

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081525\
 Data File : VN087582.D
 Acq On : 15 Aug 2025 15:19
 Operator : JC\MD
 Sample : Q2864-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 05:44:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

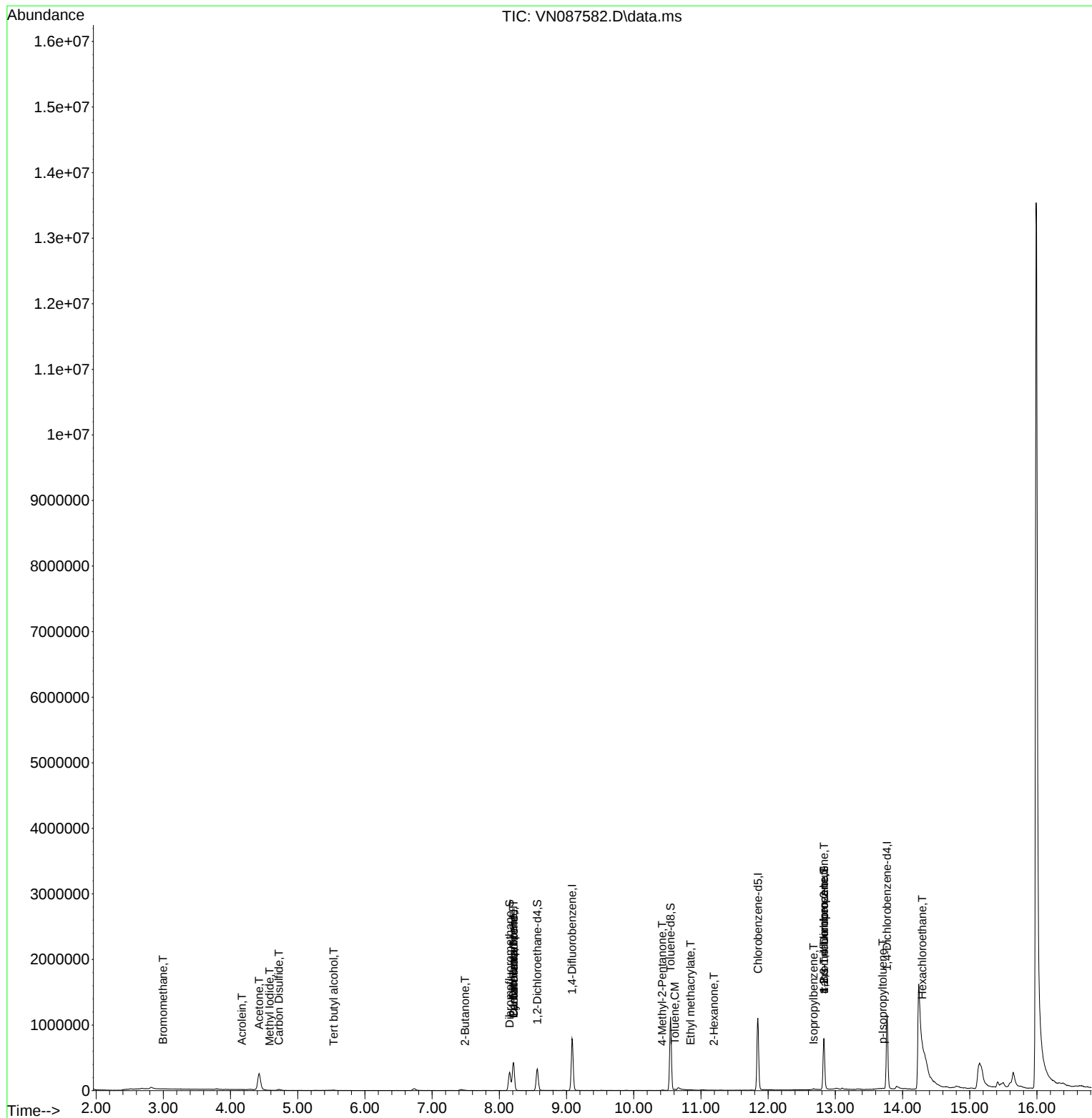
Internal Standards						
1) Pentafluorobenzene	8.212	168	283272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	641823	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	589000	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	285041	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	272912	56.780	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.560%
35) Dibromofluoromethane	8.153	113	196879	44.469	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	88.940%
50) Toluene-d8	10.547	98	725706	45.952	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.900%
62) 4-Bromofluorobenzene	12.829	95	277581	47.575	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.140%
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	615	0.316	ug/l #	49
10) Methyl Iodide	4.583	142	493	5.780	ug/l #	40
11) Tert butyl alcohol	5.536	59	7888	8.643	ug/l #	88
13) Acrolein	4.171	56	1320	1.802	ug/l #	15
16) Acetone	4.424	43	475520	211.001	ug/l	96
17) Carbon Disulfide	4.718	76	2445	0.255	ug/l #	71
20) Methylene Chloride	5.259	84	1892	Below Cal	#	57
25) 2-Butanone	7.489	43	9336	2.681	ug/l #	77
31) Cyclohexane	8.212	56	9710	1.643	ug/l #	44
36) 1,1-Dichloropropene	8.206	75	30265	5.174	ug/l #	49
38) Carbon Tetrachloride	8.212	117	34343	5.330	ug/l #	14
51) 4-Methyl-2-Pentanone	10.424	43	6486	0.782	ug/l #	84
52) Toluene	10.612	92	5950	0.518	ug/l	78
56) Ethyl methacrylate	10.847	69	819	0.742	ug/l #	24
59) 2-Hexanone	11.194	43	1141	0.207	ug/l	66
73) Isopropylbenzene	12.676	105	7584	0.423	ug/l	93
76) 1,2,3-Trichloropropane	12.829	75	160207	25.064	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	160207	68.580	ug/l #	8
86) p-Isopropyltoluene	13.706	119	3180	0.206	ug/l #	70
90) Hexachloroethane	14.294	117	711	0.218	ug/l #	17

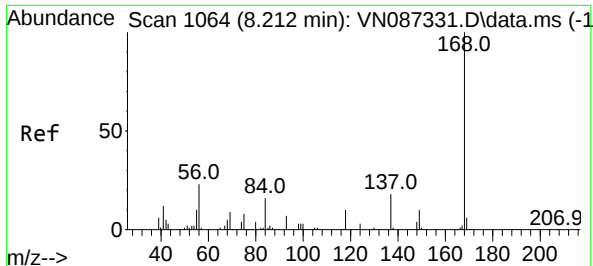
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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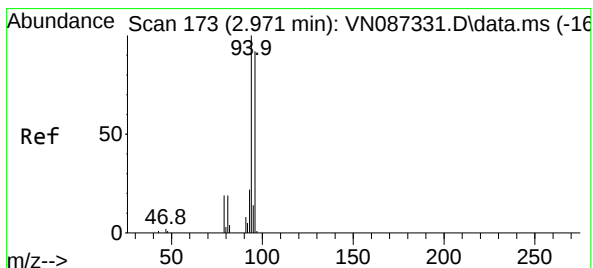
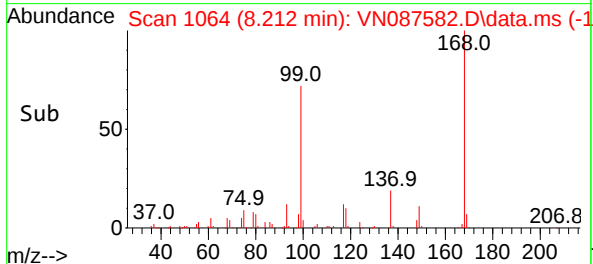
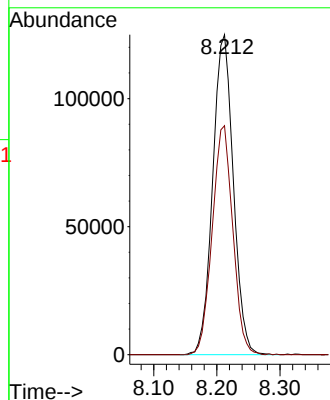
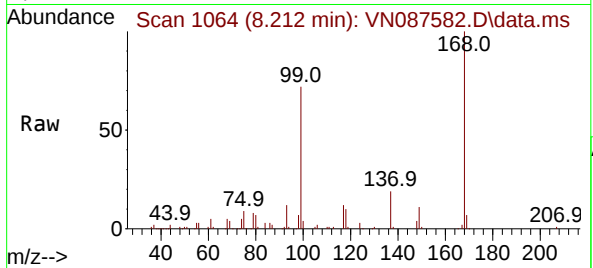




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

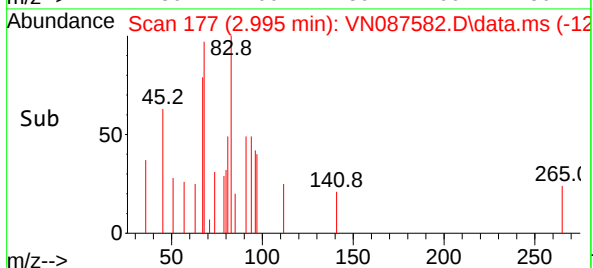
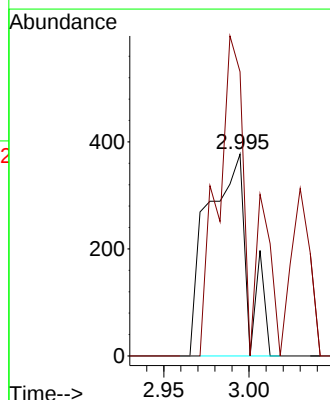
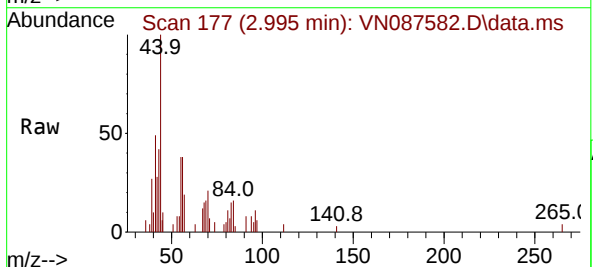
Instrument :
MSVOA_N
ClientSampleId :

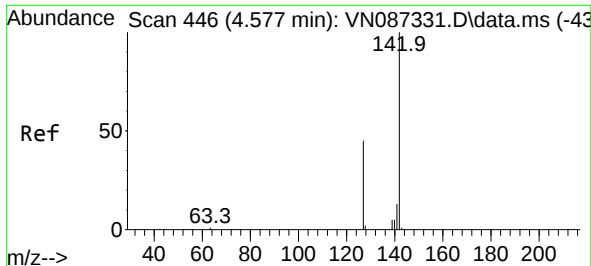
Tgt Ion:168 Resp: 283272
Ion Ratio Lower Upper
168 100
99 71.5 47.9 71.9



#5
Bromomethane
Concen: 0.316 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.024 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

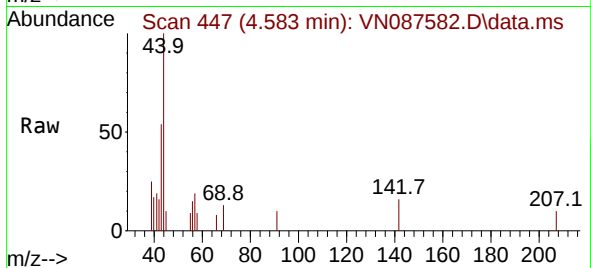
Tgt Ion: 94 Resp: 615
Ion Ratio Lower Upper
94 100
96 140.8 73.4 110.2#



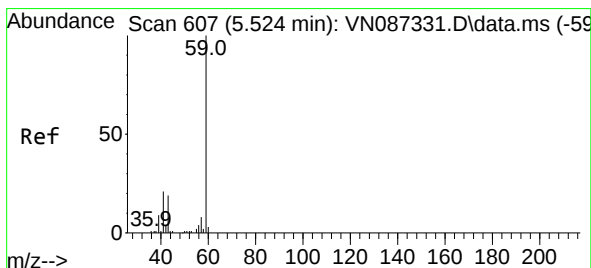
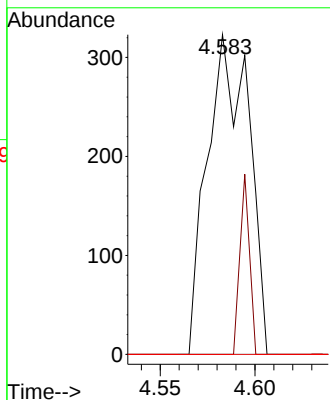
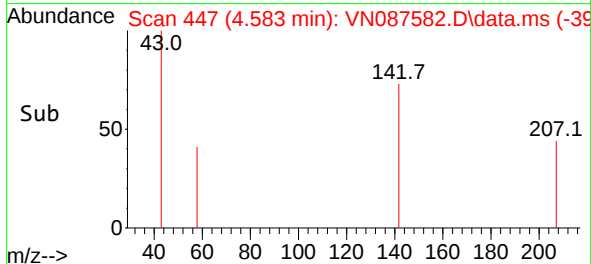


#10
Methyl Iodide
Concen: 5.780 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Instrument :
MSVOA_N
ClientSampleId :

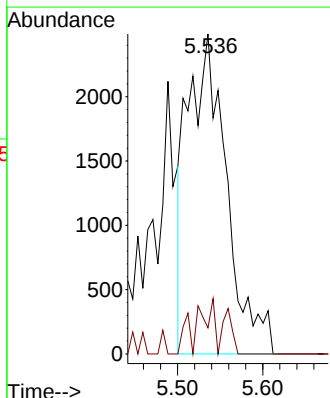
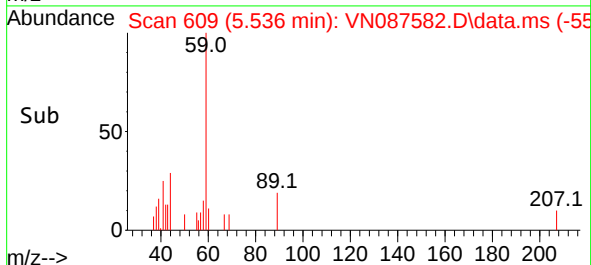
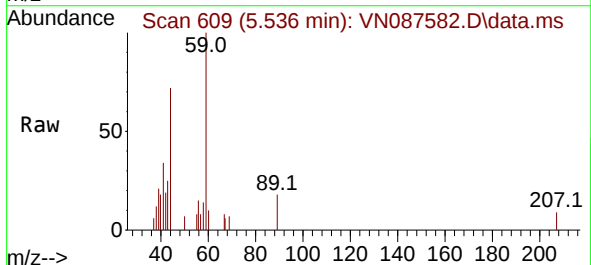


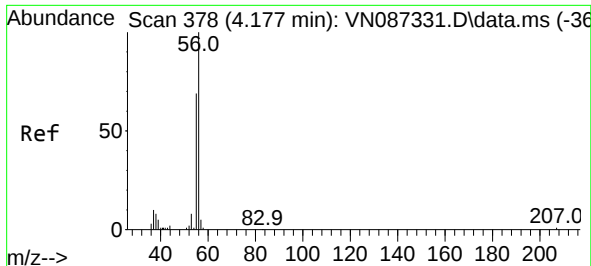
Tgt Ion:142 Resp: 493
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 8.643 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 59 Resp: 7888
Ion Ratio Lower Upper
59 100
57 5.8 8.3 12.5#

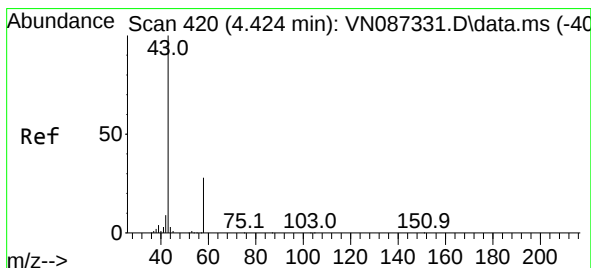
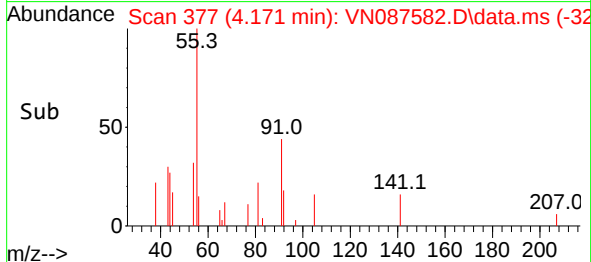
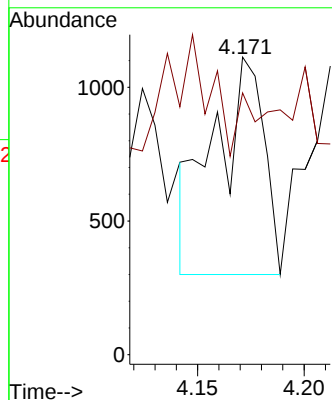
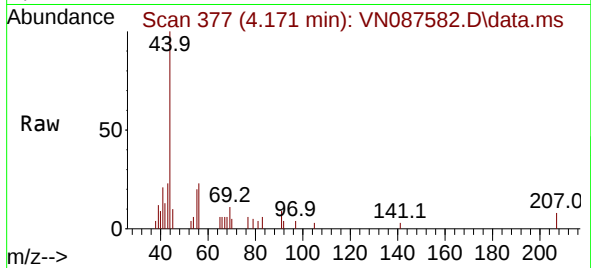




#13
Acrolein
Concen: 1.802 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

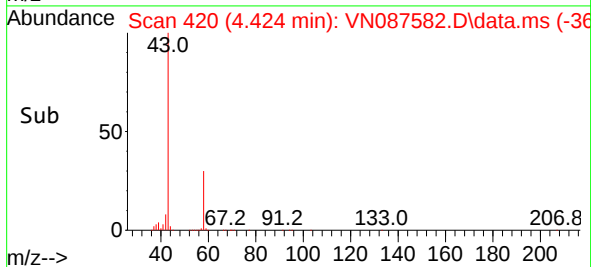
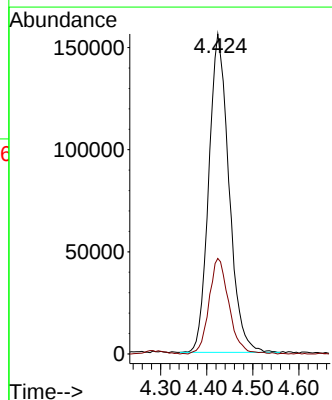
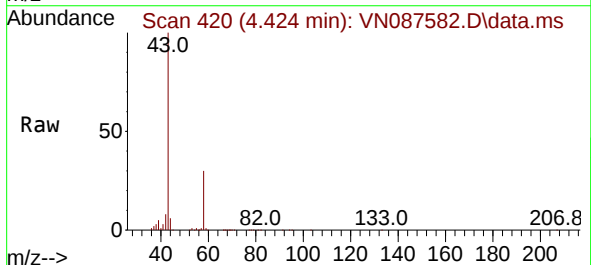
Instrument :
MSVOA_N
ClientSampleId :

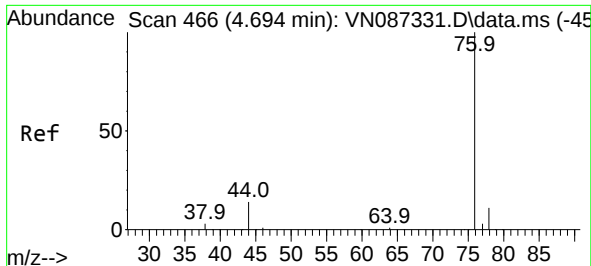
Tgt Ion: 56 Resp: 1320
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 211.001 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 43 Resp: 475520
Ion Ratio Lower Upper
43 100
58 30.0 22.3 33.5

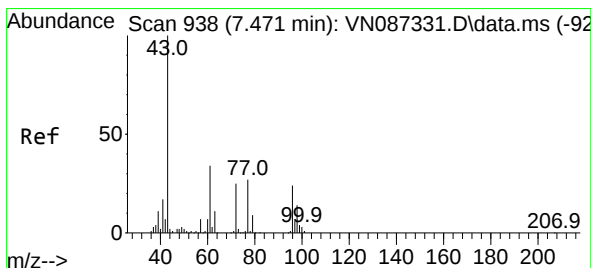
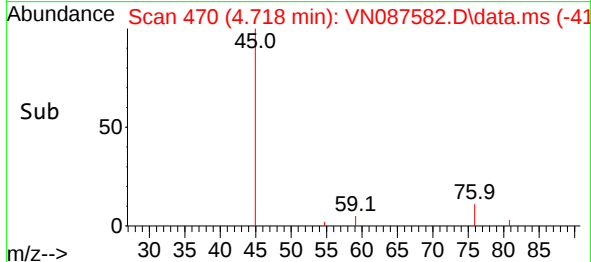
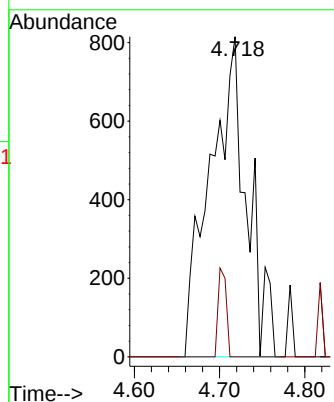
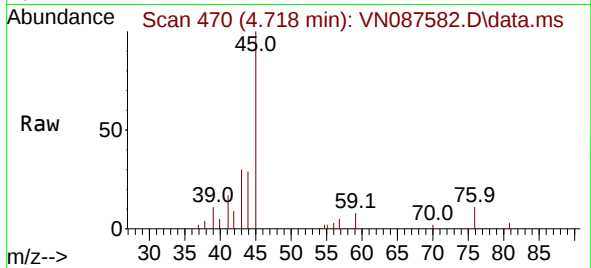




#17
Carbon Disulfide
Concen: 0.255 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.024 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

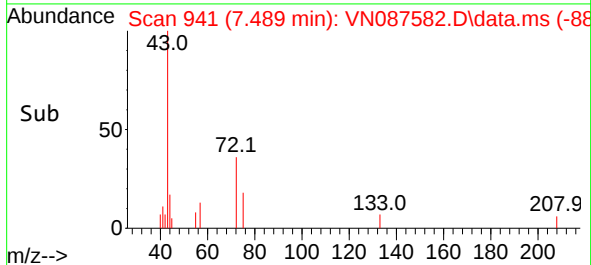
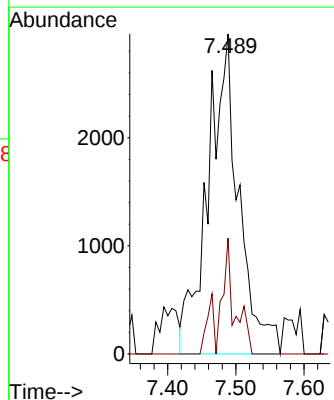
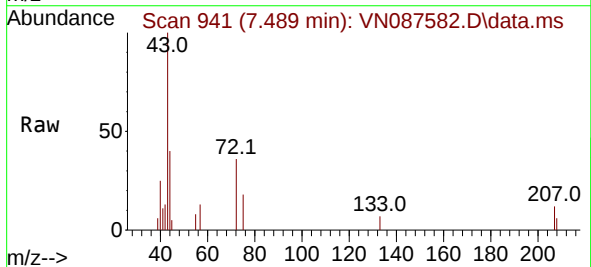
Instrument :
MSVOA_N
ClientSampleId :

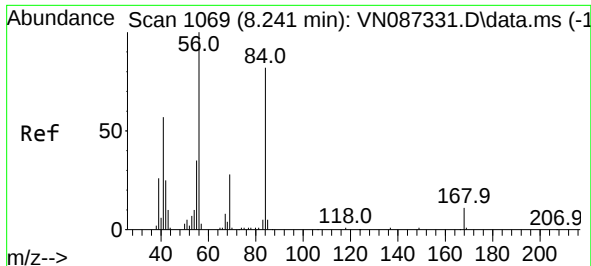
Tgt Ion: 76 Resp: 2445
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#



#25
2-Butanone
Concen: 2.681 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 43 Resp: 9336
Ion Ratio Lower Upper
43 100
72 36.2 19.6 29.4#





#31

Cyclohexane

Concen: 1.643 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.029 min

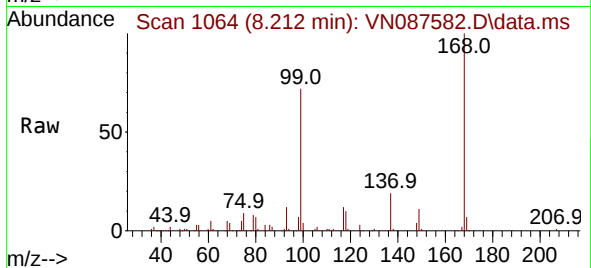
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Acq: 15 Aug 2025 15:19

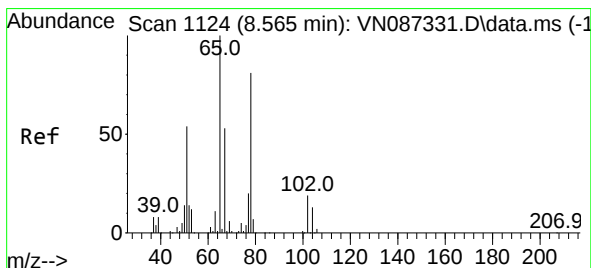
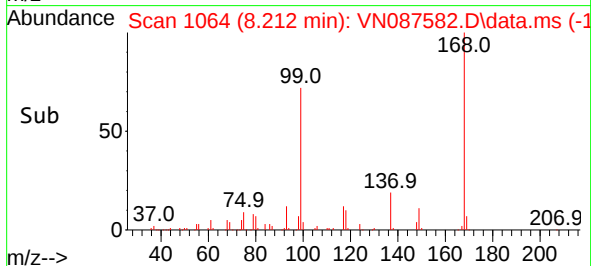
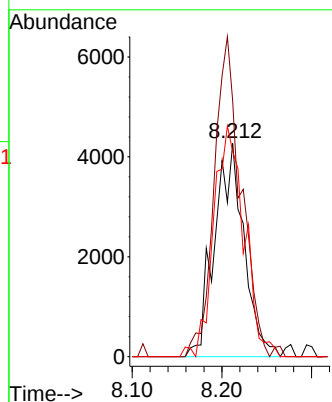
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	9710
Ion Ratio	100	Lower	Upper
56	100		
69	119.9	22.7	34.1#
84	96.3	65.8	98.6



#33

1,2-Dichloroethane-d4

Concen: 56.780 ug/l

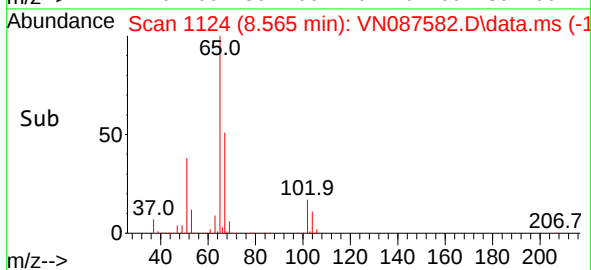
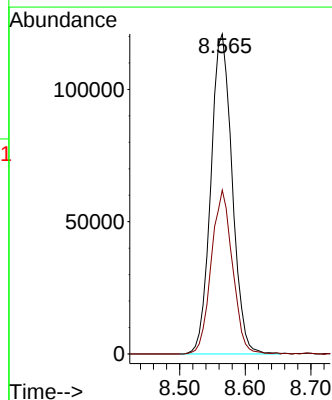
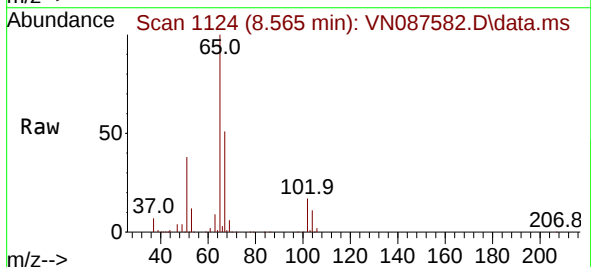
RT: 8.565 min Scan# 1124

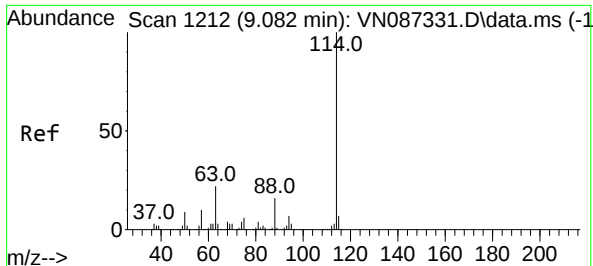
Delta R.T. 0.000 min

Lab File: VN087582.D

Acq: 15 Aug 2025 15:19

Tgt Ion:	65	Resp:	272912
Ion Ratio	100	Lower	Upper
65	100		
67	50.9	0.0	104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN087582.D

Acq: 15 Aug 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

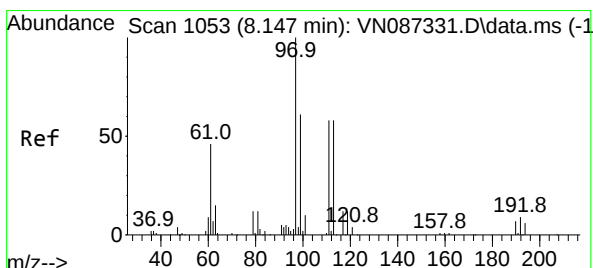
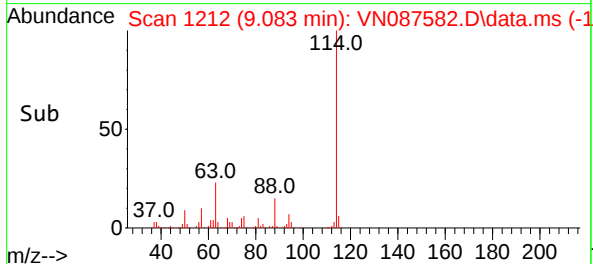
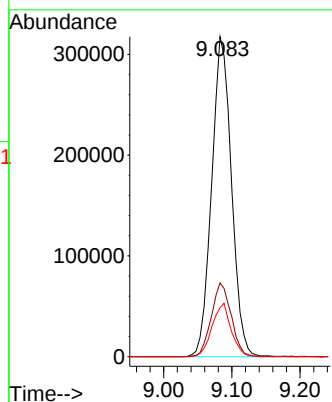
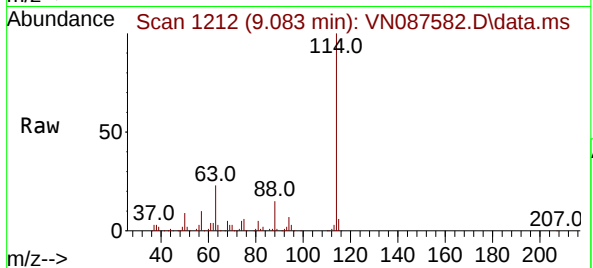
Tgt Ion:114 Resp: 641823

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.6

88 15.2 0.0 32.8



#35

Dibromofluoromethane

Concen: 44.469 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087582.D

Acq: 15 Aug 2025 15:19

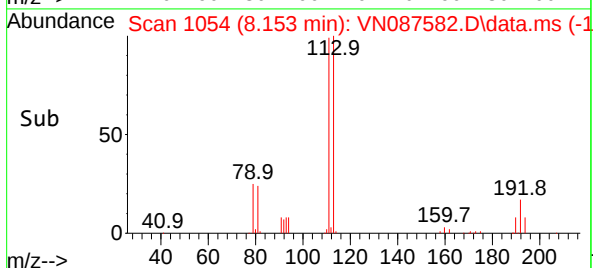
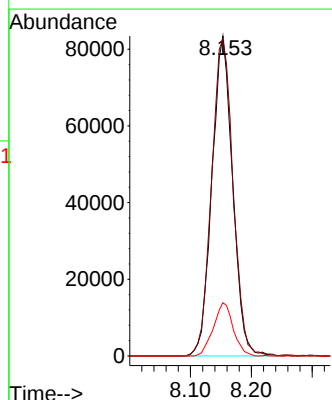
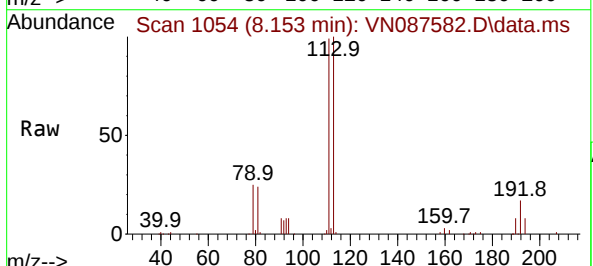
Tgt Ion:113 Resp: 196879

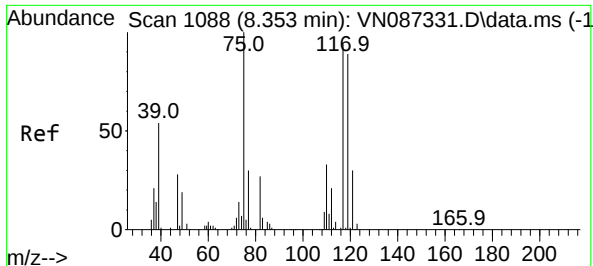
Ion Ratio Lower Upper

113 100

111 102.8 82.5 123.7

192 15.9 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.174 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087582.D

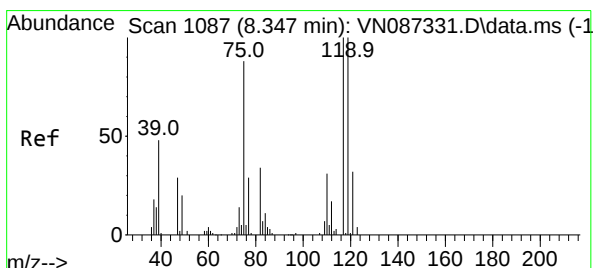
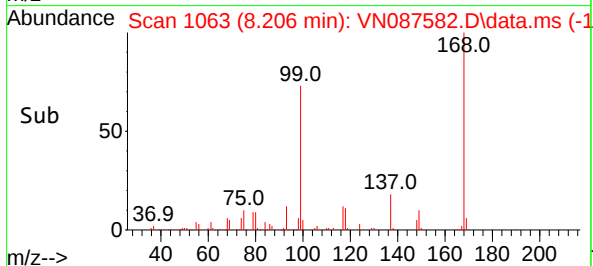
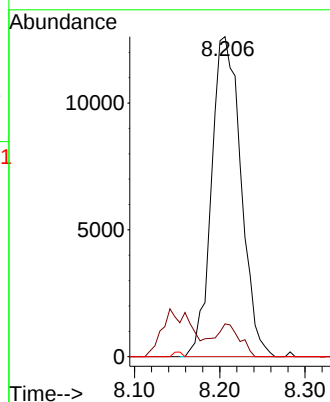
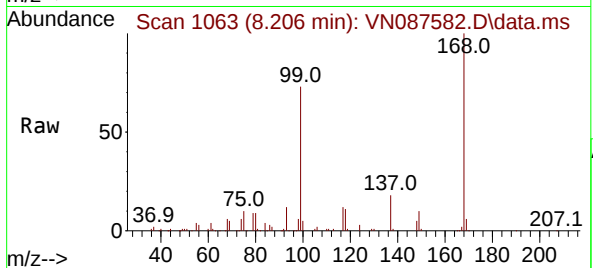
Acq: 15 Aug 2025 15:19

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	30265
Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.7	50.1#
77	0.0	25.2	37.8#



#38

Carbon Tetrachloride

Concen: 5.330 ug/l

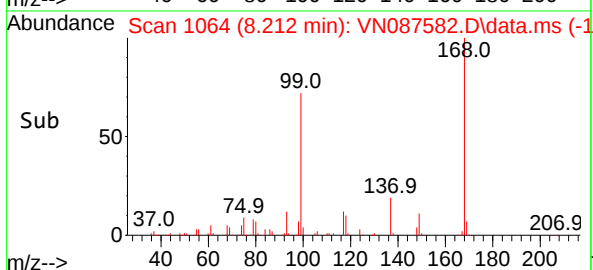
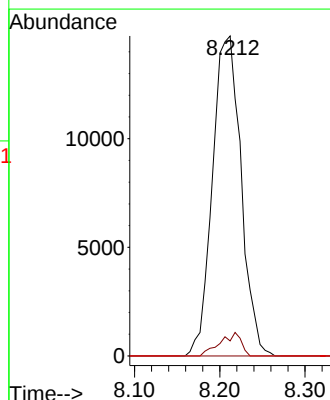
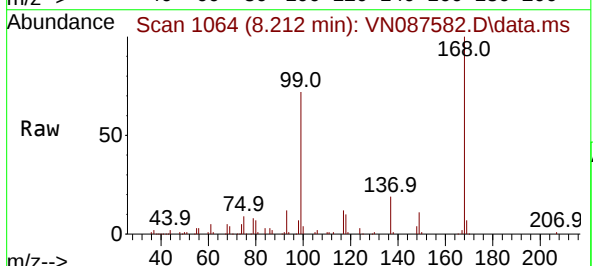
RT: 8.212 min Scan# 1064

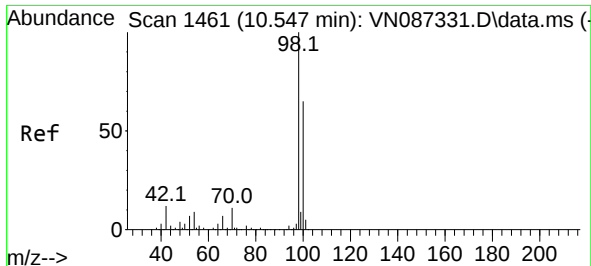
Delta R.T. -0.135 min

Lab File: VN087582.D

Acq: 15 Aug 2025 15:19

Tgt Ion:	117	Resp:	34343
Ion	Ratio	Lower	Upper
117	100		
119	4.7	80.2	120.2#
121	0.0	25.4	38.2#

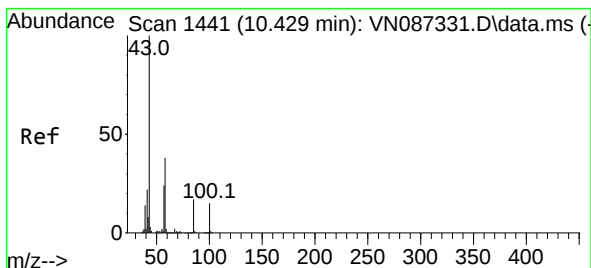
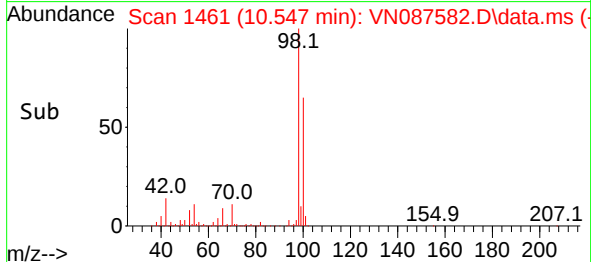
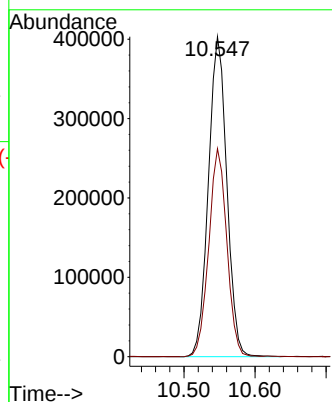
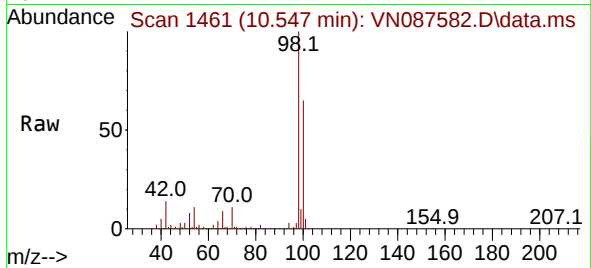




#50
Toluene-d8
Concen: 45.952 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

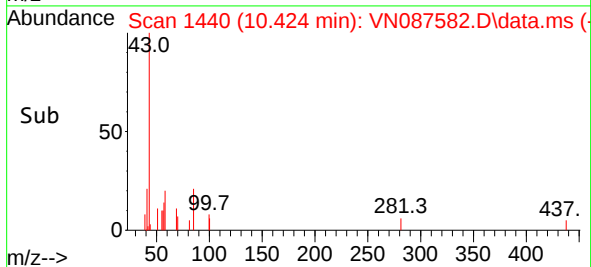
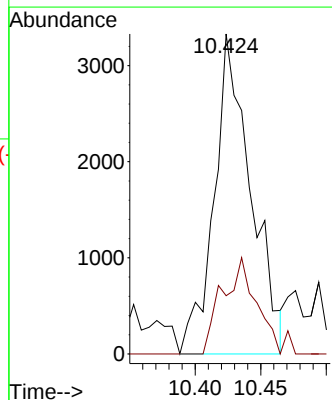
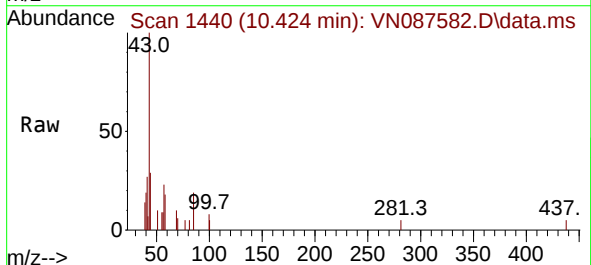
Instrument :
MSVOA_N
ClientSampleId :

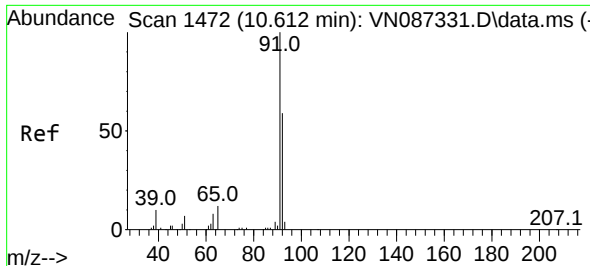
Tgt Ion: 98 Resp: 725706
Ion Ratio Lower Upper
98 100
100 63.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 0.782 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.005 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 43 Resp: 6486
Ion Ratio Lower Upper
43 100
58 29.0 30.8 46.2#

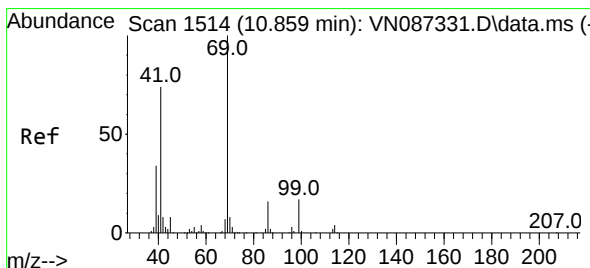
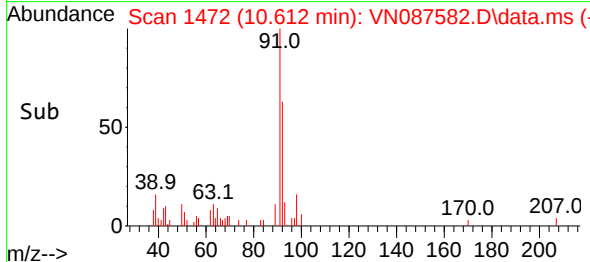
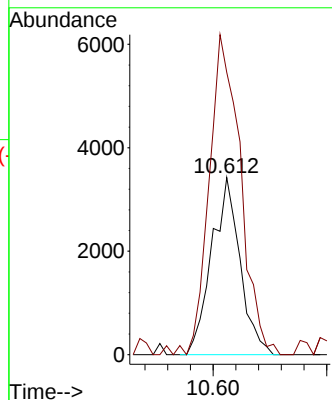
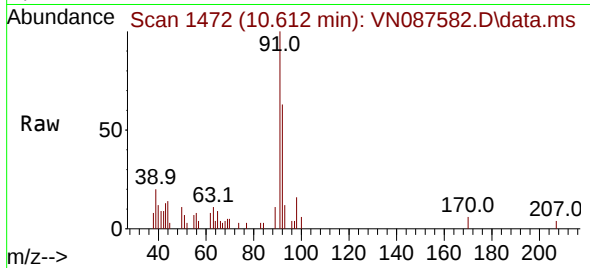




#52
Toluene
Concen: 0.518 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

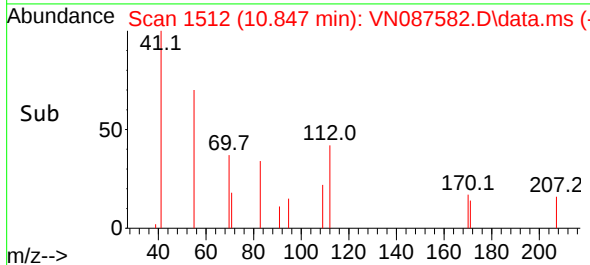
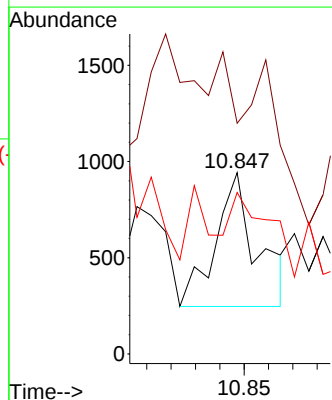
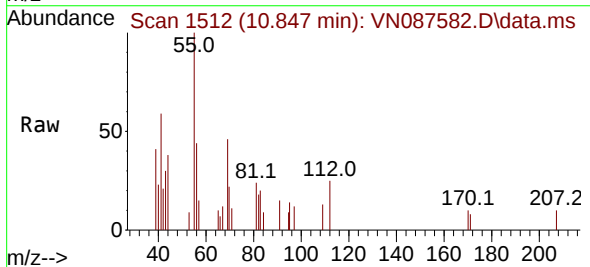
Instrument :
MSVOA_N
ClientSampleId :

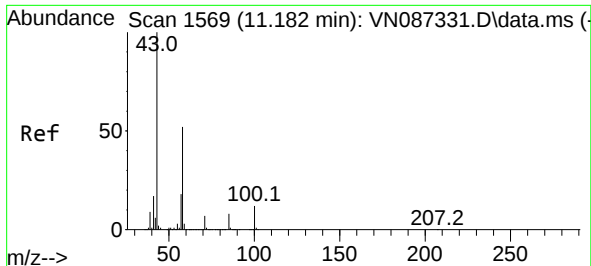
Tgt Ion: 92 Resp: 5950
Ion Ratio Lower Upper
92 100
91 198.5 135.1 202.7



#56
Ethyl methacrylate
Concen: 0.742 ug/l
RT: 10.847 min Scan# 1512
Delta R.T. -0.012 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 69 Resp: 819
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#

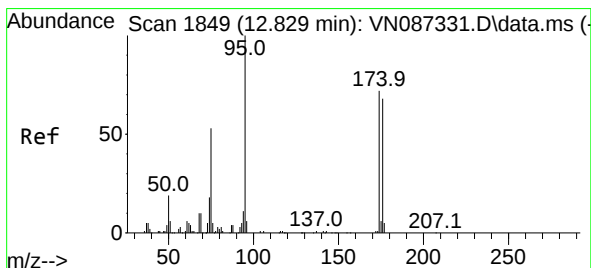
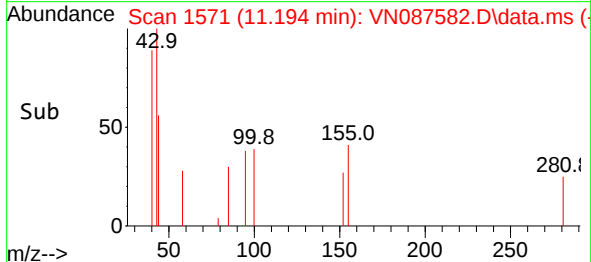
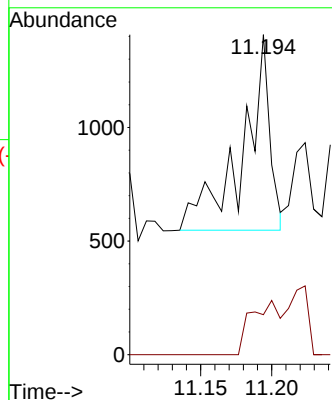
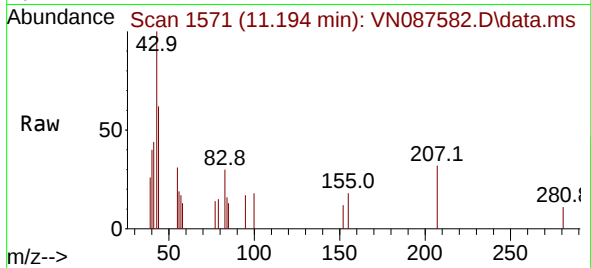




#59
2-Hexanone
Concen: 0.207 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.012 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

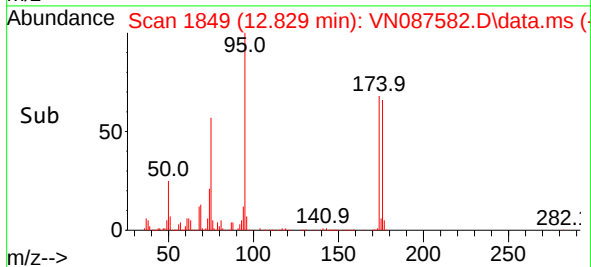
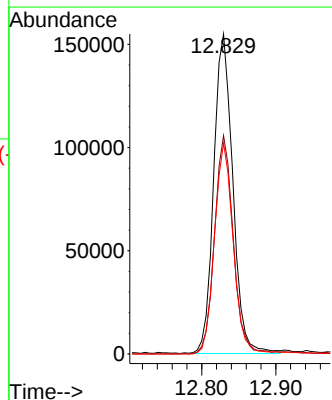
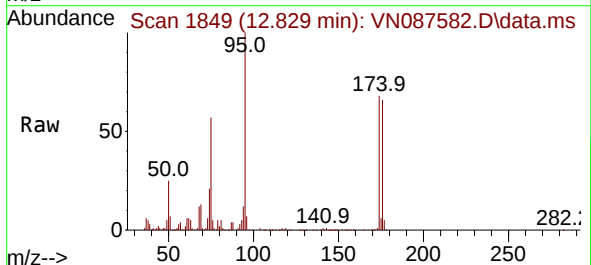
Instrument :
MSVOA_N
ClientSampleId :

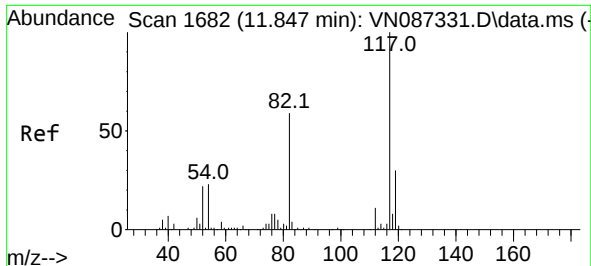
Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 29.3 26.7 80.0



#62
4-Bromofluorobenzene
Concen: 47.575 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 95 Resp: 277581
Ion Ratio Lower Upper
95 100
174 67.0 0.0 149.4
176 65.4 0.0 141.2

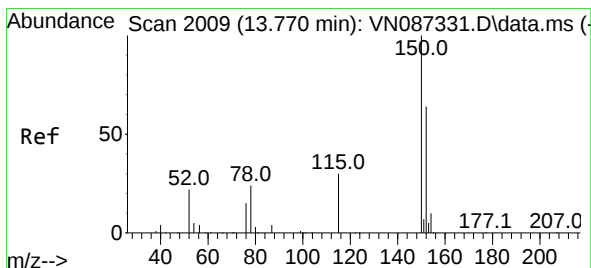
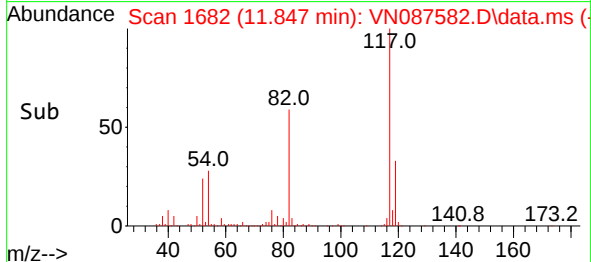
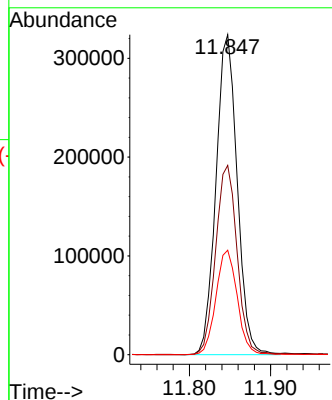
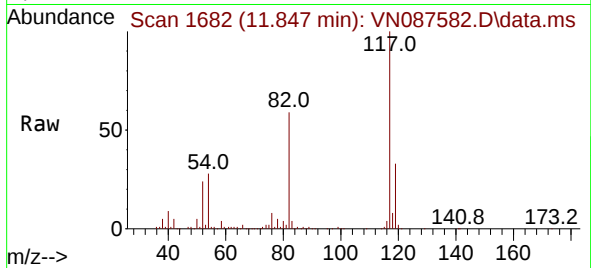




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

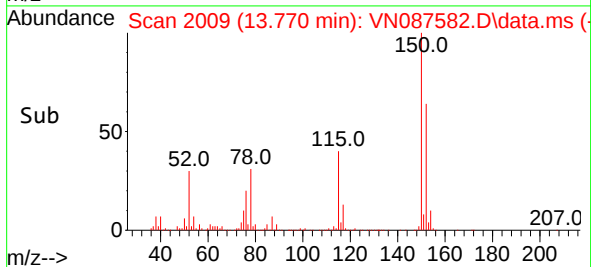
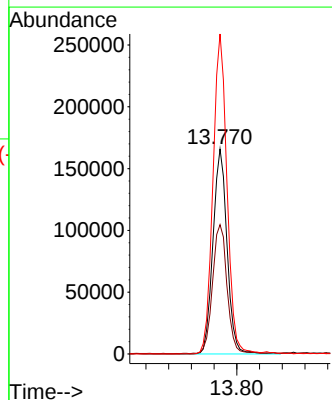
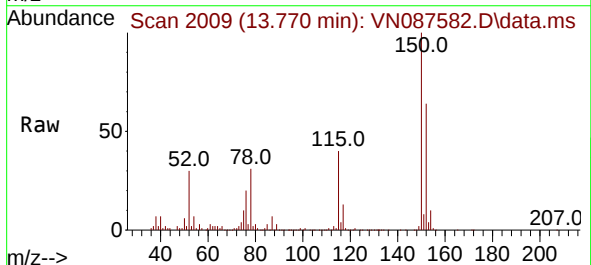
Instrument :
MSVOA_N
ClientSampleId :

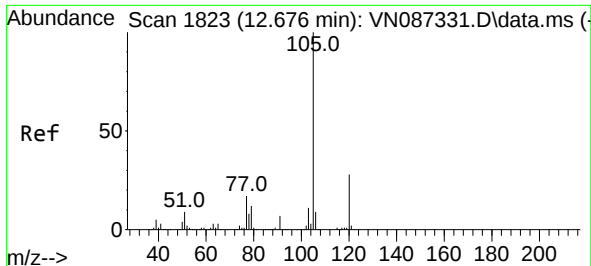
Tgt Ion:117 Resp: 589000
Ion Ratio Lower Upper
117 100
82 59.1 47.4 71.2
119 32.6 23.8 35.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion:152 Resp: 285041
Ion Ratio Lower Upper
152 100
115 64.6 31.1 93.5
150 155.0 0.0 349.0

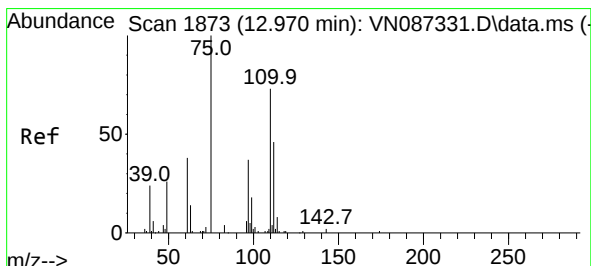
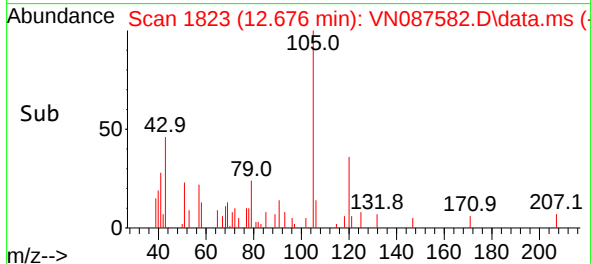
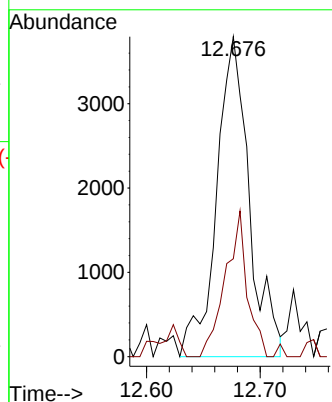
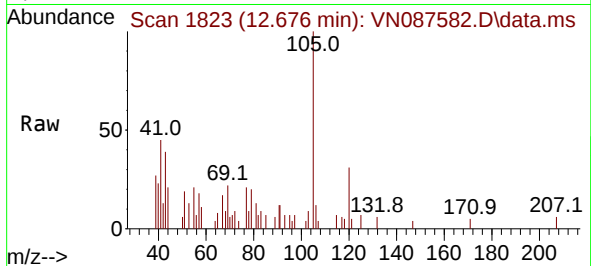




#73
Isopropylbenzene
Concen: 0.423 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

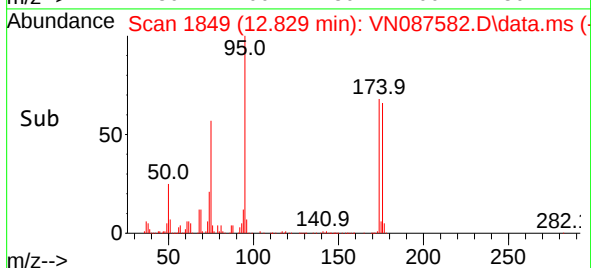
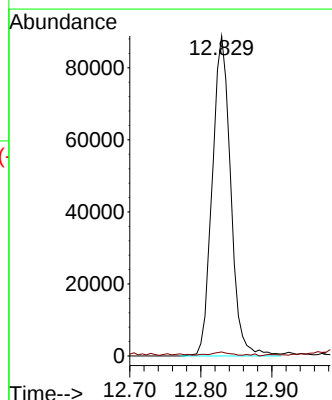
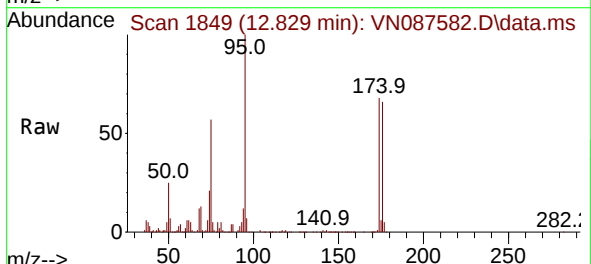
Instrument :
MSVOA_N
ClientSampleId :

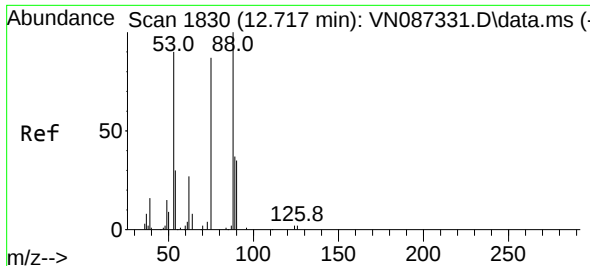
Tgt Ion:105 Resp: 7584
Ion Ratio Lower Upper
105 100
120 30.6 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 25.064 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

Tgt Ion: 75 Resp: 160207
Ion Ratio Lower Upper
75 100
77 0.9 94.5 283.6#

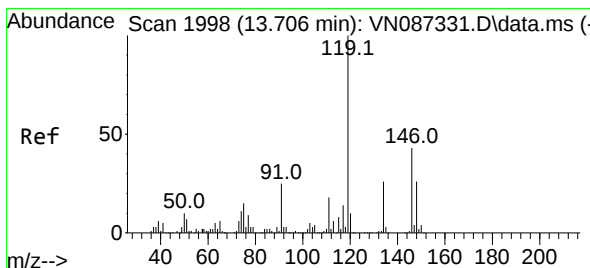
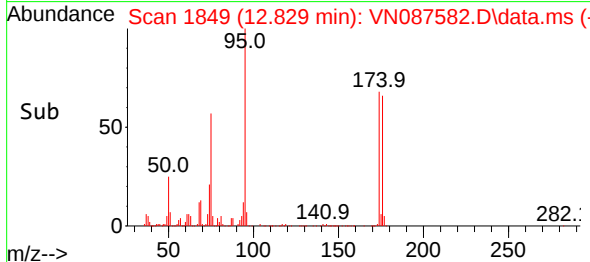
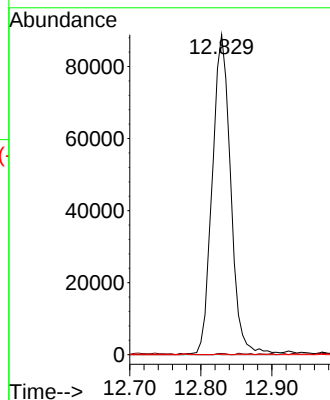
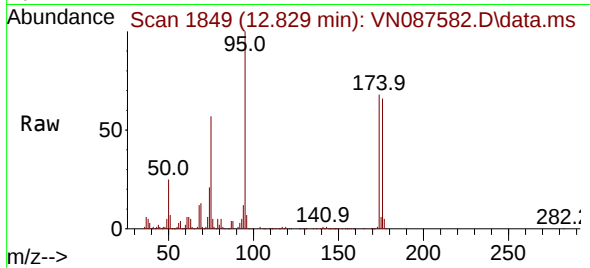




#81
trans-1,4-Dichloro-2-butene
Concen: 68.580 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

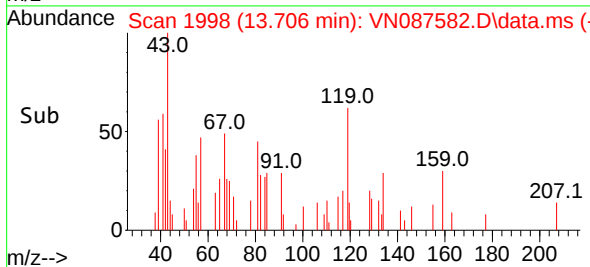
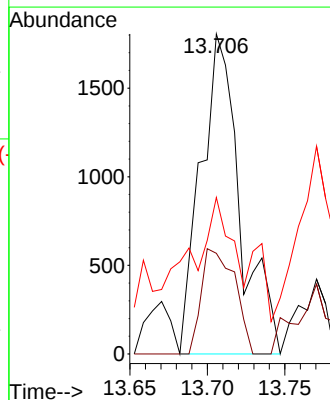
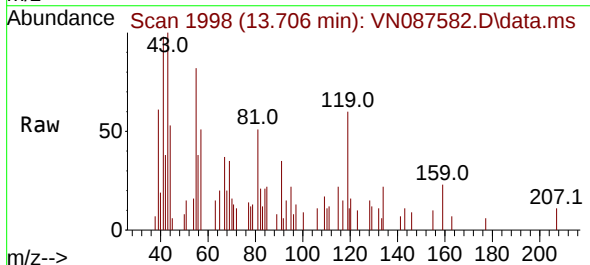
Instrument :
MSVOA_N
ClientSampleId :

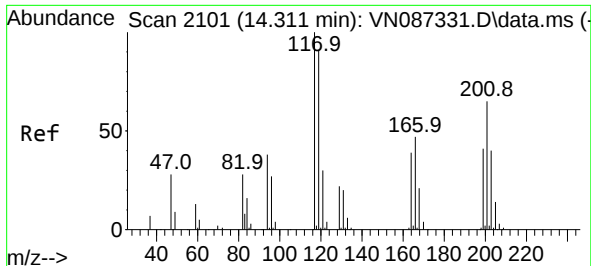
Tgt Ion: 75 Resp: 160207
Ion Ratio Lower Upper
75 100
53 0.2 83.5 125.3#
89 0.0 38.4 57.6#



#86
p-Isopropyltoluene
Concen: 0.206 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN087582.D
Acq: 15 Aug 2025 15:19

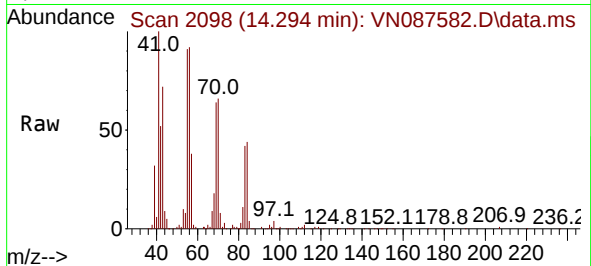
Tgt Ion: 119 Resp: 3180
Ion Ratio Lower Upper
119 100
134 28.0 13.5 40.5
91 54.3 12.2 36.6#





#90
 Hexachloroethane
 Concen: 0.218 ug/l
 RT: 14.294 min Scan# 20
 Delta R.T. -0.017 min
 Lab File: VN087582.D
 Acq: 15 Aug 2025 15:19

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:117 Resp: 711
 Ion Ratio Lower Upper
 117 100
 201 0.0 32.8 98.4#

