

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087533.D
 Acq On : 13 Aug 2025 14:29
 Operator : JC\MD
 Sample : Q2816-08RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:00:43 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)

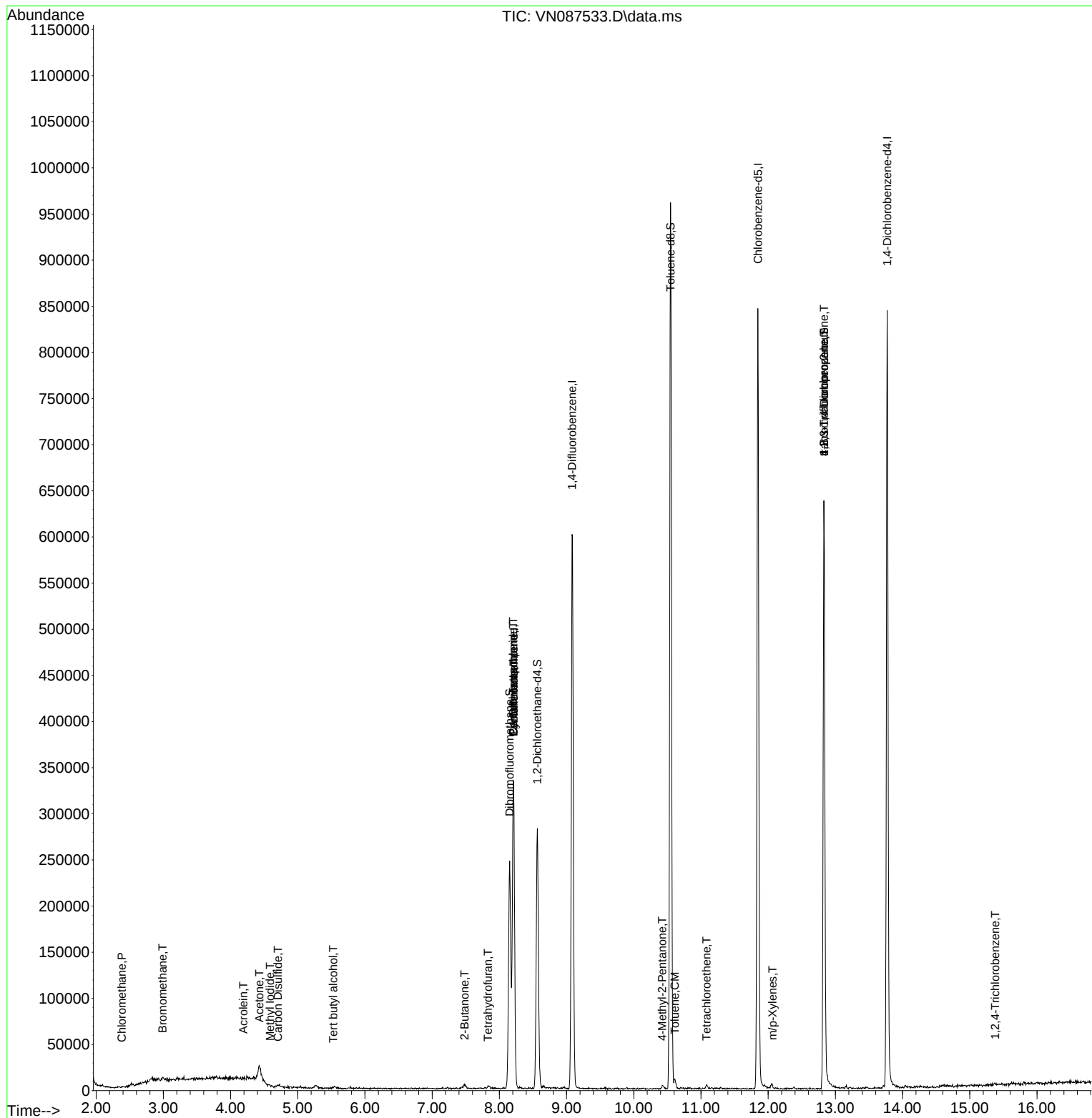
Internal Standards						
1) Pentafluorobenzene	8.212	168	221955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	492245	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	450681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	210279	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	234128	62.167	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 124.340%		
35) Dibromofluoromethane	8.153	113	168497	49.624	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 99.240%		
50) Toluene-d8	10.547	98	629280	51.954	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 103.900%		
62) 4-Bromofluorobenzene	12.829	95	225507	50.394	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 100.780%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	626	0.211	ug/l #	42
5) Bromomethane	2.989	94	497	0.326	ug/l	96
10) Methyl Iodide	4.589	142	508	5.827	ug/l #	65
11) Tert butyl alcohol	5.530	59	1343	1.878	ug/l #	72
13) Acrolein	4.189	56	558	0.972	ug/l #	12
16) Acetone	4.430	43	27489	15.567	ug/l	97
17) Carbon Disulfide	4.706	76	1888	0.251	ug/l #	71
20) Methylene Chloride	5.253	84	1655	Below Cal	#	73
25) 2-Butanone	7.483	43	6714	2.461	ug/l #	88
29) Tetrahydrofuran	7.830	42	828	0.467	ug/l	96
31) Cyclohexane	8.212	56	8091	1.748	ug/l #	33
36) 1,1-Dichloropropene	8.206	75	22367	4.986	ug/l #	50
38) Carbon Tetrachloride	8.206	117	27351	5.535	ug/l #	13
51) 4-Methyl-2-Pentanone	10.424	43	2984	0.469	ug/l	90
52) Toluene	10.612	92	3589	0.407	ug/l	97
64) Tetrachloroethene	11.082	164	844	0.291	ug/l #	84
68) m/p-Xylenes	12.065	106	1491	0.239	ug/l	86
76) 1,2,3-Trichloropropane	12.829	75	131220	27.828	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	131220	76.143	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.376	180	816	0.218	ug/l	94

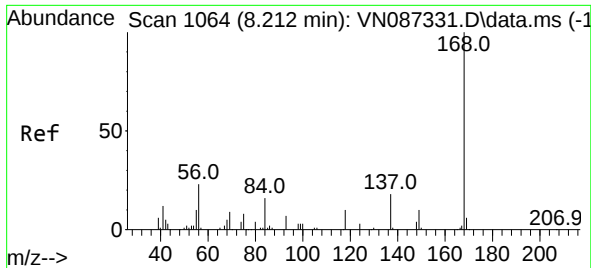
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : Q2816-08RE
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MSVOA_N
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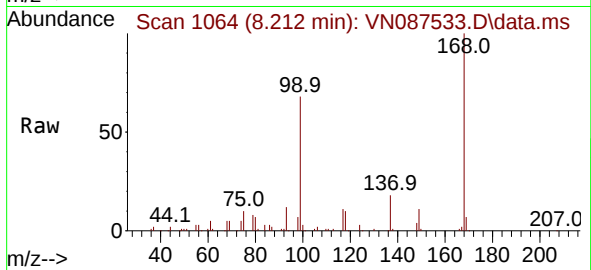
Quant Time: Aug 14 04:00:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



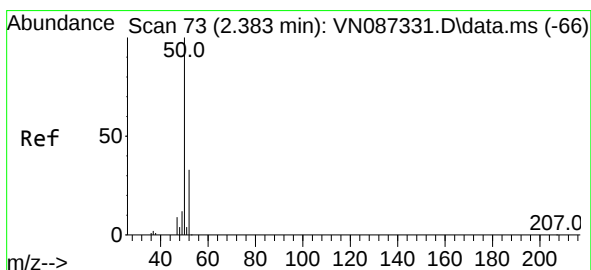
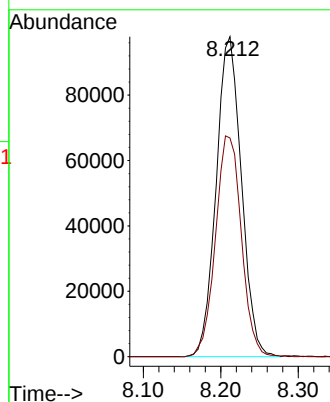
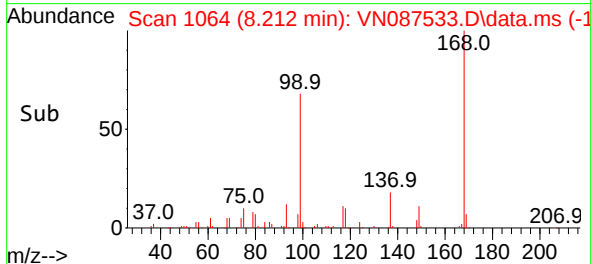


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :

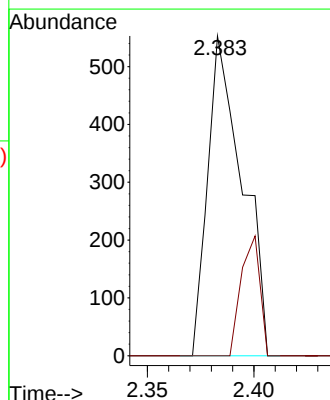
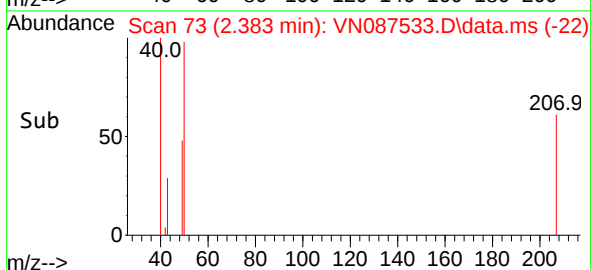
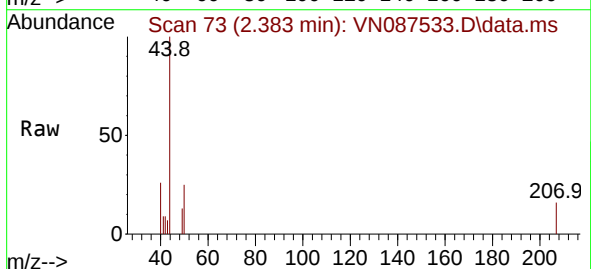


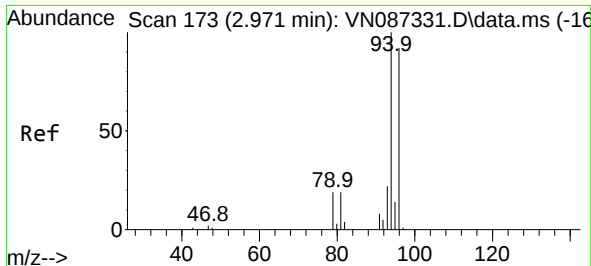
Tgt Ion:168 Resp: 221955
Ion Ratio Lower Upper
168 100
99 68.3 47.9 71.9



#3
Chloromethane
Concen: 0.211 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion: 50 Resp: 626
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#

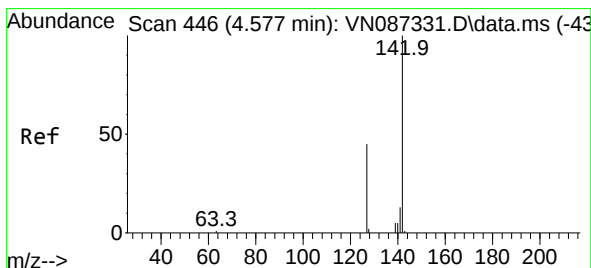
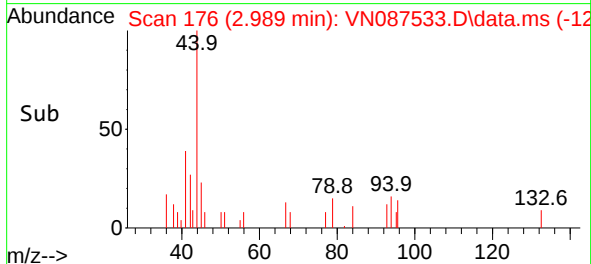
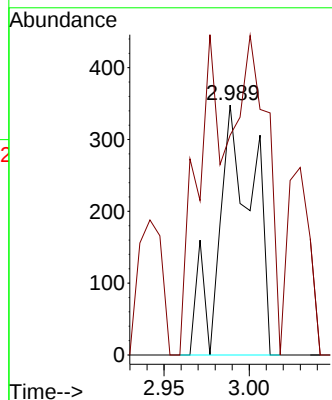
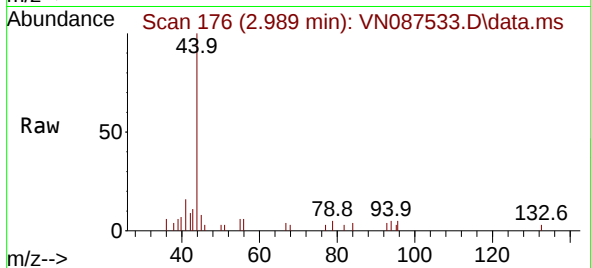




#5
Bromomethane
Concen: 0.326 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

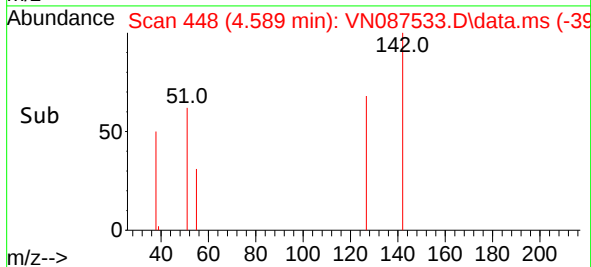
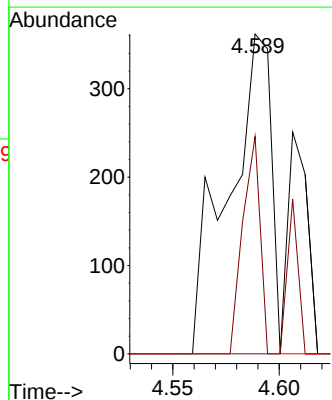
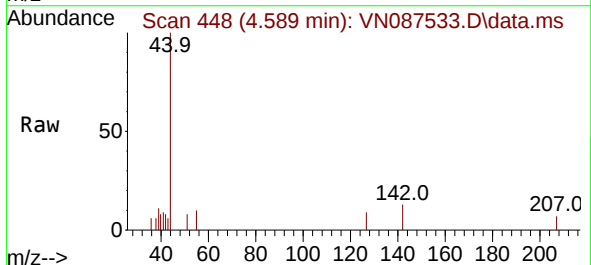
Instrument :
MSVOA_N
ClientSampleId :

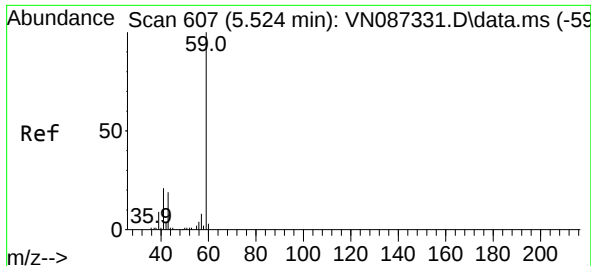
Tgt Ion: 94 Resp: 497
Ion Ratio Lower Upper
94 100
96 87.9 73.4 110.2



#10
Methyl Iodide
Concen: 5.827 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion:142 Resp: 508
Ion Ratio Lower Upper
142 100
127 68.0 35.7 53.5#
141 0.0 10.4 15.6#

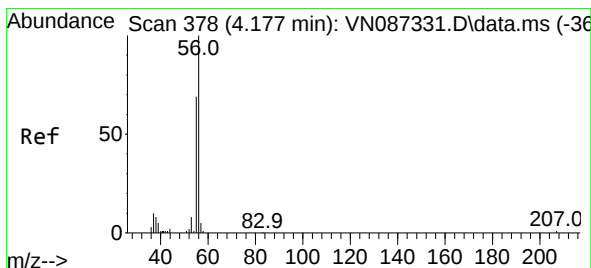
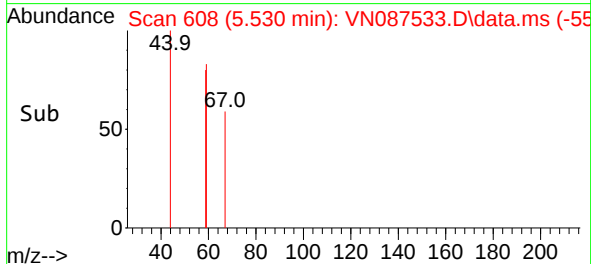
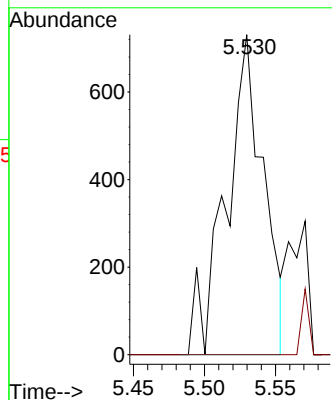
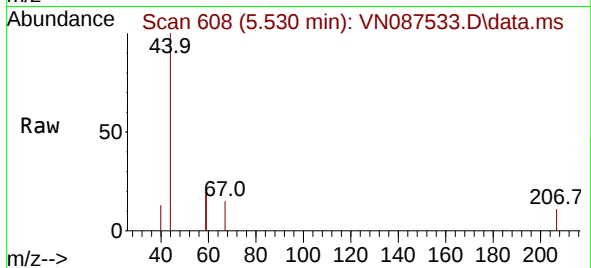




#11
Tert butyl alcohol
Concen: 1.878 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

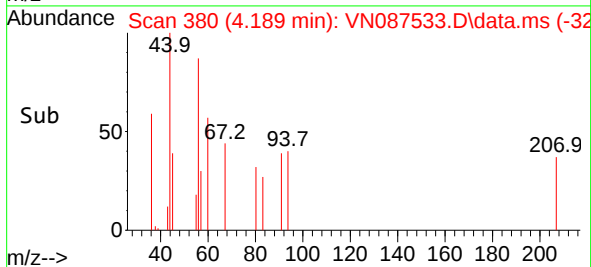
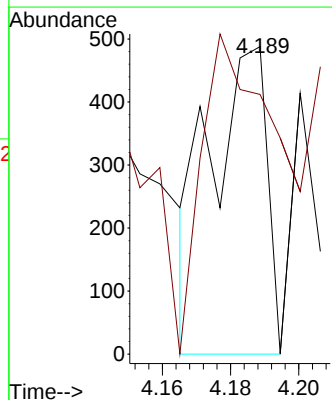
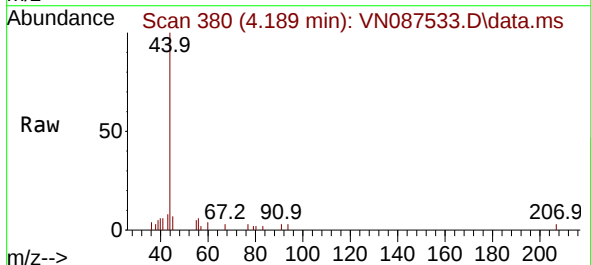
Instrument :
MSVOA_N
ClientSampleId :

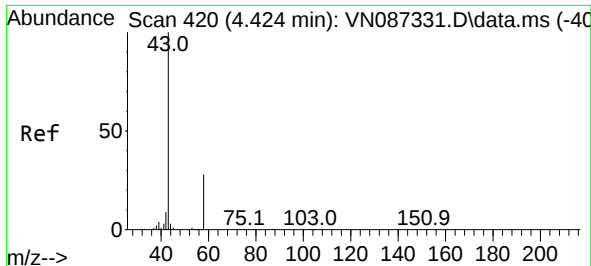
Tgt Ion: 59 Resp: 1343
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.972 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion: 56 Resp: 558
Ion Ratio Lower Upper
56 100
55 142.5 56.2 84.4#

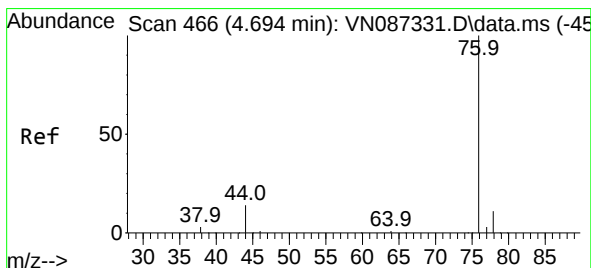
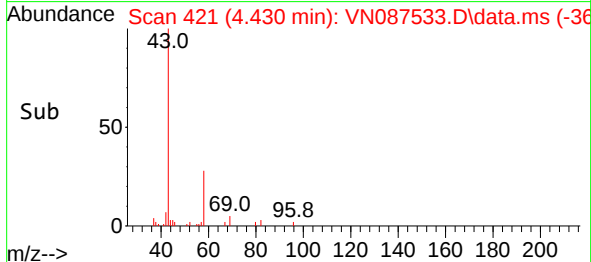
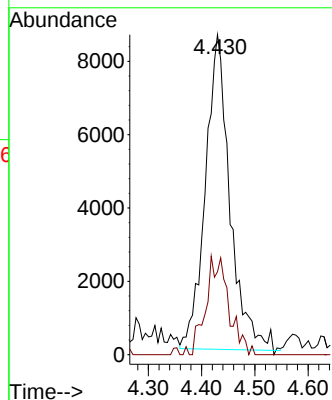
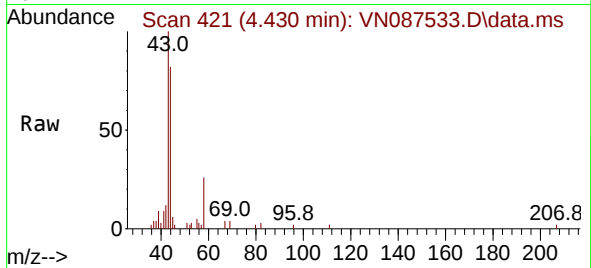




#16
Acetone
Concen: 15.567 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

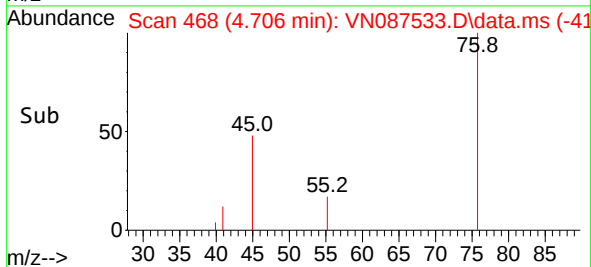
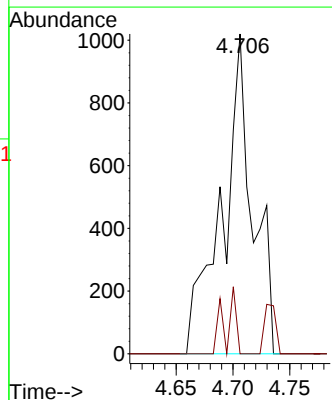
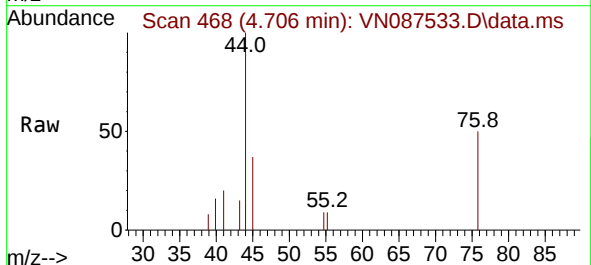
Instrument :
MSVOA_N
ClientSampleId :

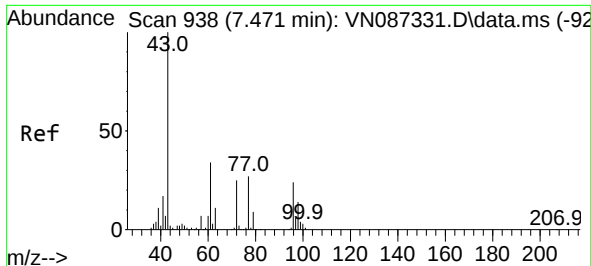
Tgt Ion: 43 Resp: 27489
Ion Ratio Lower Upper
43 100
58 26.4 22.3 33.5



#17
Carbon Disulfide
Concen: 0.251 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.012 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion: 76 Resp: 1888
Ion Ratio Lower Upper
76 100
78 0.0 8.6 13.0#

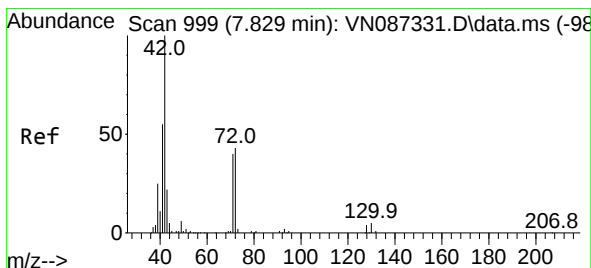
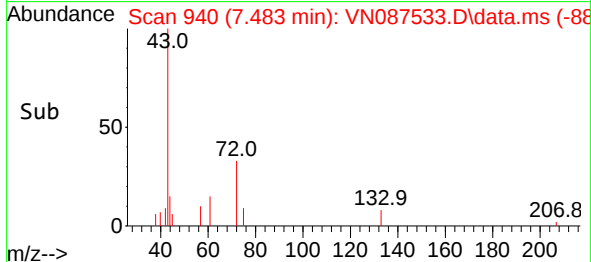
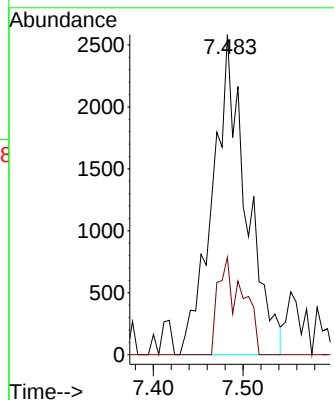
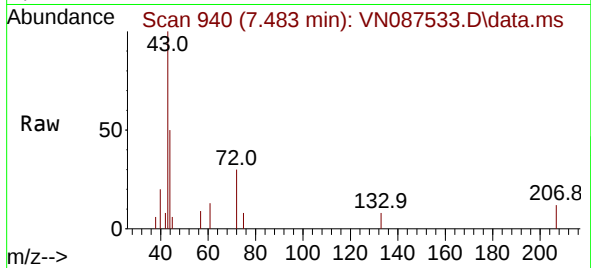




#25
2-Butanone
Concen: 2.461 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

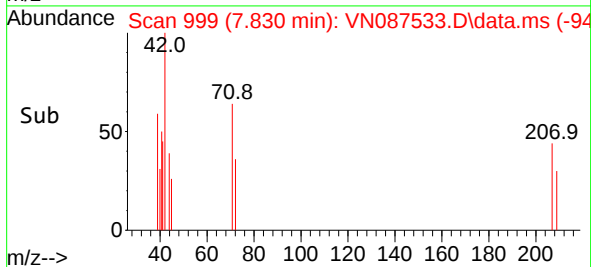
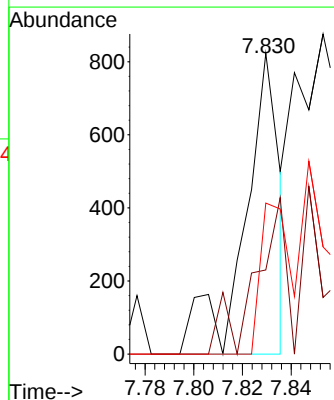
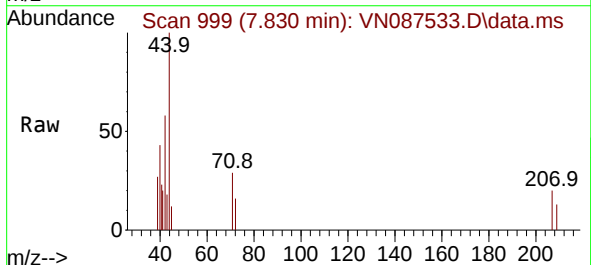
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MSVOA_N
ClientSampleId :

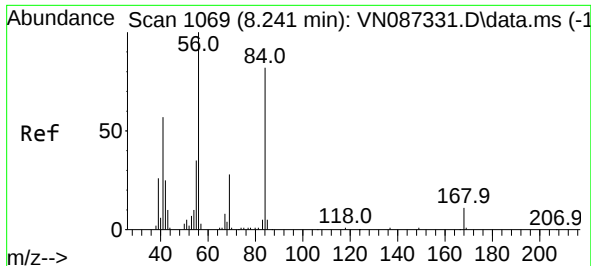
Tgt Ion: 43 Resp: 6714
Ion Ratio Lower Upper
43 100
72 30.5 19.6 29.4#



#29
Tetrahydrofuran
Concen: 0.467 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

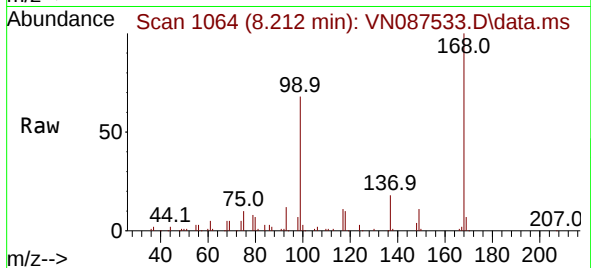
Tgt Ion: 42 Resp: 828
Ion Ratio Lower Upper
42 100
72 44.7 33.4 50.0
71 41.3 31.2 46.8



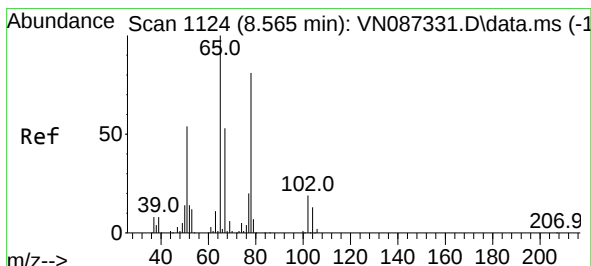
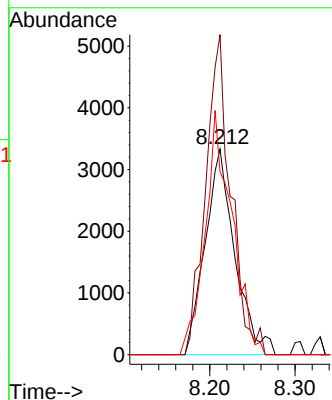
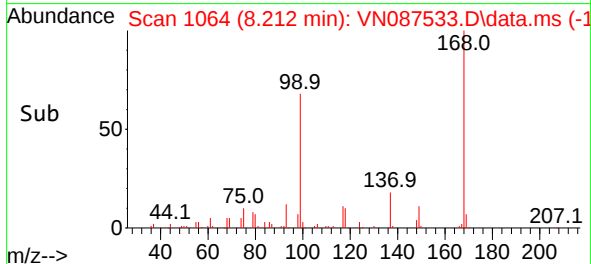


#31
Cyclohexane
Concen: 1.748 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Instrument :
MSVOA_N
ClientSampleId :

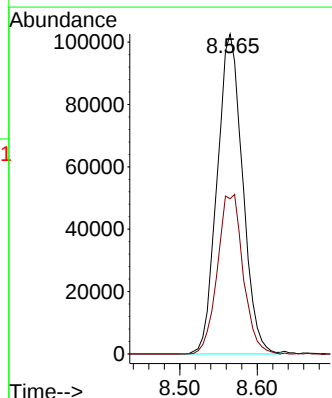
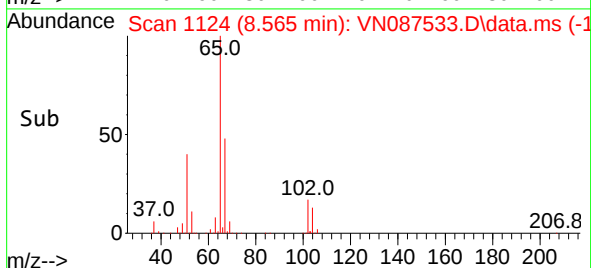
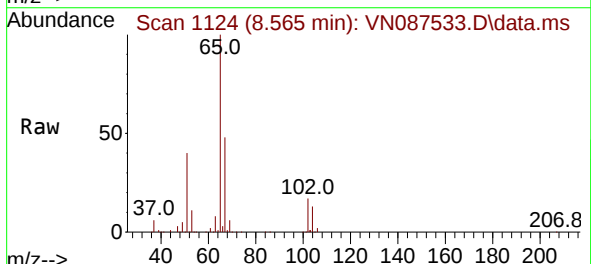


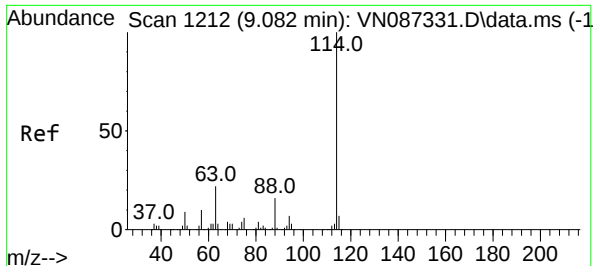
Tgt Ion: 56 Resp: 8091
Ion Ratio Lower Upper
56 100
69 155.6 22.7 34.1#
84 88.9 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 62.167 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion: 65 Resp: 234128
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.0

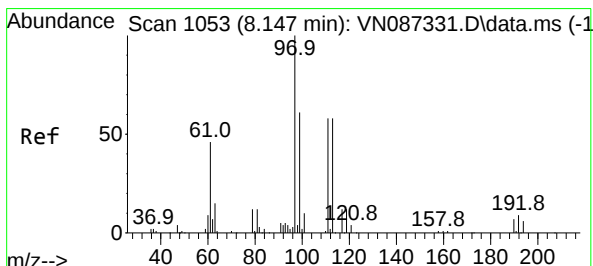
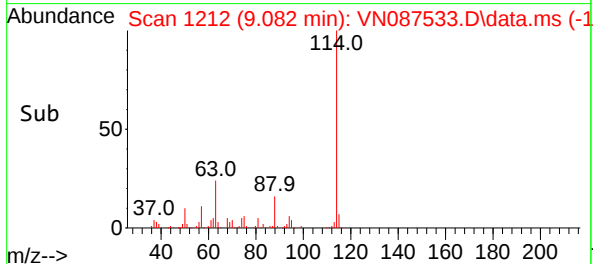
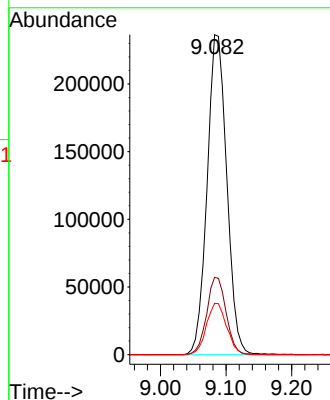
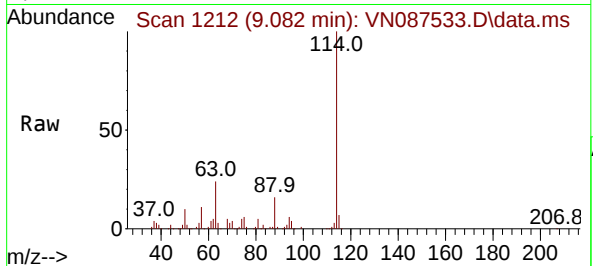




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

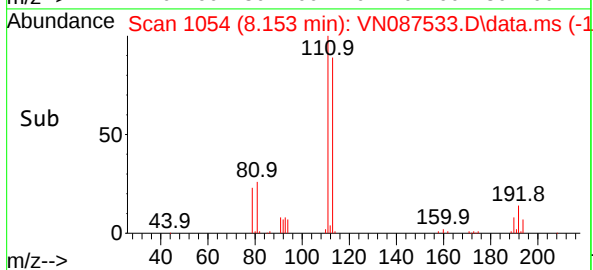
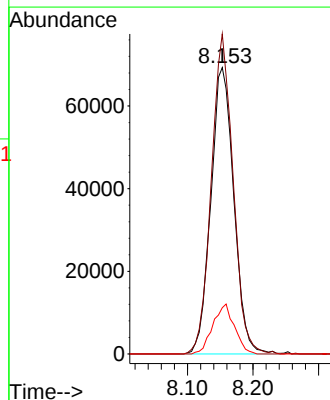
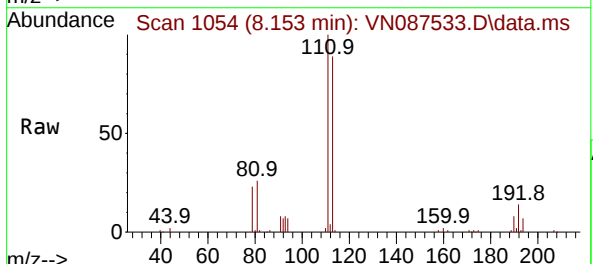
Instrument :
MSVOA_N
ClientSampleId :

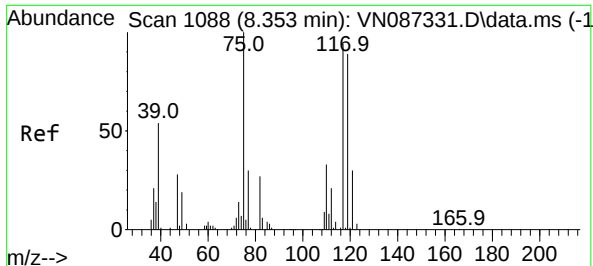
Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	44.6
88	16.1	0.0	32.8



#35
Dibromofluoromethane
Concen: 49.624 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.006 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.5	123.7
192	16.4	13.7	20.5

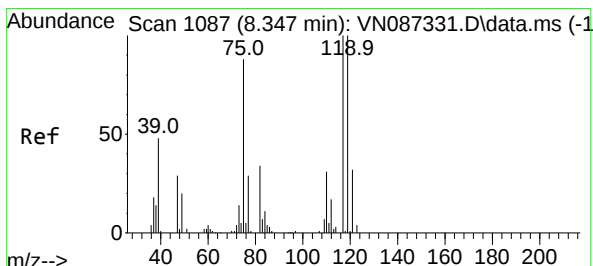
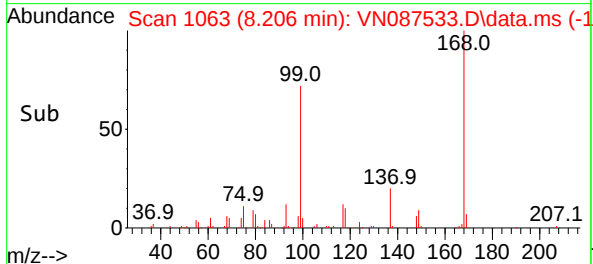
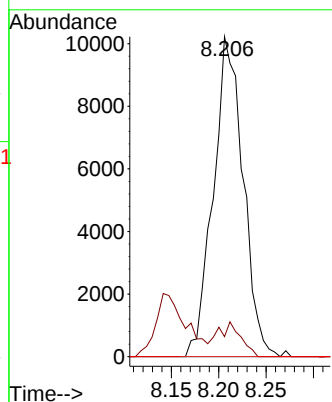
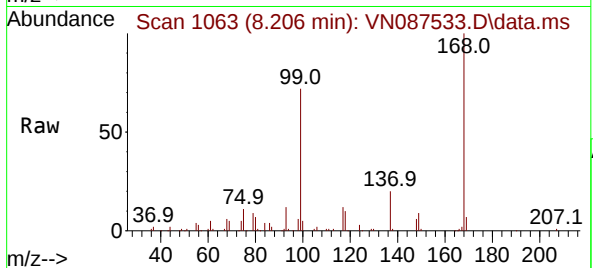




#36
 1,1-Dichloropropene
 Concen: 4.986 ug/l
 RT: 8.206 min Scan# 1063
 Delta R.T. -0.147 min
 Lab File: VN087533.D
 Acq: 13 Aug 2025 14:29

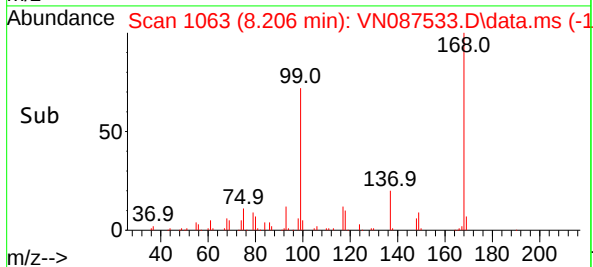
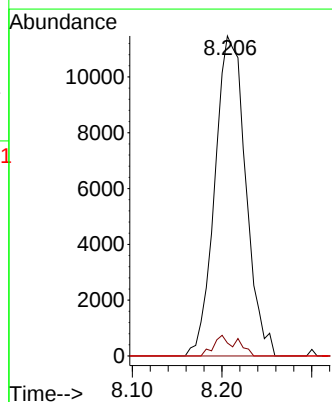
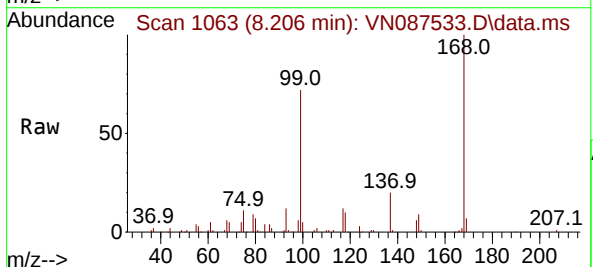
Instrument :
 MSVOA_N
 ClientSampleId :

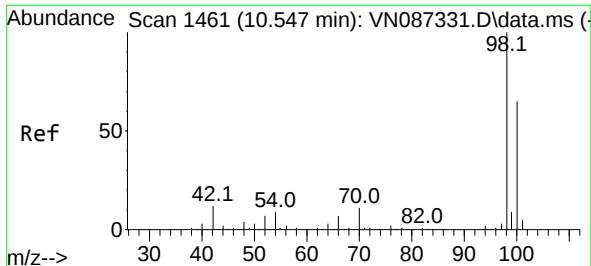
Tgt Ion: 75 Resp: 22367
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.7 50.1#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 5.535 ug/l
 RT: 8.206 min Scan# 1063
 Delta R.T. -0.141 min
 Lab File: VN087533.D
 Acq: 13 Aug 2025 14:29

Tgt Ion: 117 Resp: 27351
 Ion Ratio Lower Upper
 117 100
 119 4.0 80.2 120.2#
 121 0.0 25.4 38.2#





#50

Toluene-d8

Concen: 51.954 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087533.D

Acq: 13 Aug 2025 14:29

Instrument :

MSVOA_N

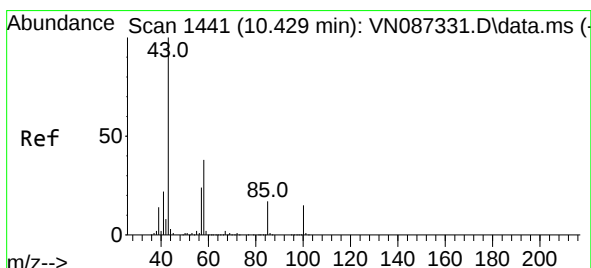
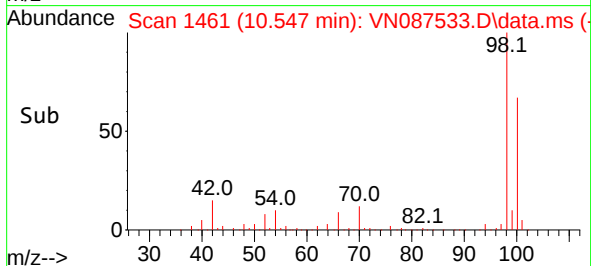
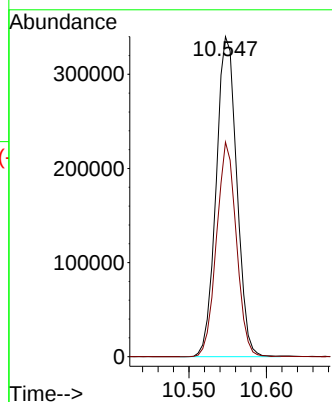
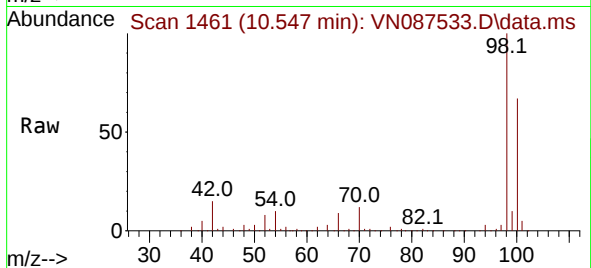
ClientSampleId :

Tgt Ion: 98 Resp: 629280

Ion Ratio Lower Upper

98 100

100 64.4 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 0.469 ug/l

RT: 10.424 min Scan# 1440

Delta R.T. -0.005 min

Lab File: VN087533.D

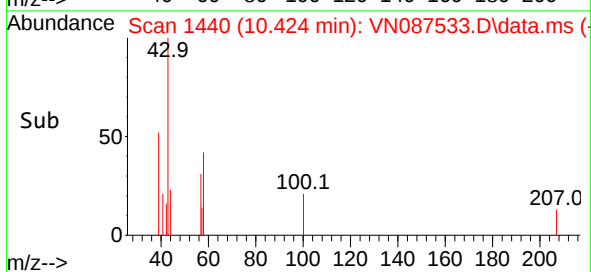
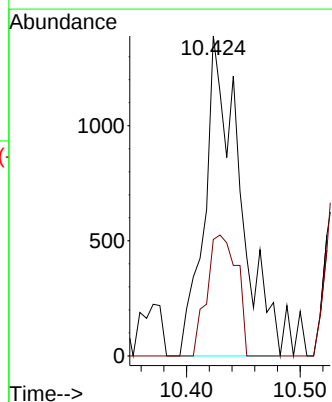
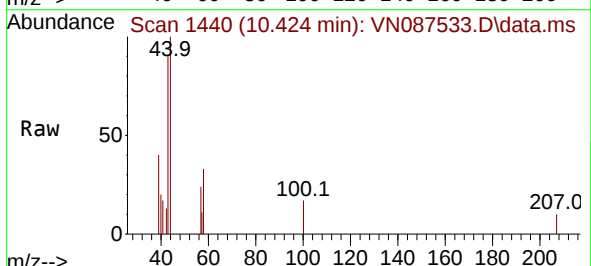
Acq: 13 Aug 2025 14:29

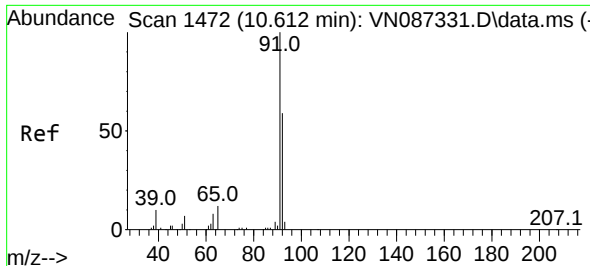
Tgt Ion: 43 Resp: 2984

Ion Ratio Lower Upper

43 100

58 32.4 30.8 46.2

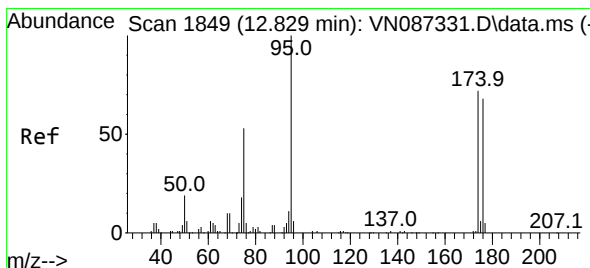
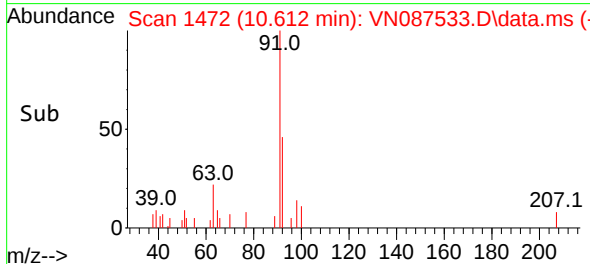
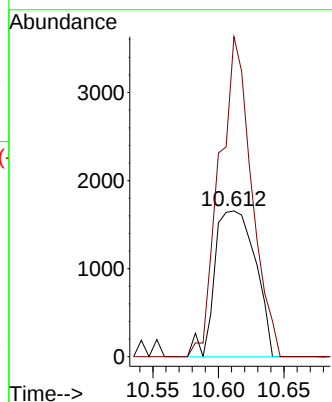
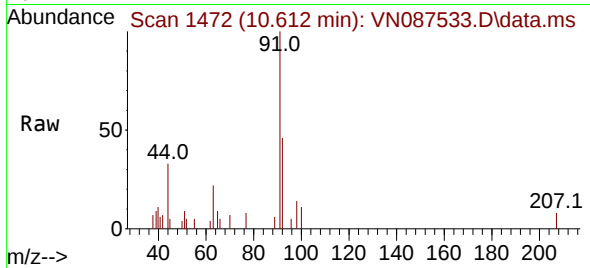




#52
Toluene
Concen: 0.407 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

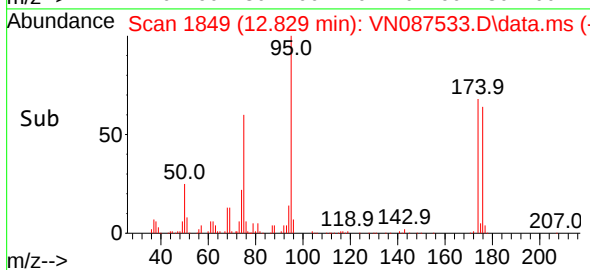
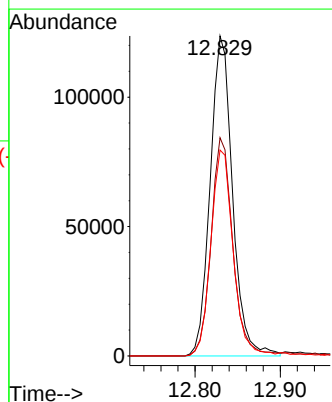
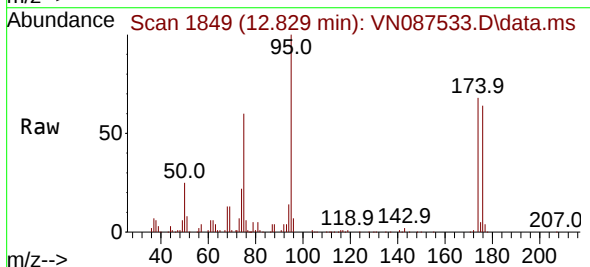
Instrument :
MSVOA_N
ClientSampleId :

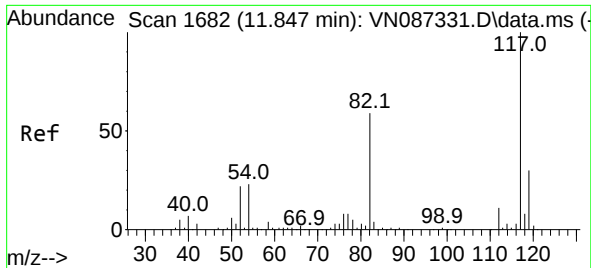
Tgt Ion: 92 Resp: 3589
Ion Ratio Lower Upper
92 100
91 173.7 135.1 202.7



#62
4-Bromofluorobenzene
Concen: 50.394 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion: 95 Resp: 225507
Ion Ratio Lower Upper
95 100
174 66.9 0.0 149.4
176 64.0 0.0 141.2

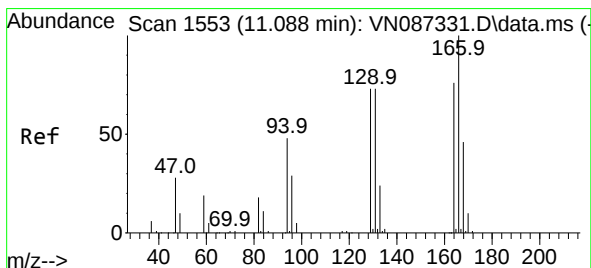
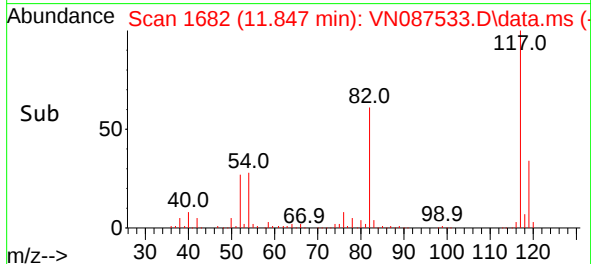
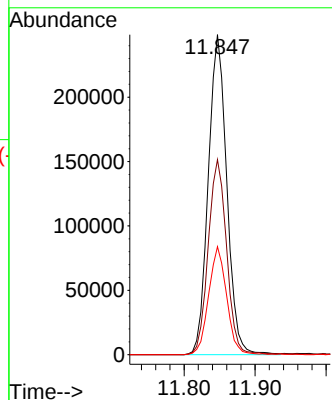
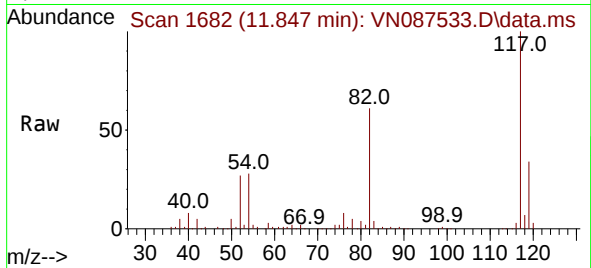




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

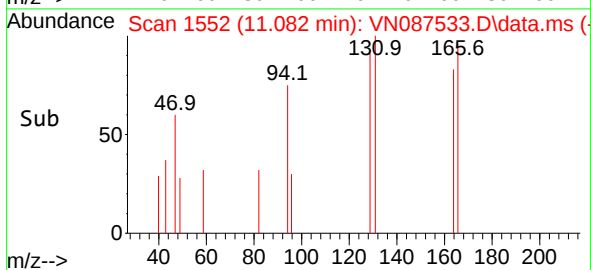
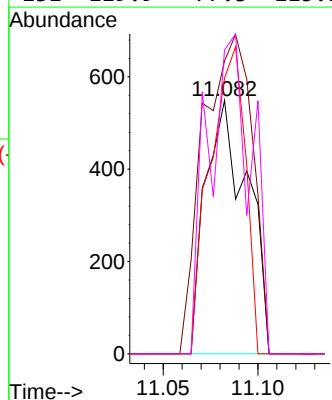
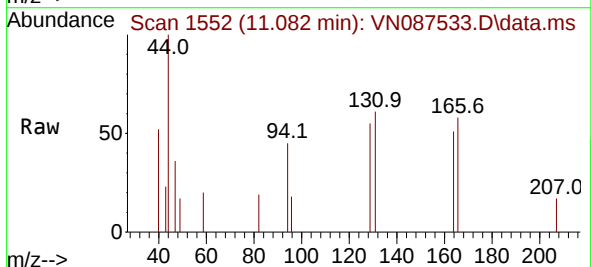
Instrument :
MSVOA_N
ClientSampleId :

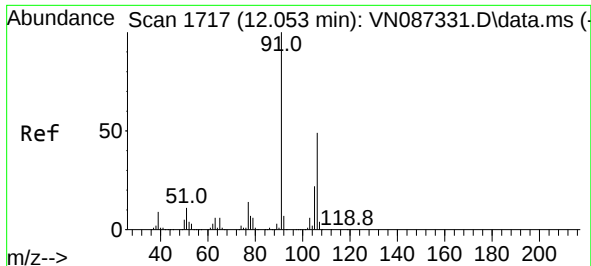
Tgt Ion:117 Resp: 450681
Ion Ratio Lower Upper
117 100
82 61.0 47.4 71.2
119 33.7 23.8 35.8



#64
Tetrachloroethene
Concen: 0.291 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.006 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion:164 Resp: 844
Ion Ratio Lower Upper
164 100
166 115.5 105.5 158.3
129 108.7 77.4 116.2
131 119.9 77.3 115.9#

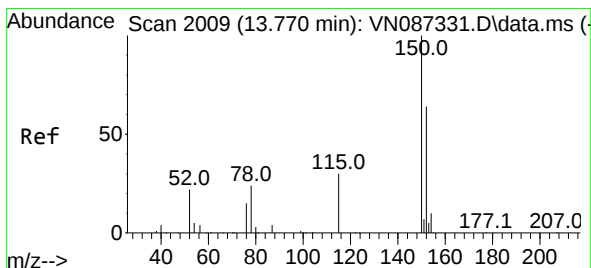
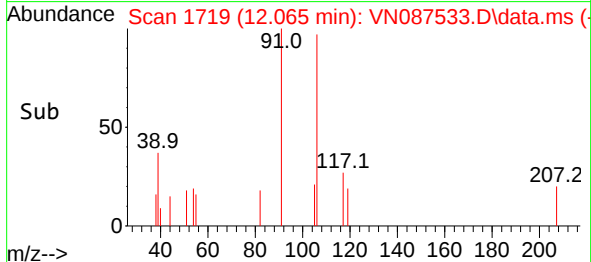
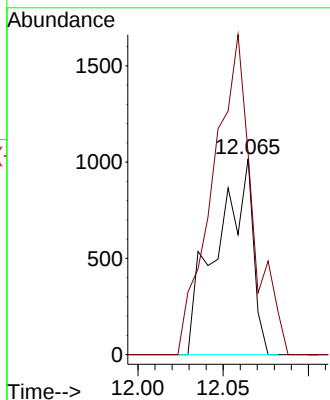
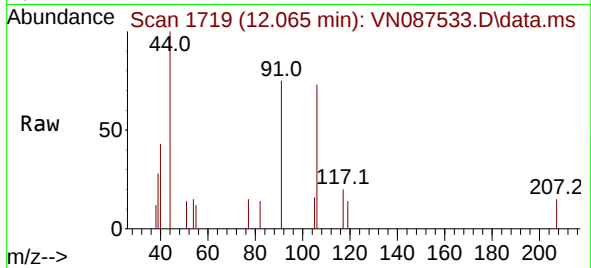




#68
m/p-Xylenes
Concen: 0.239 ug/l
RT: 12.065 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

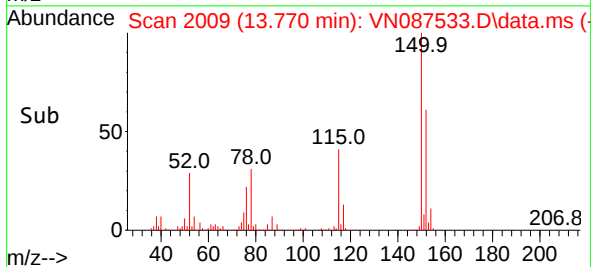
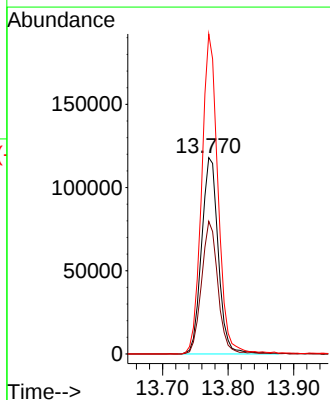
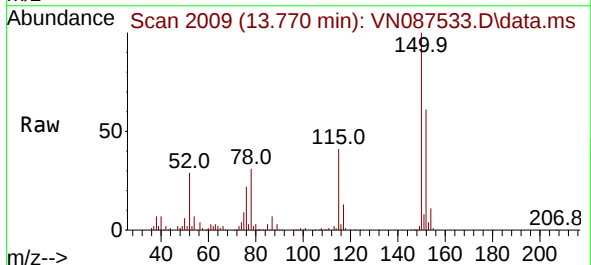
Instrument :
MSVOA_N
ClientSampleId :

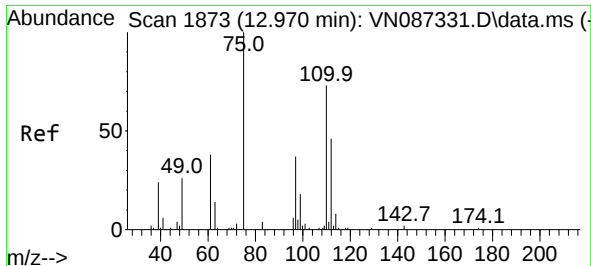
Tgt Ion:106 Resp: 1491
Ion Ratio Lower Upper
106 100
91 181.2 162.0 243.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

Tgt Ion:152 Resp: 210279
Ion Ratio Lower Upper
152 100
115 65.9 31.1 93.5
150 159.1 0.0 349.0

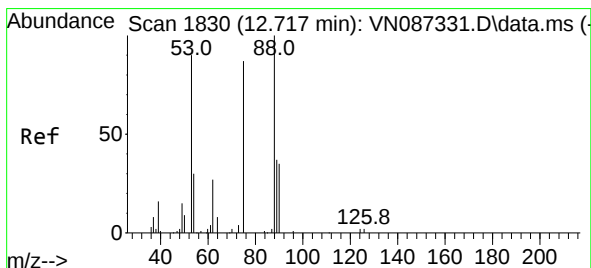
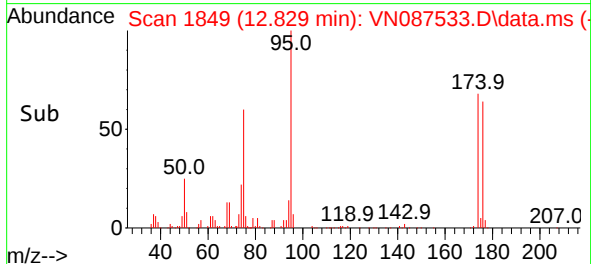
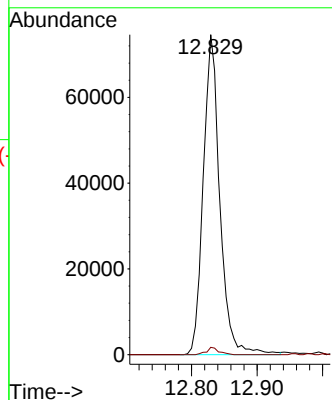
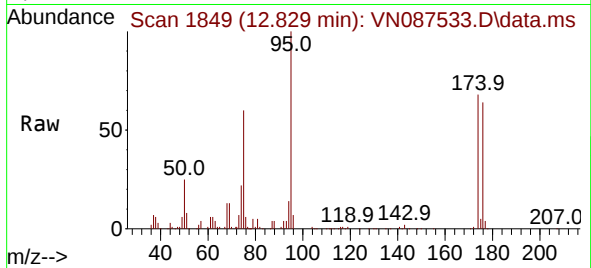




#76
1,2,3-Trichloropropane
Concen: 27.828 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

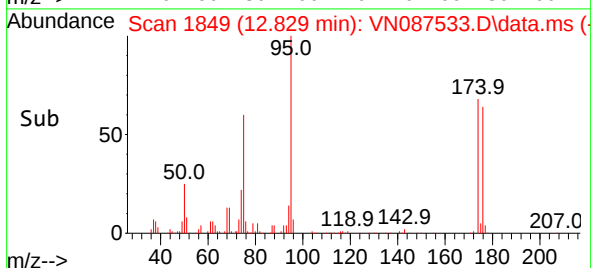
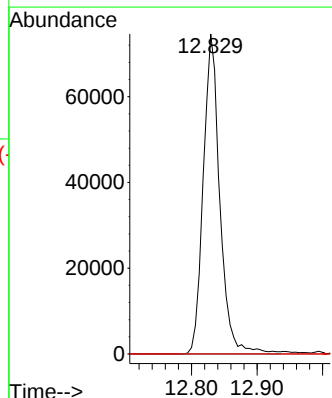
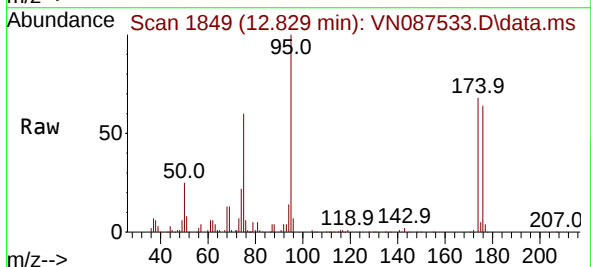
Instrument :
MSVOA_N
ClientSampleId :

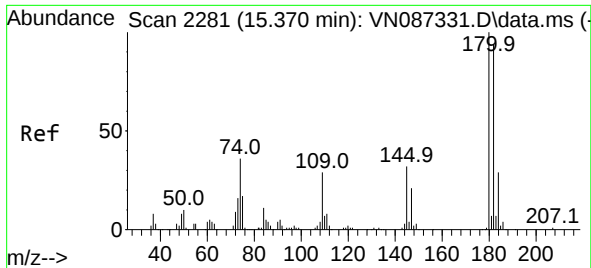
Tgt Ion: 75 Resp: 131220
Ion Ratio Lower Upper
75 100
77 1.7 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.143 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087533.D
Acq: 13 Aug 2025 14:29

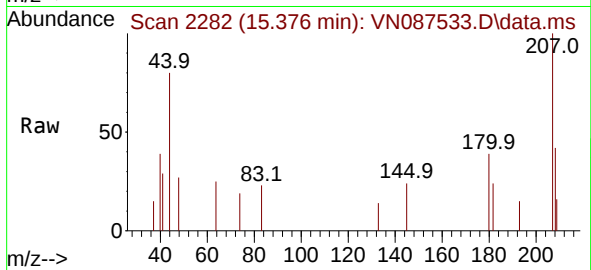
Tgt Ion: 75 Resp: 131220
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.0 38.4 57.6#





#93
 1,2,4-Trichlorobenzene
 Concen: 0.218 ug/l
 RT: 15.376 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN087533.D
 Acq: 13 Aug 2025 14:29

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	816
Ion	Ratio	Lower	Upper
180	100		
182	100.5	47.3	141.8
145	27.1	15.4	46.4

