

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080525\
 Data File : VN087462.D
 Acq On : 05 Aug 2025 17:53
 Operator : JC\MD
 Sample : Q2771-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Aug 06 02:43:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

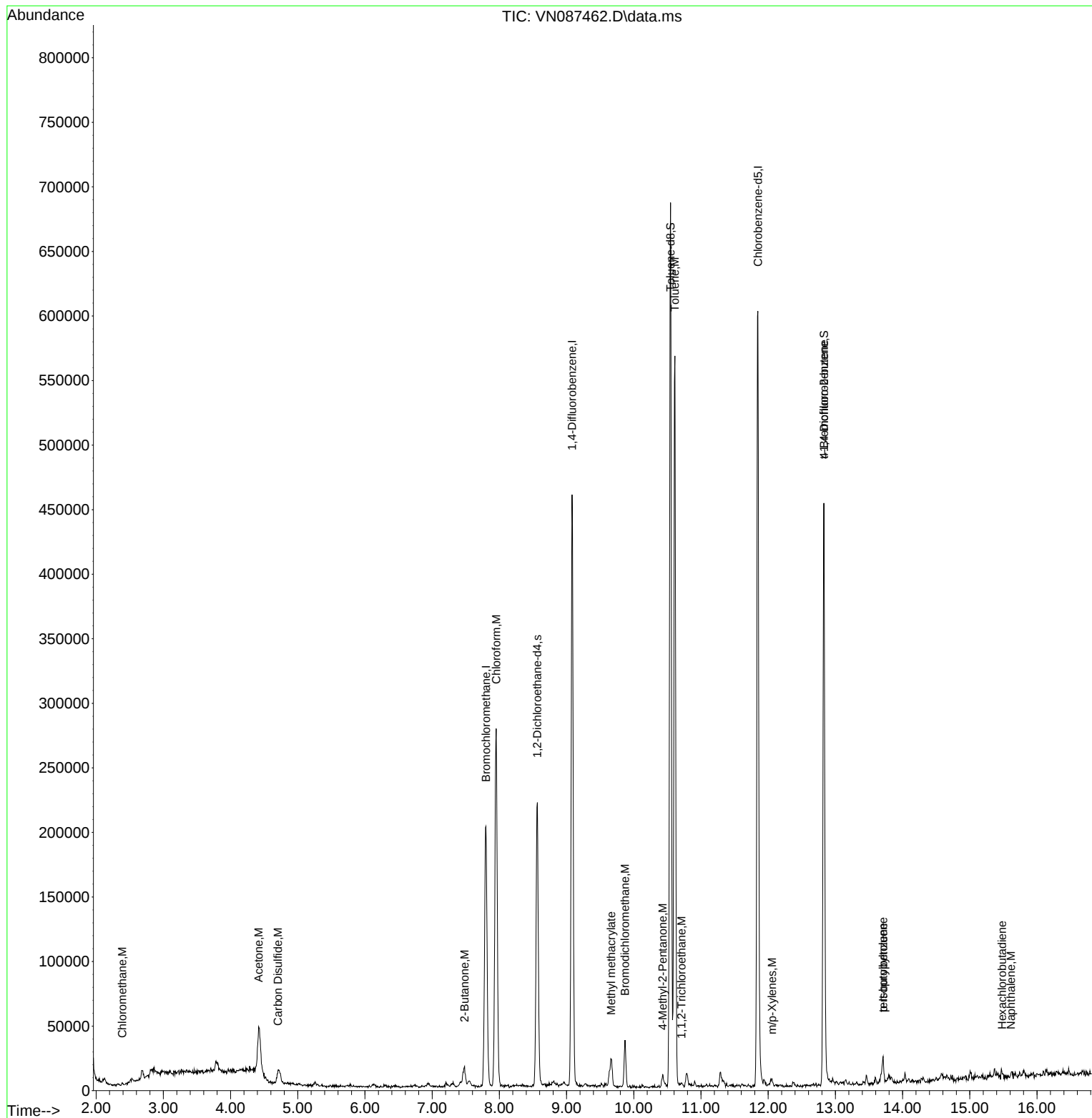
Internal Standards						
1) Bromochloromethane	7.800	128	63498	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	368676	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	324794	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	187070	31.941	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 106.467%	
60) 4-Bromofluorobenzene	12.829	95	157159	28.117	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 93.733%	
63) Toluene-d8	10.547	98	451558	30.216	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.733%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1478	0.347	ug/l	98
15) Acetone	4.418	58	19149	23.915	ug/l	94
16) Carbon Disulfide	4.706	76	6044	0.560	ug/l #	85
25) Chloroform	7.953	83	266729	30.613	ug/l	99
30) 2-Butanone	7.483	43	23874	5.386	ug/l #	93
41) Bromodichloromethane	9.871	83	22253	2.933	ug/l #	92
46) Methyl methacrylate	9.665	41	13479	1.967	ug/l	88
50) 1,1,2-Trichloroethane	10.712	97	1029	0.223	ug/l #	16
58) 4-Methyl-2-Pentanone	10.429	43	7265	0.870	ug/l #	95
62) Toluene	10.612	91	415924	20.748	ug/l	100
67) m/p-Xylenes	12.059	106	1781	0.217	ug/l	92
77) t-1,4-Dichloro-2-butene	12.829	75	92592	37.383	ug/l #	3
79) tert-butylbenzene	13.712	119	10229	0.691	ug/l	63
82) p-Isopropyltoluene	13.712	119	10229	0.572	ug/l	93
90) Hexachlorobutadiene	15.482	225	613	0.305	ug/l	80
91) Naphthalene	15.611	128	4505	0.229	ug/l #	82

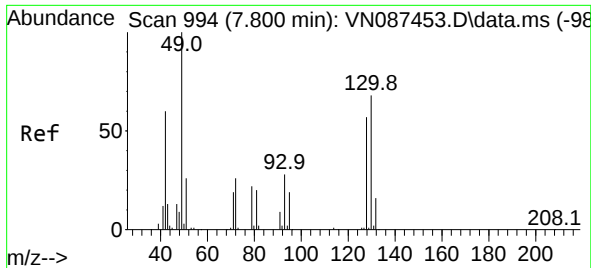
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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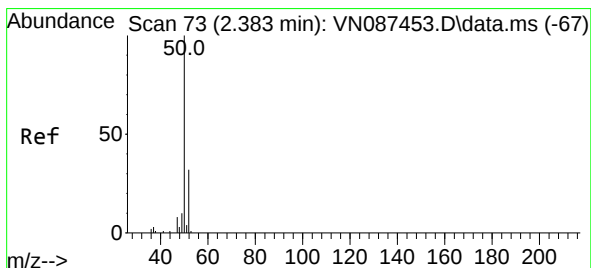
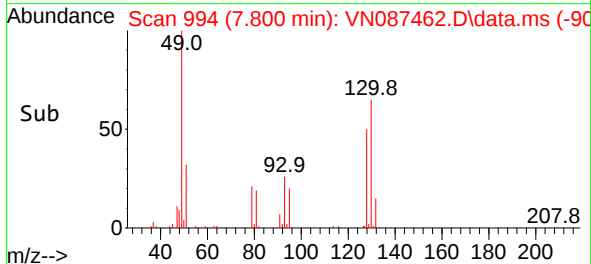
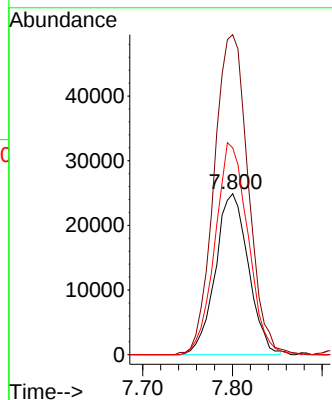
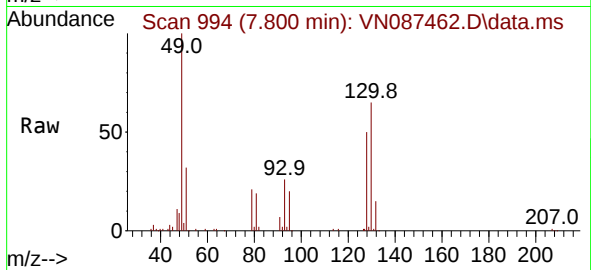




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

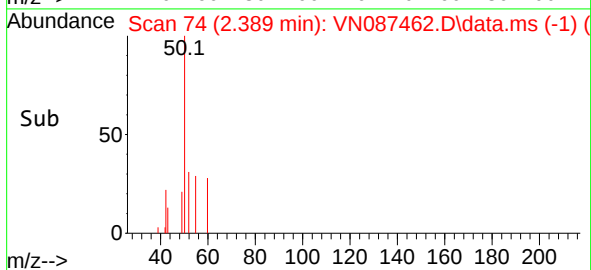
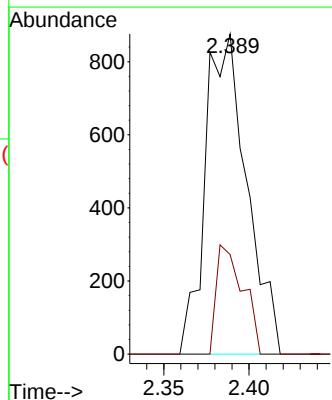
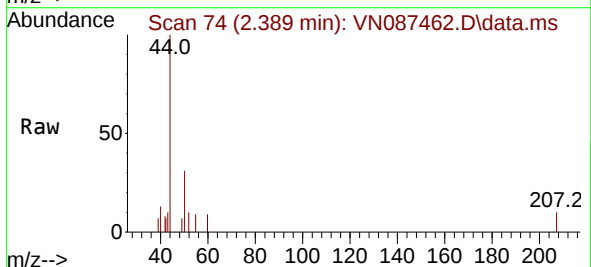
Instrument :
MSVOA_N
ClientSampleId :
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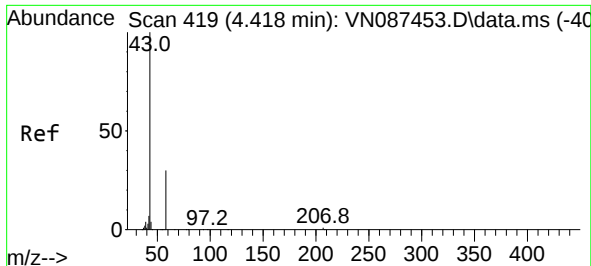
Tgt Ion:128 Resp: 63498
Ion Ratio Lower Upper
128 100
49 206.1 0.0 494.8
130 131.7 0.0 321.5



#3
Chloromethane
Concen: 0.347 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion: 50 Resp: 1478
Ion Ratio Lower Upper
50 100
52 31.1 25.8 38.6

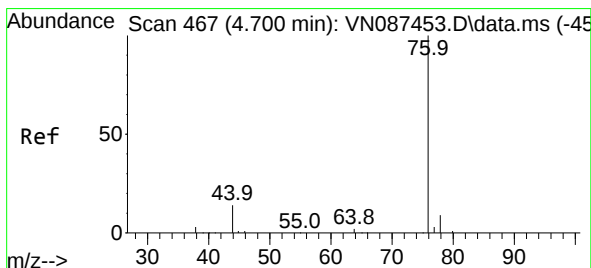
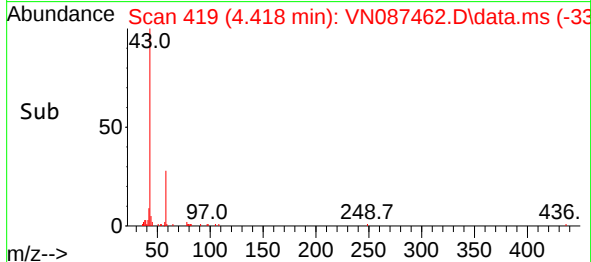
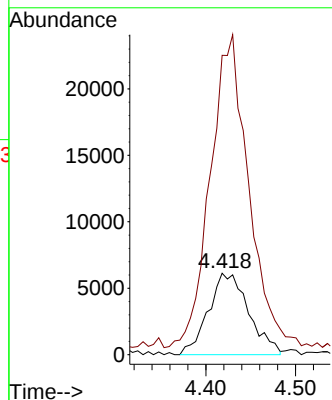
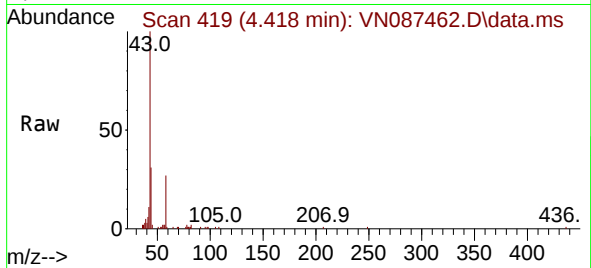




#15
Acetone
Concen: 23.915 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

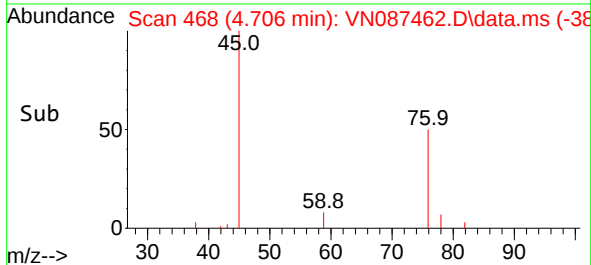
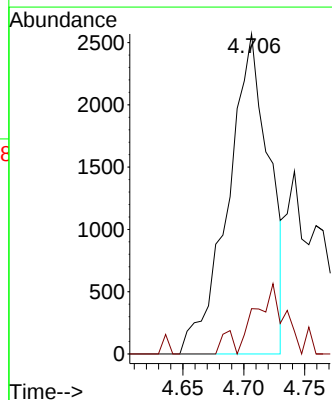
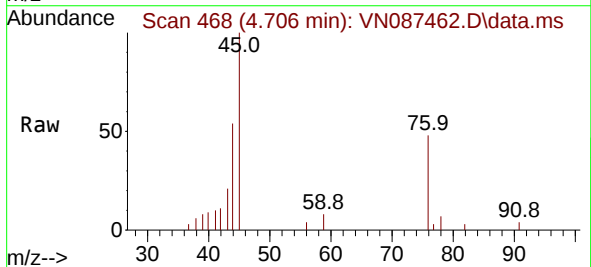
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

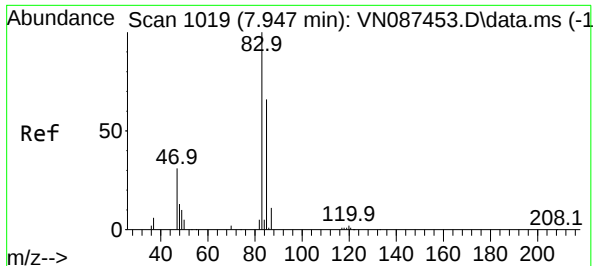
Tgt Ion: 58 Resp: 19149
Ion Ratio Lower Upper
58 100
43 349.8 268.9 403.3



#16
Carbon Disulfide
Concen: 0.560 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion: 76 Resp: 6044
Ion Ratio Lower Upper
76 100
78 14.2 7.1 10.7#





#25

Chloroform

Concen: 30.613 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. 0.006 min

Lab File: VN087462.D

Acq: 05 Aug 2025 17:53

Instrument :

MSVOA_N

ClientSampleId :

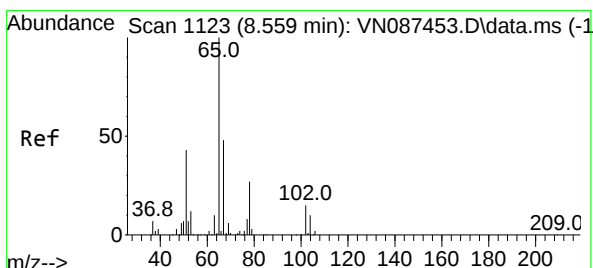
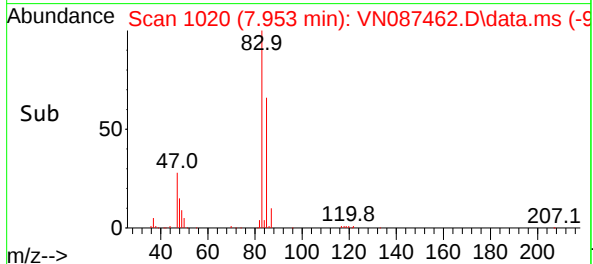
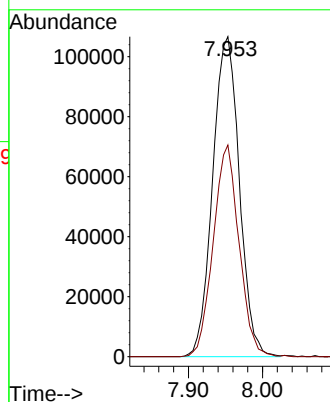
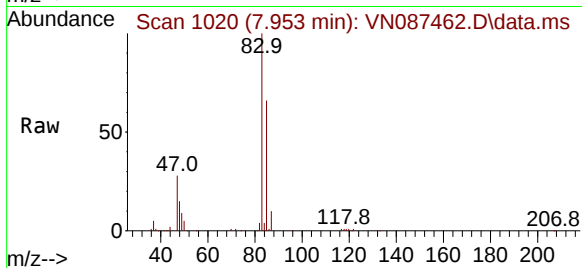
002-35TH-AVE(JUNE)

Tgt Ion: 83 Resp: 266729

Ion Ratio Lower Upper

83 100

85 66.2 52.6 78.8



#27

1,2-Dichloroethane-d4

Concen: 31.941 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN087462.D

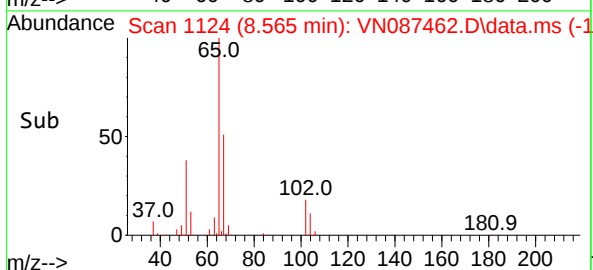
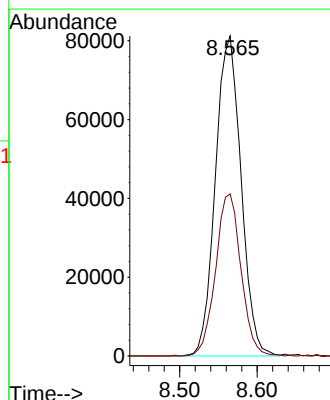
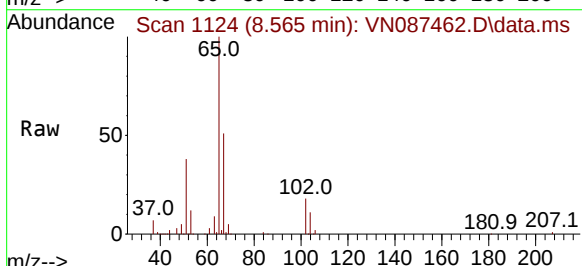
Acq: 05 Aug 2025 17:53

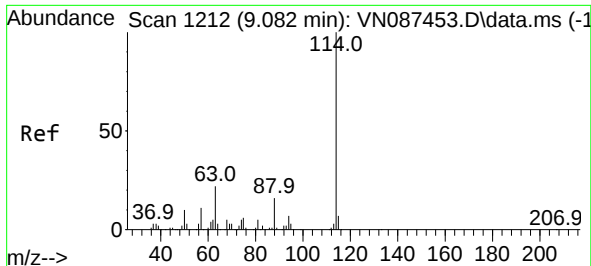
Tgt Ion: 65 Resp: 187070

Ion Ratio Lower Upper

65 100

67 50.0 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087462.D

Acq: 05 Aug 2025 17:53

Instrument :

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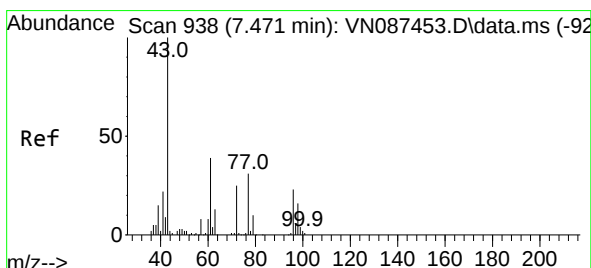
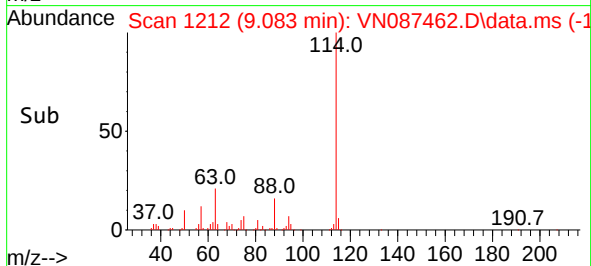
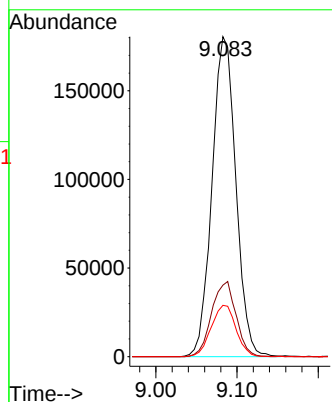
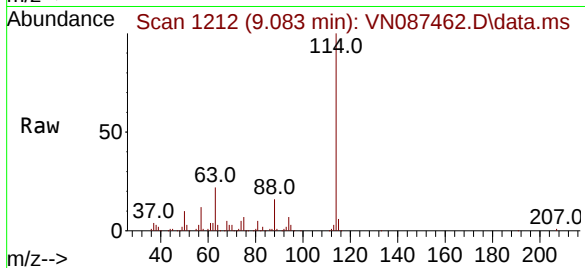
Tgt Ion:114 Resp: 368676

Ion Ratio Lower Upper

114 100

63 24.0 18.9 28.3

88 16.7 13.1 19.7



#30

2-Butanone

Concen: 5.386 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.012 min

Lab File: VN087462.D

Acq: 05 Aug 2025 17:53

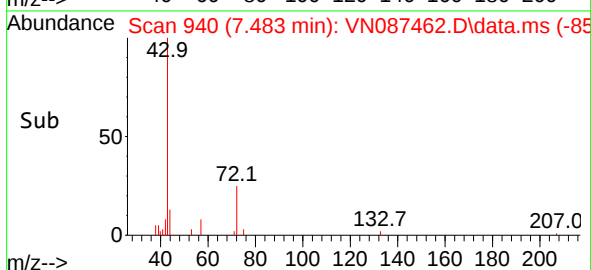
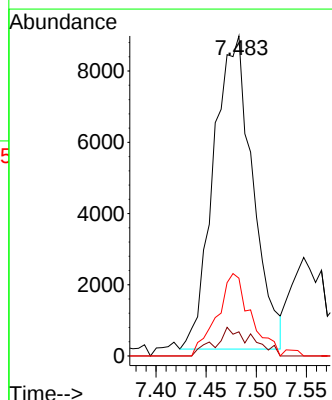
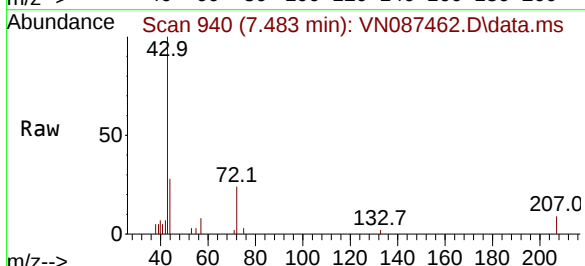
Tgt Ion: 43 Resp: 23874

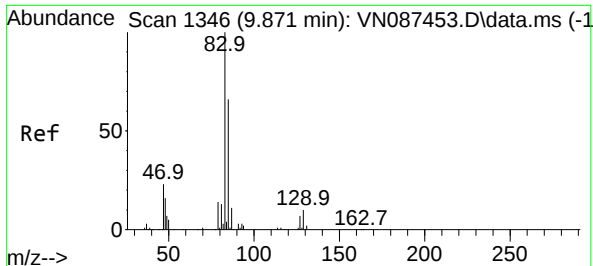
Ion Ratio Lower Upper

43 100

57 2.8 6.6 9.8#

72 22.4 19.7 29.5

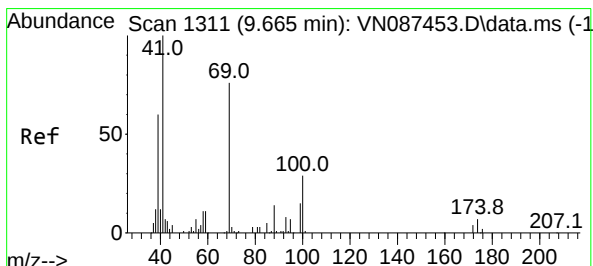
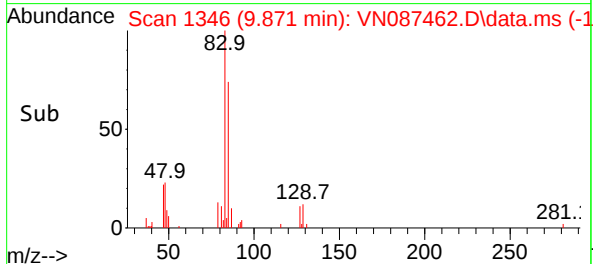
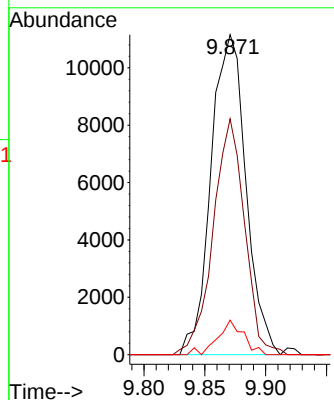
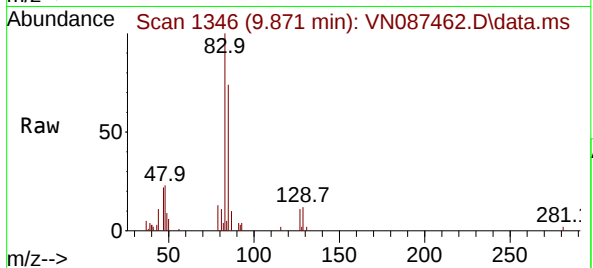




#41
Bromodichloromethane
Concen: 2.933 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

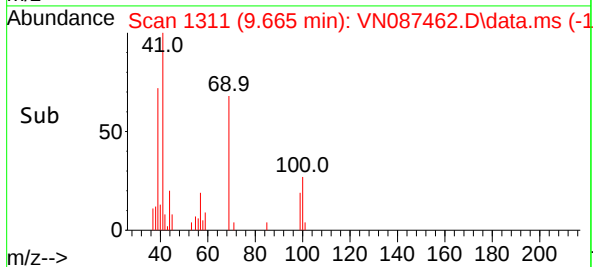
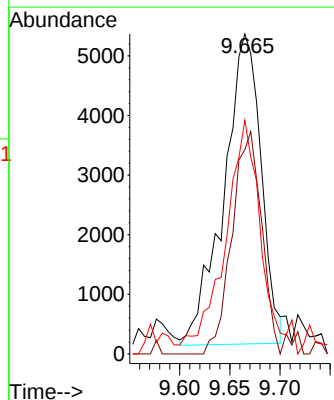
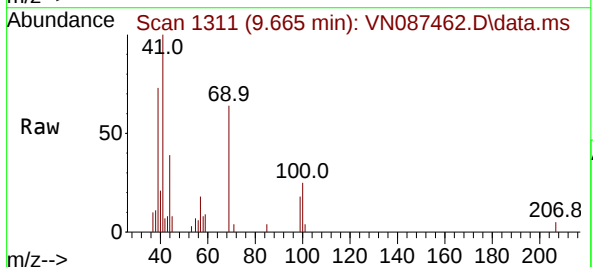
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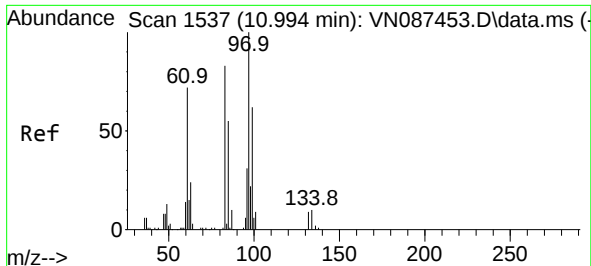
Tgt Ion: 83 Resp: 22253
Ion Ratio Lower Upper
83 100
85 72.1 52.9 79.3
127 10.8 5.8 8.6#



#46
Methyl methacrylate
Concen: 1.967 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion: 41 Resp: 13479
Ion Ratio Lower Upper
41 100
69 66.7 37.1 111.5
39 73.4 30.7 92.1

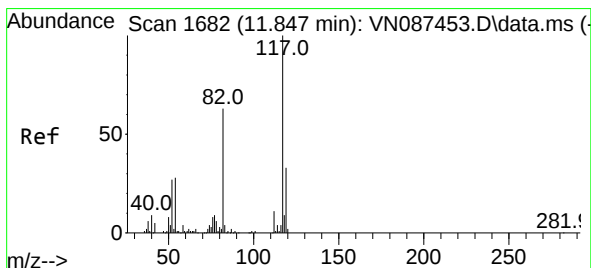
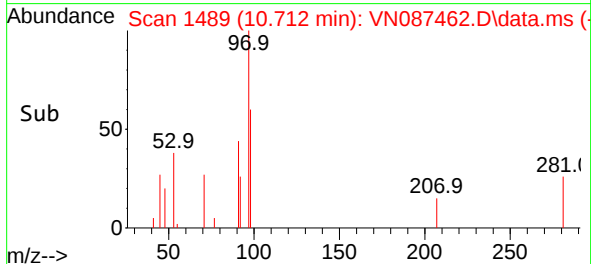
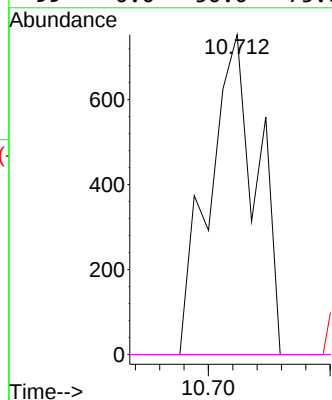
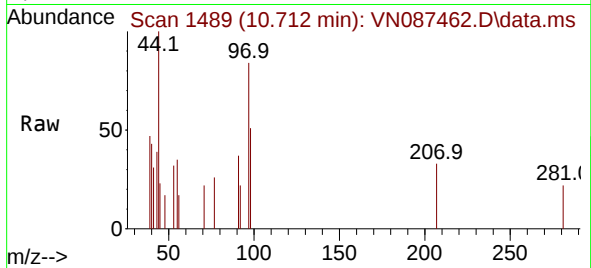




#50
1,1,2-Trichloroethane
Concen: 0.223 ug/l
RT: 10.712 min Scan# 14
Delta R.T. -0.282 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

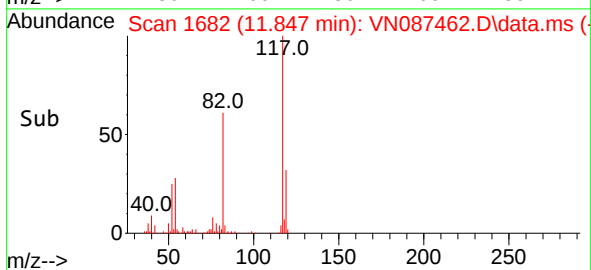
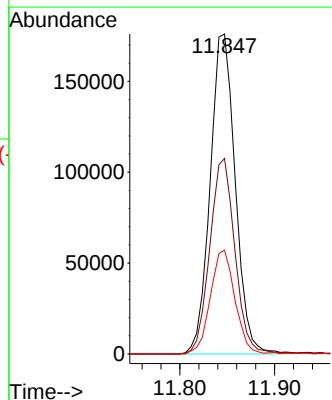
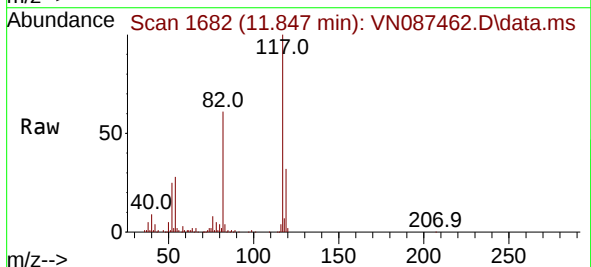
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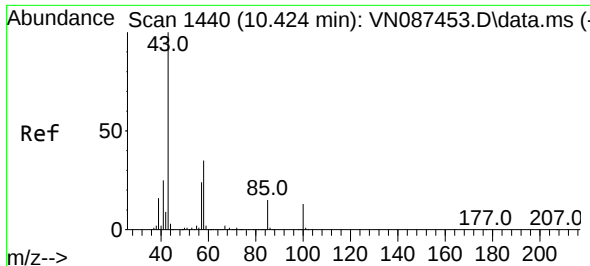
Tgt Ion: 97	Resp: 1029
Ion Ratio	Lower Upper
97 100	
83 0.0	66.2 99.2#
85 0.0	43.9 65.9#
99 0.0	50.0 75.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion:117	Resp:	324794	
Ion	Ratio	Lower	Upper
117	100		
82	61.2	49.2	73.8
119	31.6	25.7	38.5

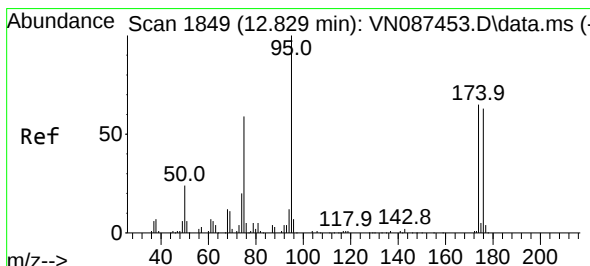
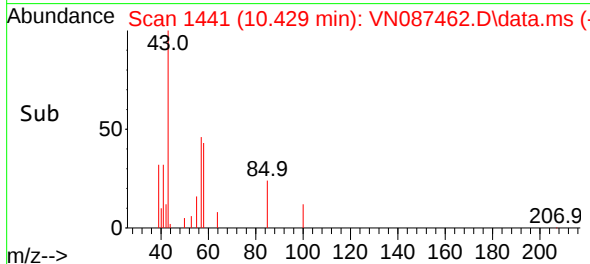
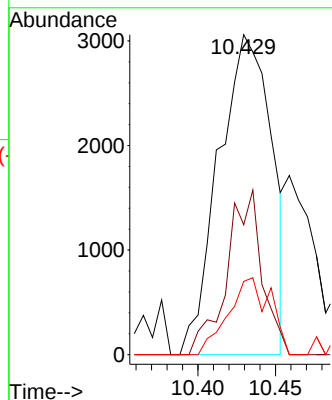
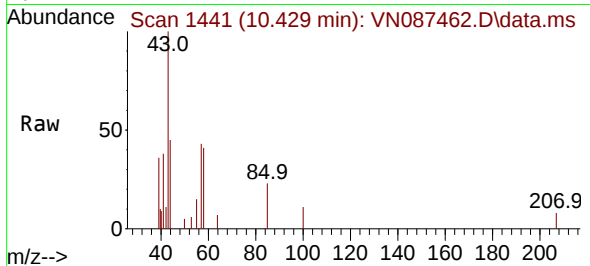




#58
 4-Methyl-2-Pentanone
 Concen: 0.870 ug/l
 RT: 10.429 min Scan# 1440
 Delta R.T. 0.006 min
 Lab File: VN087462.D
 Acq: 05 Aug 2025 17:53

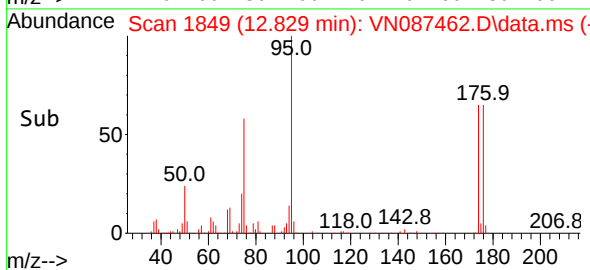
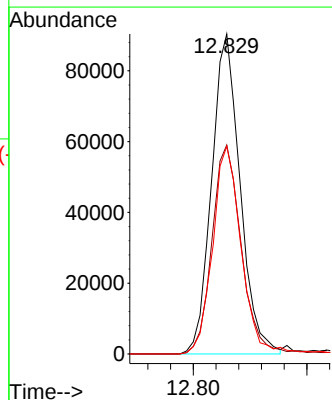
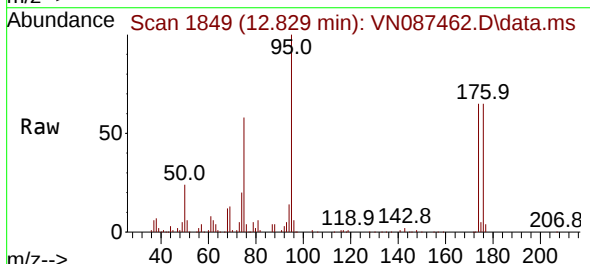
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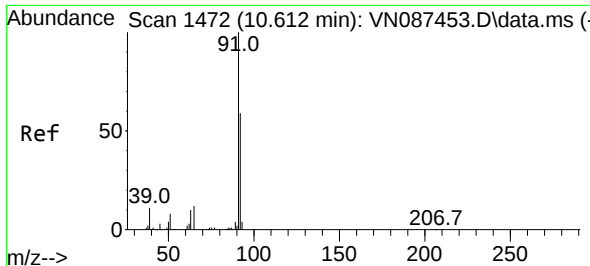
Tgt Ion:	43	Resp:	7265
Ion	Ratio	Lower	Upper
43	100		
58	34.2	29.0	43.6
85	19.1	12.7	19.1



#60
 4-Bromofluorobenzene
 Concen: 28.117 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.000 min
 Lab File: VN087462.D
 Acq: 05 Aug 2025 17:53

Tgt Ion:	95	Resp:	157159
Ion	Ratio	Lower	Upper
95	100		
174	66.7	52.3	78.5
176	64.9	49.8	74.8

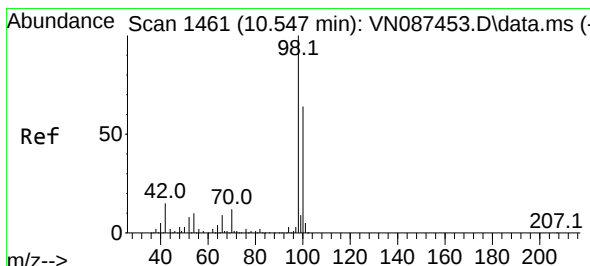
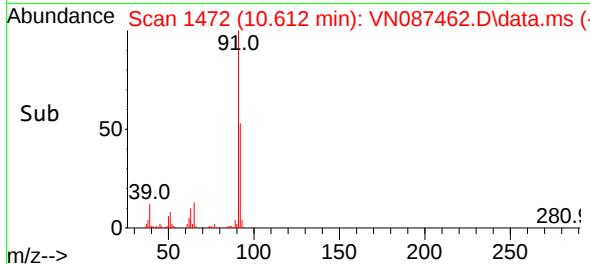
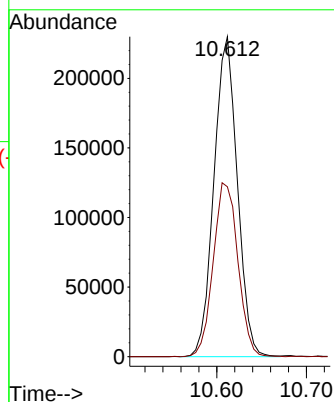
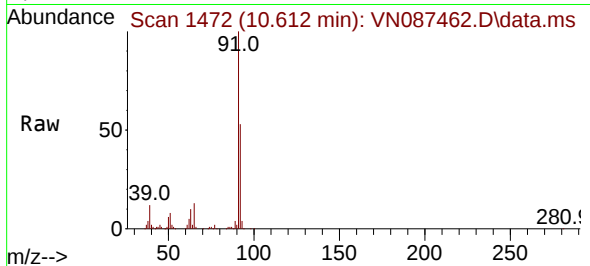




#62
Toluene
Concen: 20.748 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

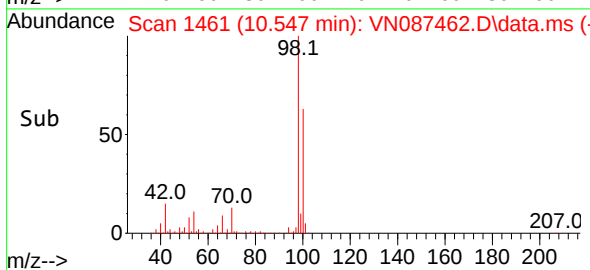
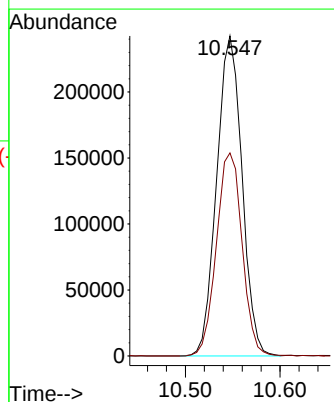
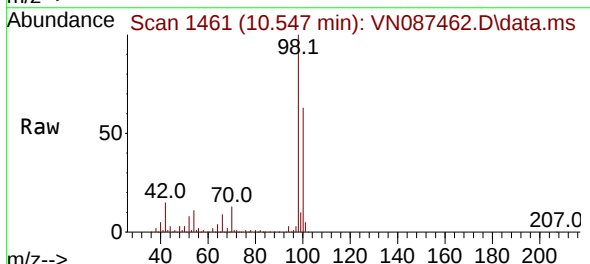
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

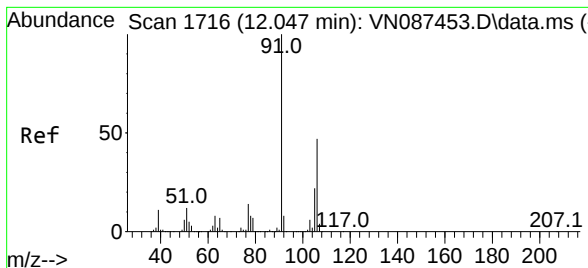
Tgt Ion: 91 Resp: 415924
Ion Ratio Lower Upper
91 100
92 57.3 45.8 68.6



#63
Toluene-d8
Concen: 30.216 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion: 98 Resp: 451558
Ion Ratio Lower Upper
98 100
100 64.2 50.5 75.7

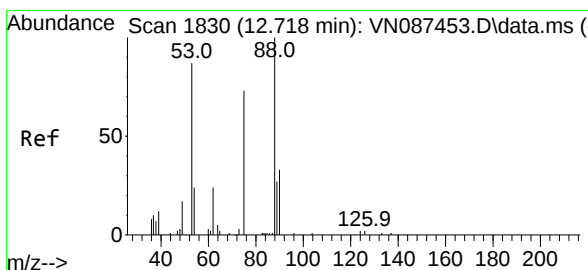
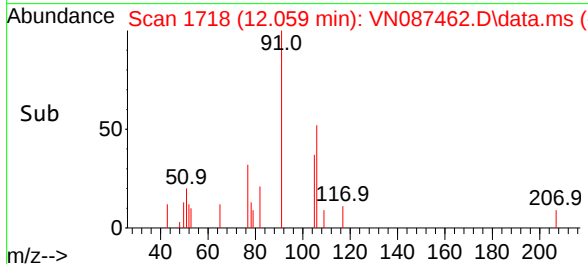
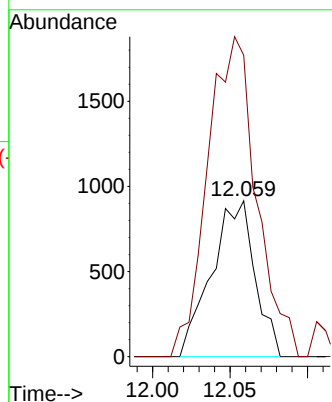
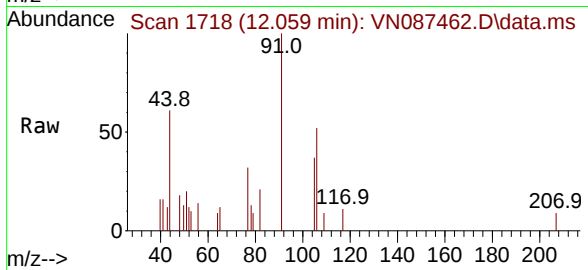




#67
m/p-Xylenes
Concen: 0.217 ug/l
RT: 12.059 min Scan# 1716
Delta R.T. 0.012 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

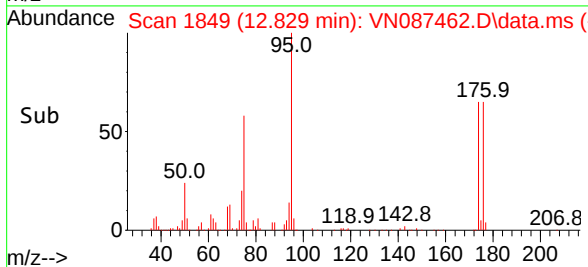
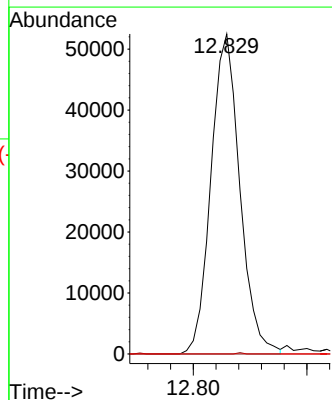
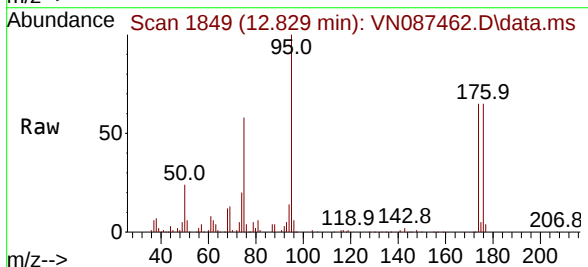
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

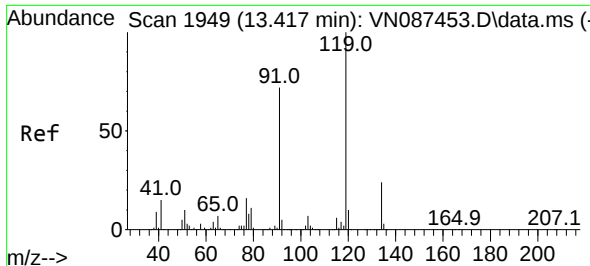
Tgt Ion:106 Resp: 1781
Ion Ratio Lower Upper
106 100
91 231.2 174.2 261.2



#77
t-1,4-Dichloro-2-butene
Concen: 37.383 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion: 75 Resp: 92592
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#

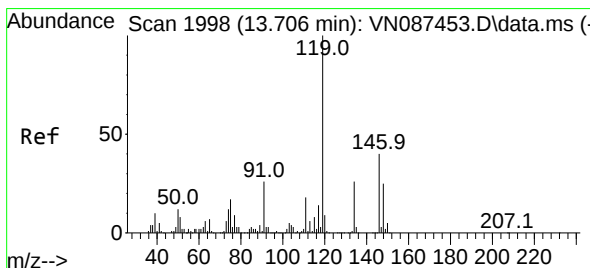
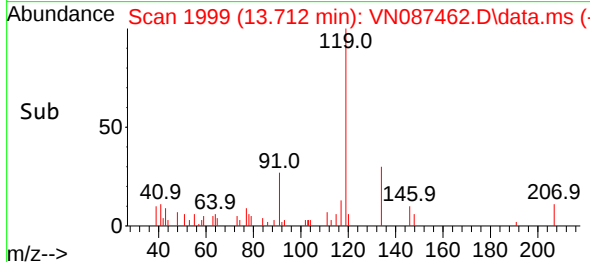
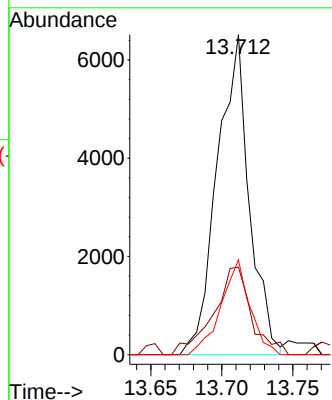
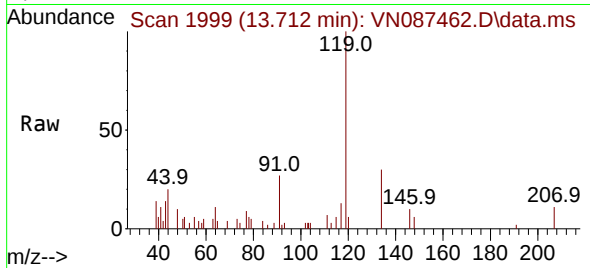




#79
tert-butylbenzene
Concen: 0.691 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.294 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

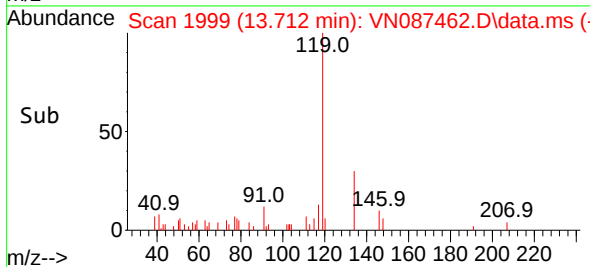
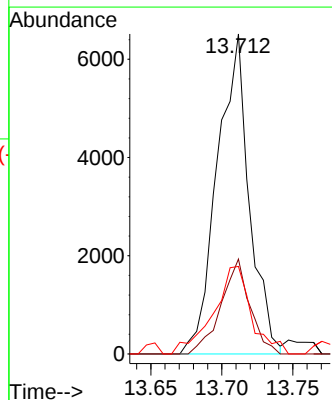
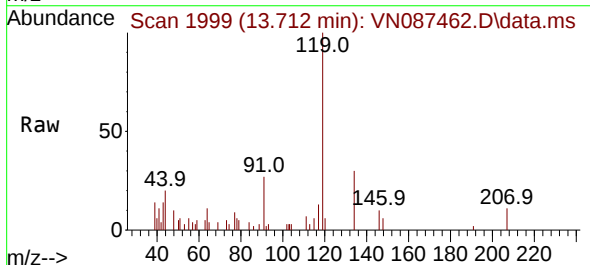
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

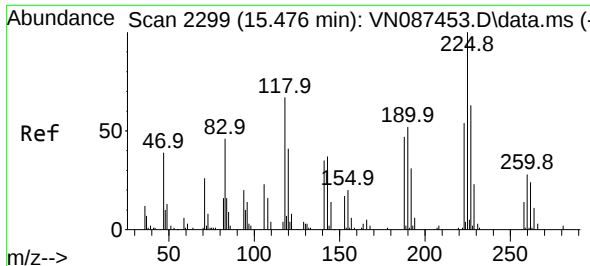
Tgt Ion:	119	Resp:	10229
Ion	Ratio	Lower	Upper
119	100		
91	32.2	0.0	141.6
134	26.8	0.0	45.6



#82
p-Isopropyltoluene
Concen: 0.572 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.006 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion:	119	Resp:	10229
Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	51.4
91	32.2	0.0	52.0

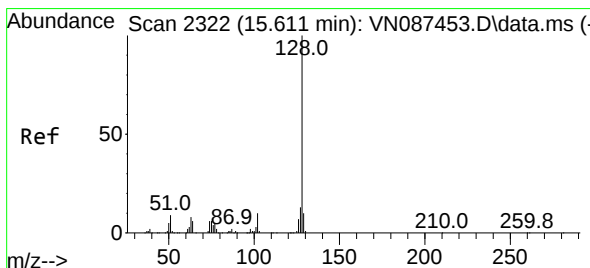
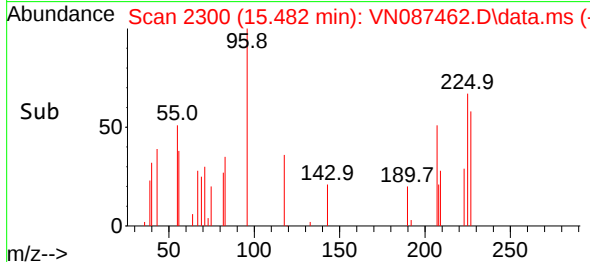
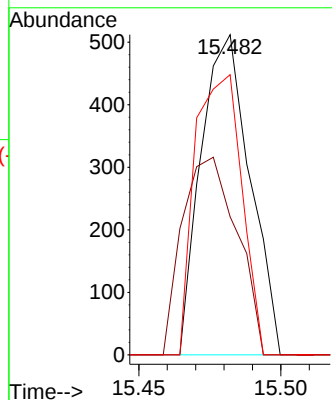
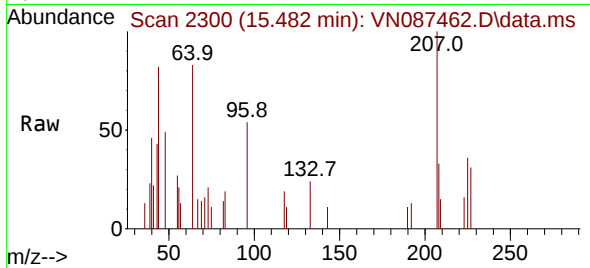




#90
Hexachlorobutadiene
Concen: 0.305 ug/l
RT: 15.482 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

Tgt Ion:225 Resp: 613
Ion Ratio Lower Upper
225 100
223 69.2 0.0 116.0
227 83.4 0.0 127.0



#91
Naphthalene
Concen: 0.229 ug/l
RT: 15.611 min Scan# 2322
Delta R.T. 0.000 min
Lab File: VN087462.D
Acq: 05 Aug 2025 17:53

Tgt Ion:128 Resp: 4505
Ion Ratio Lower Upper
128 100
127 5.4 10.2 15.4#
129 4.5 8.9 13.3#

