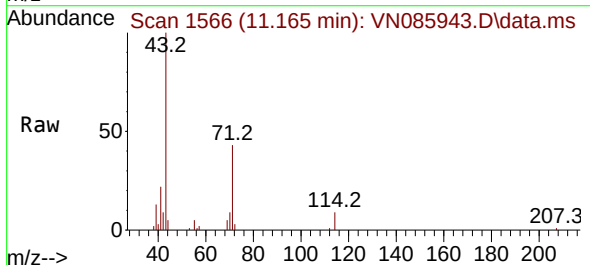


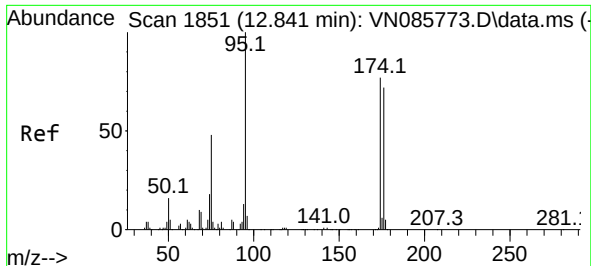
Tgt Ion: 69 Resp: 854
Ion Ratio Lower Upper
69 100
41 2224.5 46.0 69.0#
39 1061.2 22.0 33.0#



#59
2-Hexanone
Concen: 26.816 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.023 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

Tgt Ion: 43 Resp: 41105
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.5#

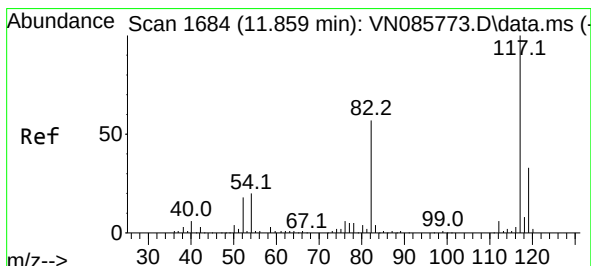
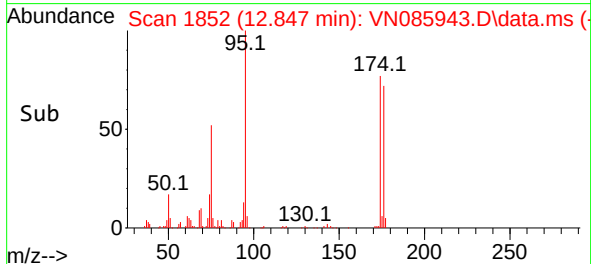
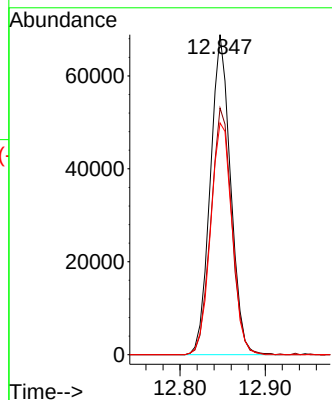
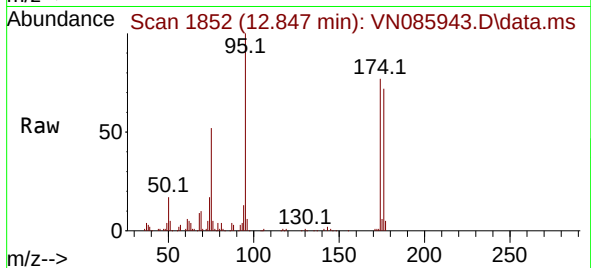




#62
4-Bromofluorobenzene
Concen: 47.937 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

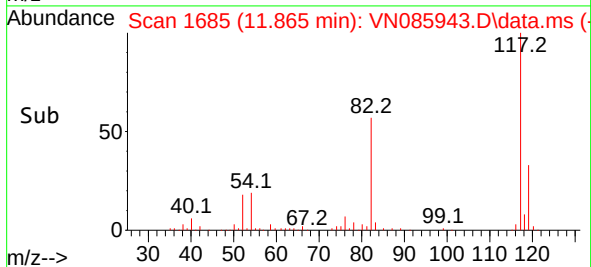
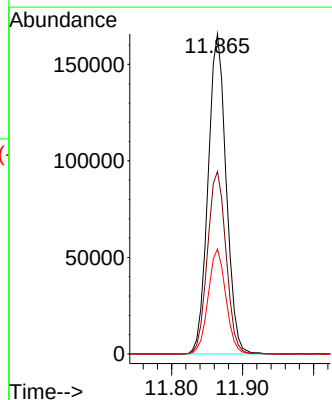
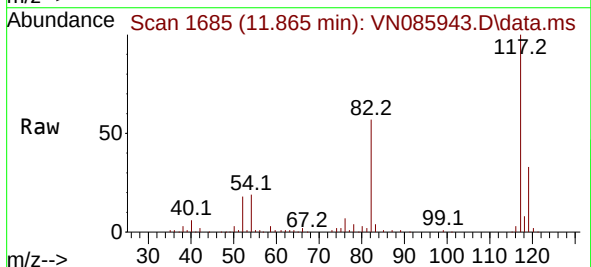
Instrument :
MSVOA_N
ClientSampleId :

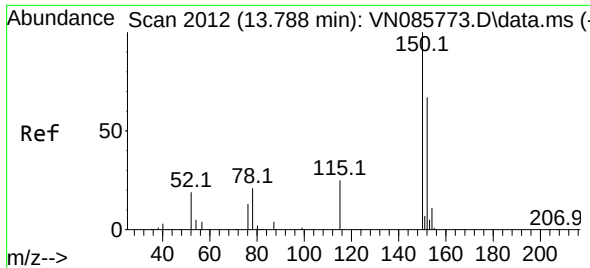
Tgt Ion: 95 Resp: 114025
Ion Ratio Lower Upper
95 100
174 79.5 0.0 152.4
176 76.8 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085943.D
Acq: 11 Mar 2025 19:53

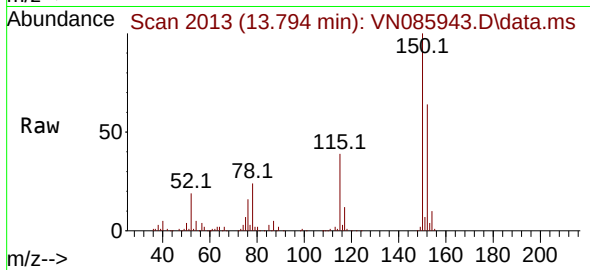
Tgt Ion: 117 Resp: 293637
Ion Ratio Lower Upper
117 100
82 57.0 45.7 68.5
119 32.8 26.2 39.2



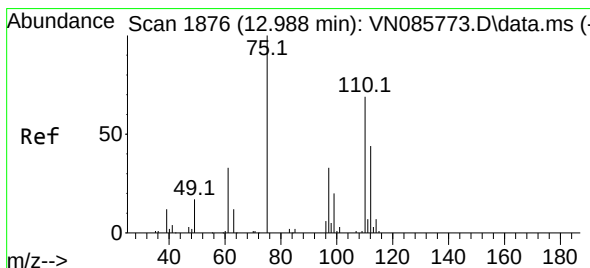
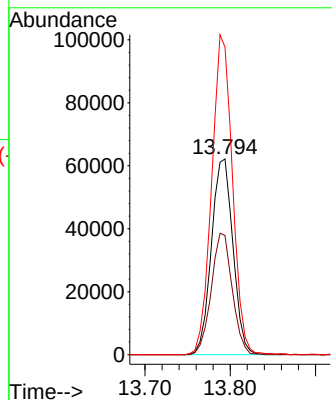
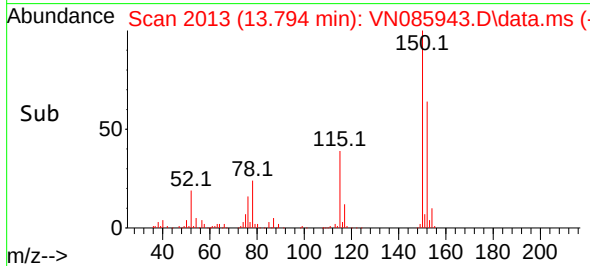


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN085943.D
 Acq: 11 Mar 2025 19:53

Instrument :
 MSVOA_N
 ClientSampleId :

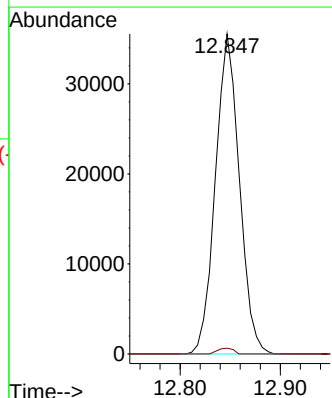
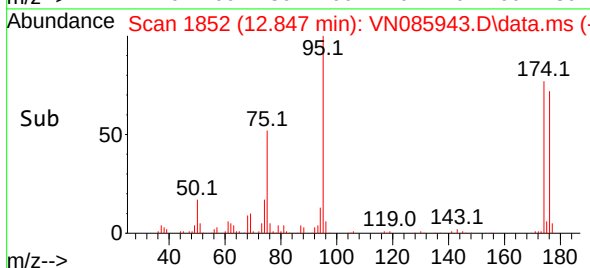
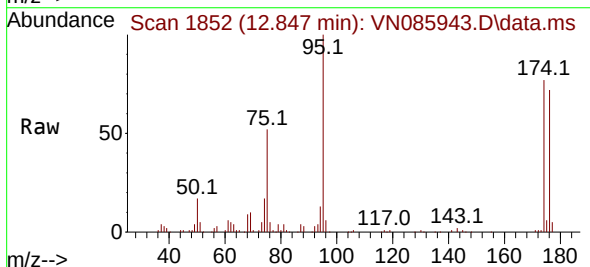


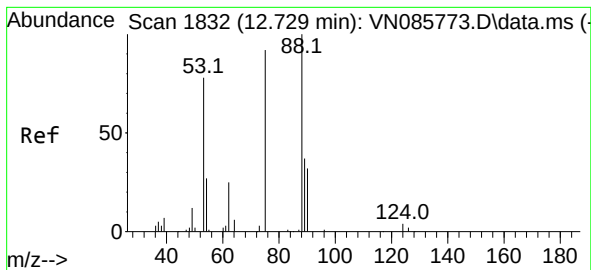
Tgt Ion:152 Resp: 109296
 Ion Ratio Lower Upper
 152 100
 115 60.3 30.4 91.3
 150 157.4 0.0 345.4



#76
 1,2,3-Trichloropropane
 Concen: 24.284 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN085943.D
 Acq: 11 Mar 2025 19:53

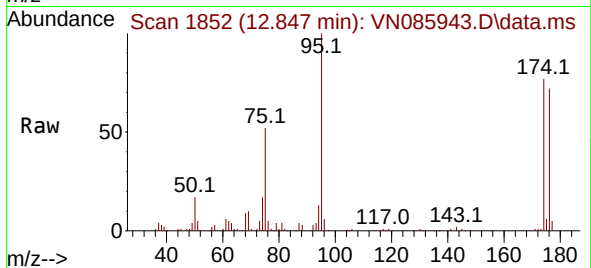
Tgt Ion: 75 Resp: 58957
 Ion Ratio Lower Upper
 75 100
 77 1.2 100.0 300.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.854 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.118 min
 Lab File: VN085943.D
 Acq: 11 Mar 2025 19:53

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 58957
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.2 111.4#
 89 0.0 34.9 52.3#

