

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010725\
 Data File : VN085398.D
 Acq On : 07 Jan 2025 14:44
 Operator : JC\MD
 Sample : Q1013-01RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 08 04:18:48 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)

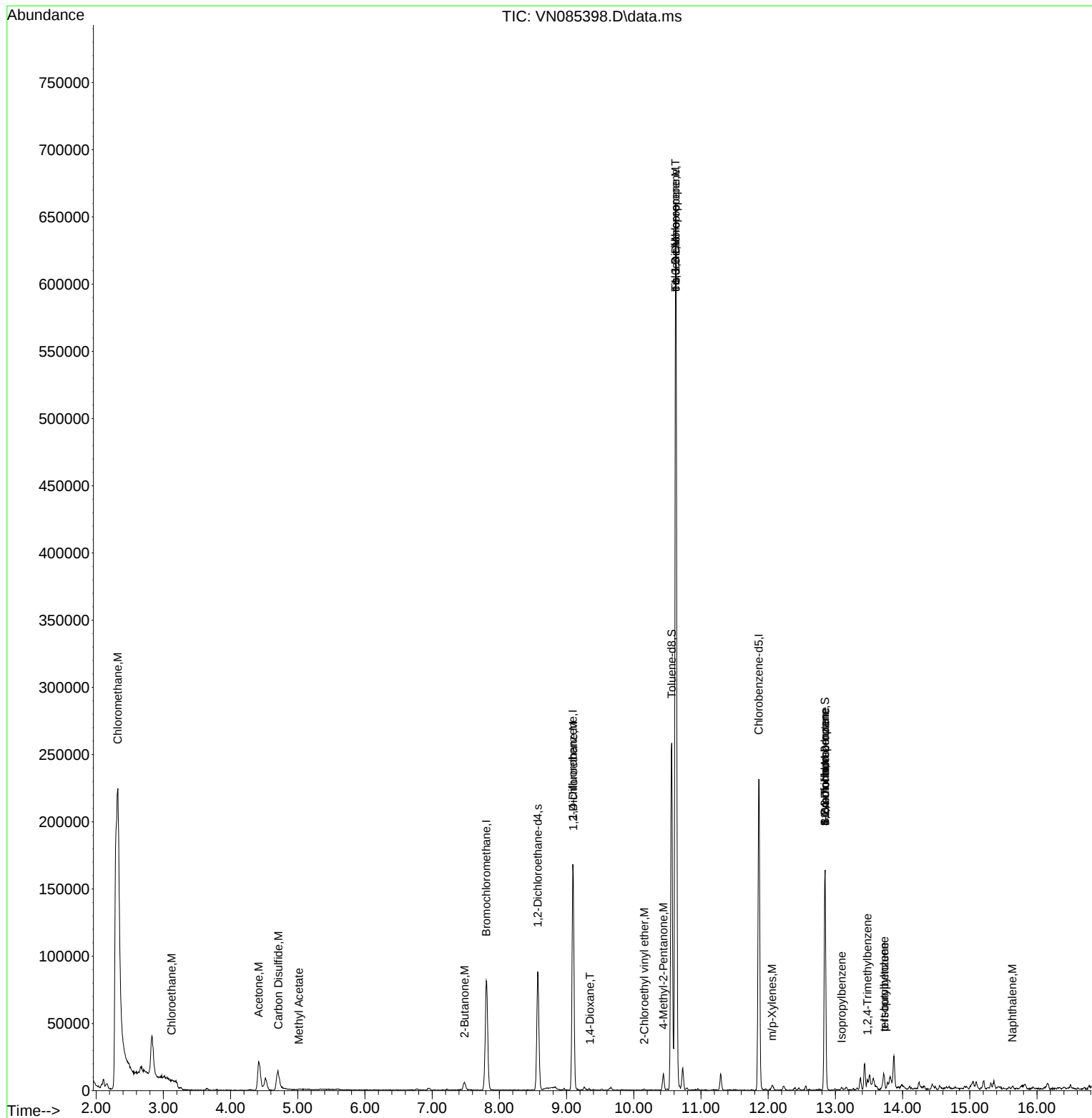
Internal Standards						
1) Bromochloromethane	7.806	128	27140	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	135904	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	130942	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	71377	29.896	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.667%
60) 4-Bromofluorobenzene	12.847	95	54737	25.807	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.033%
63) Toluene-d8	10.565	98	174984	27.367	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.233%
Target Compounds						
					Qvalue	
3) Chloromethane	2.324	50	8011	3.496	ug/l #	42
6) Chloroethane	3.124	64	516	0.351	ug/l	97
12) Methyl Acetate	5.018	43	566	0.226	ug/l #	49
15) Acetone	4.418	58	7638	31.266	ug/l	97
16) Carbon Disulfide	4.712	76	1724	0.338	ug/l #	77
30) 2-Butanone	7.483	43	10364	8.321	ug/l #	85
36) 1,2-Dichloroethane	9.100	62	5659	2.098	ug/l #	77
45) 1,4-Dioxane	9.347	88	66	1.983	ug/l #	3
48) t-1,3-Dichloropropene	10.624	75	3434	1.257	ug/l #	1
49) cis-1,3-Dichloropropene	10.624	75	3434	1.170	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.159	63	388	0.288	ug/l #	45
56) Bromoform	12.847	173	530	0.401	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	7956	2.997	ug/l	96
62) Toluene	10.624	91	488888	60.773	ug/l	99
67) m/p-Xylenes	12.059	106	1147	0.361	ug/l #	69
70) Isopropylbenzene	13.094	105	1914	0.252	ug/l #	65
72) 1,2,3-Trichloropropane	12.847	75	29720	12.963	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	29720	31.718	ug/l #	6
79) tert-butylbenzene	13.729	119	5798	1.094	ug/l	69
80) 1,2,4-Trimethylbenzene	13.476	105	4139	0.642	ug/l	90
82) p-Isopropyltoluene	13.729	119	5798	0.920	ug/l	88
91) Naphthalene	15.635	128	3322	0.656	ug/l #	86

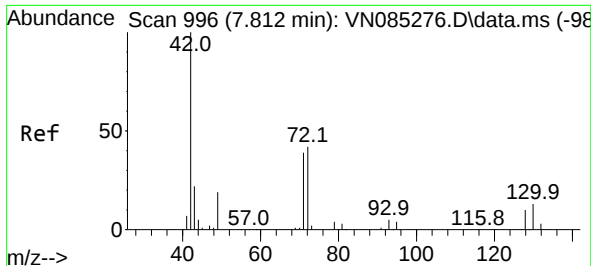
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010725\
Data File : VN085398.D
Acq On : 07 Jan 2025 14:44
Operator : JC\MD
Sample : Q1013-01RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jan 08 04:18:48 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

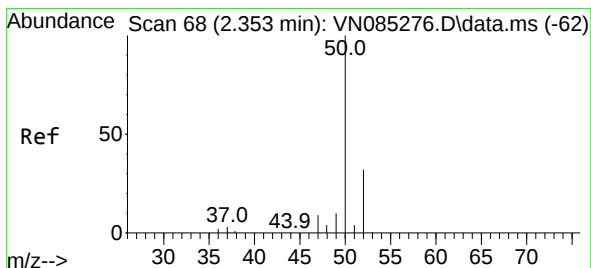
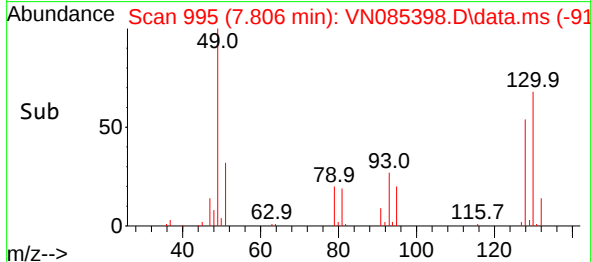
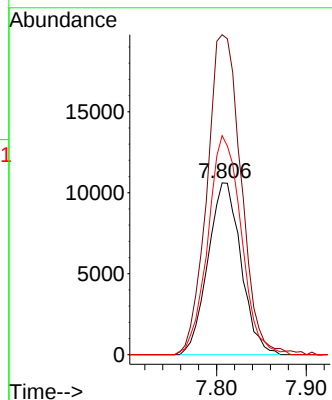
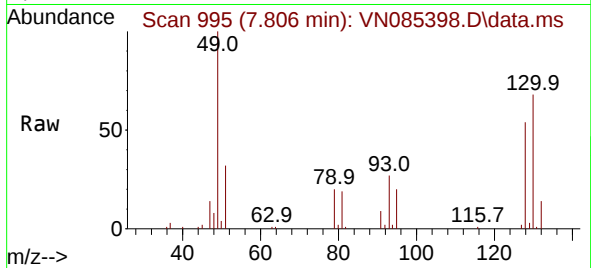




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.806 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

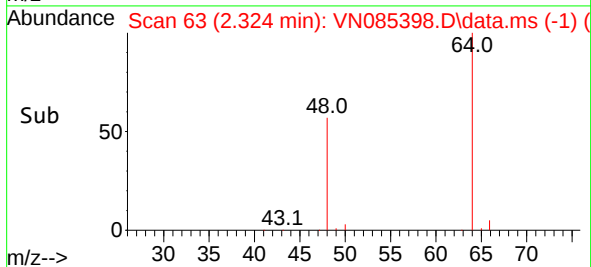
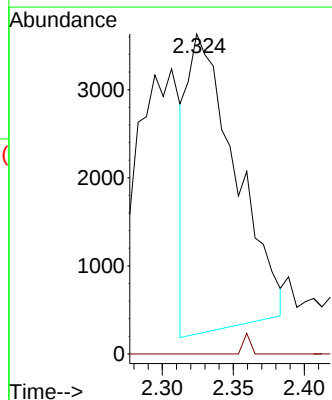
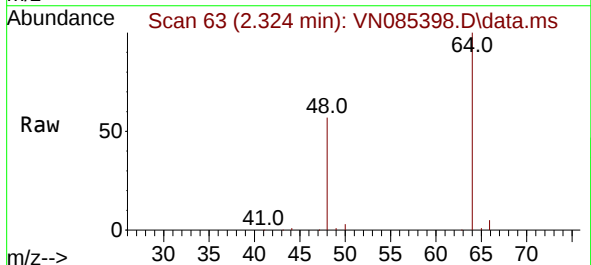
Instrument :
MSVOA_N
ClientSampleId :

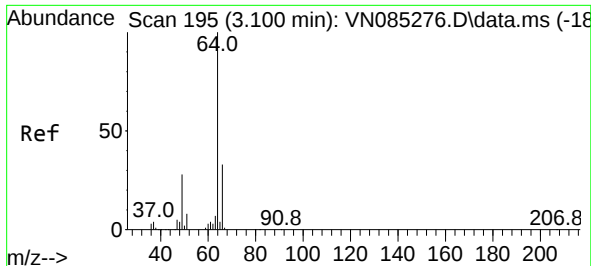
Tgt Ion:128 Resp: 27140
Ion Ratio Lower Upper
128 100
49 192.5 0.0 497.8
130 128.9 0.0 328.5



#3
Chloromethane
Concen: 3.496 ug/l
RT: 2.324 min Scan# 63
Delta R.T. -0.035 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 50 Resp: 8011
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

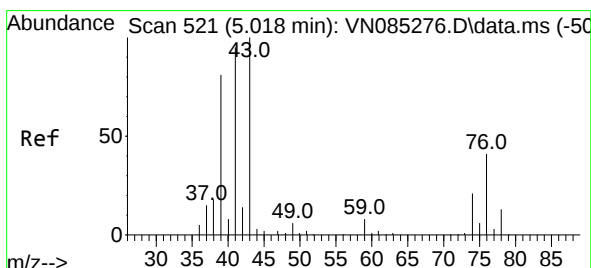
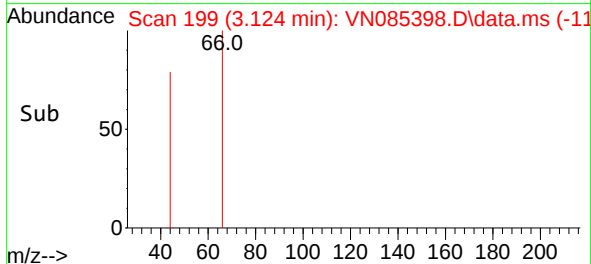
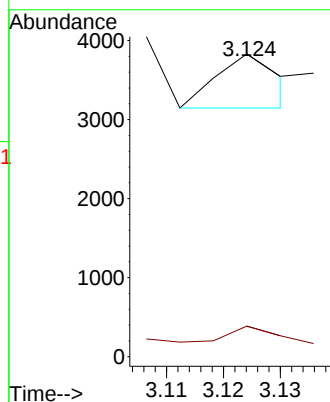
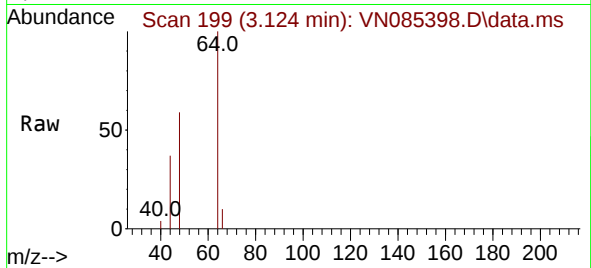




#6
Chloroethane
Concen: 0.351 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

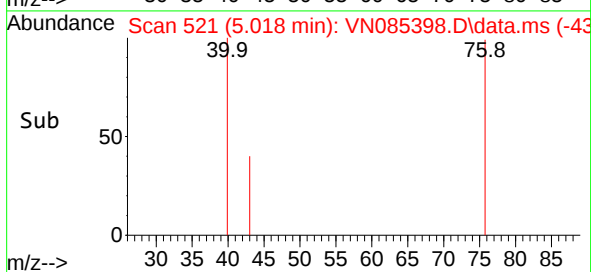
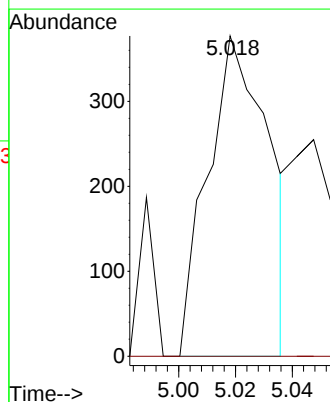
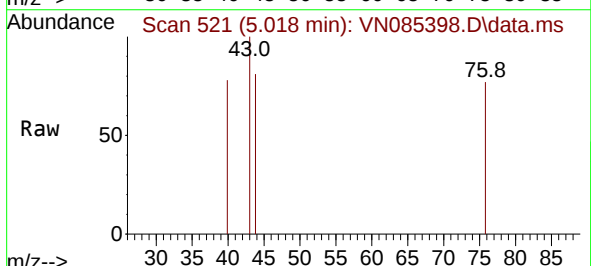
Instrument :
MSVOA_N
ClientSampleId :

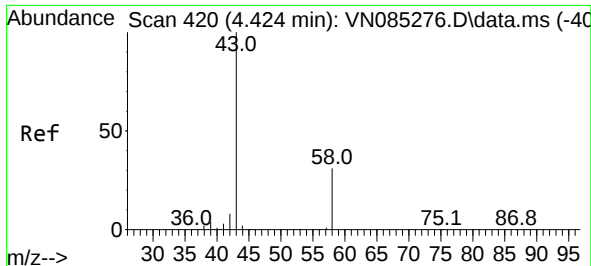
Tgt Ion: 64 Resp: 516
Ion Ratio Lower Upper
64 100
66 29.5 22.2 33.4



#12
Methyl Acetate
Concen: 0.226 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 43 Resp: 566
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#

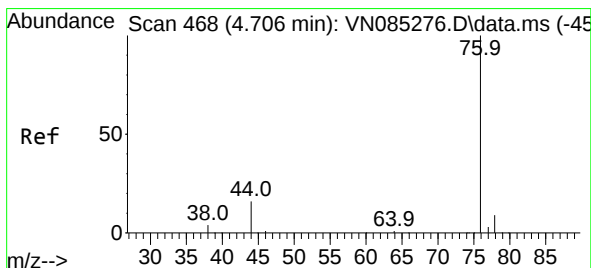
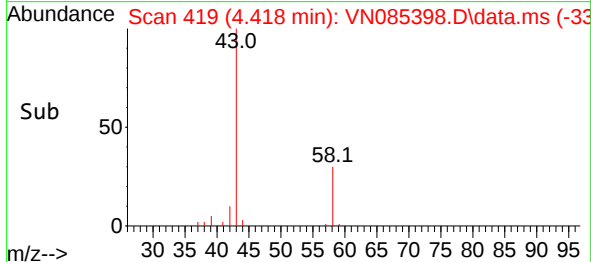
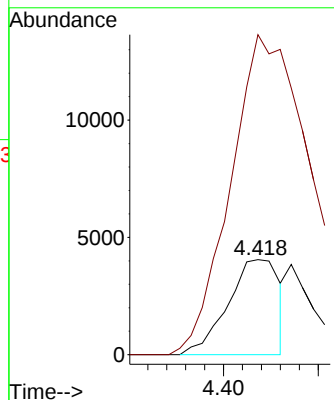
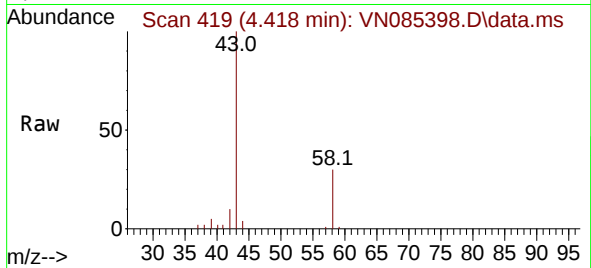




#15
Acetone
Concen: 31.266 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

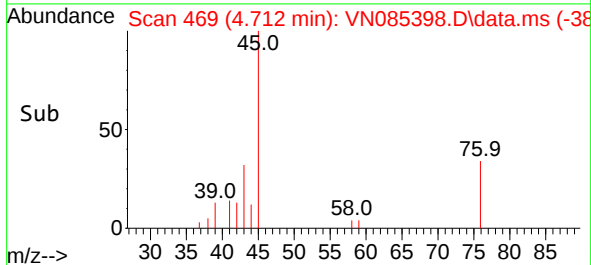
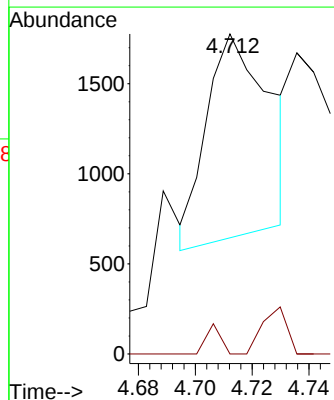
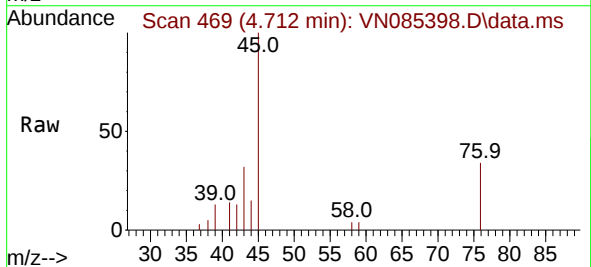
Instrument :
MSVOA_N
ClientSampleId :

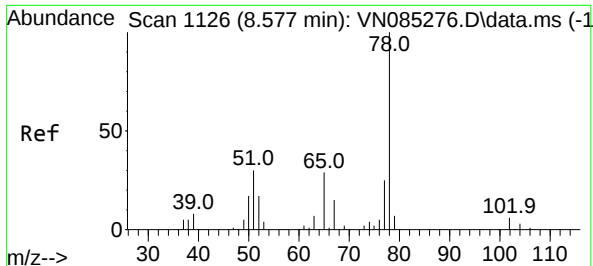
Tgt Ion: 58 Resp: 7638
Ion Ratio Lower Upper
58 100
43 330.1 258.8 388.2



#16
Carbon Disulfide
Concen: 0.338 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 76 Resp: 1724
Ion Ratio Lower Upper
76 100
78 0.0 6.6 9.8#





#27

1,2-Dichloroethane-d4

Concen: 29.896 ug/l

RT: 8.571 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

Instrument :

MSVOA_N

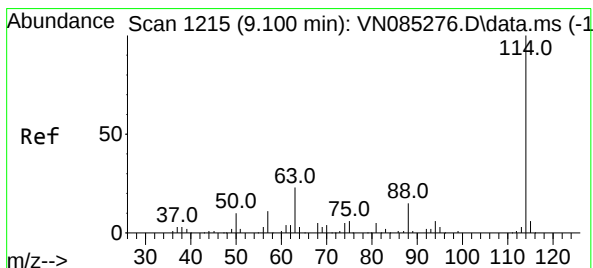
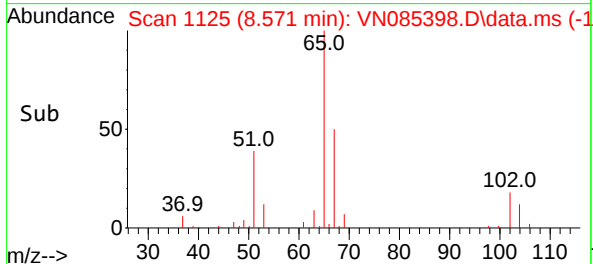
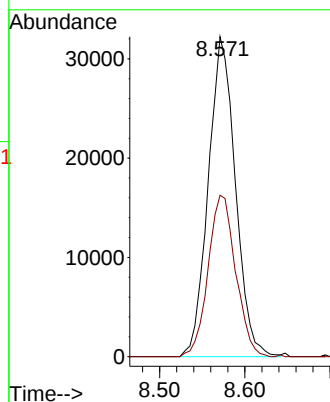
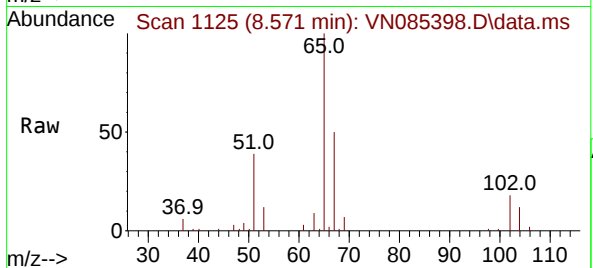
ClientSampleId :

Tgt Ion: 65 Resp: 71377

Ion Ratio Lower Upper

65 100

67 51.2 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

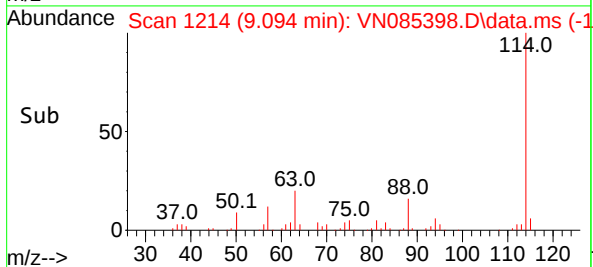
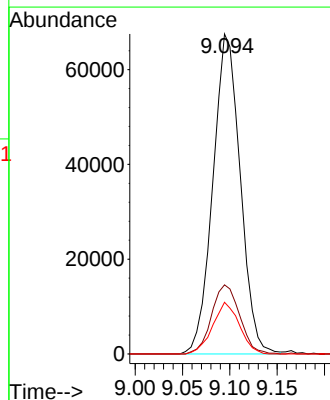
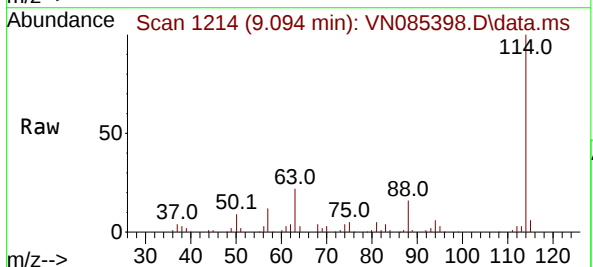
Tgt Ion: 114 Resp: 135904

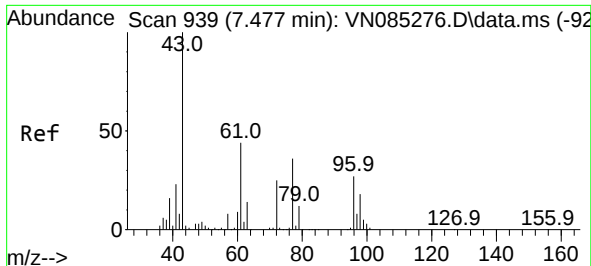
Ion Ratio Lower Upper

114 100

63 22.2 18.0 27.0

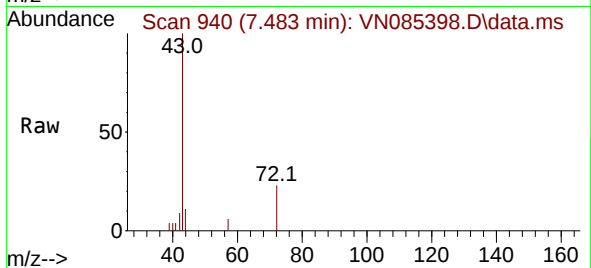
88 15.8 12.9 19.3



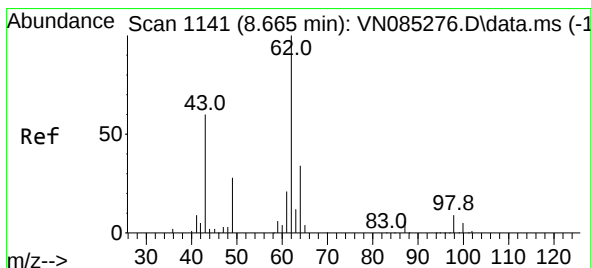
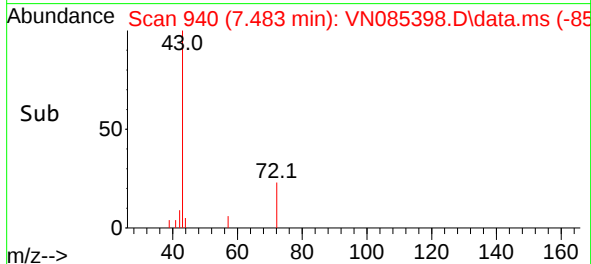
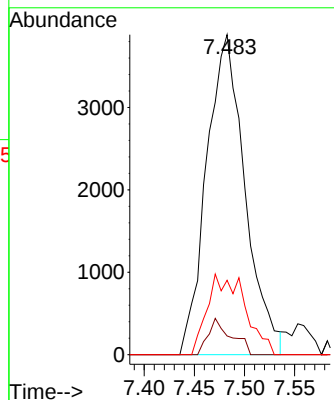


#30
2-Butanone
Concen: 8.321 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Instrument :
MSVOA_N
ClientSampleId :

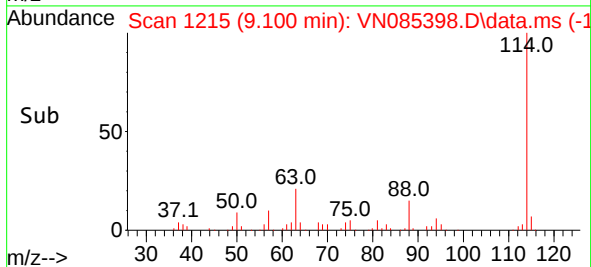
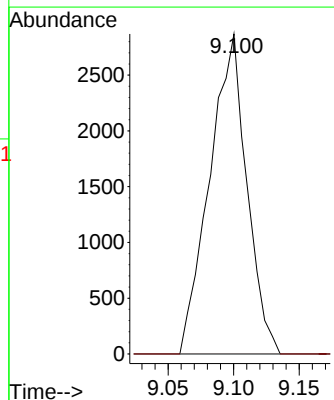
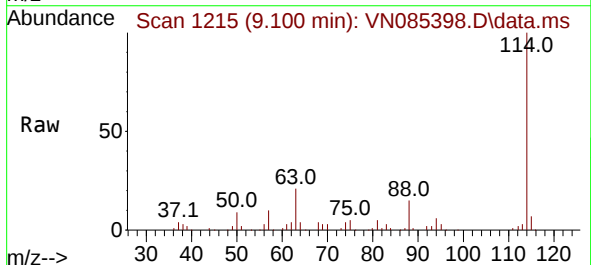


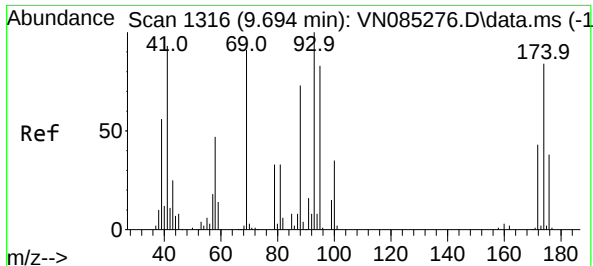
Tgt Ion: 43 Resp: 10364
Ion Ratio Lower Upper
43 100
57 6.1 6.2 9.2#
72 16.0 19.9 29.9#



#36
1,2-Dichloroethane
Concen: 2.098 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.435 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 62 Resp: 5659
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#





#45

1,4-Dioxane

Concen: 1.983 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.341 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

Instrument :

MSVOA_N

ClientSampleId :

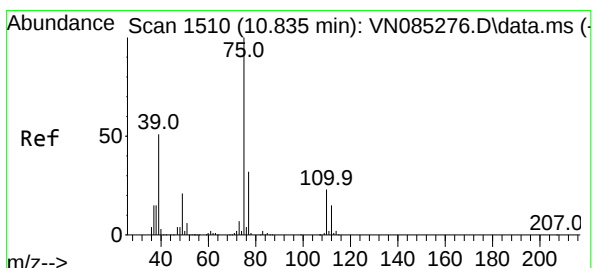
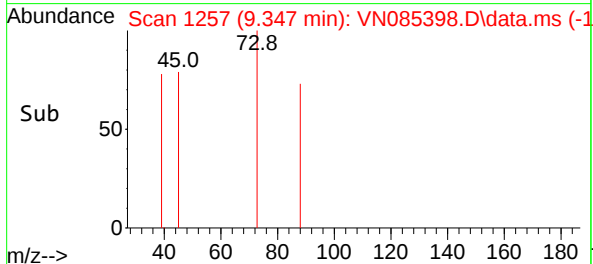
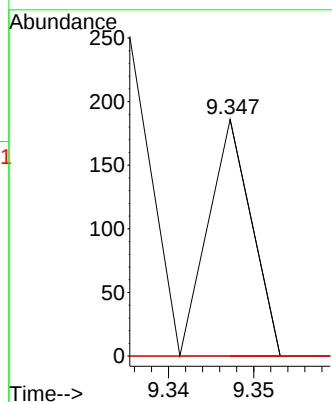
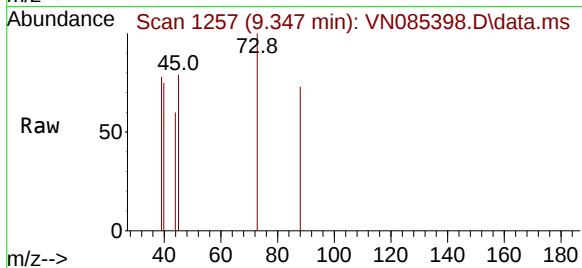
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 98.5 25.4 38.2#

58 0.0 58.5 87.7#



#48

t-1,3-Dichloropropene

Concen: 1.257 ug/l

RT: 10.624 min Scan# 1474

Delta R.T. -0.206 min

Lab File: VN085398.D

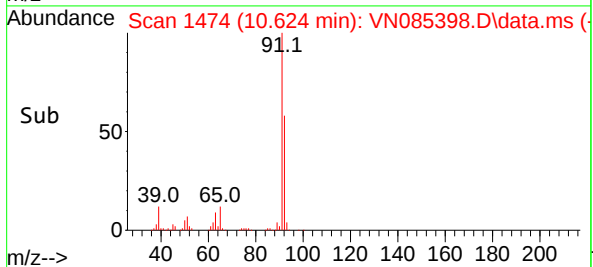
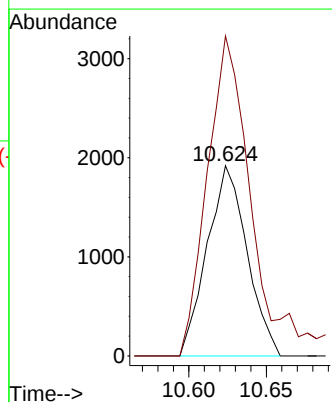
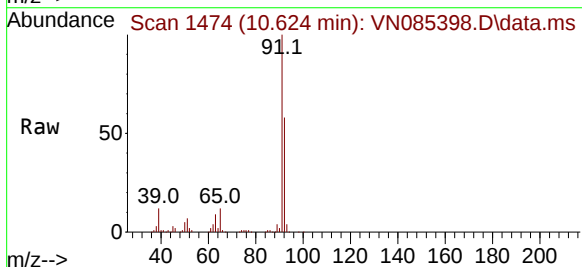
Acq: 07 Jan 2025 14:44

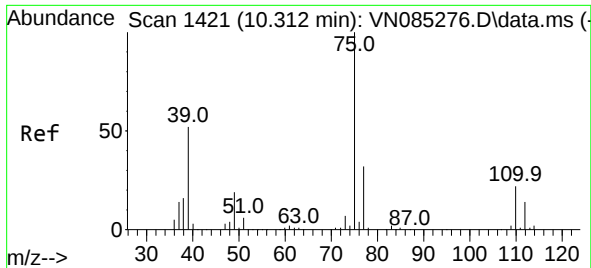
Tgt Ion: 75 Resp: 3434

Ion Ratio Lower Upper

75 100

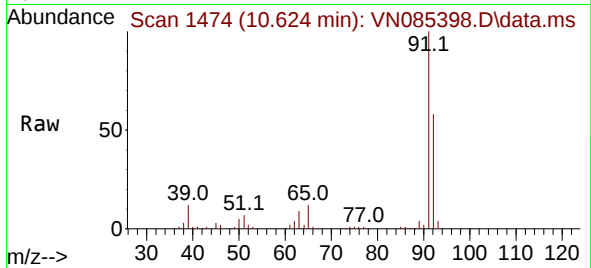
77 168.2 23.8 35.6#



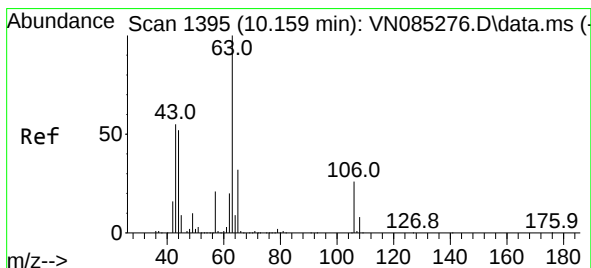
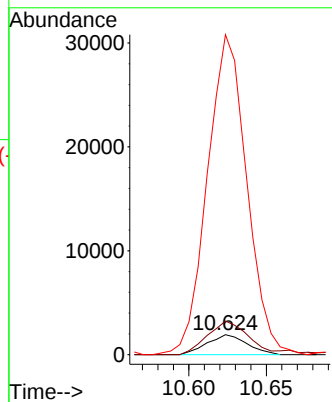
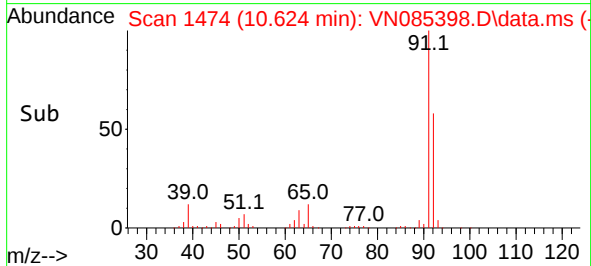


#49
 cis-1,3-Dichloropropene
 Concen: 1.170 ug/l
 RT: 10.624 min Scan# 1421
 Delta R.T. 0.312 min
 Lab File: VN085398.D
 Acq: 07 Jan 2025 14:44

Instrument :
 MSVOA_N
 ClientSampleId :

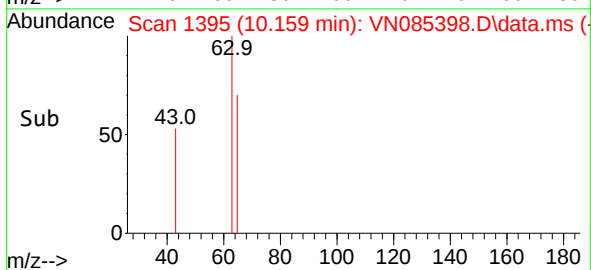
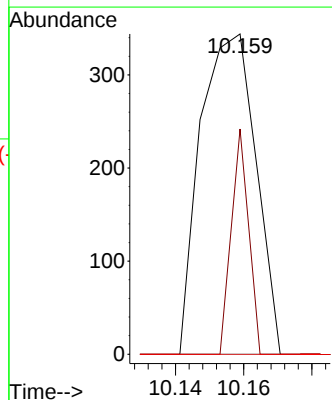
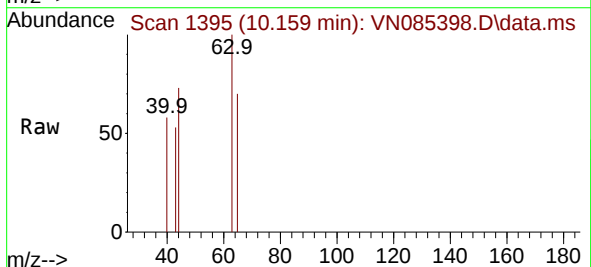


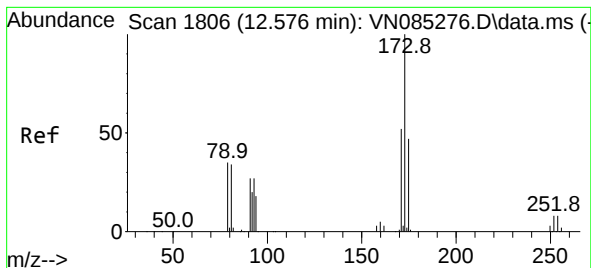
Tgt Ion: 75 Resp: 3434
 Ion Ratio Lower Upper
 75 100
 77 168.2 26.6 40.0#
 39 1564.9 41.9 62.9#



#55
 2-Chloroethyl vinyl ether
 Concen: 0.288 ug/l
 RT: 10.159 min Scan# 1395
 Delta R.T. 0.000 min
 Lab File: VN085398.D
 Acq: 07 Jan 2025 14:44

Tgt Ion: 63 Resp: 388
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.9 38.9#
 106 0.0 21.2 31.8#





#56

Bromoform

Concen: 0.401 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.271 min

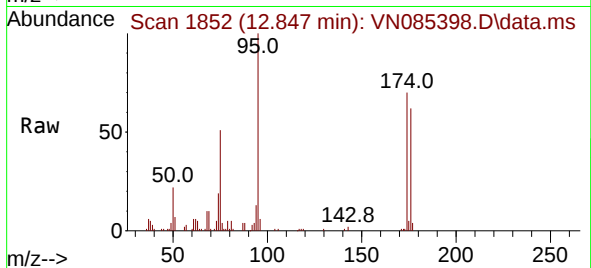
Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

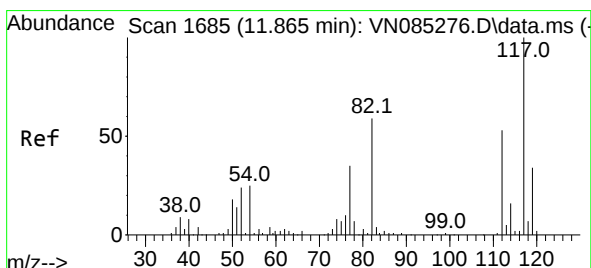
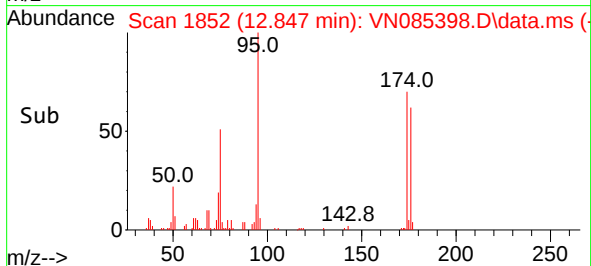
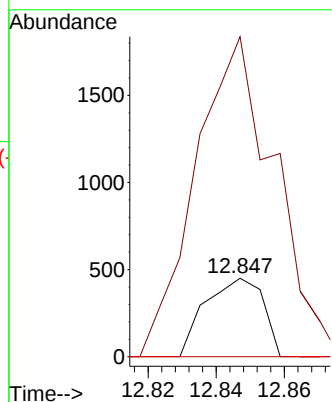
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	173	Resp:	530
Ion Ratio	Lower	Upper	
173	100		
175	559.1	39.4	59.2#
254	0.0	7.2	10.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

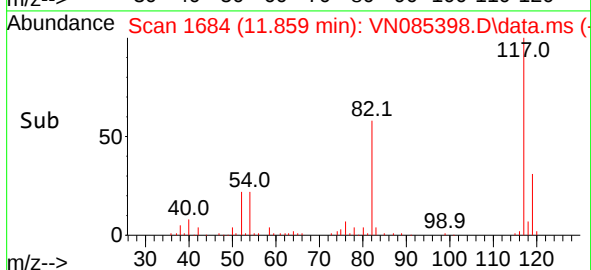
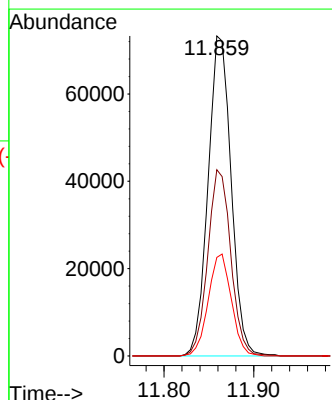
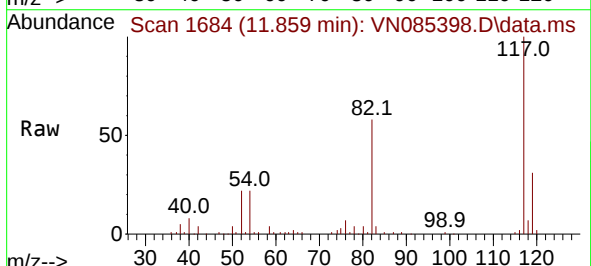
RT: 11.859 min Scan# 1684

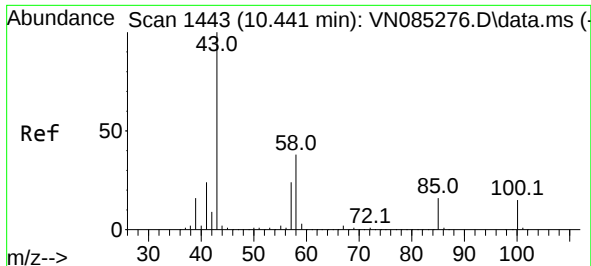
Delta R.T. -0.006 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

Tgt Ion:	117	Resp:	130942
Ion Ratio	Lower	Upper	
117	100		
82	58.2	47.4	71.0
119	31.9	25.3	37.9

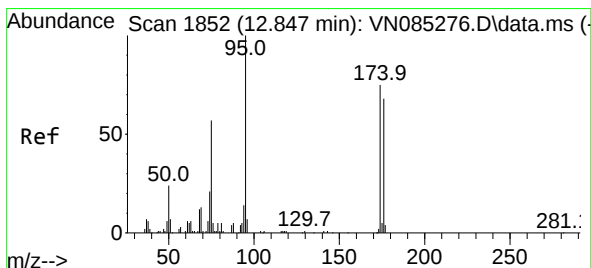
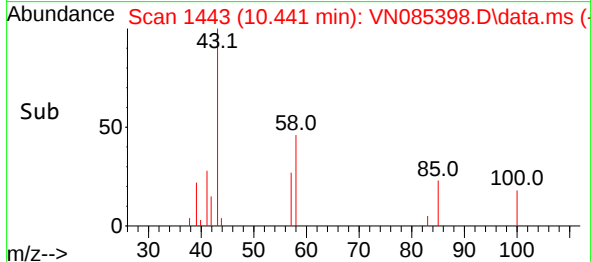
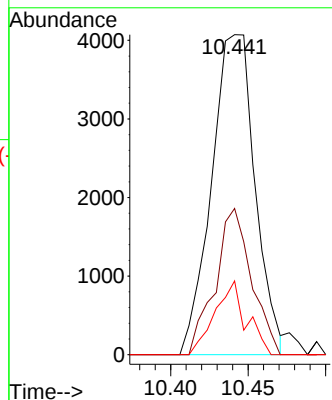
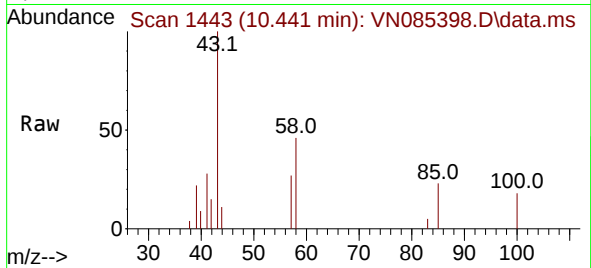




#58
4-Methyl-2-Pentanone
Concen: 2.997 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

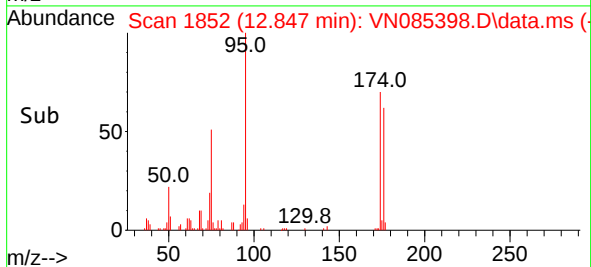
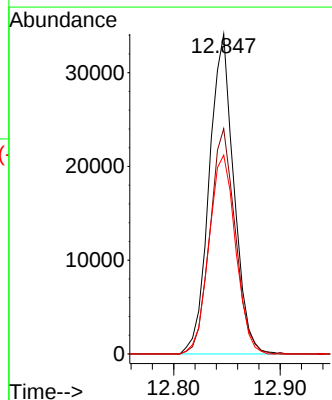
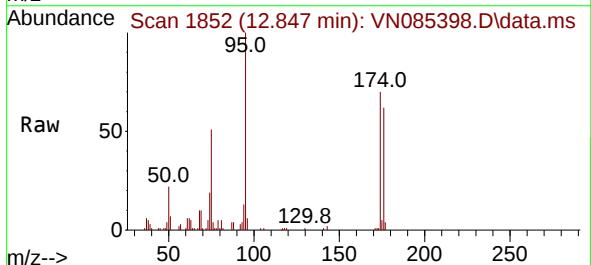
Instrument :
MSVOA_N
ClientSampleId :

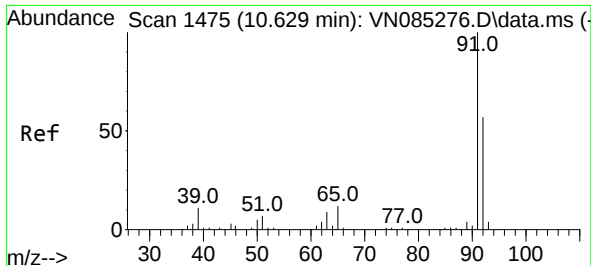
Tgt Ion:	43	Resp:	7956
Ion	Ratio	Lower	Upper
43	100		
58	38.1	29.2	43.8
85	13.6	12.8	19.2



#60
4-Bromofluorobenzene
Concen: 25.807 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion:	95	Resp:	54737
Ion	Ratio	Lower	Upper
95	100		
174	72.4	57.8	86.8
176	67.2	57.1	85.7

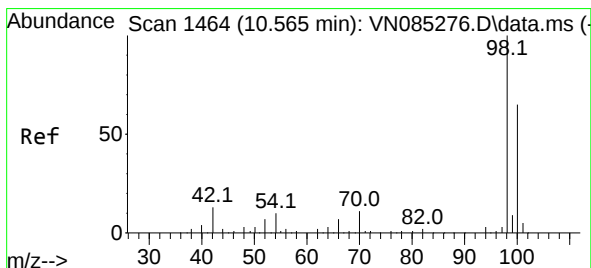
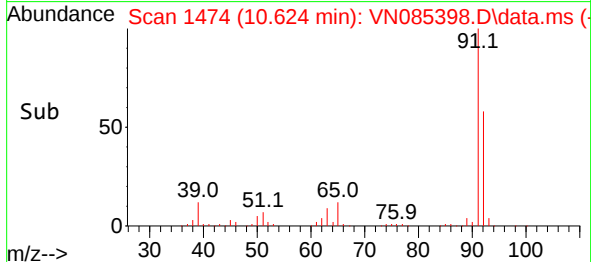
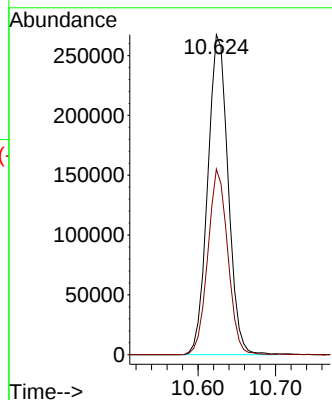
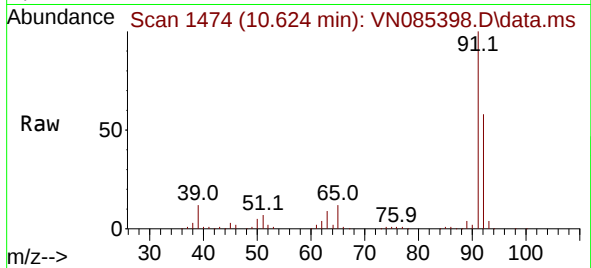




#62
Toluene
Concen: 60.773 ug/l
RT: 10.624 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

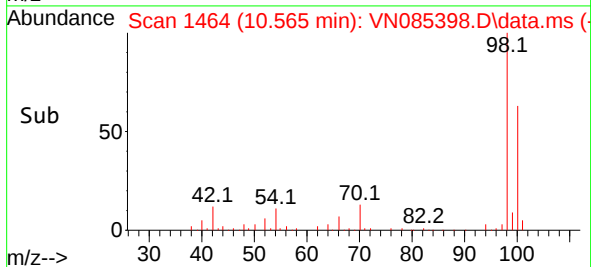
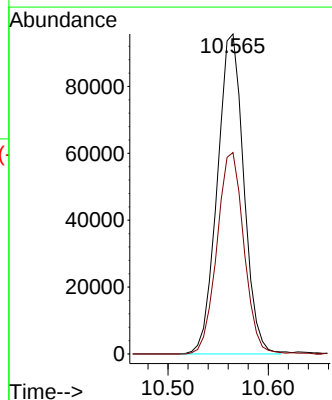
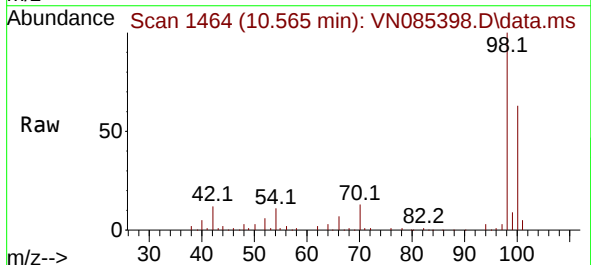
Instrument :
MSVOA_N
ClientSampleId :

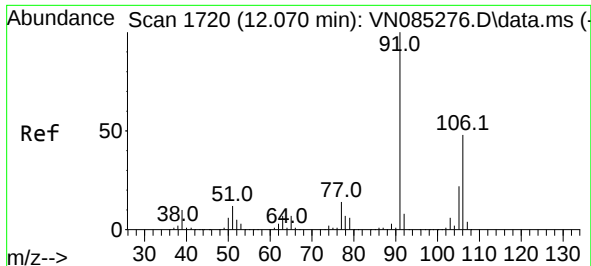
Tgt Ion: 91 Resp: 488888
Ion Ratio Lower Upper
91 100
92 56.7 45.9 68.9



#63
Toluene-d8
Concen: 27.367 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 98 Resp: 174984
Ion Ratio Lower Upper
98 100
100 64.0 50.8 76.2





#67

m/p-Xylenes

Concen: 0.361 ug/l

RT: 12.059 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

Instrument :

MSVOA_N

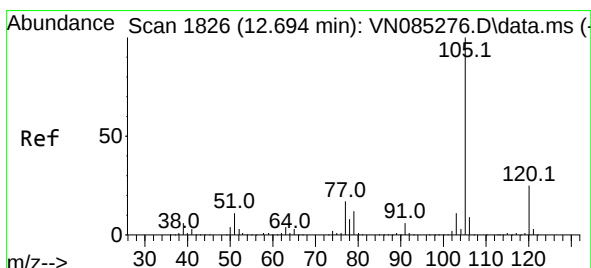
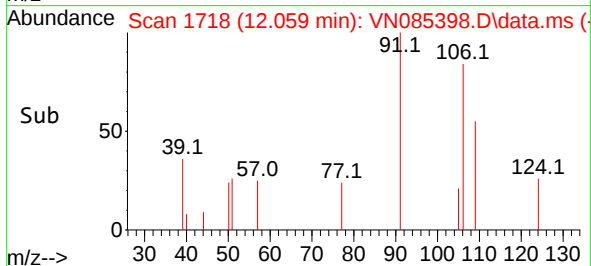
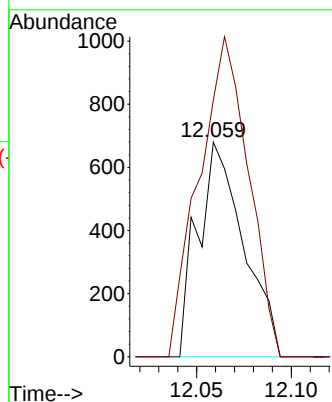
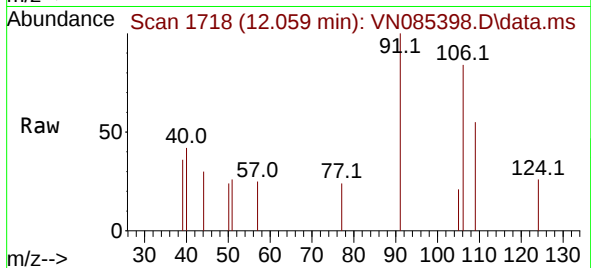
ClientSampleId :

Tgt Ion:106 Resp: 1147

Ion Ratio Lower Upper

106 100

91 160.5 167.0 250.4#



#70

Isopropylbenzene

Concen: 0.252 ug/l

RT: 13.094 min Scan# 1894

Delta R.T. 0.400 min

Lab File: VN085398.D

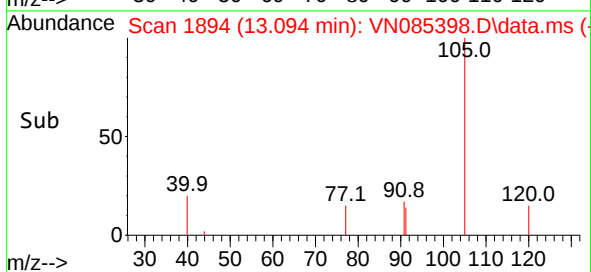
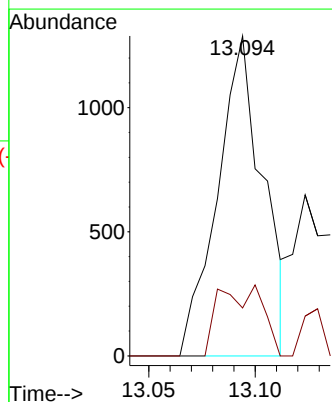
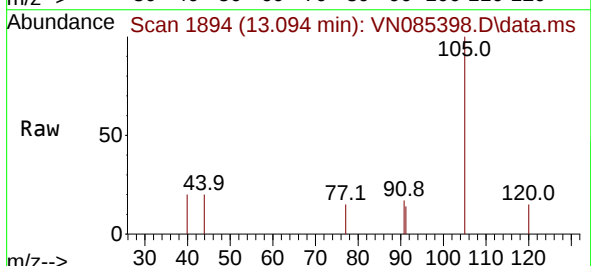
Acq: 07 Jan 2025 14:44

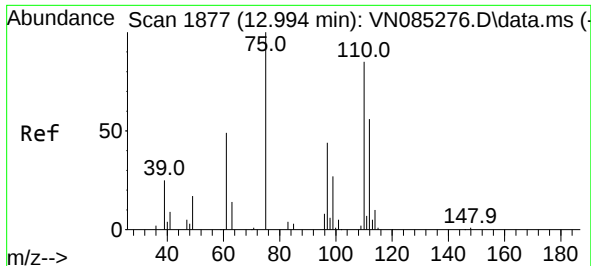
Tgt Ion:105 Resp: 1914

Ion Ratio Lower Upper

105 100

120 8.2 18.4 34.2#

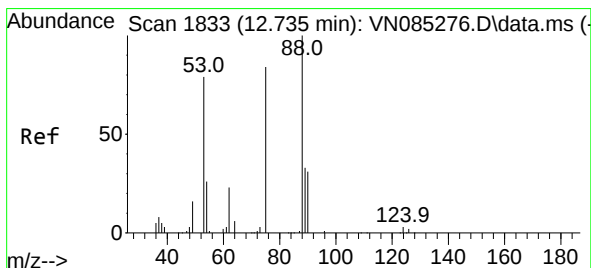
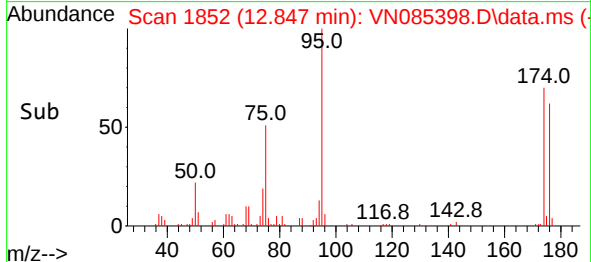
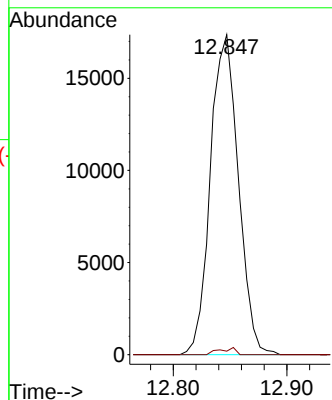
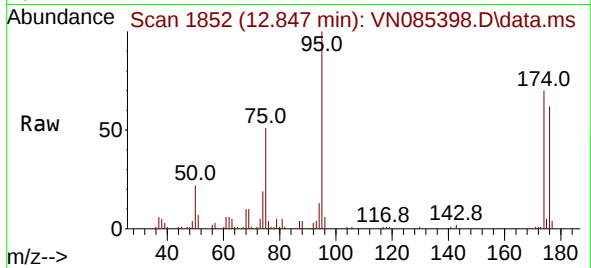




#72
1,2,3-Trichloropropane
Concen: 12.963 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

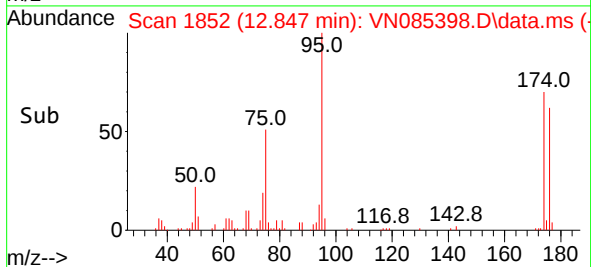
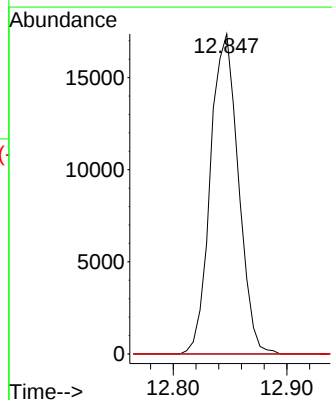
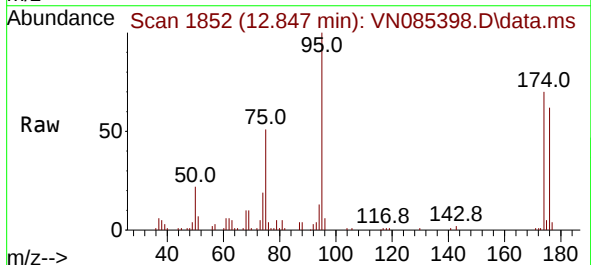
Instrument :
MSVOA_N
ClientSampleId :

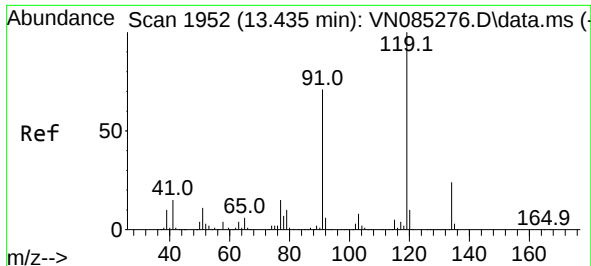
Tgt Ion: 75 Resp: 29720
Ion Ratio Lower Upper
75 100
77 0.5 0.0 407.2



#77
t-1,4-Dichloro-2-butene
Concen: 31.718 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion: 75 Resp: 29720
Ion Ratio Lower Upper
75 100
53 0.0 54.9 164.5#
89 0.0 22.8 68.3#





#79

tert-butylbenzene

Concen: 1.094 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.294 min

Lab File: VN085398.D

Acq: 07 Jan 2025 14:44

Instrument :

MSVOA_N

ClientSampleId :

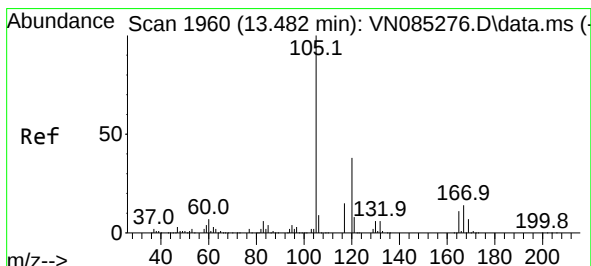
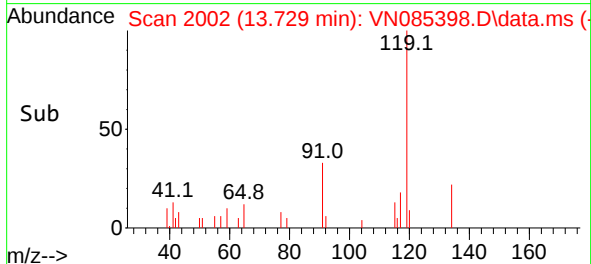
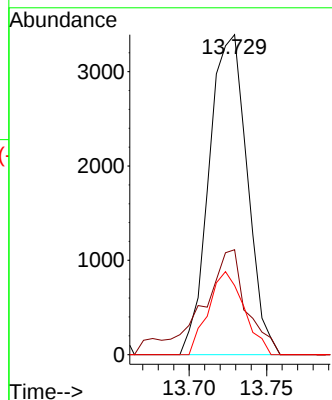
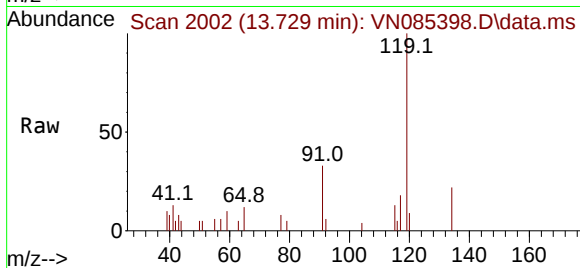
Tgt Ion:119 Resp: 5798

Ion Ratio Lower Upper

119 100

91 36.4 0.0 142.0

134 24.2 0.0 49.0



#80

1,2,4-Trimethylbenzene

Concen: 0.642 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN085398.D

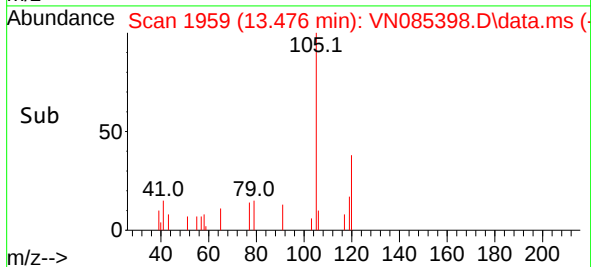
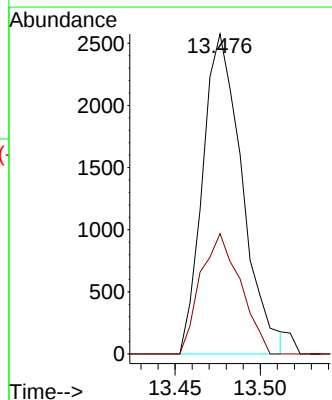
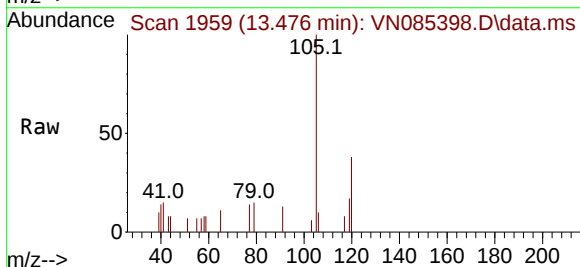
Acq: 07 Jan 2025 14:44

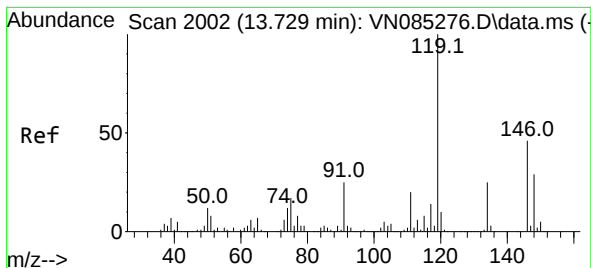
Tgt Ion:105 Resp: 4139

Ion Ratio Lower Upper

105 100

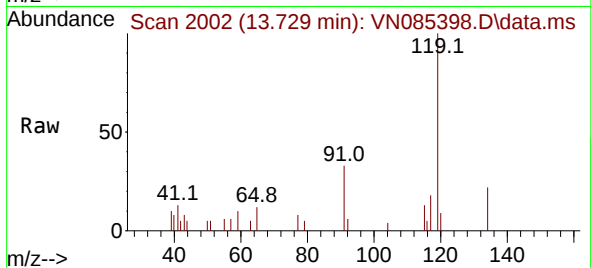
120 38.2 0.0 89.8



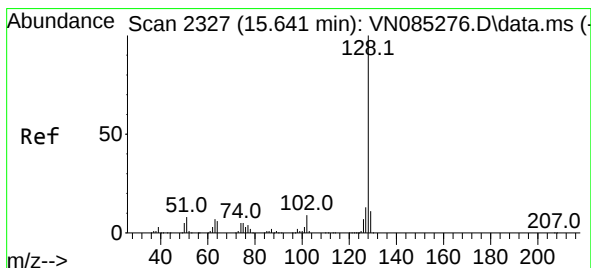
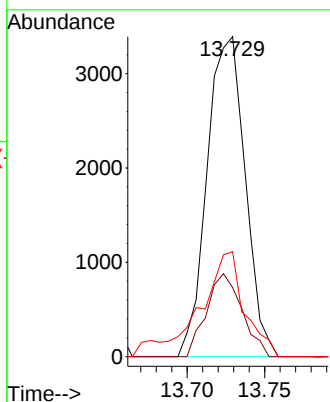
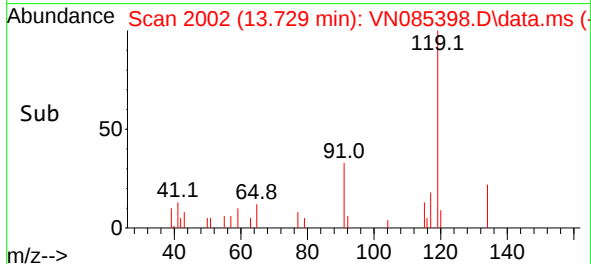


#82
p-Isopropyltoluene
Concen: 0.920 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	119	Resp:	5798
Ion	Ratio	Lower	Upper
119	100		
134	24.2	0.0	51.4
91	36.4	0.0	51.4



#91
Naphthalene
Concen: 0.656 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085398.D
Acq: 07 Jan 2025 14:44

Tgt Ion:	128	Resp:	3322
Ion	Ratio	Lower	Upper
128	100		
127	6.6	10.6	16.0#
129	6.4	8.6	13.0#

