

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010725\
 Data File : VN085397.D
 Acq On : 07 Jan 2025 13:52
 Operator : JC\MD
 Sample : Q1013-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 08 04:18:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

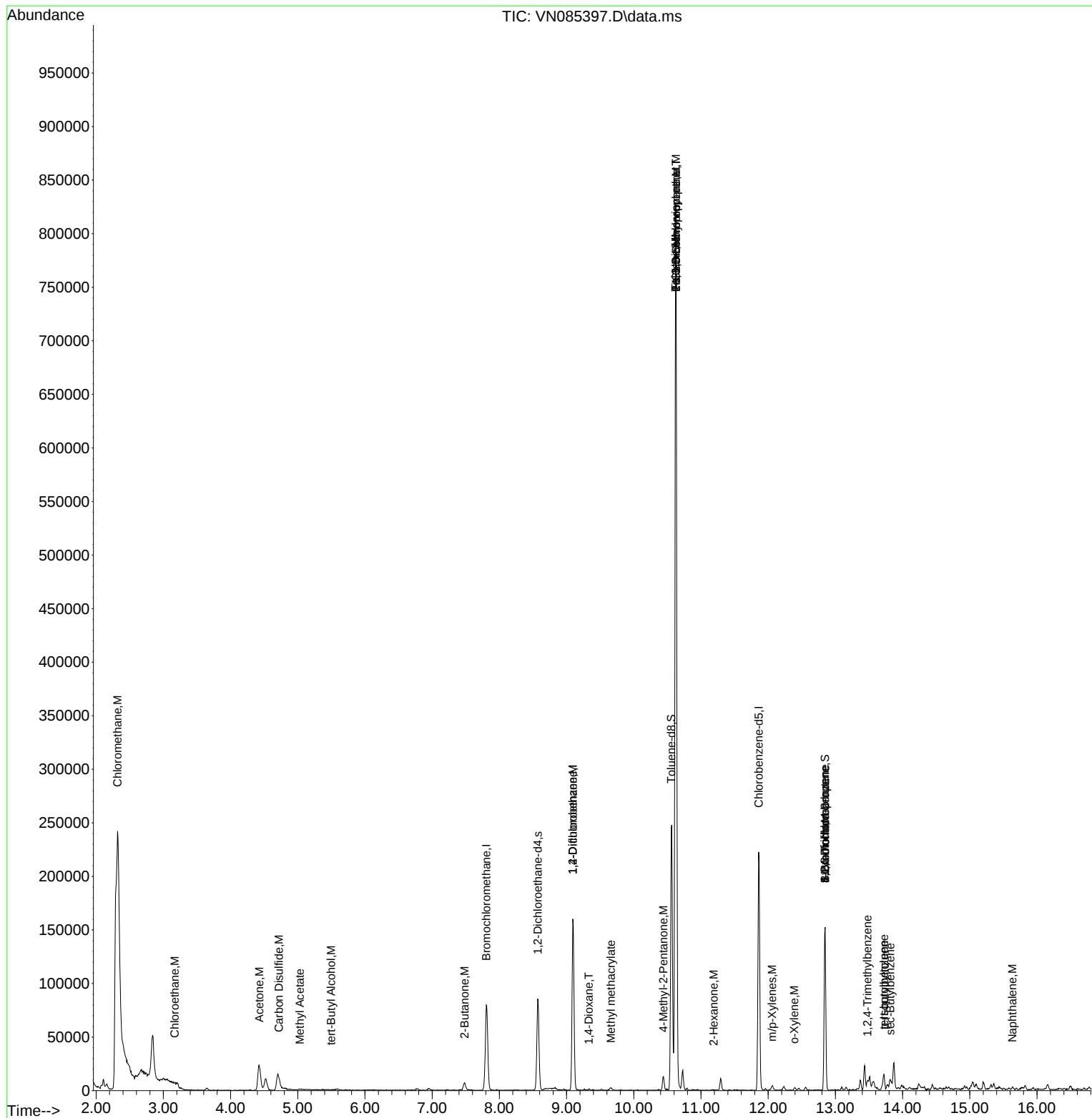
Internal Standards						
1) Bromochloromethane	7.806	128	26801	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	128547	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	125648	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	70254	29.798	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.333%
60) 4-Bromofluorobenzene	12.847	95	51828	25.465	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.867%
63) Toluene-d8	10.559	98	168191	27.413	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.367%
Target Compounds						
					Qvalue	
3) Chloromethane	2.318	50	10325	4.563	ug/l #	42
6) Chloroethane	3.171	64	1049	0.723	ug/l #	85
12) Methyl Acetate	5.030	43	1046	0.423	ug/l #	49
15) Acetone	4.430	58	14064	58.299	ug/l	74
16) Carbon Disulfide	4.718	76	4797	0.953	ug/l	96
23) tert-Butyl Alcohol	5.494	59	165	0.524	ug/l #	100
30) 2-Butanone	7.483	43	11509	9.769	ug/l	96
36) 1,2-Dichloroethane	9.094	62	5386	2.111	ug/l #	77
45) 1,4-Dioxane	9.329	88	246	7.815	ug/l #	38
46) Methyl methacrylate	9.659	41	543	0.289	ug/l #	40
48) t-1,3-Dichloropropene	10.629	75	4301	1.665	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	4301	1.549	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	49323	38.682	ug/l #	1
56) Bromoform	12.847	173	599	0.479	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	9431	3.703	ug/l #	89
59) 2-Hexanone	11.188	43	404	0.218	ug/l #	36
62) Toluene	10.624	91	615594	79.747	ug/l	99
67) m/p-Xylenes	12.059	106	1260	0.413	ug/l	86
68) o-Xylene	12.388	106	635	0.219	ug/l	92
72) 1,2,3-Trichloropropane	12.847	75	28116	12.780	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	28116	31.270	ug/l #	6
79) tert-butylbenzene	13.723	119	6766	1.330	ug/l	67
80) 1,2,4-Trimethylbenzene	13.476	105	5252	0.848	ug/l	95
81) sec-Butylbenzene	13.817	105	2150	0.293	ug/l	64
82) p-Isopropyltoluene	13.723	119	6766	1.119	ug/l	90
91) Naphthalene	15.635	128	3610	0.743	ug/l #	86

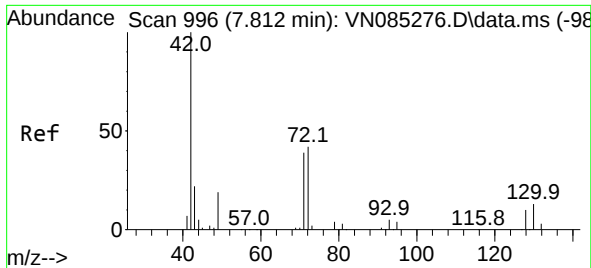
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jan 08 04:18:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Dec 21 02:03:07 2024
Response via : Initial Calibration

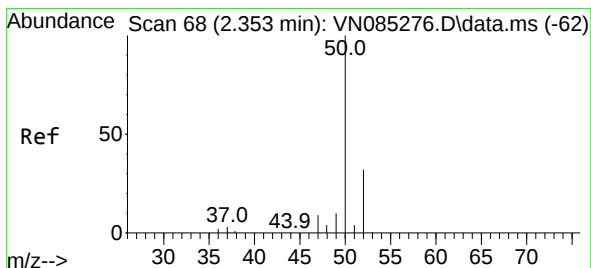
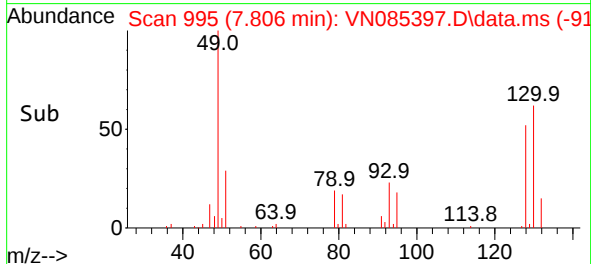
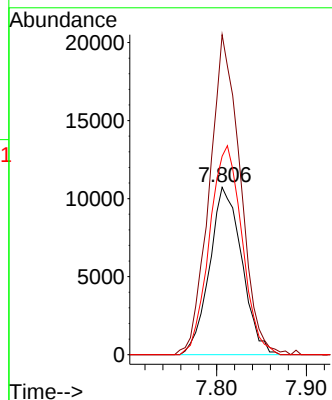
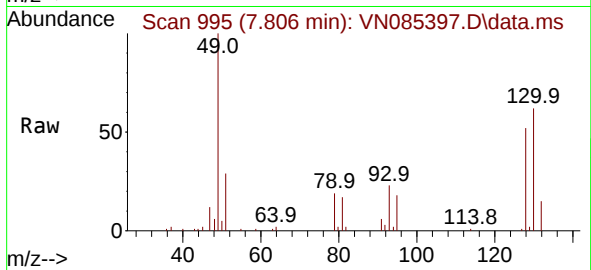




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

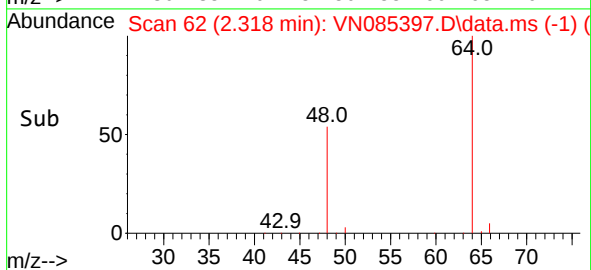
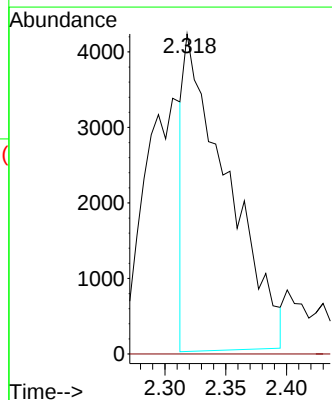
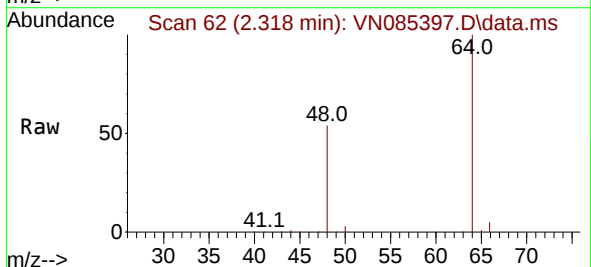
Instrument :
MSVOA_N
ClientSampleId :

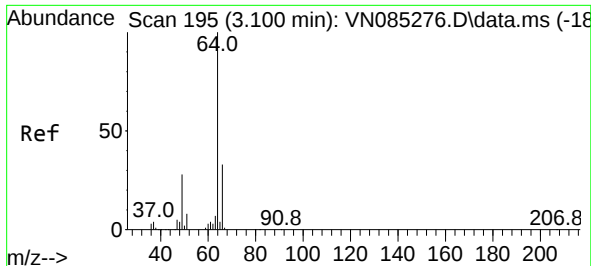
Tgt Ion:128 Resp: 26801
Ion Ratio Lower Upper
128 100
49 182.9 0.0 497.8
130 125.9 0.0 328.5



#3
Chloromethane
Concen: 4.563 ug/l
RT: 2.318 min Scan# 62
Delta R.T. -0.041 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

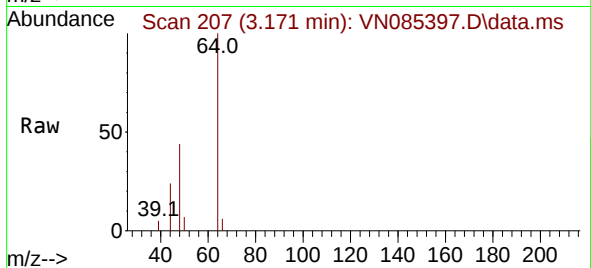
Tgt Ion: 50 Resp: 10325
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#



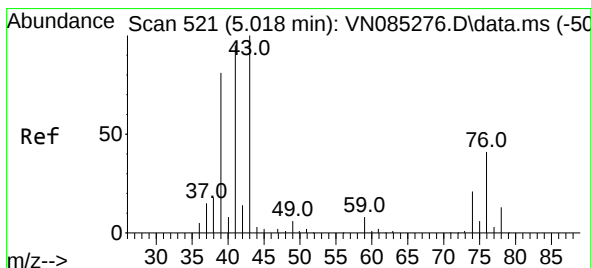
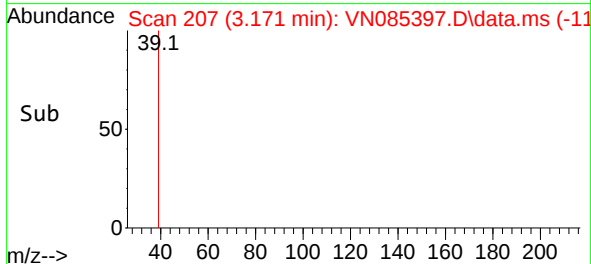
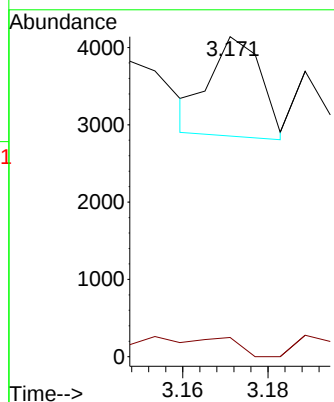


#6
Chloroethane
Concen: 0.723 ug/l
RT: 3.171 min Scan# 207
Delta R.T. 0.053 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Instrument :
MSVOA_N
ClientSampleId :

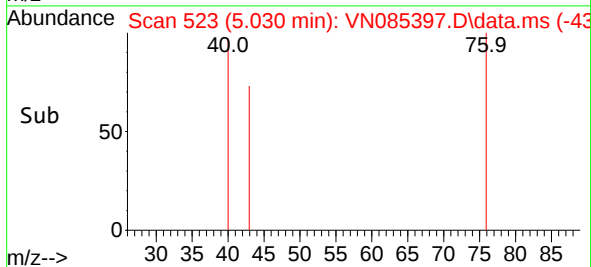
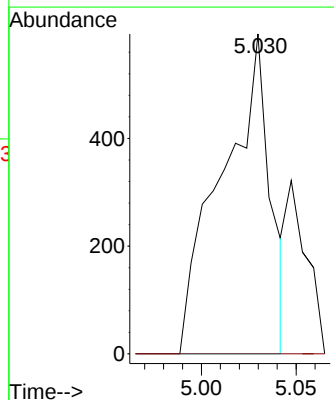
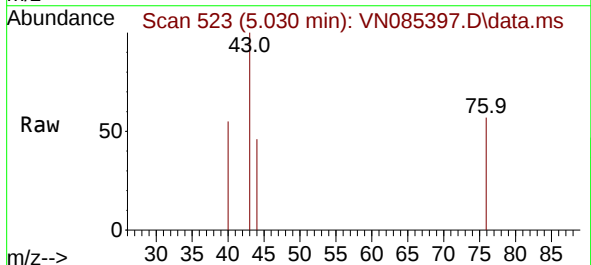


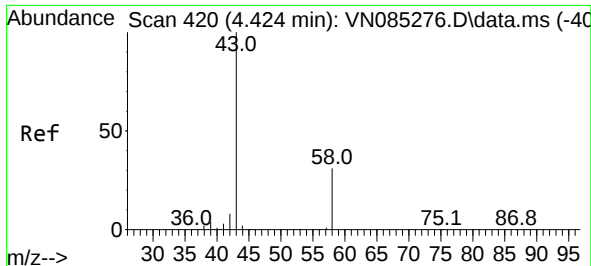
Tgt Ion: 64 Resp: 1049
Ion Ratio Lower Upper
64 100
66 20.0 22.2 33.4#



#12
Methyl Acetate
Concen: 0.423 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 43 Resp: 1046
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#

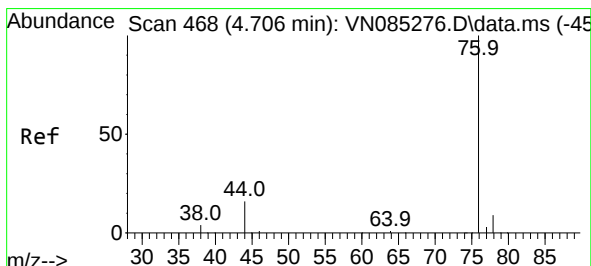
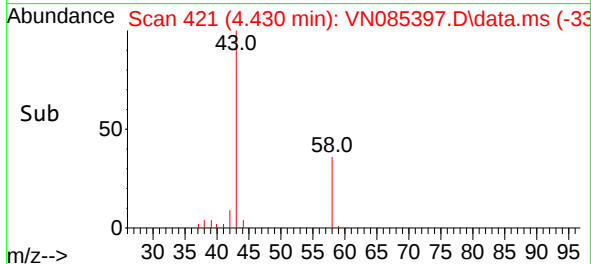
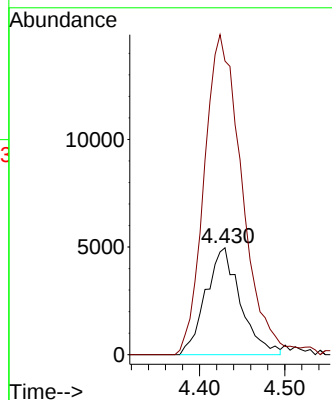
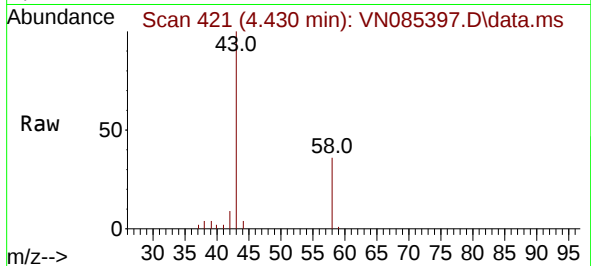




#15
Acetone
Concen: 58.299 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

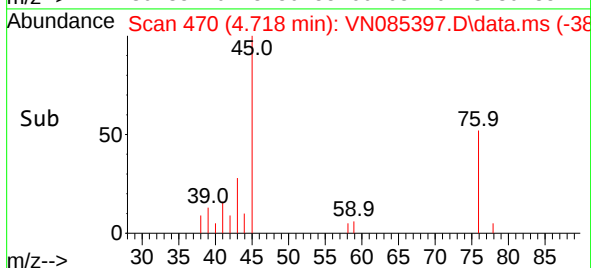
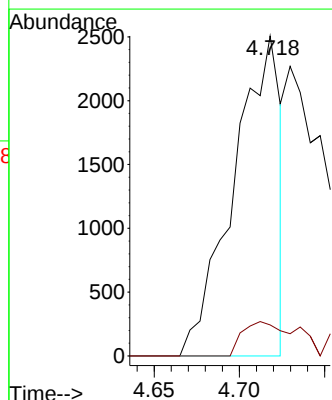
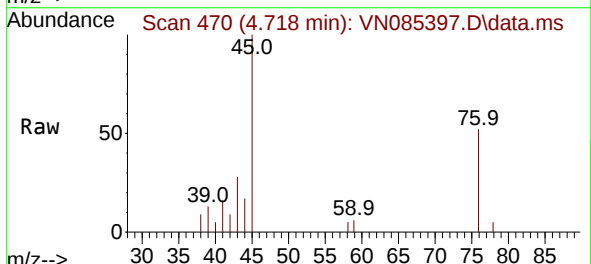
Instrument :
MSVOA_N
ClientSampleId :

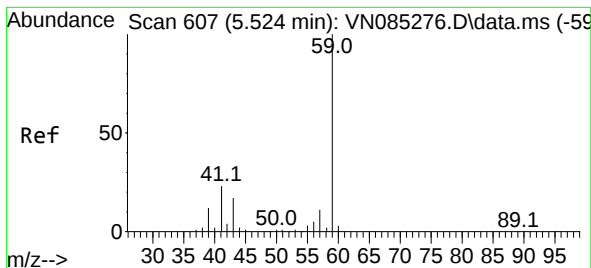
Tgt Ion: 58 Resp: 14064
Ion Ratio Lower Upper
58 100
43 270.6 258.8 388.2



#16
Carbon Disulfide
Concen: 0.953 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 76 Resp: 4797
Ion Ratio Lower Upper
76 100
78 9.7 6.6 9.8





#23

tert-Butyl Alcohol

Concen: 0.524 ug/l

RT: 5.494 min Scan# 607

Delta R.T. -0.023 min

Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

Instrument :

MSVOA_N

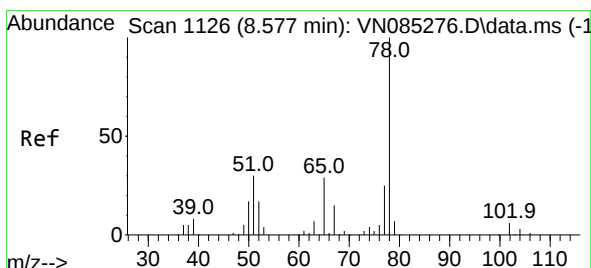
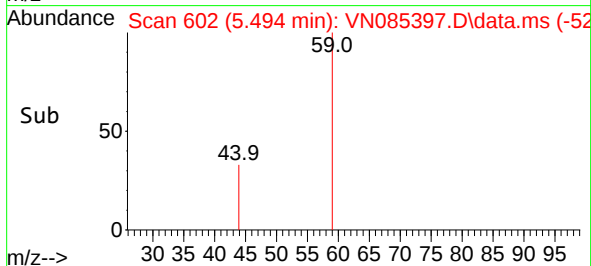
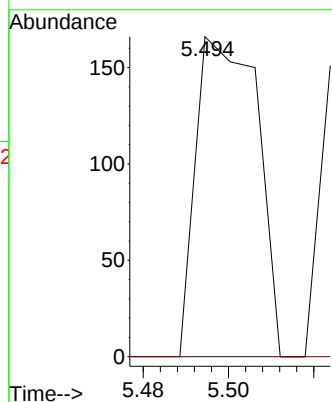
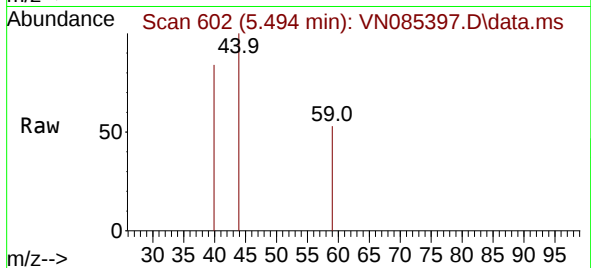
ClientSampleId :

Tgt Ion: 59 Resp: 165

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 29.798 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VN085397.D

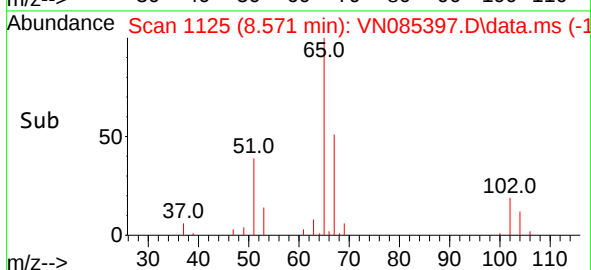
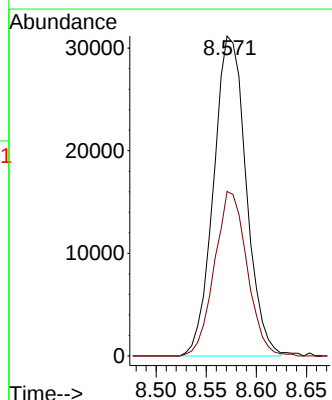
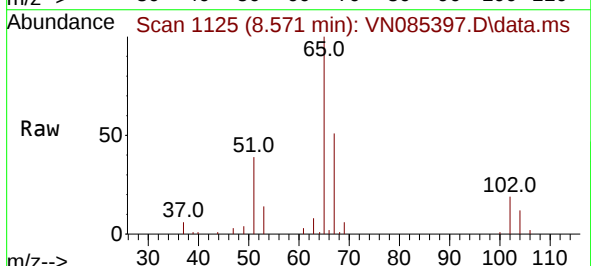
Acq: 07 Jan 2025 13:52

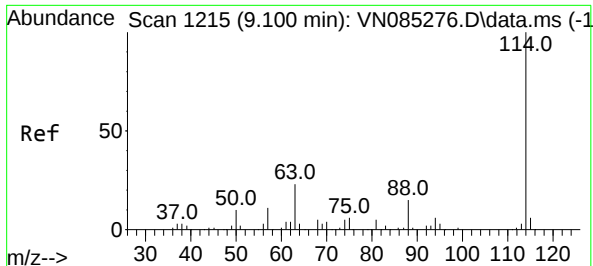
Tgt Ion: 65 Resp: 70254

Ion Ratio Lower Upper

65 100

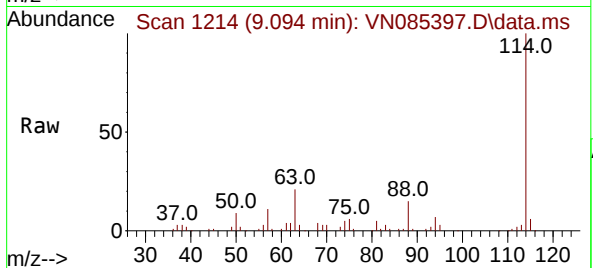
67 51.6 42.0 63.0



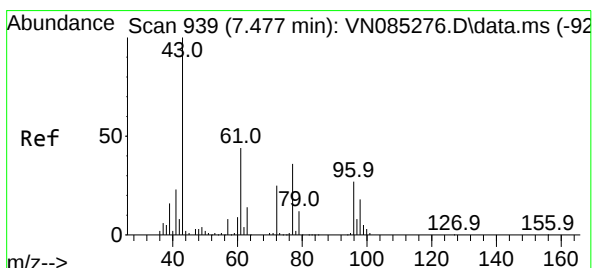
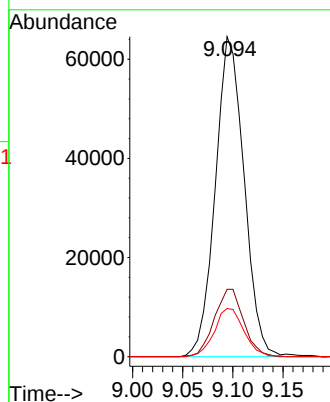
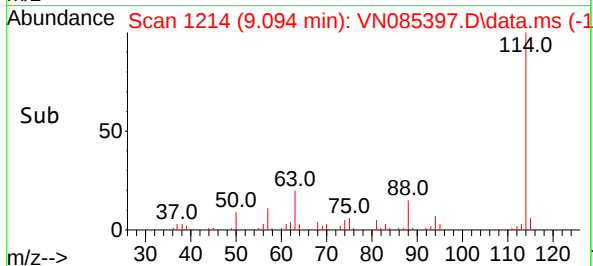


#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.094 min Scan# 114
 Delta R.T. -0.006 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52

Instrument :
 MSVOA_N
 ClientSampleId :

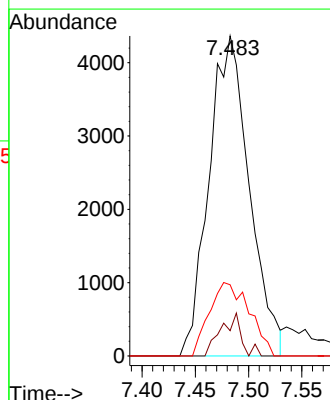
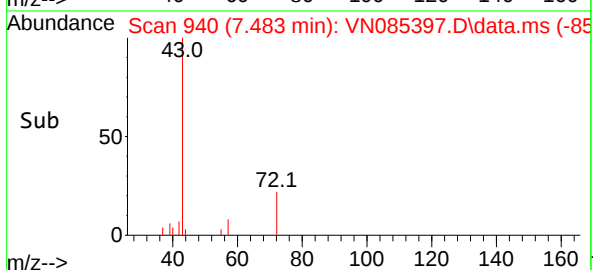
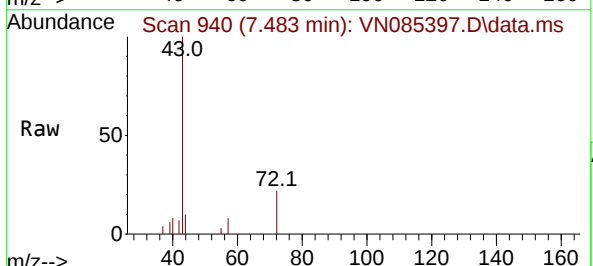


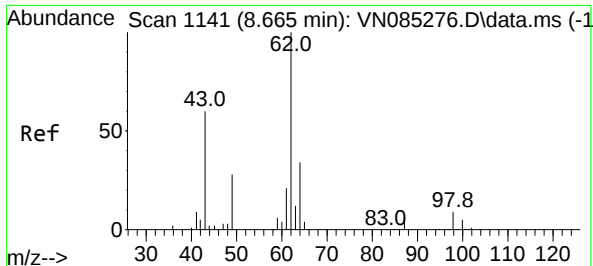
Tgt Ion:114 Resp: 128547
 Ion Ratio Lower Upper
 114 100
 63 21.4 18.0 27.0
 88 15.5 12.9 19.3



#30
 2-Butanone
 Concen: 9.769 ug/l
 RT: 7.483 min Scan# 940
 Delta R.T. 0.006 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52

Tgt Ion: 43 Resp: 11509
 Ion Ratio Lower Upper
 43 100
 57 6.3 6.2 9.2
 72 22.8 19.9 29.9





#36

1,2-Dichloroethane

Concen: 2.111 ug/l

RT: 9.094 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

Instrument :

MSVOA_N

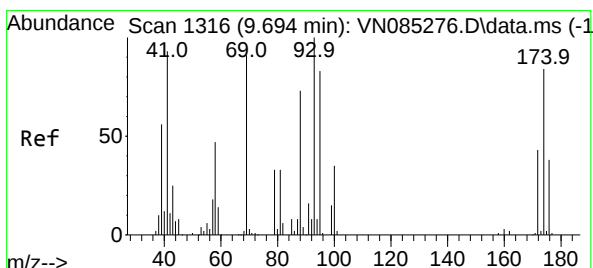
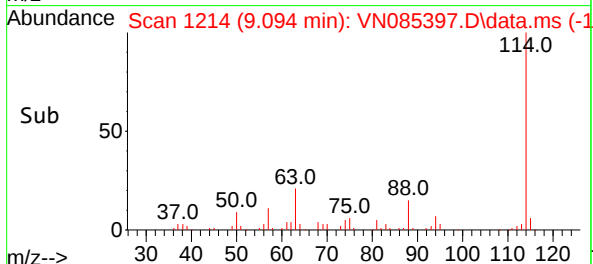
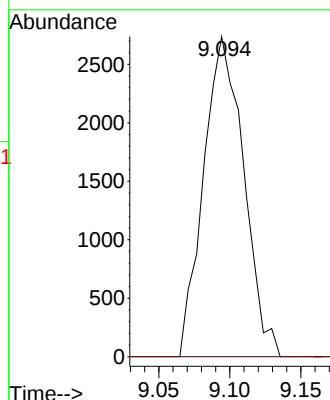
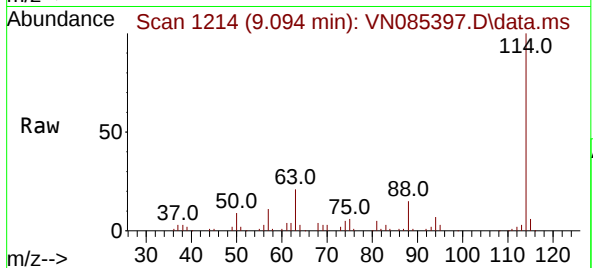
ClientSampleId :

Tgt Ion: 62 Resp: 5386

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#45

1,4-Dioxane

Concen: 7.815 ug/l

RT: 9.329 min Scan# 1254

Delta R.T. -0.359 min

Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

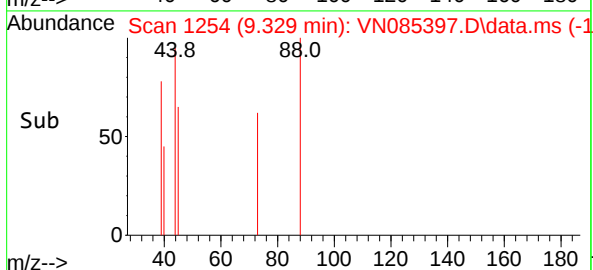
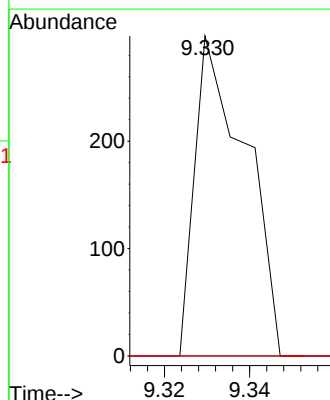
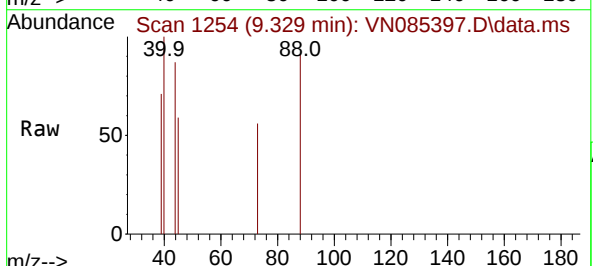
Tgt Ion: 88 Resp: 246

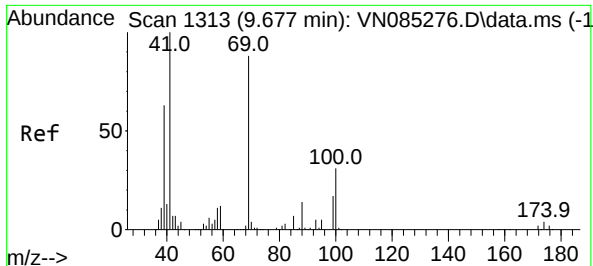
Ion Ratio Lower Upper

88 100

43 28.9 25.4 38.2

58 0.0 58.5 87.7#

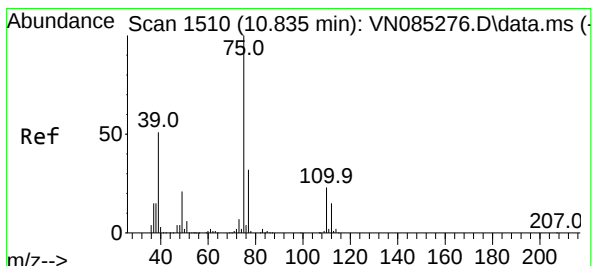
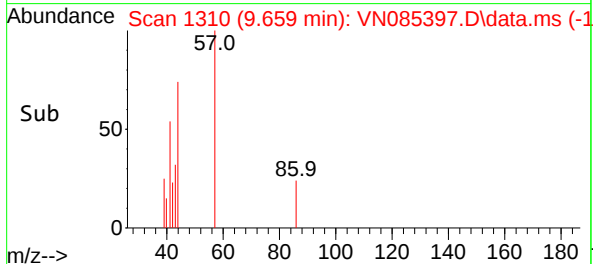
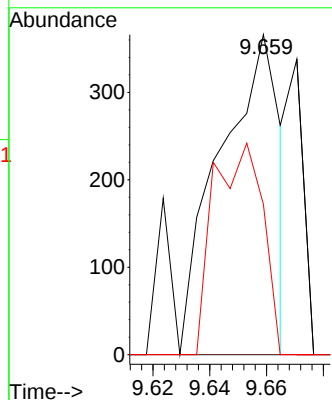
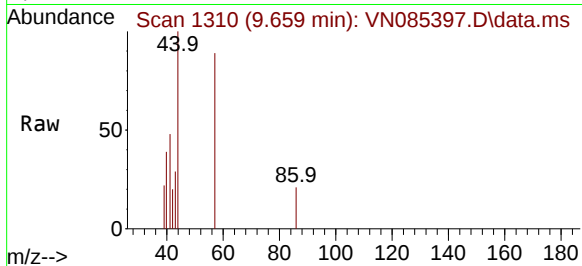




#46
Methyl methacrylate
Concen: 0.289 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.023 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

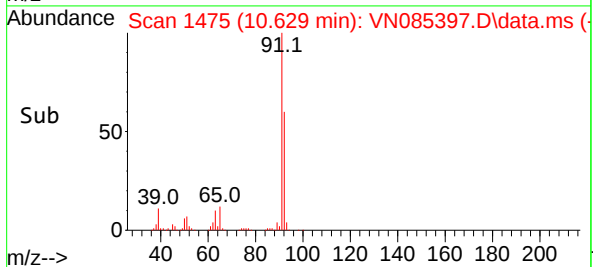
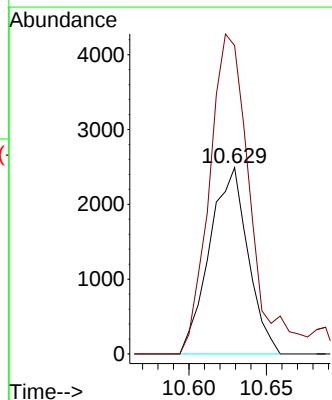
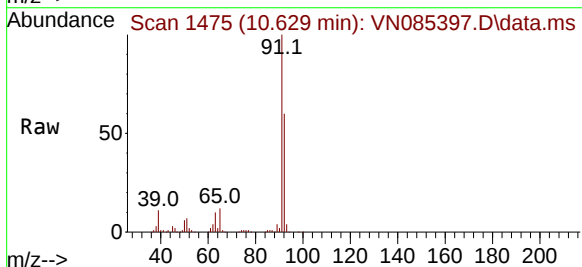
Instrument :
MSVOA_N
ClientSampleId :

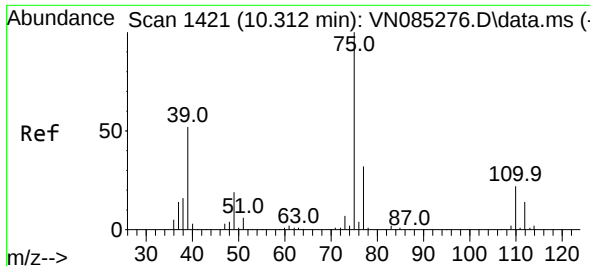
Tgt Ion: 41 Resp: 543
Ion Ratio Lower Upper
41 100
69 0.0 39.9 119.6#
39 47.0 31.6 95.0



#48
t-1,3-Dichloropropene
Concen: 1.665 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.200 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 75 Resp: 4301
Ion Ratio Lower Upper
75 100
77 165.4 23.8 35.6#

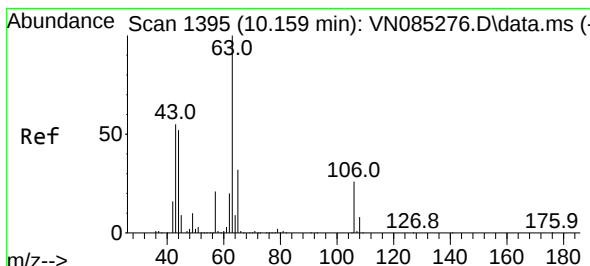
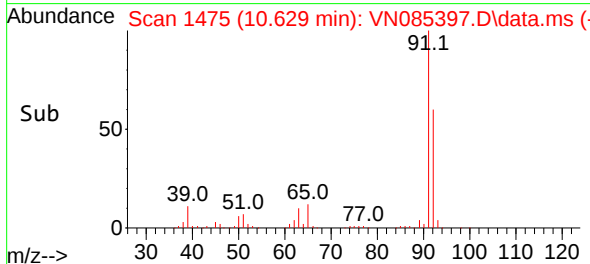
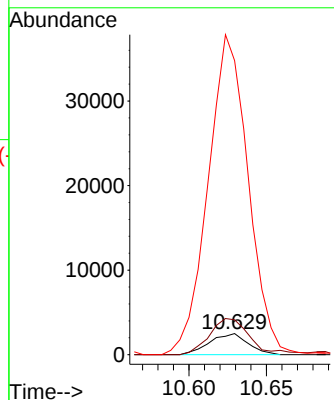
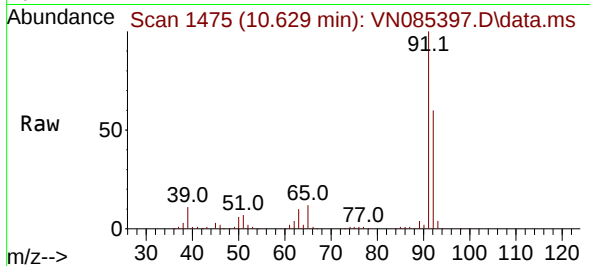




#49
 cis-1,3-Dichloropropene
 Concen: 1.549 ug/l
 RT: 10.629 min Scan# 1421
 Delta R.T. 0.318 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52

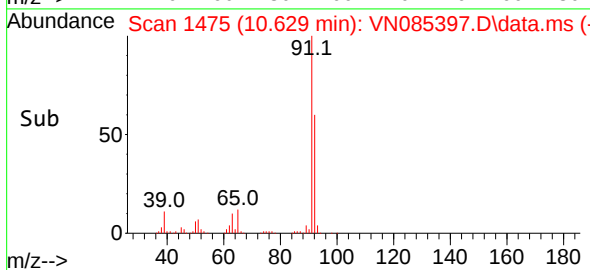
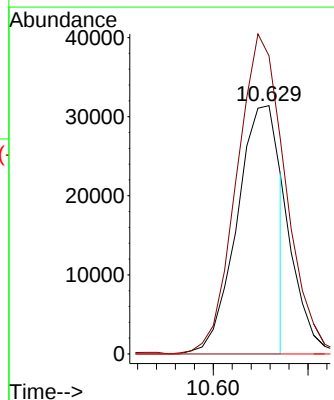
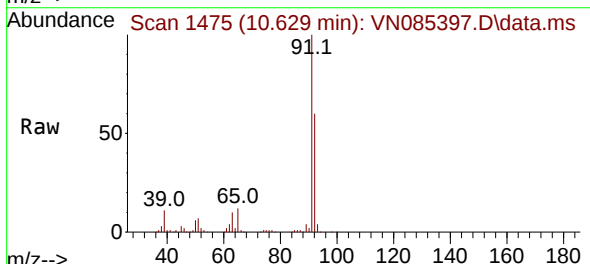
Instrument :
 MSVOA_N
 ClientSampleId :

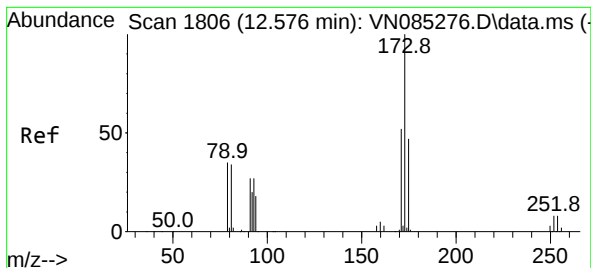
Tgt Ion: 75 Resp: 4301
 Ion Ratio Lower Upper
 75 100
 77 165.4 26.6 40.0#
 39 1358.0 41.9 62.9#



#55
 2-Chloroethyl vinyl ether
 Concen: 38.682 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. 0.471 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52

Tgt Ion: 63 Resp: 49323
 Ion Ratio Lower Upper
 63 100
 65 125.6 25.9 38.9#
 106 0.0 21.2 31.8#





#56

Bromoform

Concen: 0.479 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.271 min

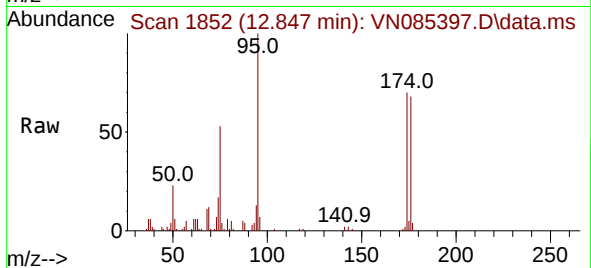
Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

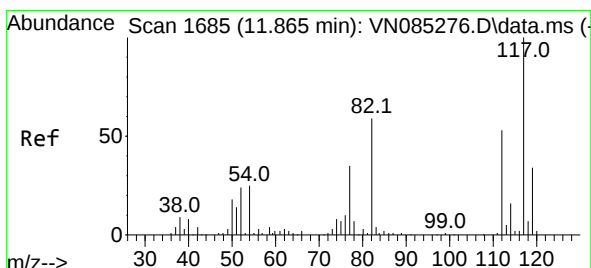
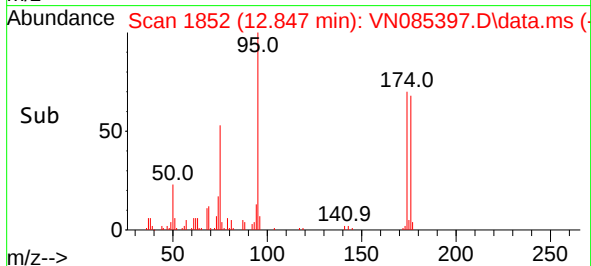
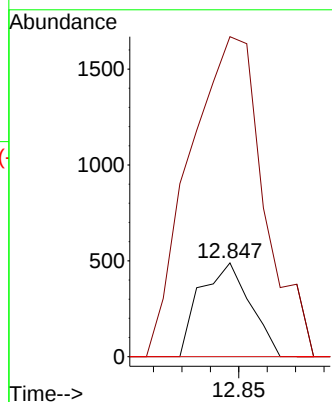
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	599
Ion Ratio	Lower	Upper	
173	100		
175	508.7	39.4	59.2#
254	0.0	7.2	10.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

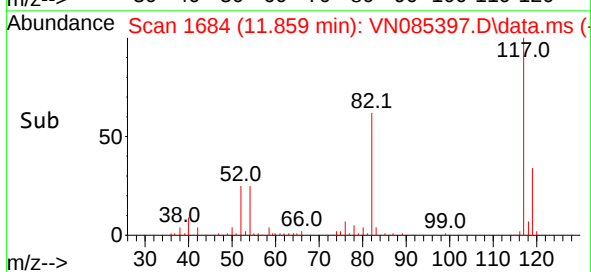
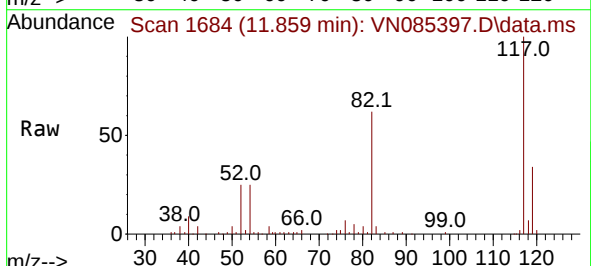
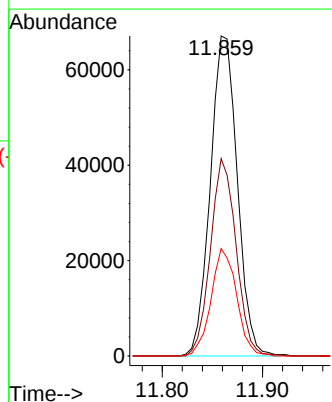
RT: 11.859 min Scan# 1684

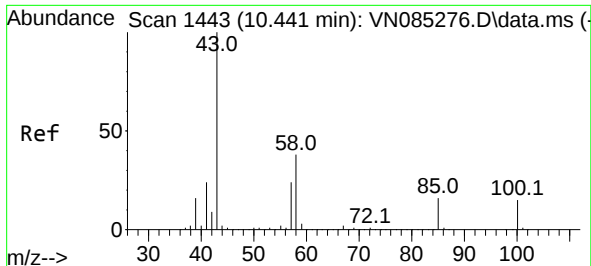
Delta R.T. -0.006 min

Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

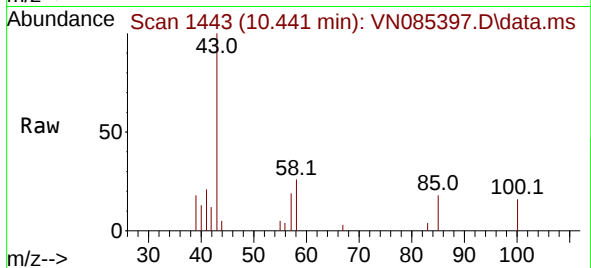
Tgt Ion:	117	Resp:	125648
Ion Ratio	Lower	Upper	
117	100		
82	58.6	47.4	71.0
119	31.9	25.3	37.9



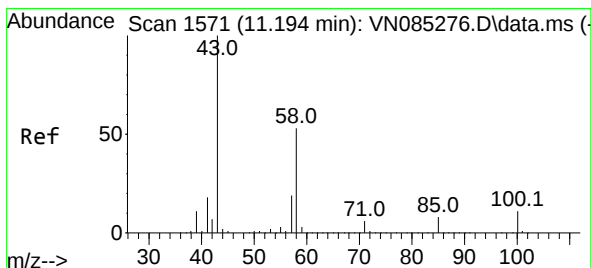
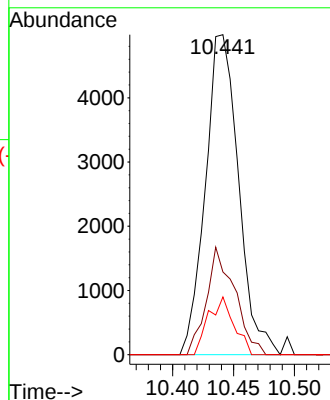
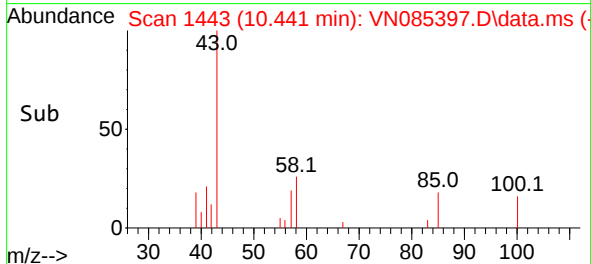


#58
4-Methyl-2-Pentanone
Concen: 3.703 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

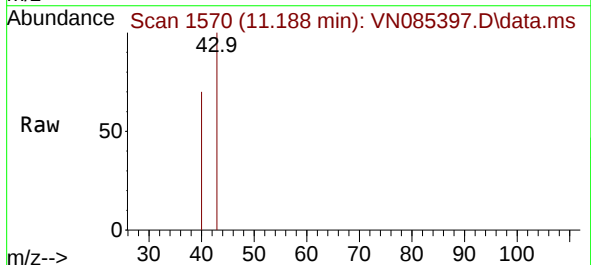
Instrument :
MSVOA_N
ClientSampleId :



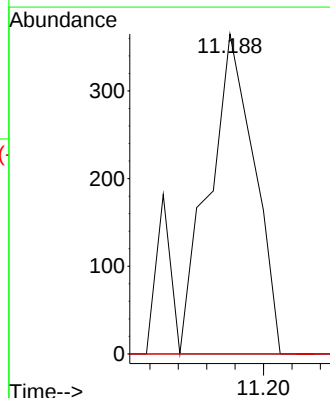
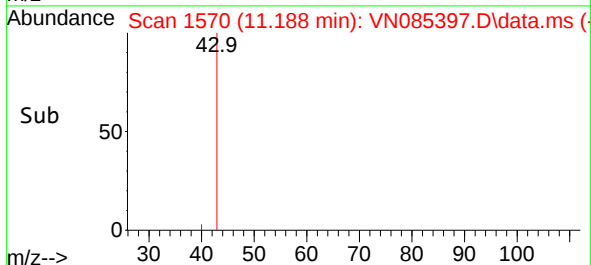
Tgt Ion: 43 Resp: 9431
Ion Ratio Lower Upper
43 100
58 28.7 29.2 43.8#
85 13.9 12.8 19.2

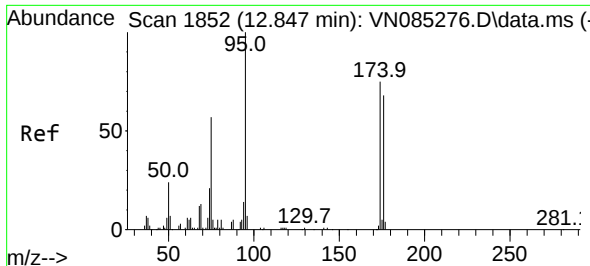


#59
2-Hexanone
Concen: 0.218 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52



Tgt Ion: 43 Resp: 404
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
57 0.0 14.2 21.4#

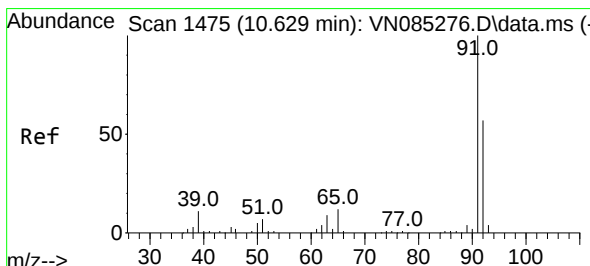
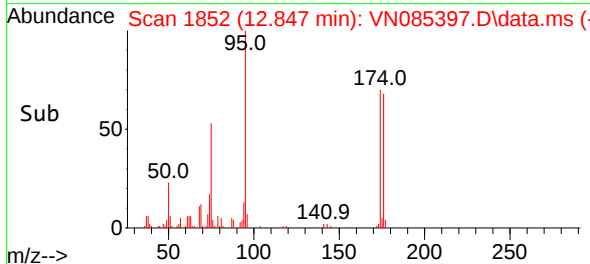
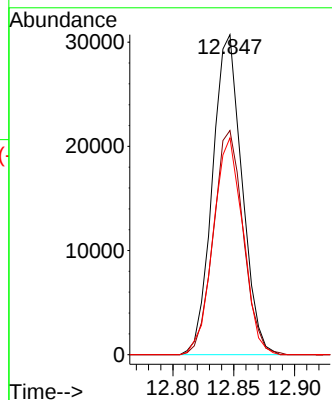
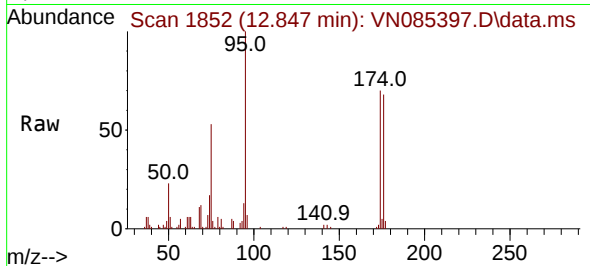




#60
4-Bromofluorobenzene
Concen: 25.465 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

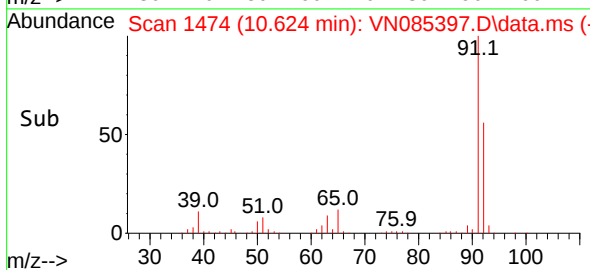
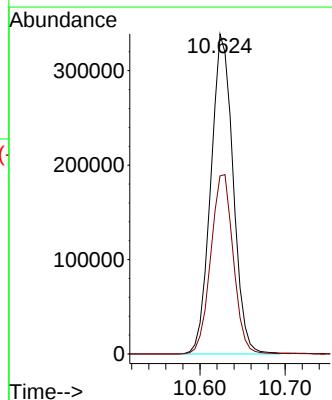
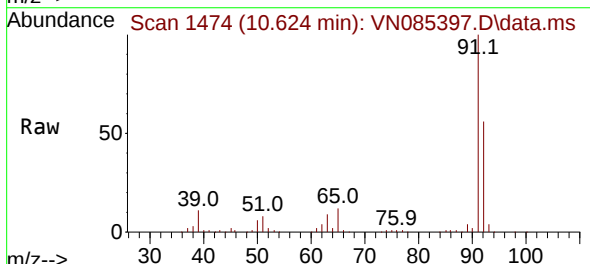
Instrument :
MSVOA_N
ClientSampleId :

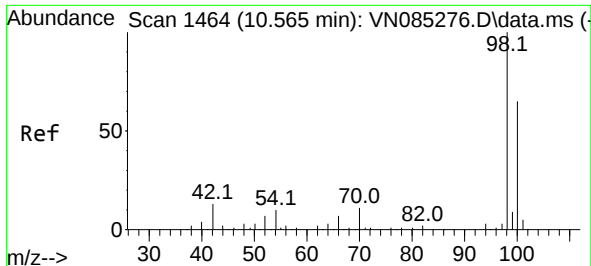
Tgt Ion: 95 Resp: 51828
Ion Ratio Lower Upper
95 100
174 70.9 57.8 86.8
176 68.5 57.1 85.7



#62
Toluene
Concen: 79.747 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 91 Resp: 615594
Ion Ratio Lower Upper
91 100
92 56.7 45.9 68.9

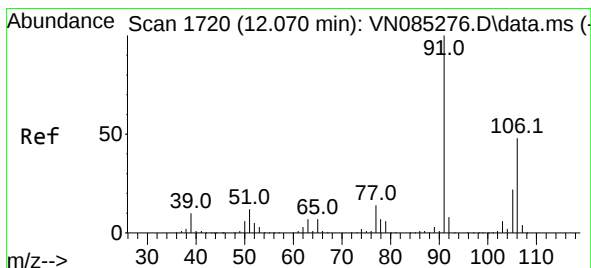
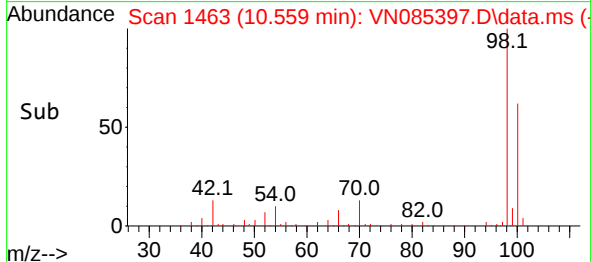
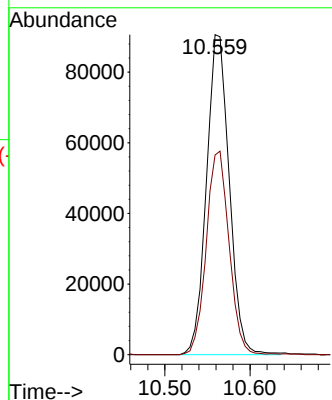
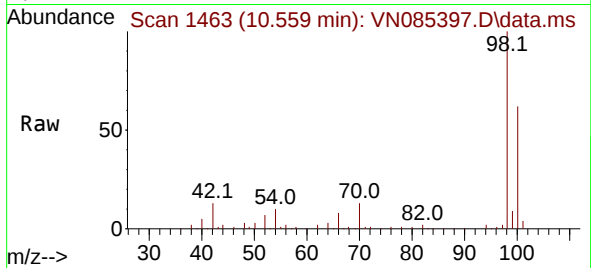




#63
Toluene-d8
Concen: 27.413 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

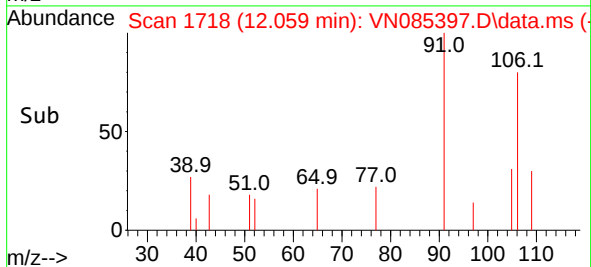
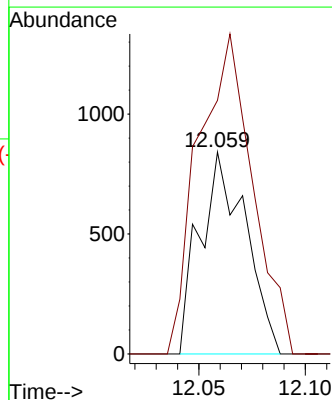
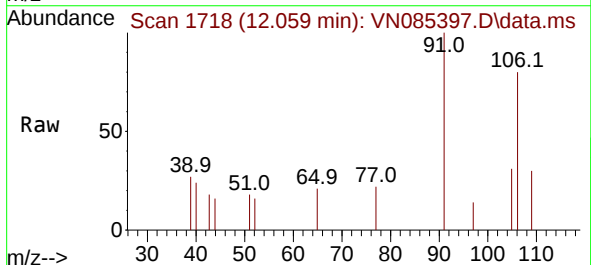
Instrument :
MSVOA_N
ClientSampleId :

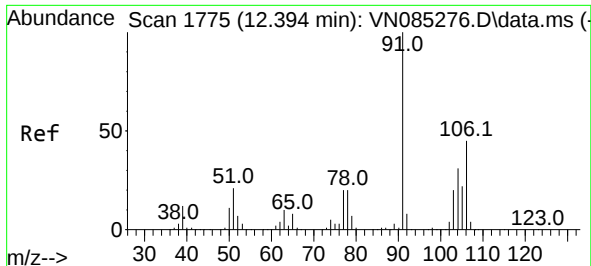
Tgt Ion: 98 Resp: 168191
Ion Ratio Lower Upper
98 100
100 63.5 50.8 76.2



#67
m/p-Xylenes
Concen: 0.413 ug/l
RT: 12.059 min Scan# 1718
Delta R.T. -0.012 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion:106 Resp: 1260
Ion Ratio Lower Upper
106 100
91 187.4 167.0 250.4

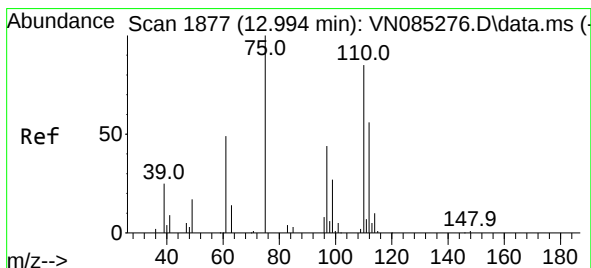
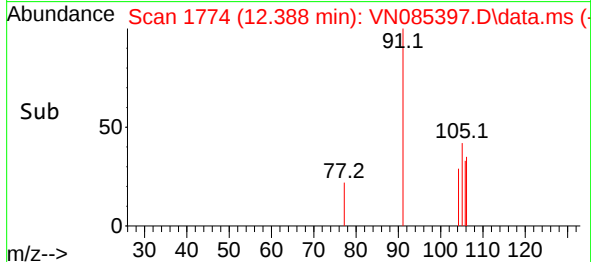
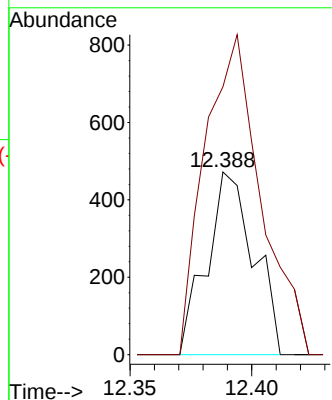
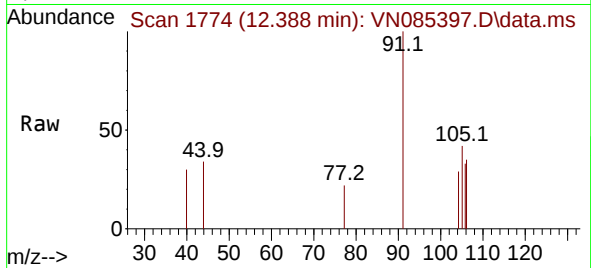




#68
o-Xylene
Concen: 0.219 ug/l
RT: 12.388 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

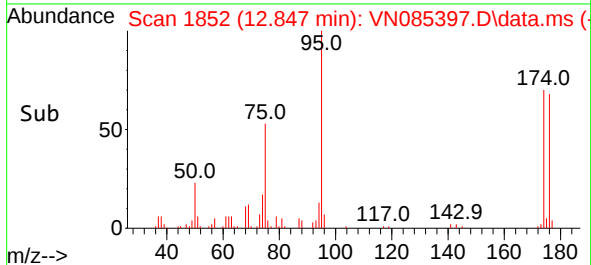
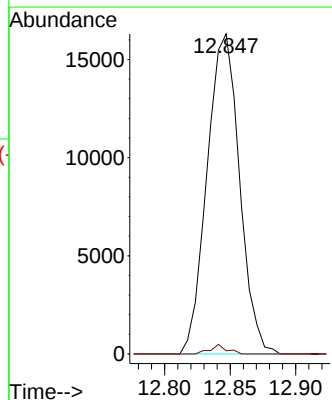
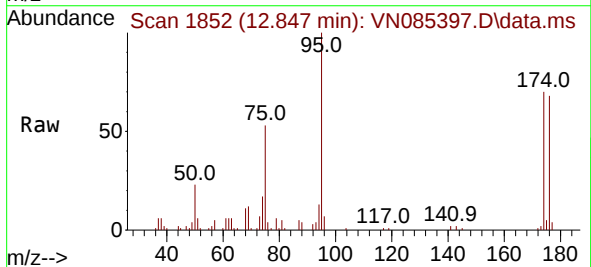
Instrument :
MSVOA_N
ClientSampleId :

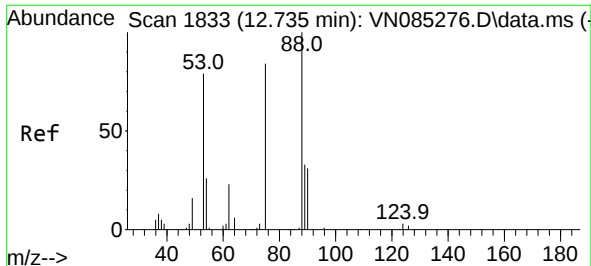
Tgt Ion:106 Resp: 635
Ion Ratio Lower Upper
106 100
91 208.2 110.6 331.8



#72
1,2,3-Trichloropropane
Concen: 12.780 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 75 Resp: 28116
Ion Ratio Lower Upper
75 100
77 1.5 0.0 407.2

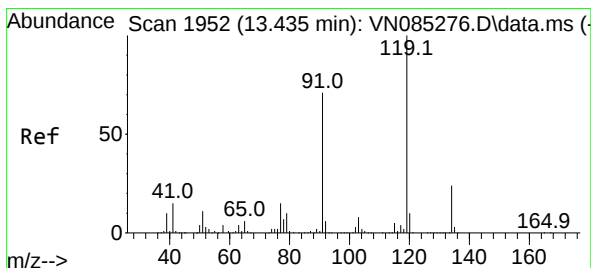
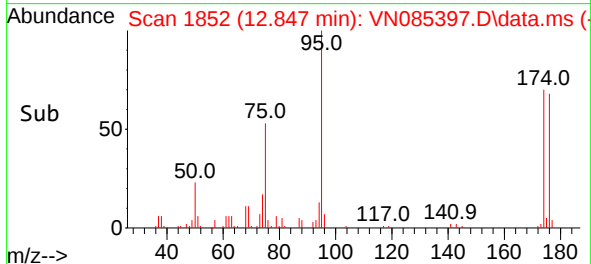
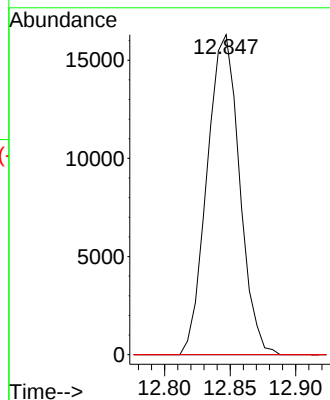
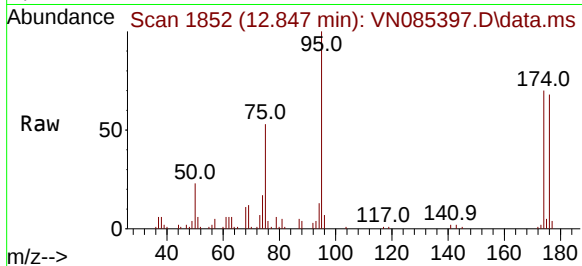




#77
t-1,4-Dichloro-2-butene
Concen: 31.270 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

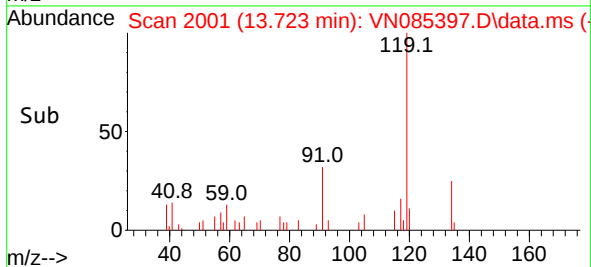
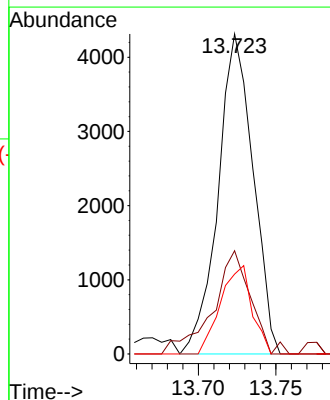
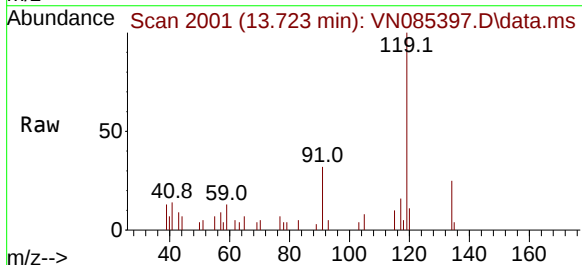
Instrument :
MSVOA_N
ClientSampleId :

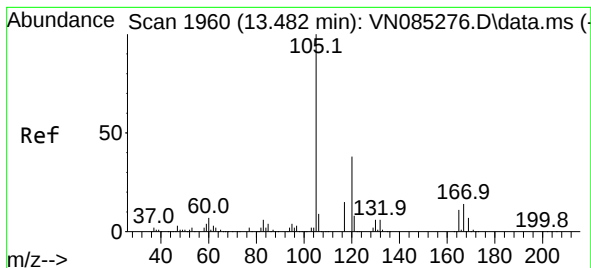
Tgt Ion: 75 Resp: 28116
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#



#79
tert-butylbenzene
Concen: 1.330 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.288 min
Lab File: VN085397.D
Acq: 07 Jan 2025 13:52

Tgt Ion: 119 Resp: 6766
Ion Ratio Lower Upper
119 100
91 34.4 0.0 142.0
134 24.8 0.0 49.0





#80

1,2,4-Trimethylbenzene

Concen: 0.848 ug/l

RT: 13.476 min Scan# 1960

Delta R.T. -0.006 min

Lab File: VN085397.D

Acq: 07 Jan 2025 13:52

Instrument :

MSVOA_N

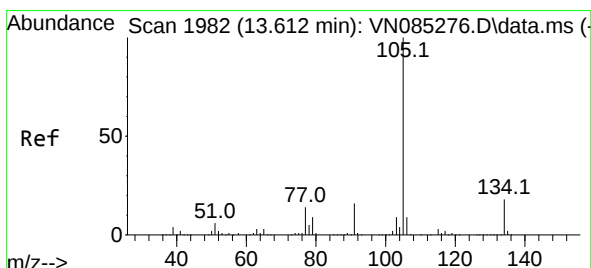
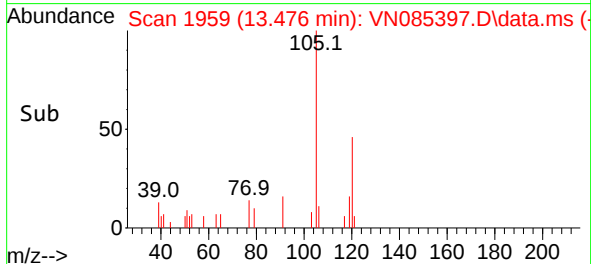
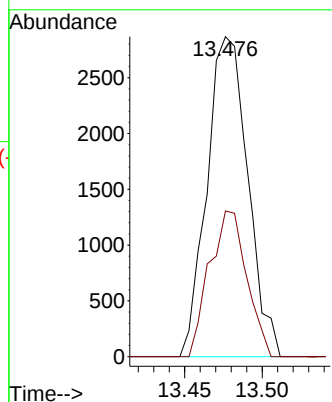
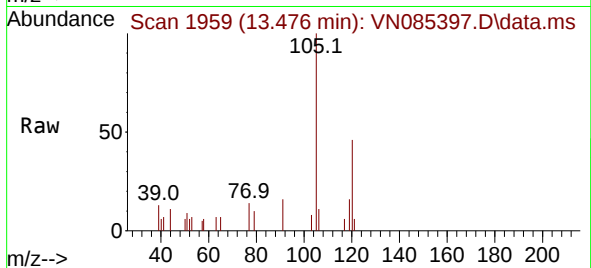
ClientSampleId :

Tgt Ion:105 Resp: 5252

Ion Ratio Lower Upper

105 100

120 41.5 0.0 89.8



#81

sec-Butylbenzene

Concen: 0.293 ug/l

RT: 13.817 min Scan# 2017

Delta R.T. 0.206 min

Lab File: VN085397.D

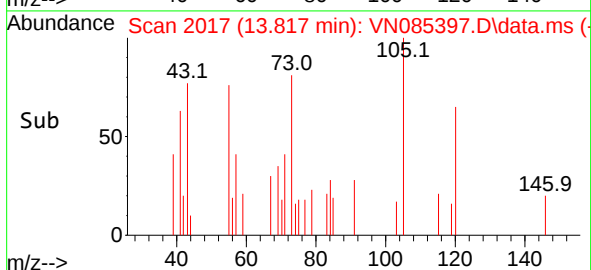
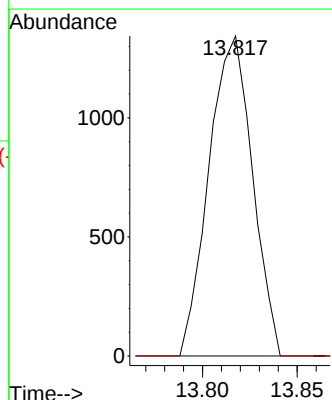
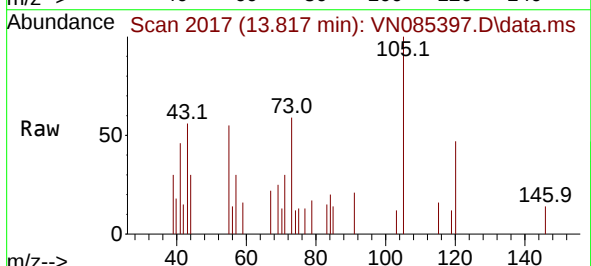
Acq: 07 Jan 2025 13:52

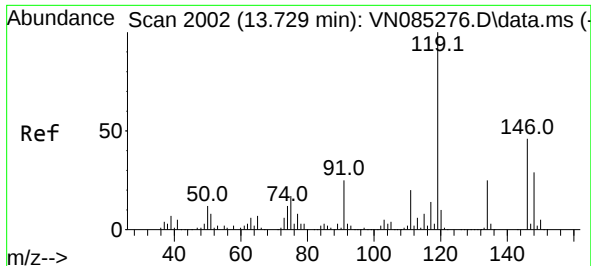
Tgt Ion:105 Resp: 2150

Ion Ratio Lower Upper

105 100

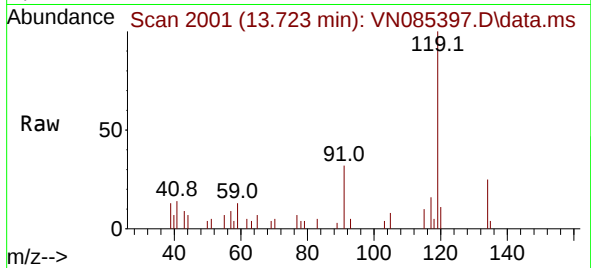
134 3.5 0.0 39.8



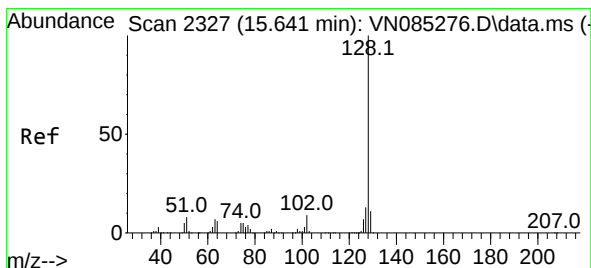
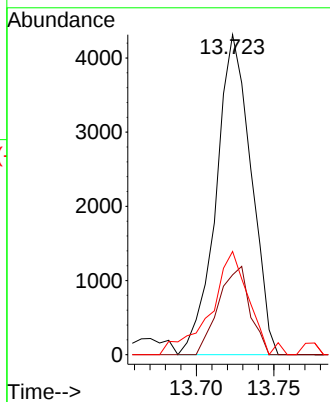
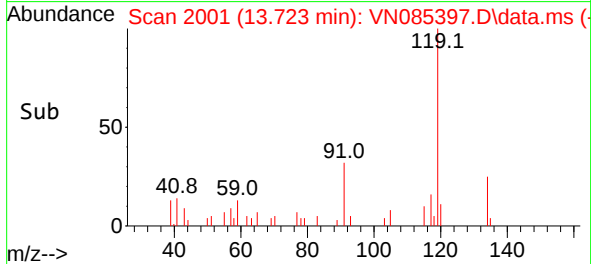


#82
 p-Isopropyltoluene
 Concen: 1.119 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. -0.006 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52

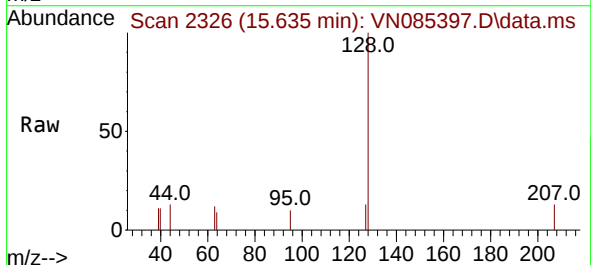
Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:119 Resp: 6766
 Ion Ratio Lower Upper
 119 100
 134 24.8 0.0 51.4
 91 34.4 0.0 51.4



#91
 Naphthalene
 Concen: 0.743 ug/l
 RT: 15.635 min Scan# 2326
 Delta R.T. -0.006 min
 Lab File: VN085397.D
 Acq: 07 Jan 2025 13:52



Tgt Ion:128 Resp: 3610
 Ion Ratio Lower Upper
 128 100
 127 10.8 10.6 16.0
 129 2.1 8.6 13.0#

