

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081825\
 Data File : VN087600.D
 Acq On : 18 Aug 2025 11:57
 Operator : JC\MD
 Sample : Q2845-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (july)

Quant Time: Aug 18 15:12:13 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)

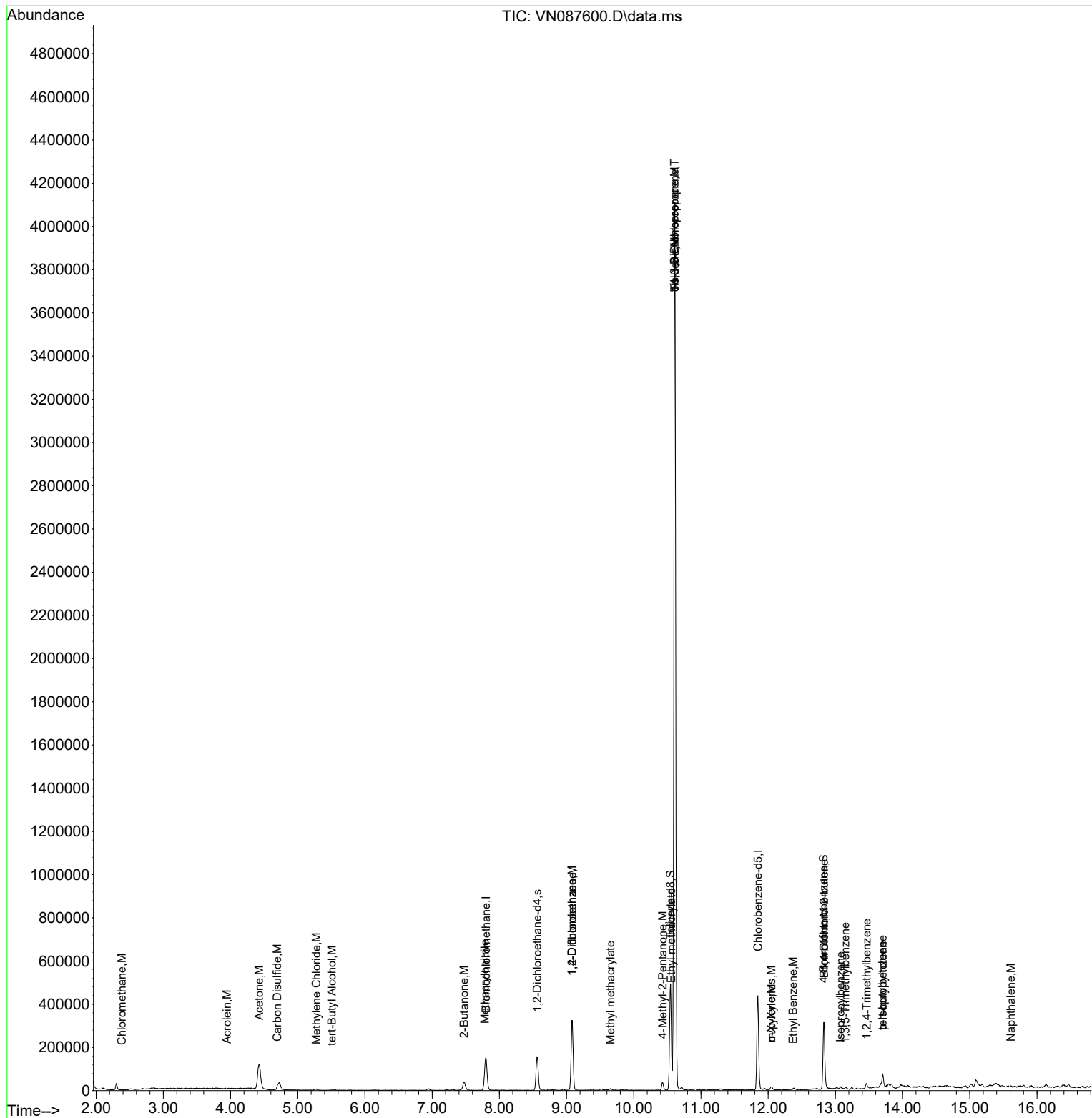
Internal Standards						
1) Bromochloromethane	7.800	128	48558	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	265247	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	239168	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	134274	29.980	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.933%
60) 4-Bromofluorobenzene	12.823	95	112209	27.262	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.867%
63) Toluene-d8	10.547	98	325480	29.576	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1173	0.361	ug/l #	79
13) Acrolein	3.948	56	267	0.356	ug/l	89
15) Acetone	4.424	58	67446	110.148	ug/l	97
16) Carbon Disulfide	4.695	76	2032	0.246	ug/l #	80
18) Methylene Chloride	5.277	84	1103	0.322	ug/l #	44
23) tert-Butyl Alcohol	5.506	59	919	1.009	ug/l #	100
30) 2-Butanone	7.477	43	65833	20.644	ug/l #	82
35) Methacrylonitrile	7.783	41	2779	0.808	ug/l #	52
36) 1,2-Dichloroethane	9.083	62	11371	2.060	ug/l #	77
46) Methyl methacrylate	9.653	41	1459	0.296	ug/l #	28
48) t-1,3-Dichloropropene	10.606	75	24002	4.041	ug/l #	1
49) cis-1,3-Dichloropropene	10.606	75	24002	4.016	ug/l #	1
51) Ethyl methacrylate	10.559	69	1450	0.248	ug/l	80
56) Bromoform	12.829	173	837	0.330	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	25640	4.167	ug/l	99
62) Toluene	10.612	91	3077162	208.459	ug/l	100
66) Ethyl Benzene	12.371	91	4856	0.295	ug/l	93
67) m/p-Xylenes	12.047	106	3977	0.659	ug/l	94
68) o-Xylene	12.047	106	3977	0.669	ug/l	87
70) Isopropylbenzene	13.076	105	6965	0.461	ug/l	91
76) 1,3,5-Trimethylbenzene	13.147	105	4059	0.314	ug/l	78
77) t-1,4-Dichloro-2-butene	12.829	75	67795	37.170	ug/l #	3
79) tert-butylbenzene	13.706	119	30022	2.755	ug/l	63
80) 1,2,4-Trimethylbenzene	13.465	105	13024	1.008	ug/l	95
82) p-Isopropyltoluene	13.706	119	30022	2.279	ug/l	93
91) Naphthalene	15.611	128	5978	0.412	ug/l	96

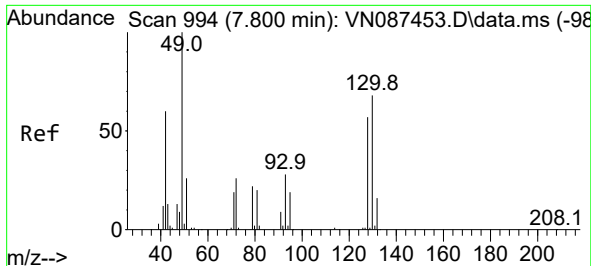
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
002 35th Ave (july)

Quant Time: Aug 18 15:12:13 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

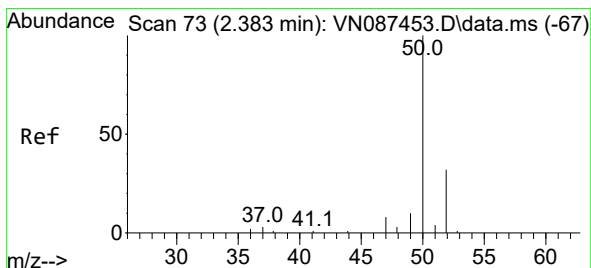
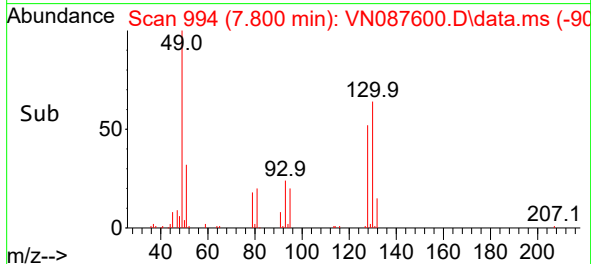
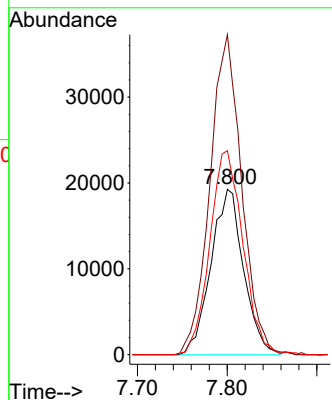
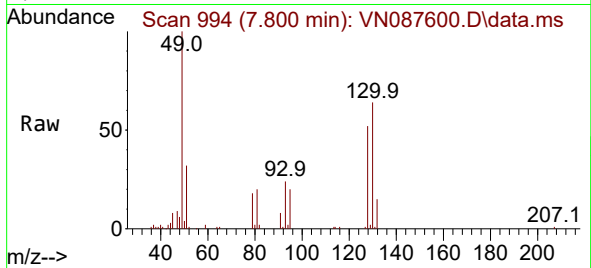




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

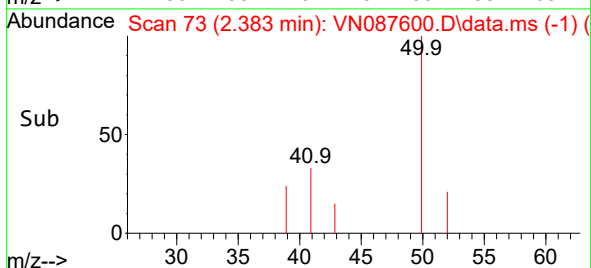
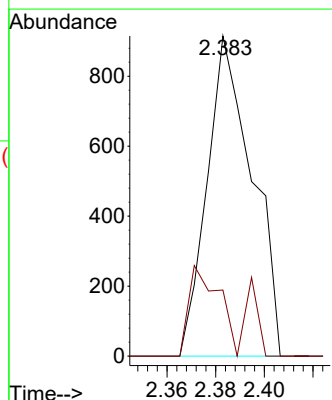
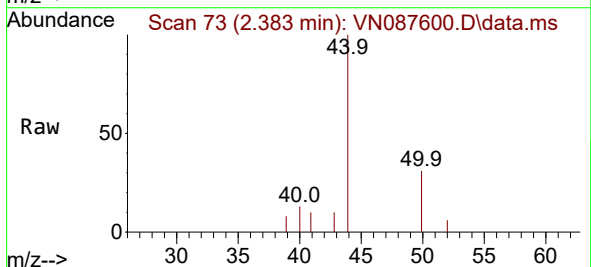
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

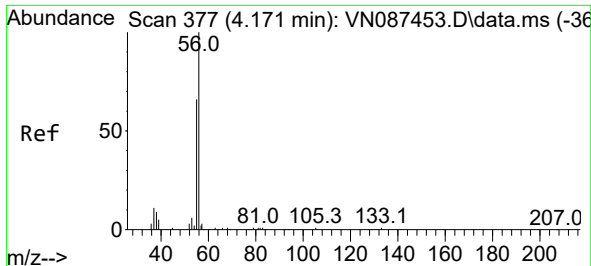
Tgt Ion:128 Resp: 48558
Ion Ratio Lower Upper
128 100
49 188.7 0.0 494.8
130 125.6 0.0 321.5



#3
Chloromethane
Concen: 0.361 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 50 Resp: 1173
Ion Ratio Lower Upper
50 100
52 20.7 25.8 38.6#

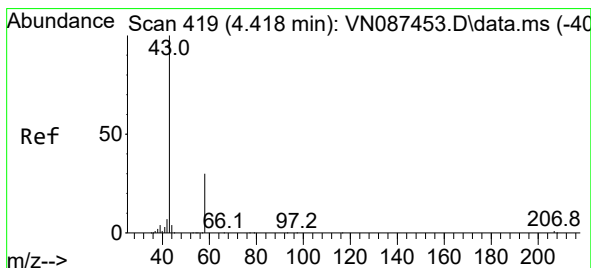
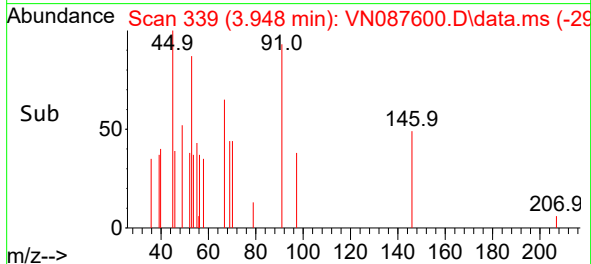
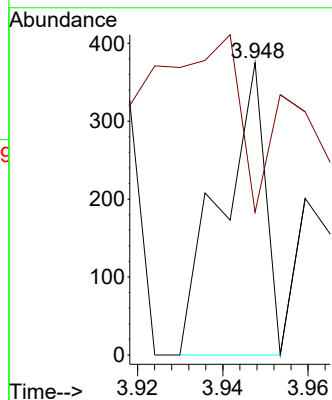
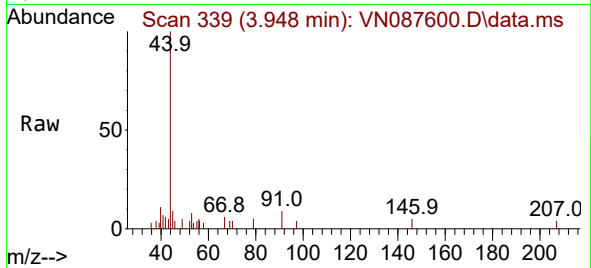




#13
Acrolein
Concen: 0.356 ug/l
RT: 3.948 min Scan# 31
Delta R.T. -0.223 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

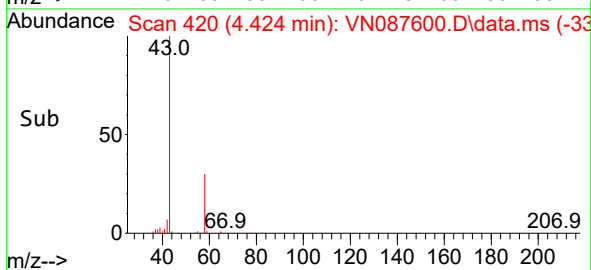
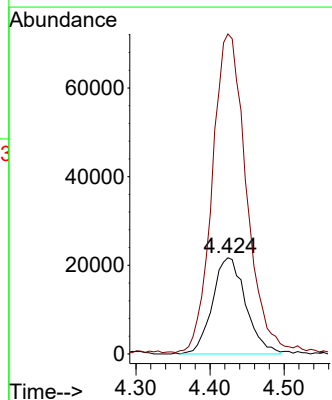
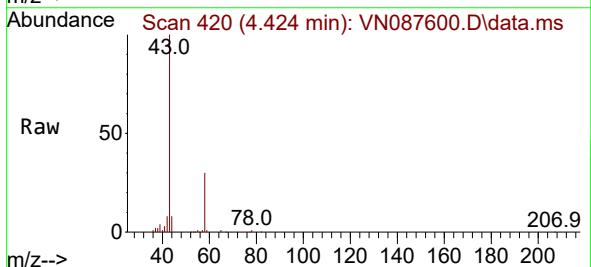
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

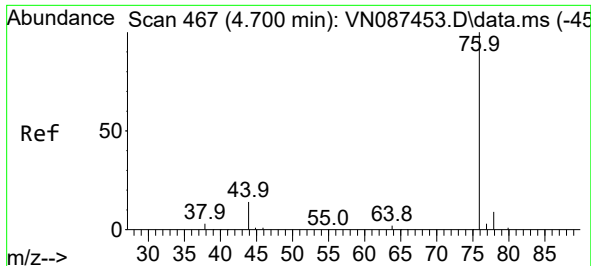
Tgt Ion: 56 Resp: 267
Ion Ratio Lower Upper
56 100
55 80.5 57.4 86.0



#15
Acetone
Concen: 110.148 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 58 Resp: 67446
Ion Ratio Lower Upper
58 100
43 329.4 268.9 403.3

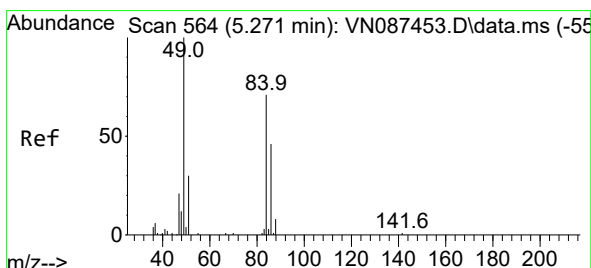
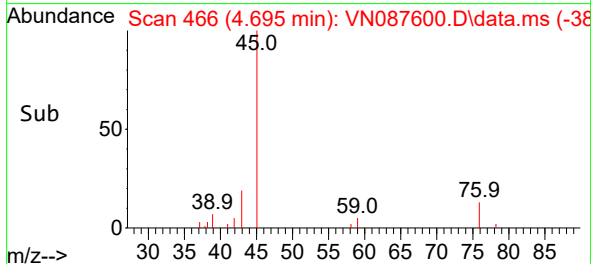
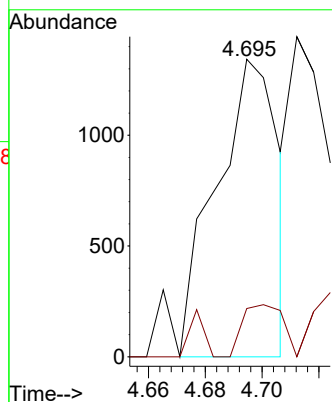
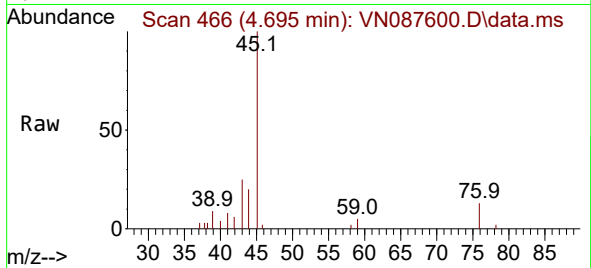




#16
Carbon Disulfide
Concen: 0.246 ug/l
RT: 4.695 min Scan# 466
Delta R.T. -0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

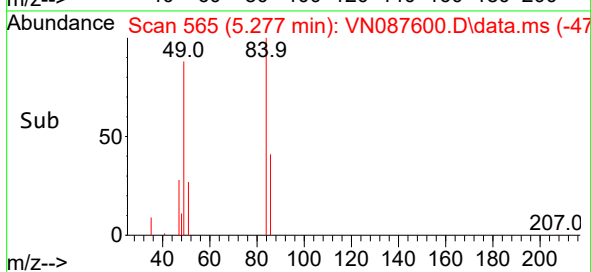
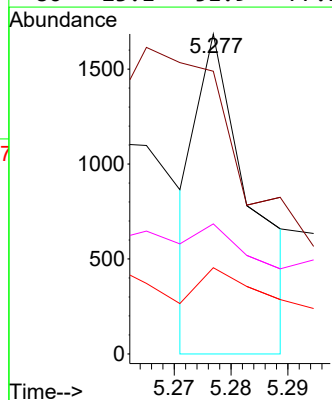
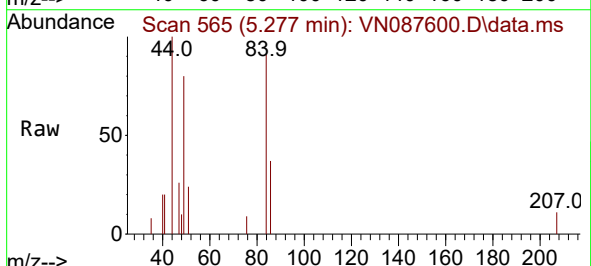
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

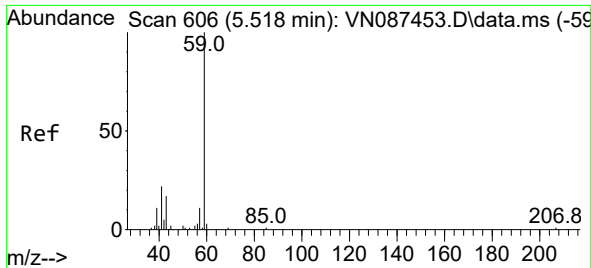
Tgt Ion: 76 Resp: 2032
Ion Ratio Lower Upper
76 100
78 16.2 7.1 10.7#



#18
Methylene Chloride
Concen: 0.322 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 84 Resp: 1103
Ion Ratio Lower Upper
84 100
49 64.7 112.9 169.3#
51 18.4 33.8 50.8#
86 23.1 51.9 77.9#

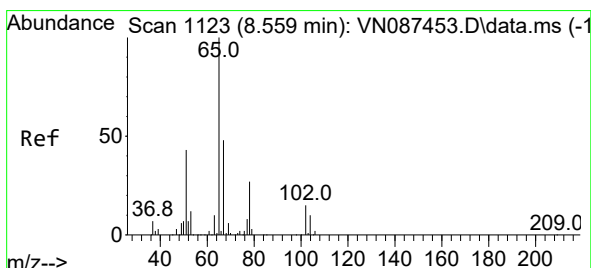
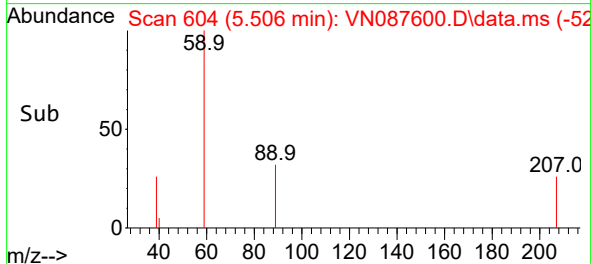
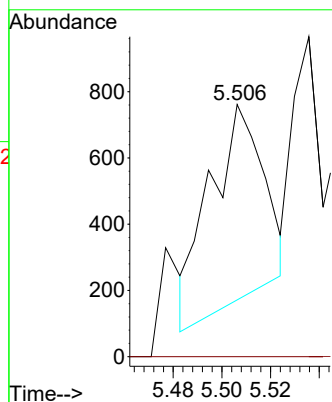
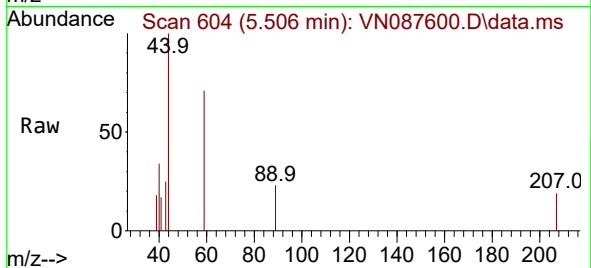




#23
tert-Butyl Alcohol
Concen: 1.009 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

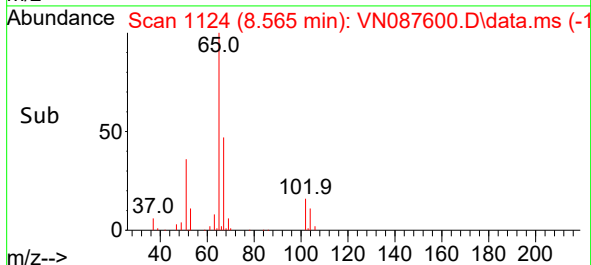
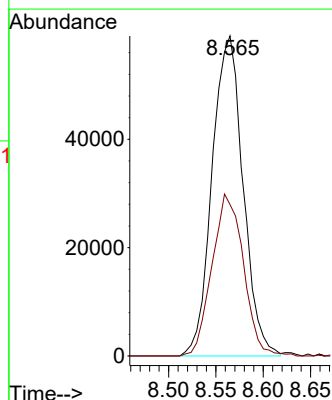
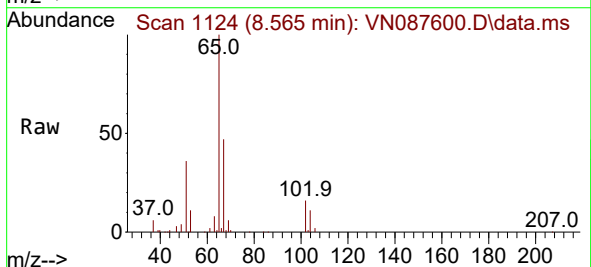
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

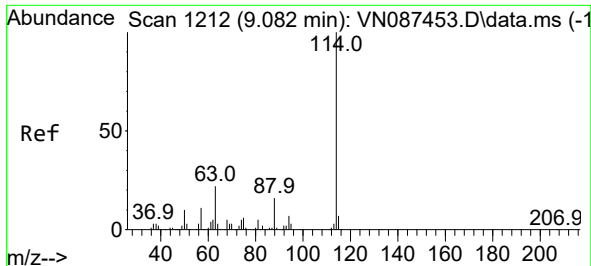
Tgt Ion: 59 Resp: 919
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.980 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 65 Resp: 134274
Ion Ratio Lower Upper
65 100
67 51.4 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087600.D

Acq: 18 Aug 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (july)

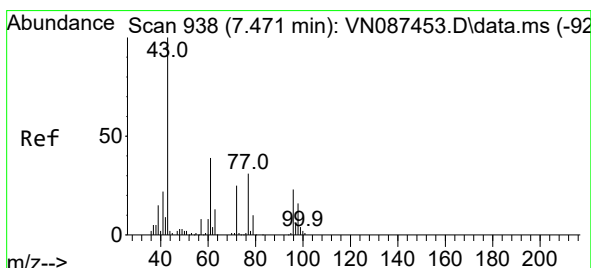
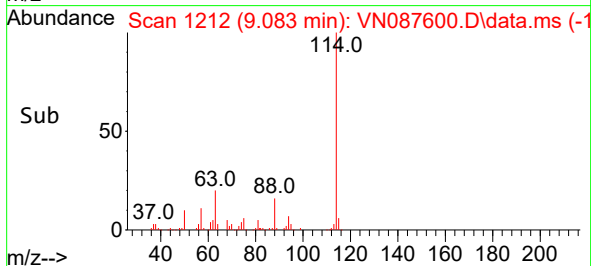
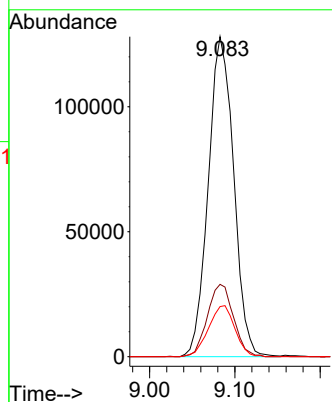
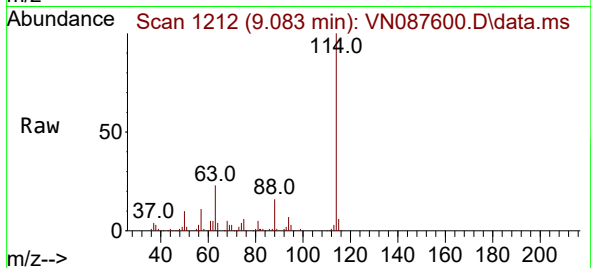
Tgt Ion:114 Resp: 265247

Ion Ratio Lower Upper

114 100

63 23.2 18.9 28.3

88 16.6 13.1 19.7



#30

2-Butanone

Concen: 20.644 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087600.D

Acq: 18 Aug 2025 11:57

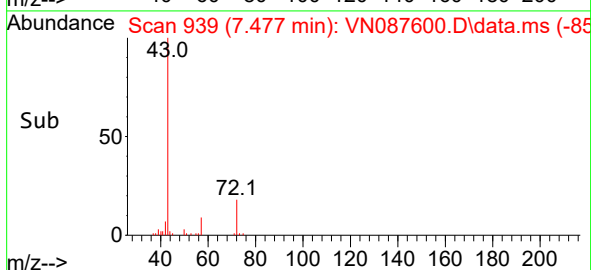
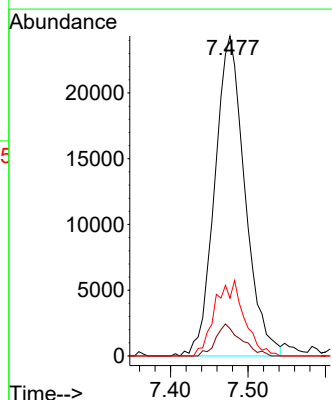
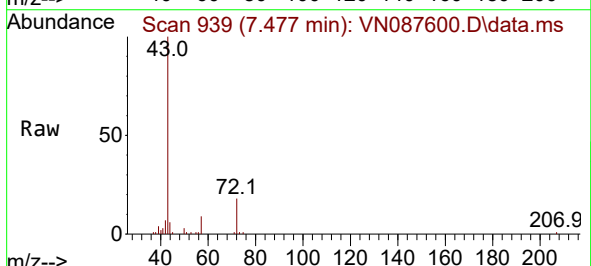
Tgt Ion: 43 Resp: 65833

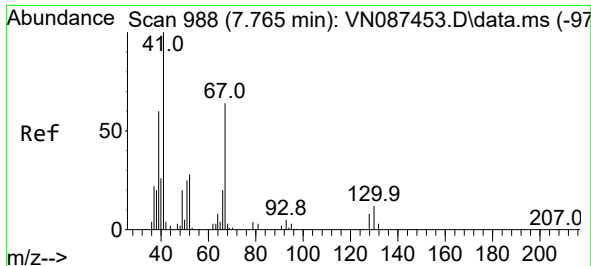
Ion Ratio Lower Upper

43 100

57 8.4 6.6 9.8

72 13.0 19.7 29.5#

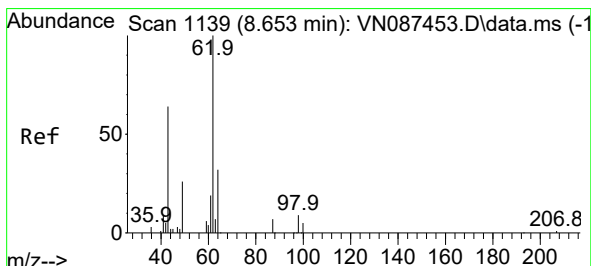
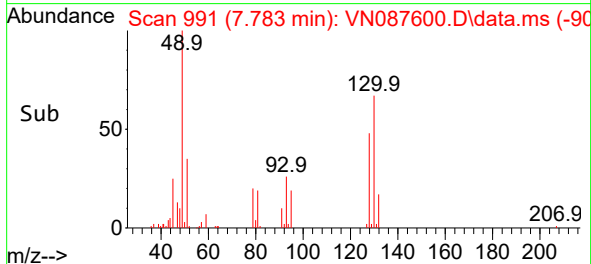
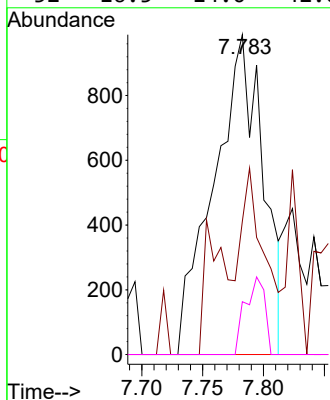
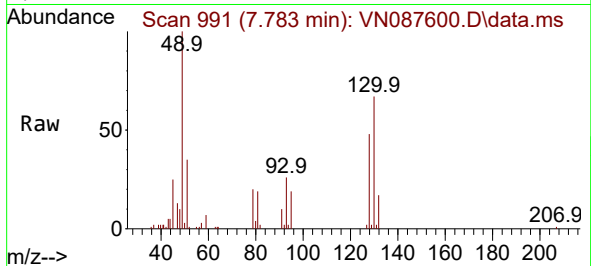




#35
Methacrylonitrile
Concen: 0.808 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

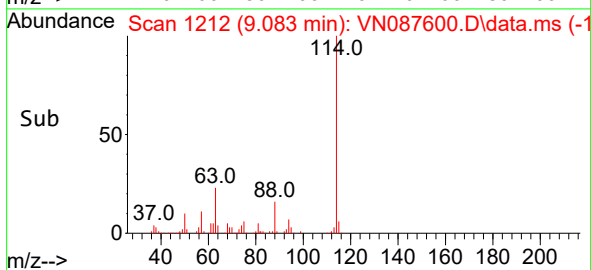
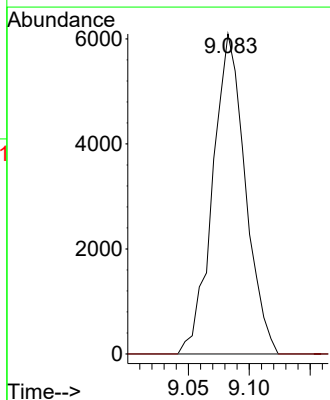
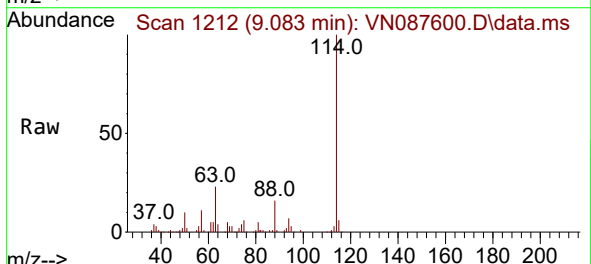
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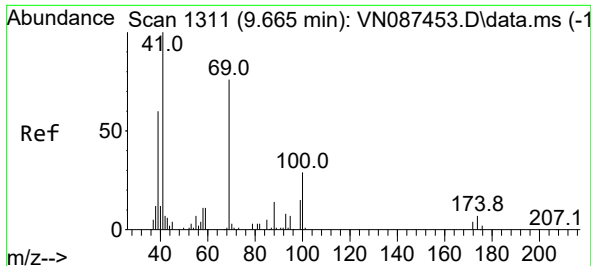
Tgt Ion:	41	Resp:	2779
Ion	Ratio	Lower	Upper
41	100		
39	41.7	30.1	90.5
67	0.0	32.0	96.2#
52	16.5	14.0	42.0



#36
1,2-Dichloroethane
Concen: 2.060 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.429 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion:	62	Resp:	11371
Ion	Ratio	Lower	Upper
62	100		
98	0.0	6.6	9.8#

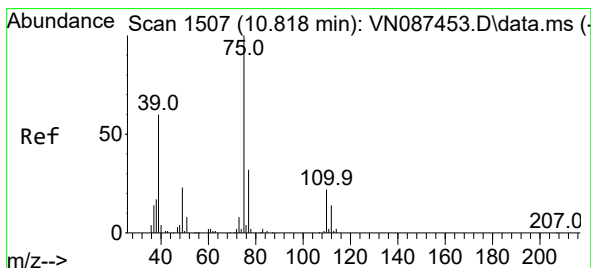
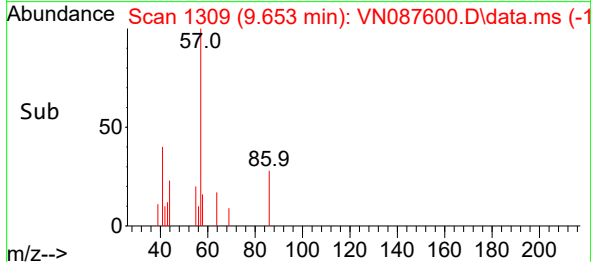
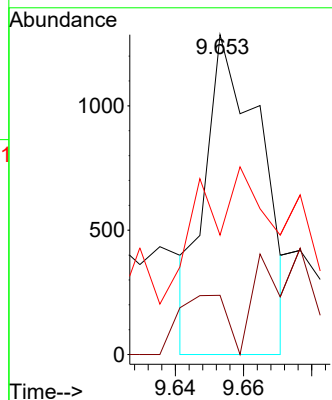
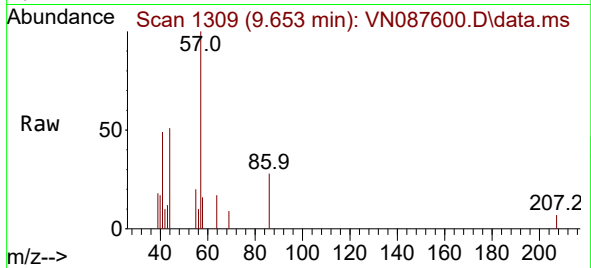




#46
Methyl methacrylate
Concen: 0.296 ug/l
RT: 9.653 min Scan# 1459
Delta R.T. -0.012 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

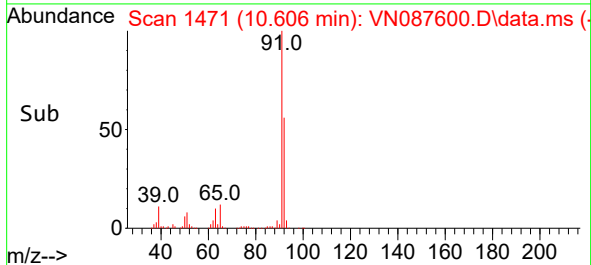
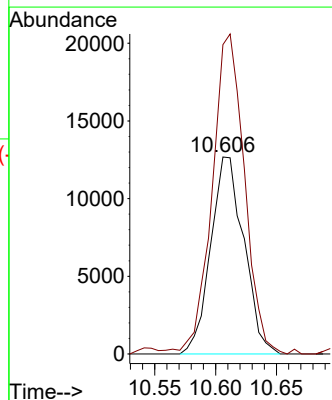
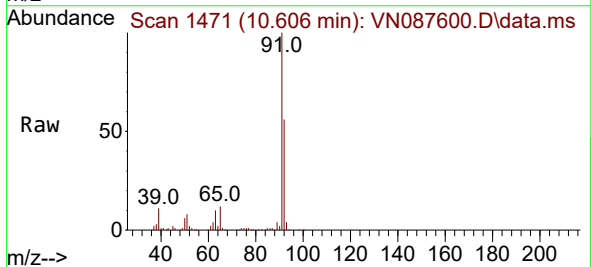
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

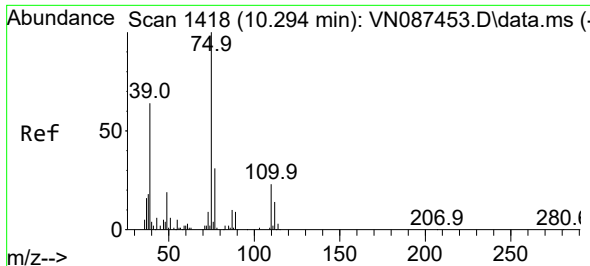
Tgt Ion: 41 Resp: 1459
Ion Ratio Lower Upper
41 100
69 5.6 37.1 111.5#
39 14.4 30.7 92.1#



#48
t-1,3-Dichloropropene
Concen: 4.041 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.212 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 75 Resp: 24002
Ion Ratio Lower Upper
75 100
77 155.7 25.3 37.9#

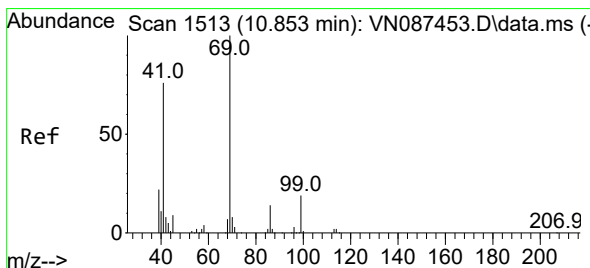
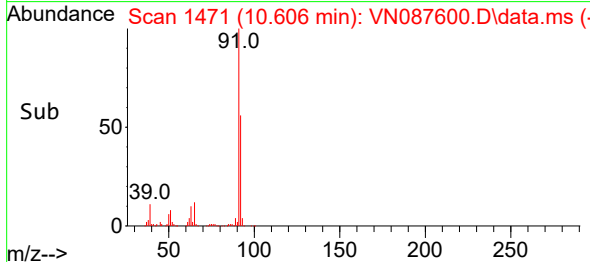
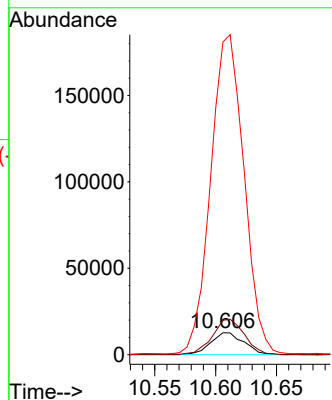
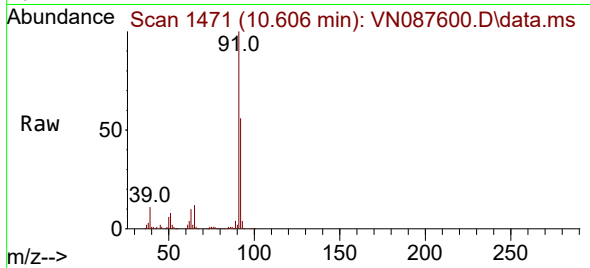




#49
cis-1,3-Dichloropropene
Concen: 4.016 ug/l
RT: 10.606 min Scan# 1418
Delta R.T. 0.312 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

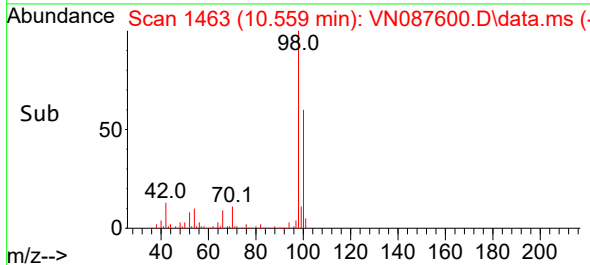
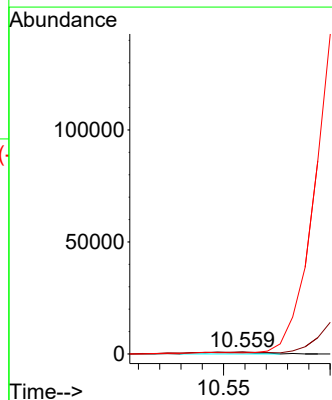
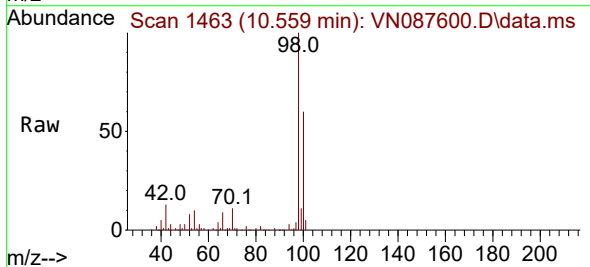
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

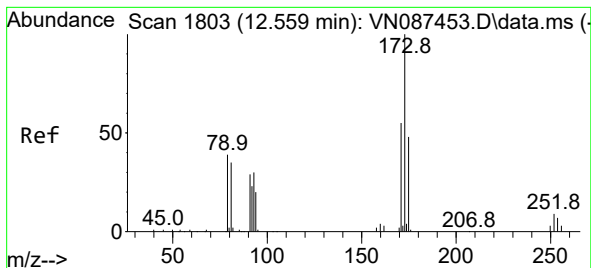
Tgt Ion: 75 Resp: 24002
Ion Ratio Lower Upper
75 100
77 155.7 24.6 36.8#
39 1417.4 51.5 77.3#



#51
Ethyl methacrylate
Concen: 0.248 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.294 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 69 Resp: 1450
Ion Ratio Lower Upper
69 100
41 64.2 38.0 114.1
39 25.8 23.2 69.5





#56

Bromoform

Concen: 0.330 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.271 min

Lab File: VN087600.D

Acq: 18 Aug 2025 11:57

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave (july)

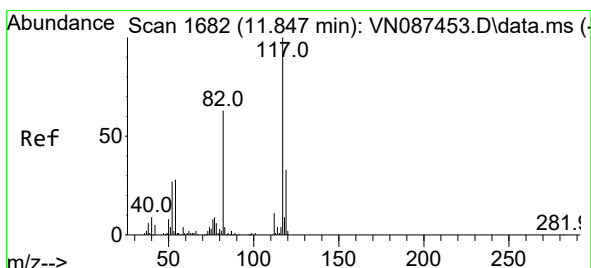
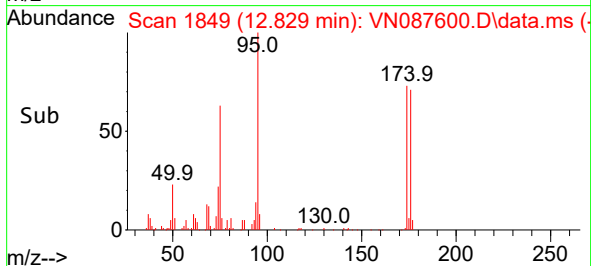
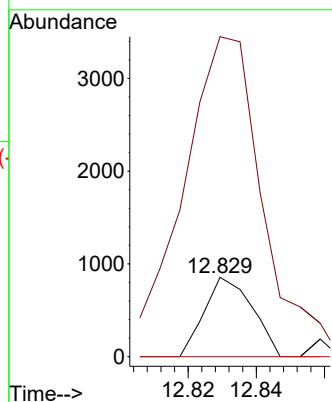
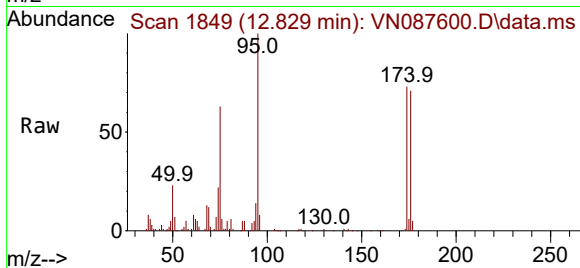
Tgt Ion:173 Resp: 837

Ion Ratio Lower Upper

173 100

175 676.7 38.8 58.2#

254 0.0 3.9 5.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.000 min

Lab File: VN087600.D

Acq: 18 Aug 2025 11:57

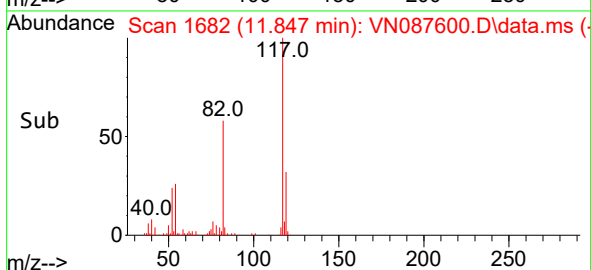
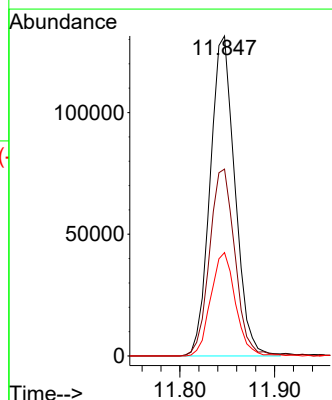
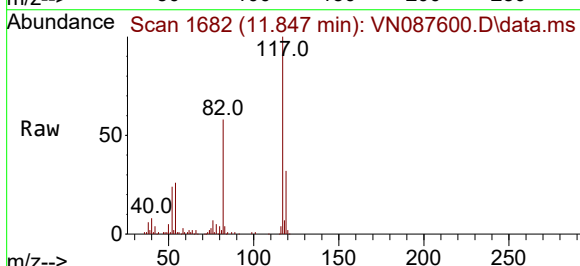
Tgt Ion:117 Resp: 239168

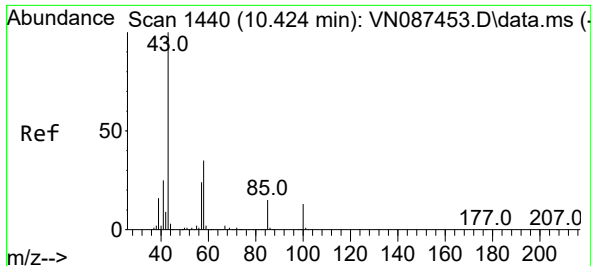
Ion Ratio Lower Upper

117 100

82 59.8 49.2 73.8

119 31.9 25.7 38.5

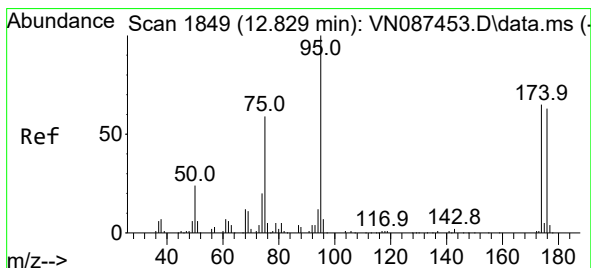
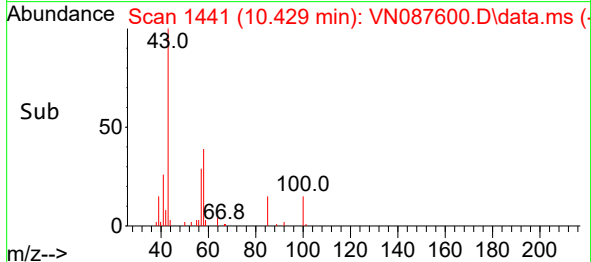
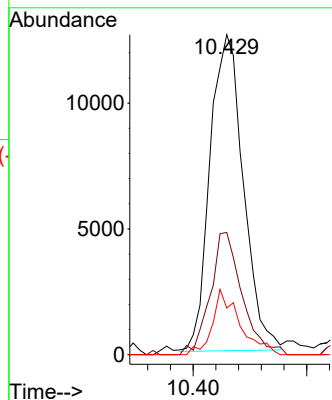
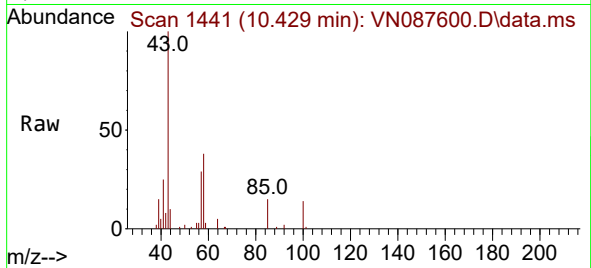




#58
4-Methyl-2-Pentanone
Concen: 4.167 ug/l
RT: 10.429 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

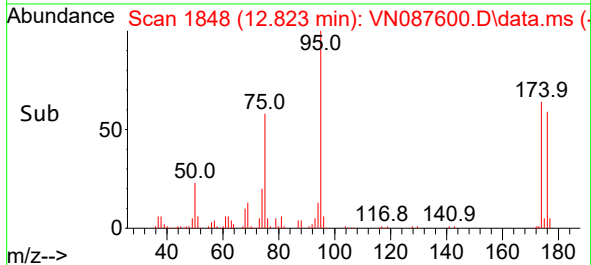
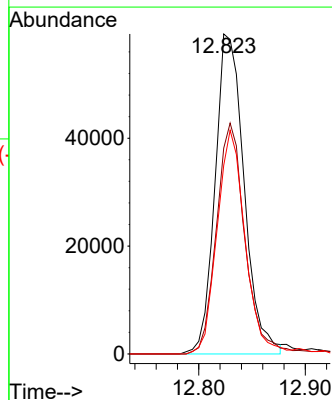
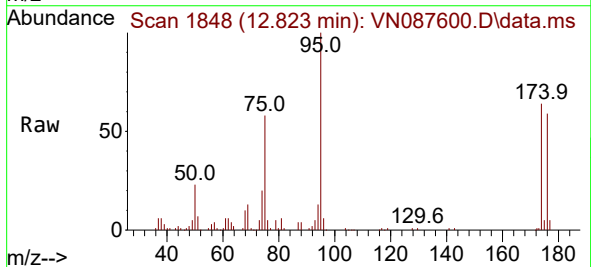
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

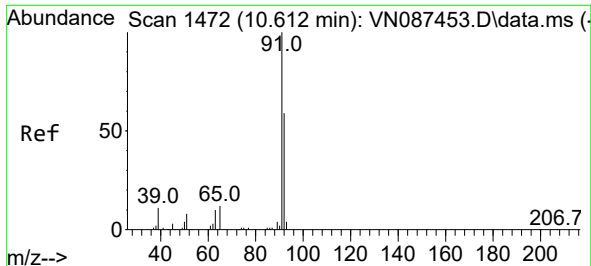
Tgt Ion: 43 Resp: 25640
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.6
85 17.0 12.7 19.1



#60
4-Bromofluorobenzene
Concen: 27.262 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 95 Resp: 112209
Ion Ratio Lower Upper
95 100
174 71.0 52.3 78.5
176 67.1 49.8 74.8

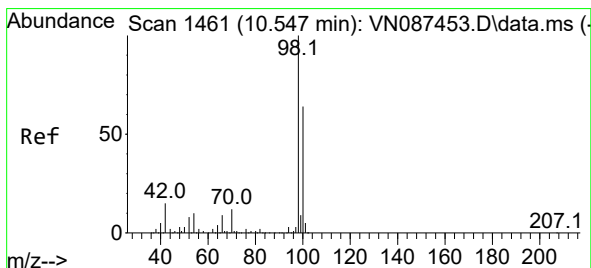
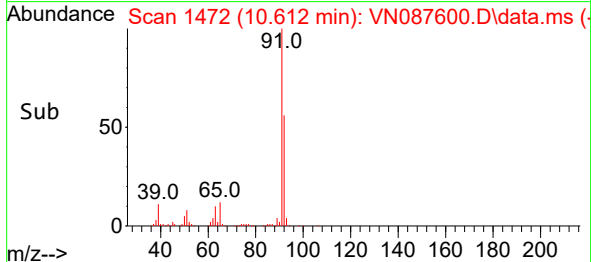
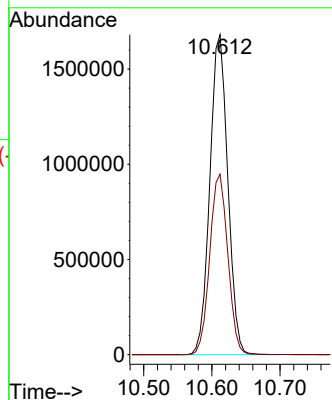
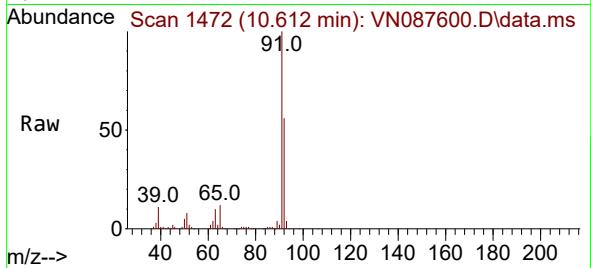




#62
Toluene
Concen: 208.459 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

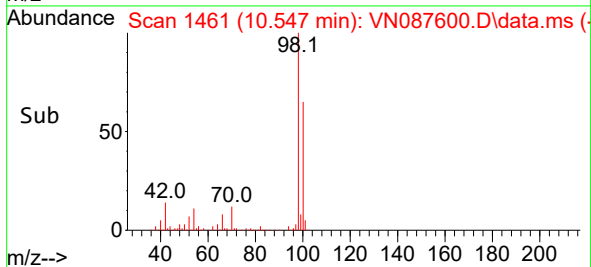
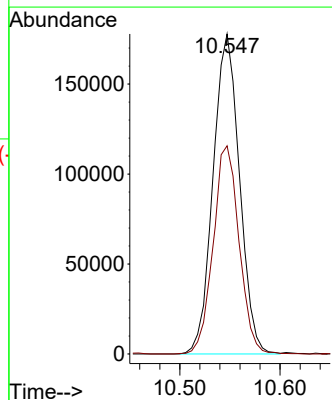
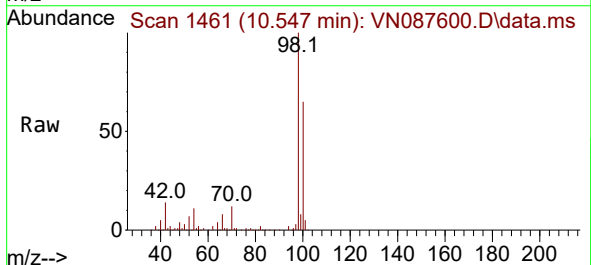
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

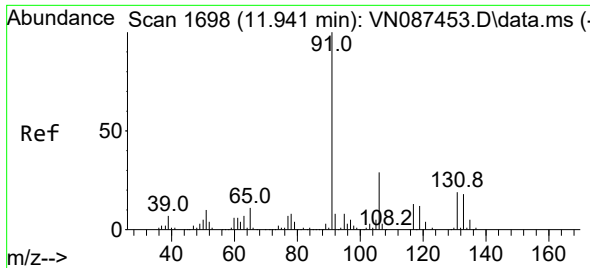
Tgt Ion: 91 Resp: 3077162
Ion Ratio Lower Upper
91 100
92 56.9 45.8 68.6



#63
Toluene-d8
Concen: 29.576 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 98 Resp: 325480
Ion Ratio Lower Upper
98 100
100 63.8 50.5 75.7

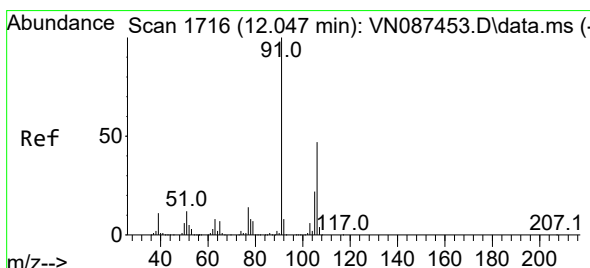
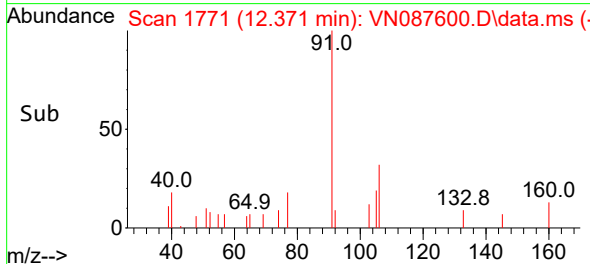
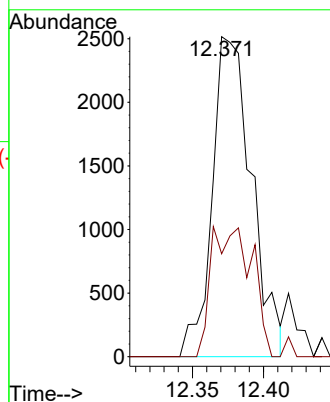
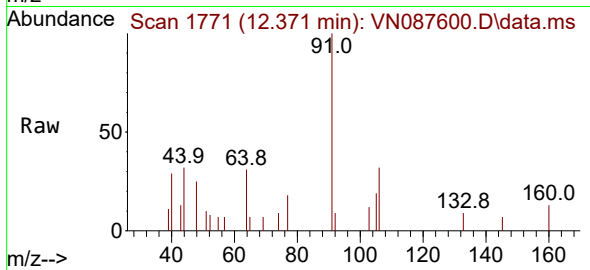




#66
Ethyl Benzene
Concen: 0.295 ug/l
RT: 12.371 min Scan# 1771
Delta R.T. 0.429 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

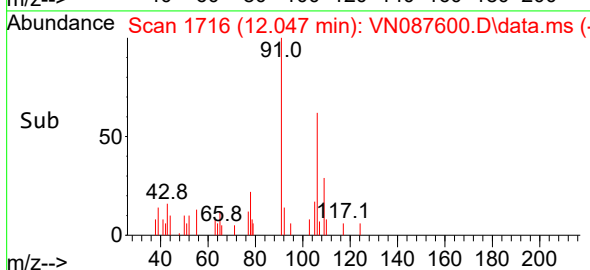
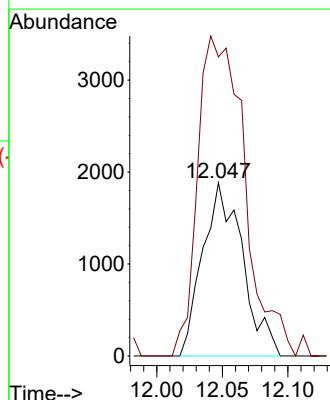
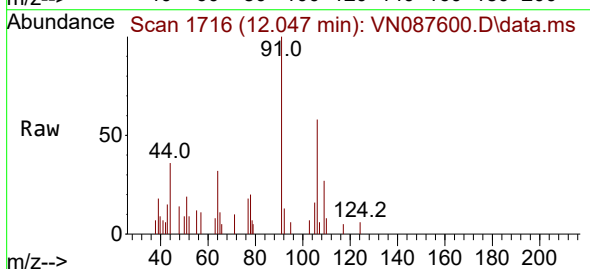
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

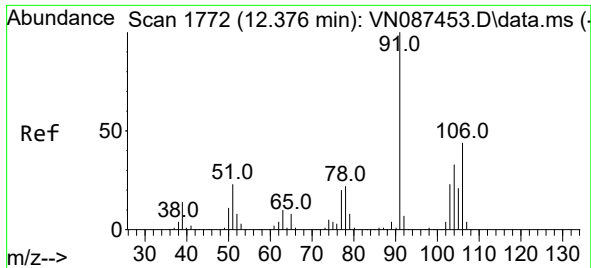
Tgt Ion: 91 Resp: 4856
Ion Ratio Lower Upper
91 100
106 32.2 22.9 34.3



#67
m/p-Xylenes
Concen: 0.659 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 106 Resp: 3977
Ion Ratio Lower Upper
106 100
91 207.7 174.2 261.2

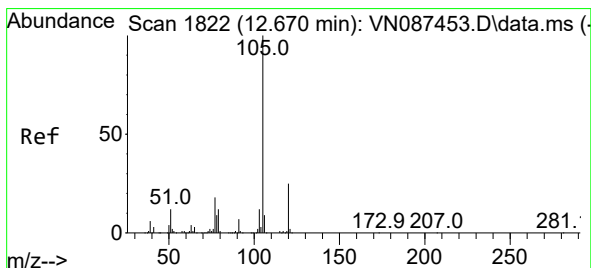
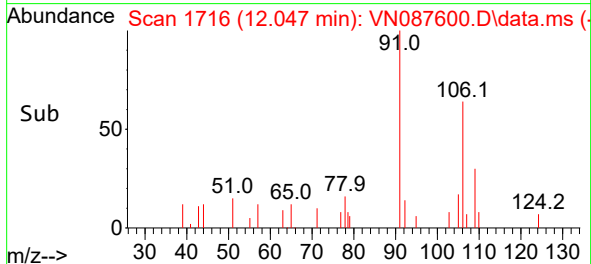
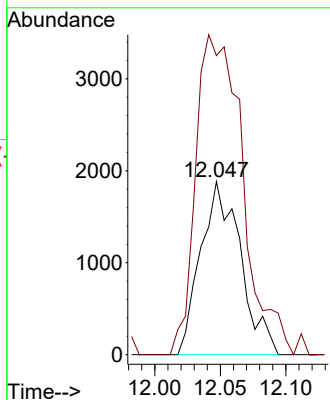
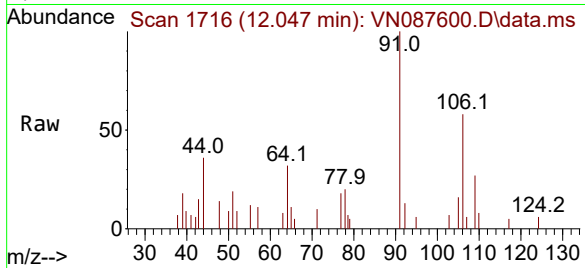




#68
o-Xylene
Concen: 0.669 ug/l
RT: 12.047 min Scan# 11
Delta R.T. -0.329 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

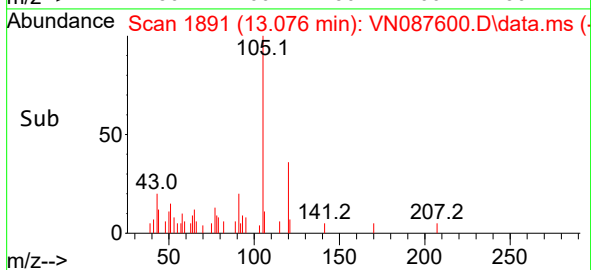
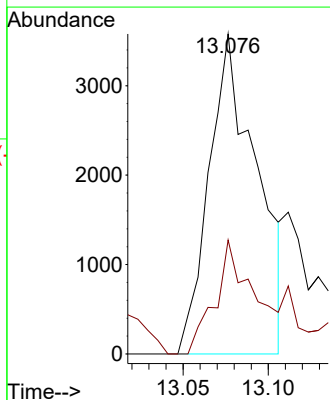
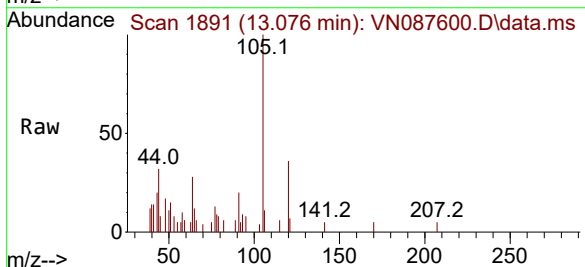
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

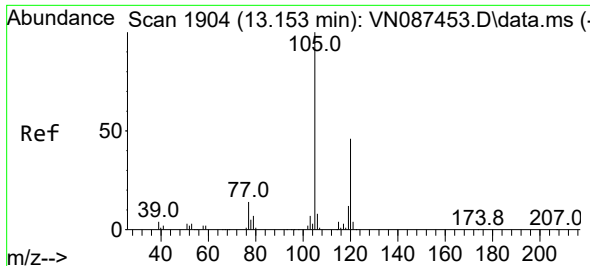
Tgt Ion:106 Resp: 3977
Ion Ratio Lower Upper
106 100
91 207.7 114.5 343.5



#70
Isopropylbenzene
Concen: 0.461 ug/l
RT: 13.076 min Scan# 1891
Delta R.T. 0.406 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion:105 Resp: 6965
Ion Ratio Lower Upper
105 100
120 29.6 17.5 32.5

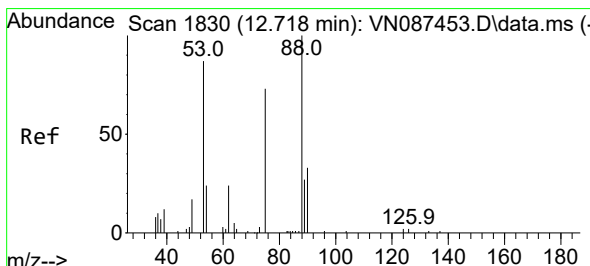
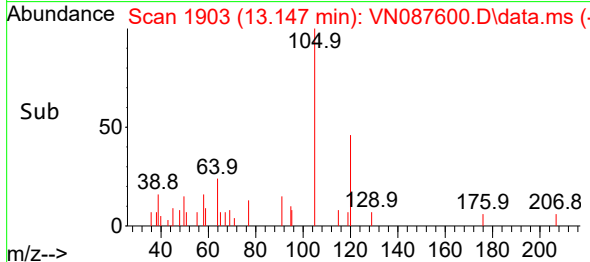
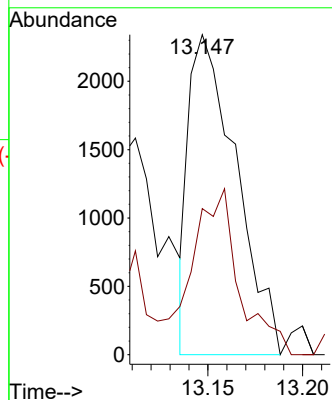
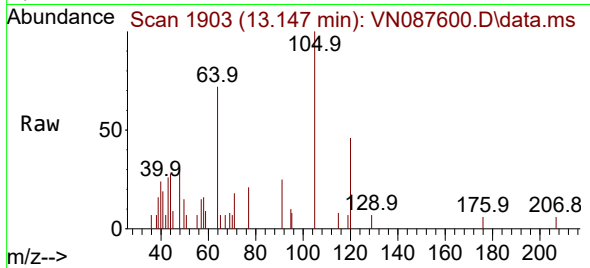




#76
1,3,5-Trimethylbenzene
Concen: 0.314 ug/l
RT: 13.147 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

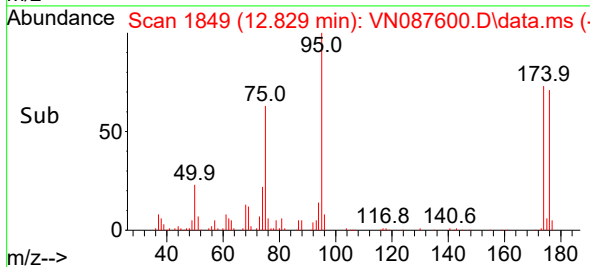
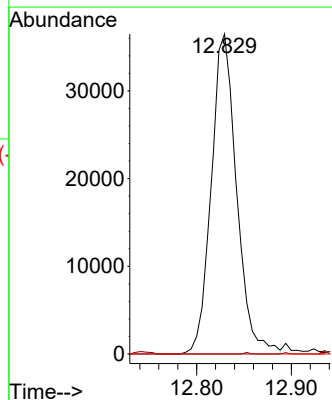
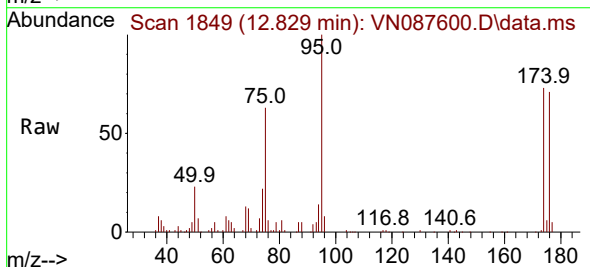
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

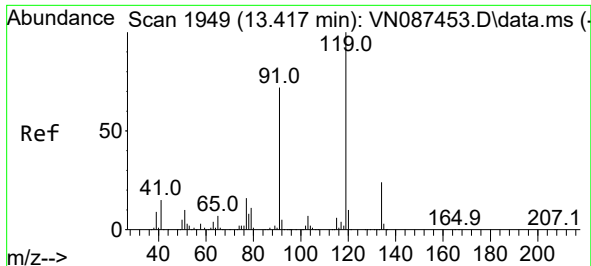
Tgt Ion:105 Resp: 4059
Ion Ratio Lower Upper
105 100
120 31.3 0.0 91.2



#77
t-1,4-Dichloro-2-butene
Concen: 37.170 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion: 75 Resp: 67795
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#

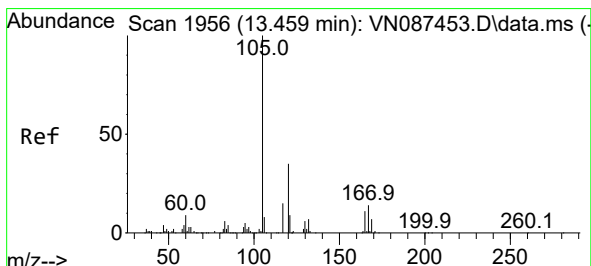
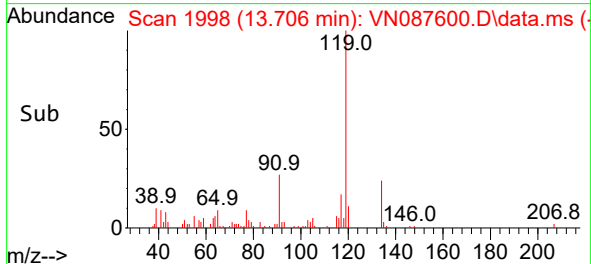
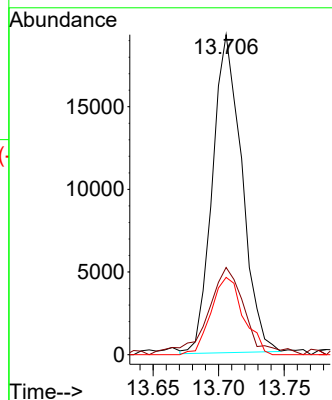
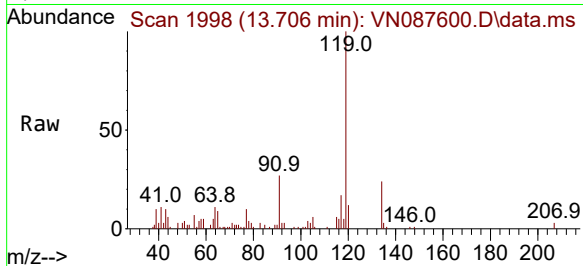




#79
tert-butylbenzene
Concen: 2.755 ug/l
RT: 13.706 min Scan# 1949
Delta R.T. 0.288 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

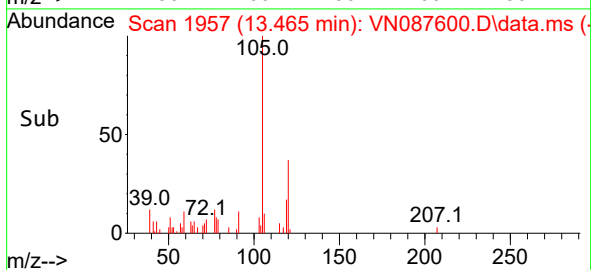
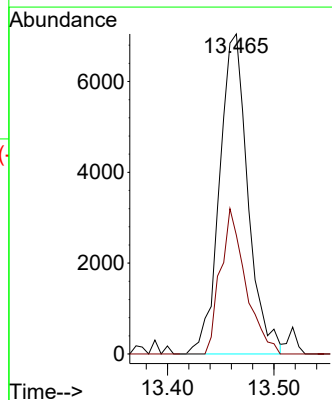
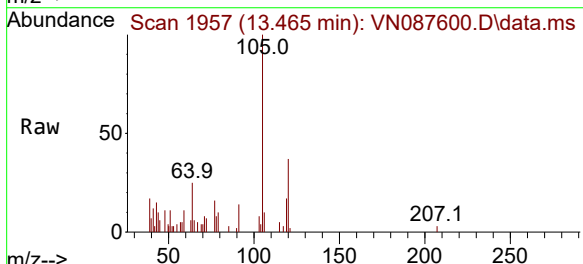
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave (july)

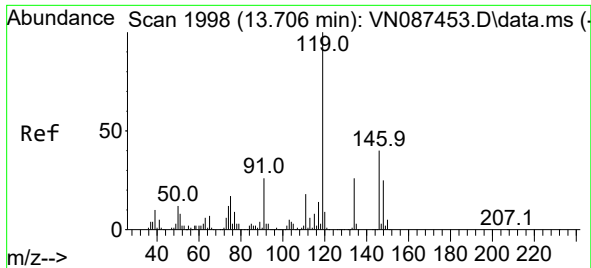
Tgt Ion:119 Resp: 30022
Ion Ratio Lower Upper
119 100
91 32.4 0.0 141.6
134 26.8 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 1.008 ug/l
RT: 13.465 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN087600.D
Acq: 18 Aug 2025 11:57

Tgt Ion:105 Resp: 13024
Ion Ratio Lower Upper
105 100
120 40.3 0.0 87.2

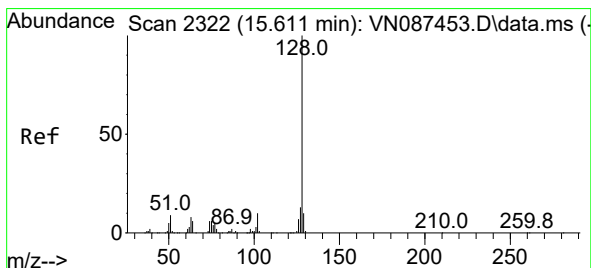
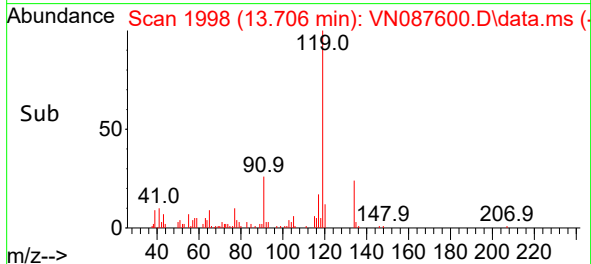
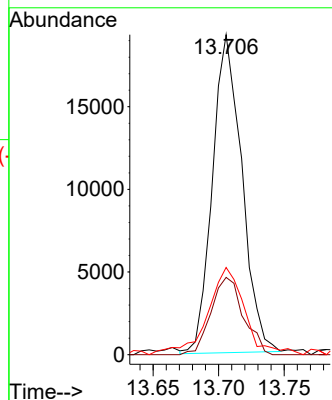
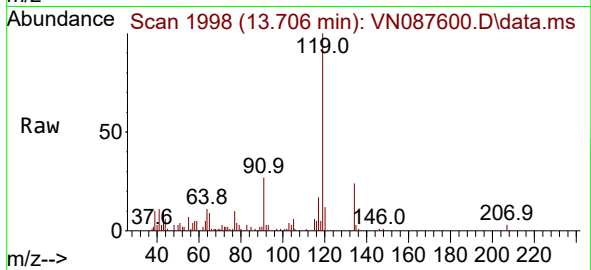




#82
 p-Isopropyltoluene
 Concen: 2.279 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087600.D
 Acq: 18 Aug 2025 11:57

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave (july)

Tgt Ion:	119	Resp:	30022
Ion Ratio	Lower	Upper	
119	100		
134	26.8	0.0	51.4
91	32.4	0.0	52.0



#91
 Naphthalene
 Concen: 0.412 ug/l
 RT: 15.611 min Scan# 2322
 Delta R.T. 0.000 min
 Lab File: VN087600.D
 Acq: 18 Aug 2025 11:57

Tgt Ion:	128	Resp:	5978
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.2	15.4
129	10.2	8.9	13.3

