

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088185.D
 Acq On : 31 Oct 2025 14:00
 Operator : JC\MD
 Sample : Q3447-05
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW3-251023-01

Quant Time: Nov 01 00:33:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

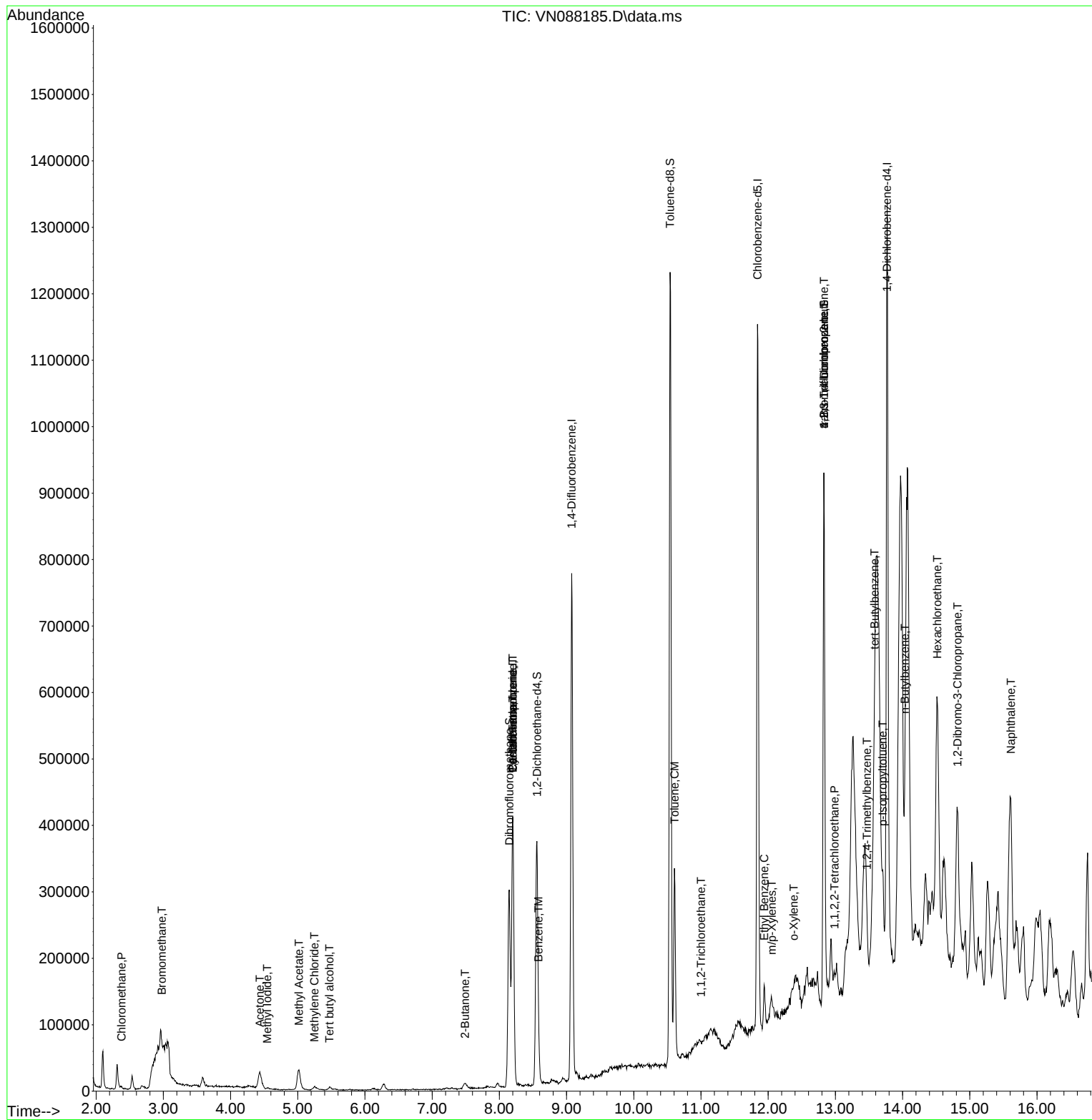
Internal Standards						
1) Pentafluorobenzene	8.200	168	274616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	633049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	586791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	297155	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	307963	64.852	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 129.700%#			
35) Dibromofluoromethane	8.147	113	214505	50.438	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.880%			
50) Toluene-d8	10.541	98	829166	50.599	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.200%			
62) 4-Bromofluorobenzene	12.829	95	307374	53.112	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.220%			
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	1613	0.443	ug/l #	33
5) Bromomethane	2.977	94	574	0.242	ug/l #	59
10) Methyl Iodide	4.547	142	3747	5.276	ug/l	97
11) Tert butyl alcohol	5.471	59	3928	4.801	ug/l #	74
16) Acetone	4.436	43	54163	22.703	ug/l	95
18) Methyl Acetate	5.018	43	69936	14.319	ug/l	99
20) Methylene Chloride	5.247	84	3584	1.723	ug/l #	80
25) 2-Butanone	7.488	43	17344	5.517	ug/l #	83
31) Cyclohexane	8.200	56	8979	1.351	ug/l #	18
36) 1,1-Dichloropropene	8.200	75	27268	4.391	ug/l #	53
38) Carbon Tetrachloride	8.200	117	33746	5.262	ug/l #	16
40) Benzene	8.582	78	34991	1.850	ug/l	100
52) Toluene	10.606	92	119407	10.241	ug/l	100
55) 1,1,2-Trichloroethane	11.000	97	1354	0.306	ug/l #	40
67) Ethyl Benzene	11.941	91	55323	2.365	ug/l	99
68) m/p-Xylenes	12.053	106	8026	0.916	ug/l	87
69) o-Xylene	12.382	106	2913	0.351	ug/l	77
75) 1,1,2,2-Tetrachloroethane	12.988	83	15937	2.234	ug/l #	29
76) 1,2,3-Trichloropropane	12.829	75	180545	26.575	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	180545	74.131	ug/l #	1
83) tert-Butylbenzene	13.582	119	5848	0.344	ug/l	94
84) 1,2,4-Trimethylbenzene	13.470	105	8546	0.449	ug/l	84
86) p-Isopropyltoluene	13.706	119	52660	2.628	ug/l	92
89) n-Butylbenzene	14.035	91	21376	1.077	ug/l #	66
90) Hexachloroethane	14.517	117	1382	0.356	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.817	75	9377	5.646	ug/l #	1
95) Naphthalene	15.611	128	98222	4.978	ug/l #	65

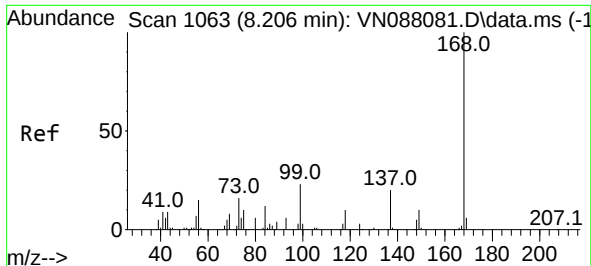
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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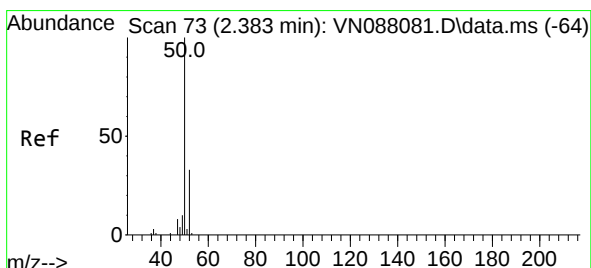
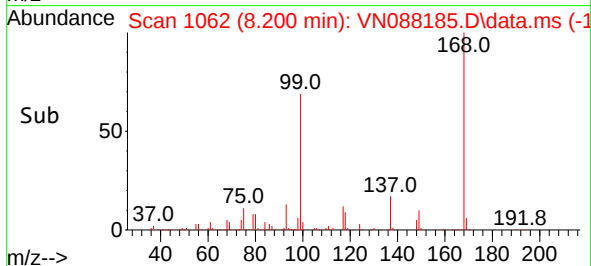
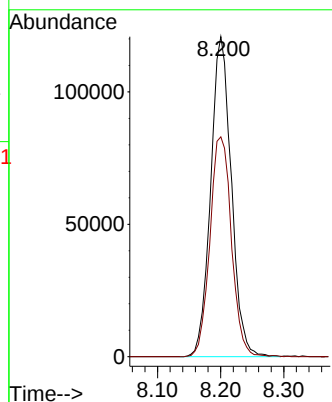
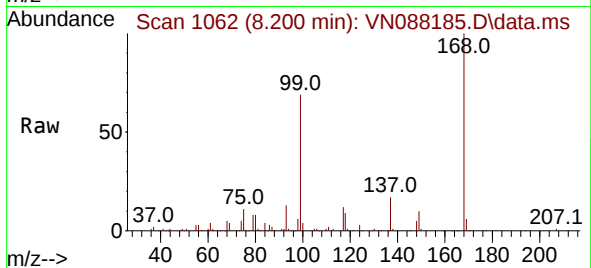




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

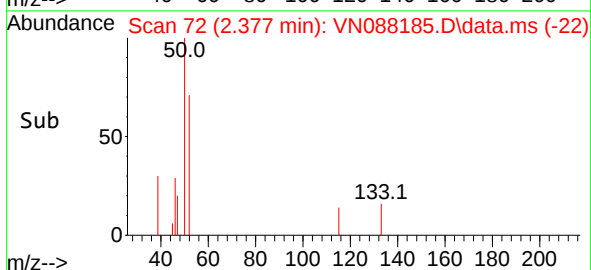
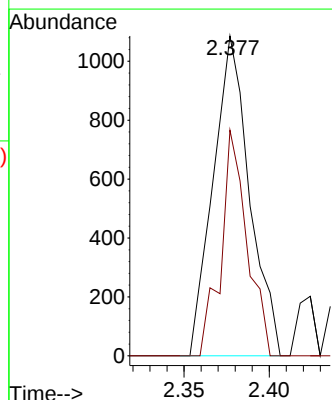
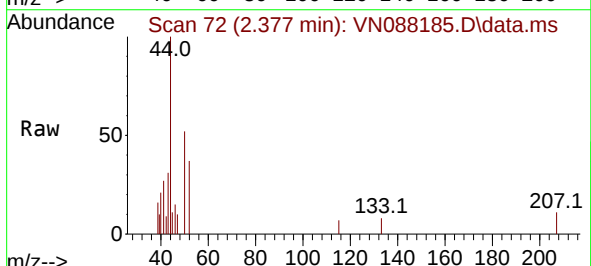
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

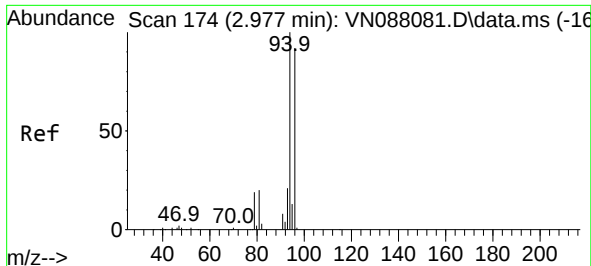
Tgt Ion:168 Resp: 274616
Ion Ratio Lower Upper
168 100
99 68.7 57.2 85.8



#3
Chloromethane
Concen: 0.443 ug/l
RT: 2.377 min Scan# 72
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 50 Resp: 1613
Ion Ratio Lower Upper
50 100
52 70.5 26.2 39.4#

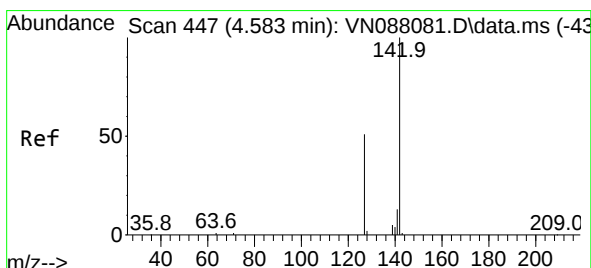
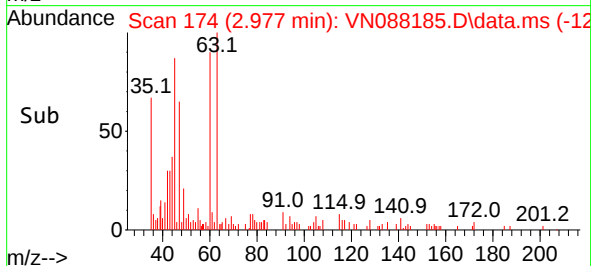
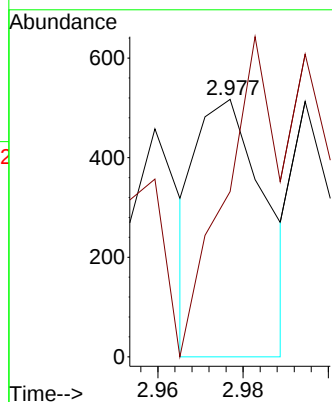
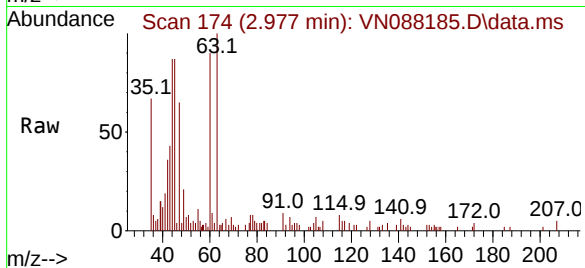




#5
Bromomethane
Concen: 0.242 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

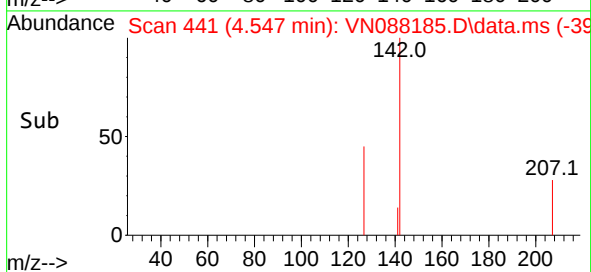
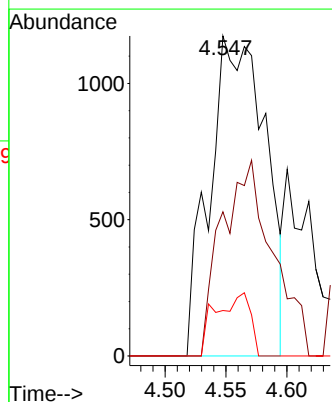
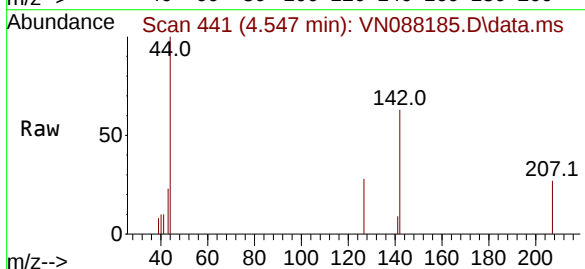
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

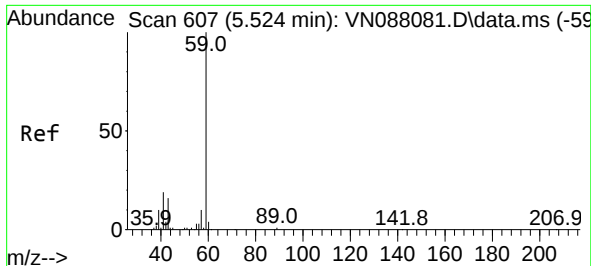
Tgt Ion: 94 Resp: 574
Ion Ratio Lower Upper
94 100
96 134.4 75.4 113.2#



#10
Methyl Iodide
Concen: 5.276 ug/l
RT: 4.547 min Scan# 441
Delta R.T. -0.030 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:142 Resp: 3747
Ion Ratio Lower Upper
142 100
127 45.1 38.0 57.0
141 14.2 12.0 18.0

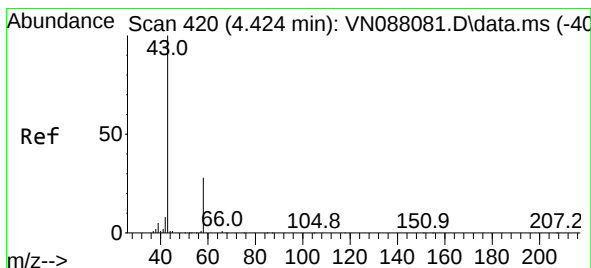
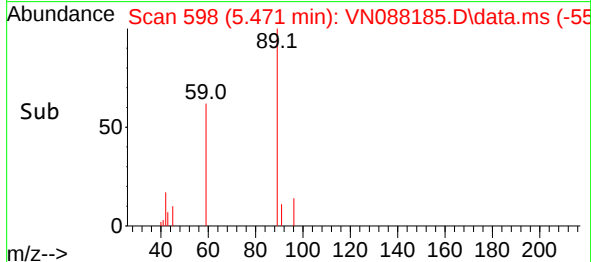
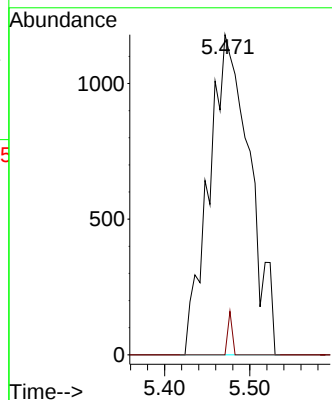
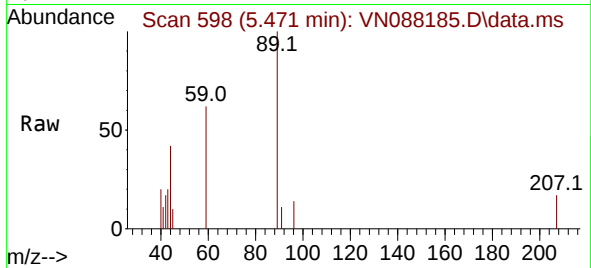




#11
Tert butyl alcohol
Concen: 4.801 ug/l
RT: 5.471 min Scan# 59
Delta R.T. -0.047 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

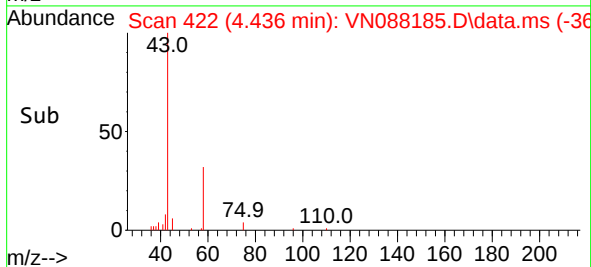
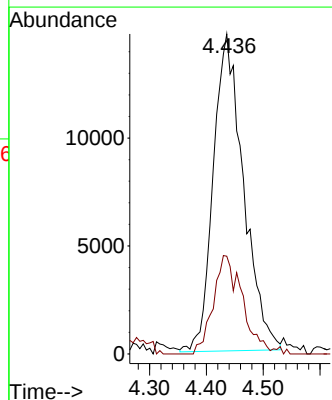
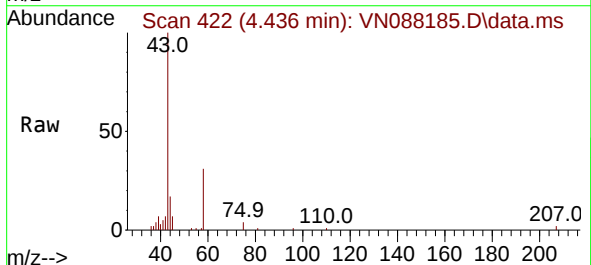
Instrument :
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ClientSampleId :
P001-TW3-251023-01

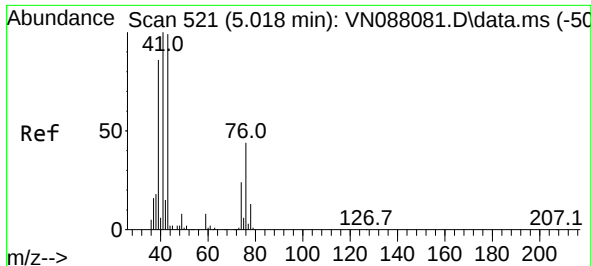
Tgt Ion: 59 Resp: 3928
Ion Ratio Lower Upper
59 100
57 1.4 9.0 13.4#



#16
Acetone
Concen: 22.703 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 43 Resp: 54163
Ion Ratio Lower Upper
43 100
58 31.0 22.6 33.8

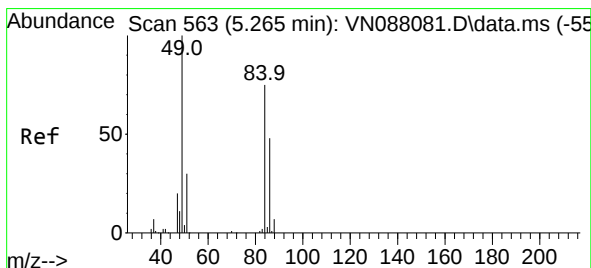
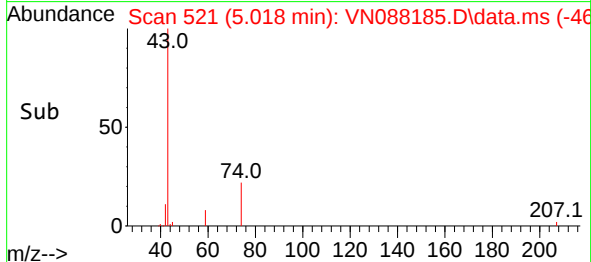
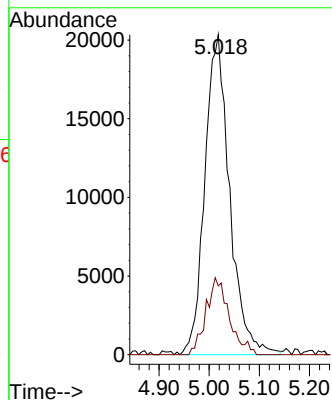
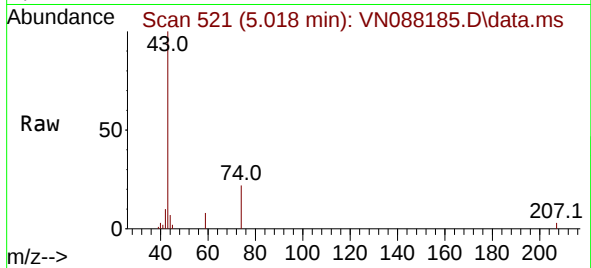




#18
Methyl Acetate
Concen: 14.319 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

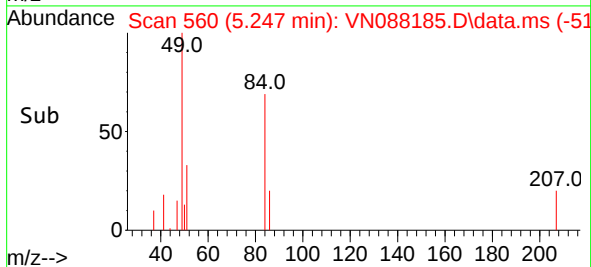
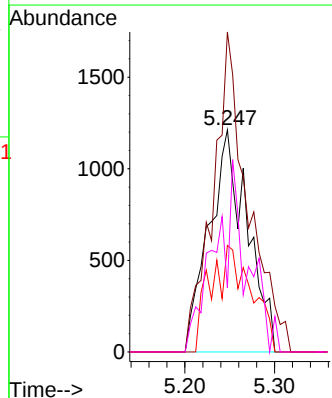
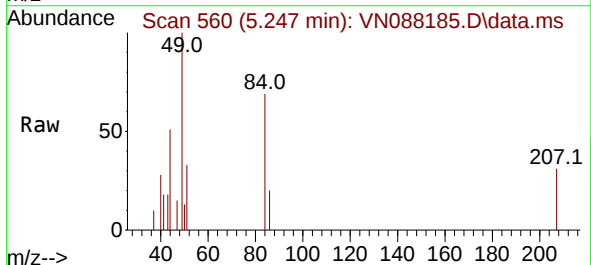
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

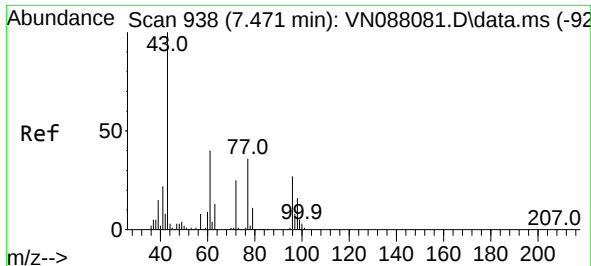
Tgt Ion: 43 Resp: 69936
Ion Ratio Lower Upper
43 100
74 22.5 17.6 26.4



#20
Methylene Chloride
Concen: 1.723 ug/l
RT: 5.247 min Scan# 560
Delta R.T. -0.018 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 84 Resp: 3584
Ion Ratio Lower Upper
84 100
49 144.0 103.4 155.2
51 48.0 33.8 50.8
86 28.9 49.6 74.4#

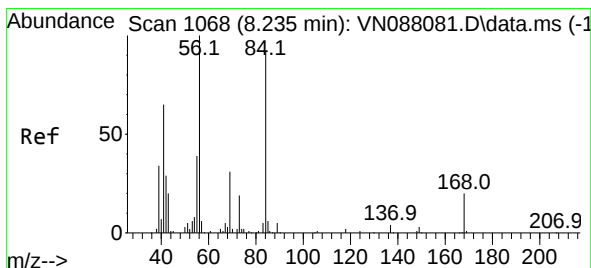
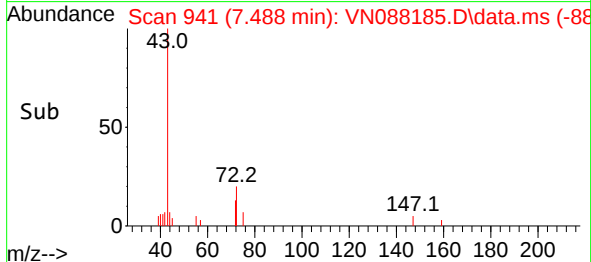
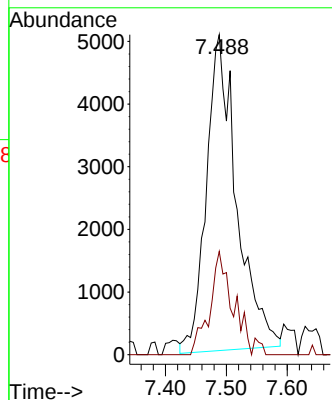
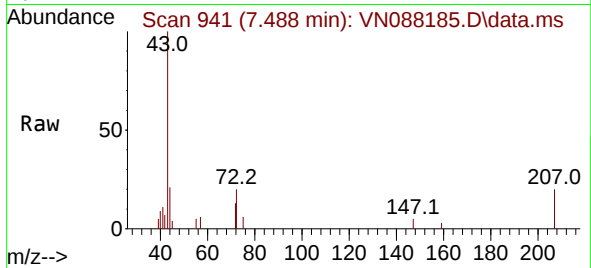




#25
2-Butanone
Concen: 5.517 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

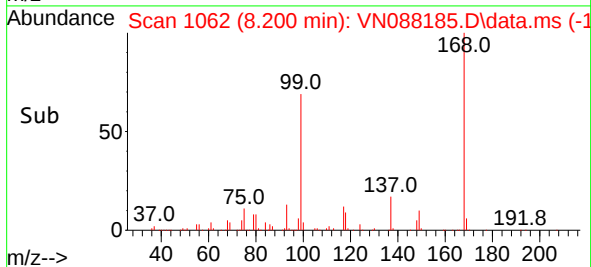
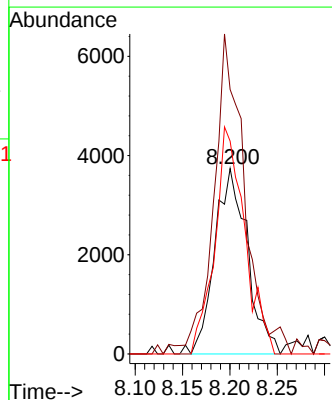
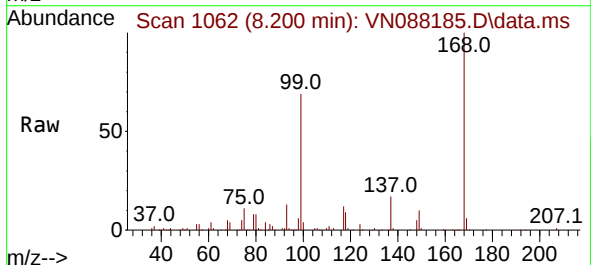
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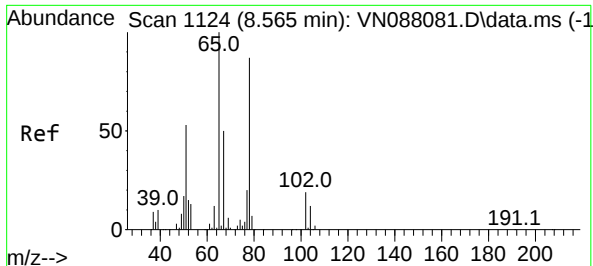
Tgt Ion: 43 Resp: 17344
Ion Ratio Lower Upper
43 100
72 33.4 19.9 29.9#



#31
Cyclohexane
Concen: 1.351 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.035 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 56 Resp: 8979
Ion Ratio Lower Upper
56 100
69 138.2 23.7 35.5#
84 114.8 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 64.852 ug/l

RT: 8.559 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

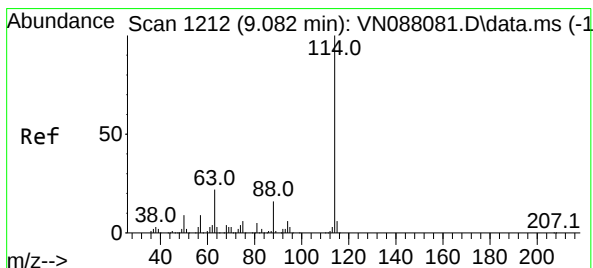
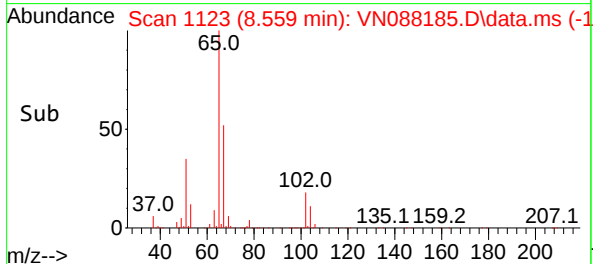
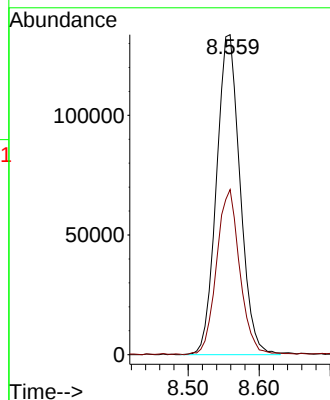
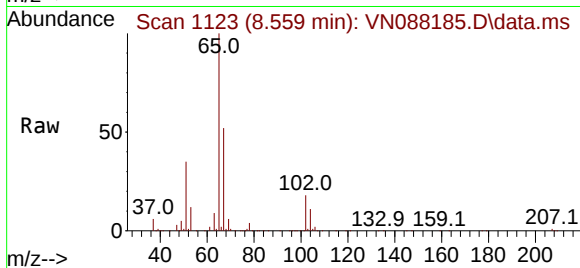
P001-TW3-251023-01

Tgt Ion: 65 Resp: 307963

Ion Ratio Lower Upper

65 100

67 51.0 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

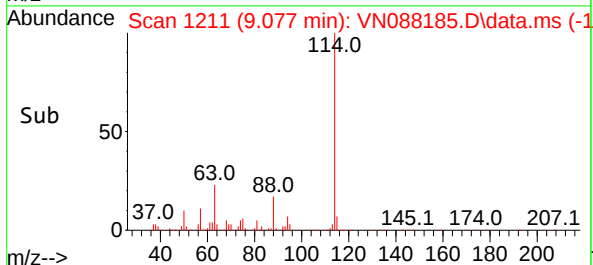
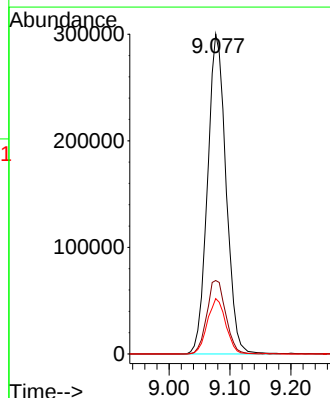
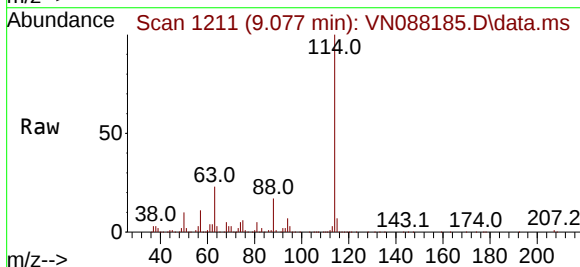
Tgt Ion: 114 Resp: 633049

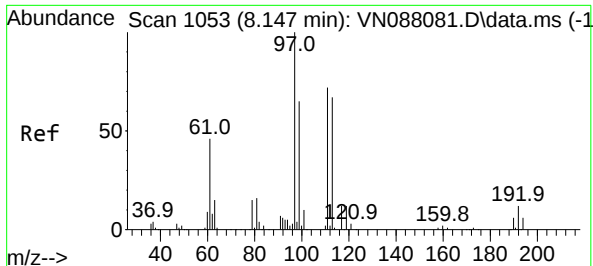
Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 17.3 0.0 33.4

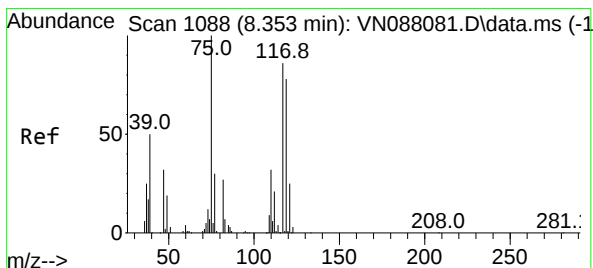
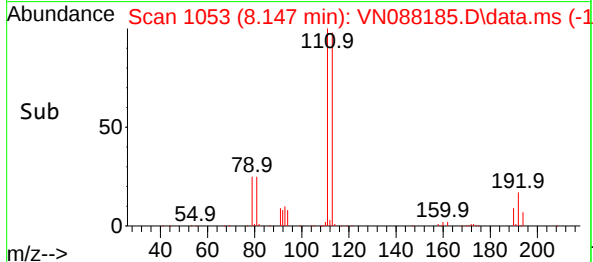
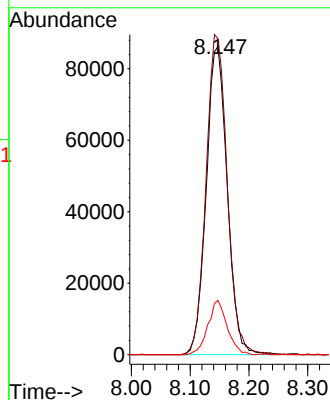
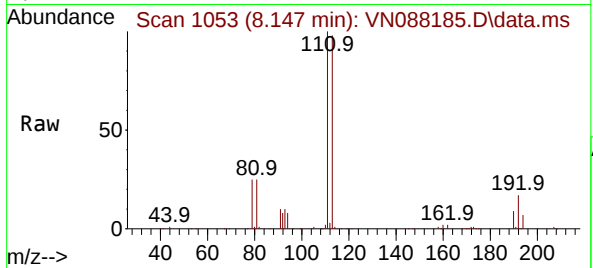




#35
Dibromofluoromethane
Concen: 50.438 ug/l
RT: 8.147 min Scan# 1062
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

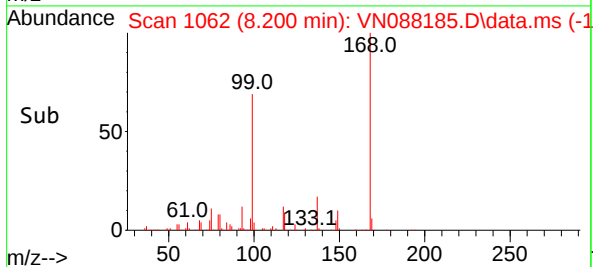
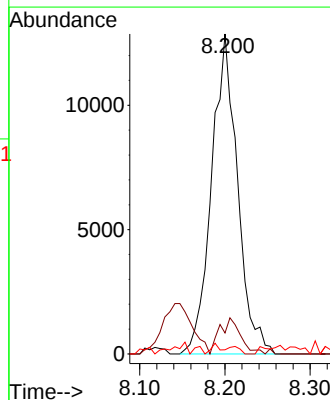
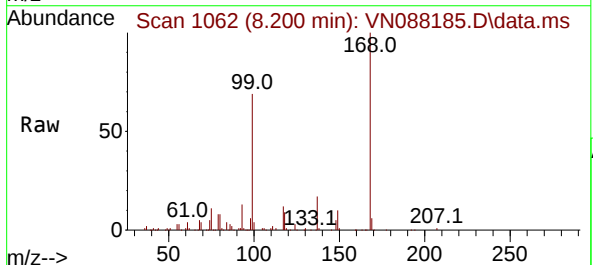
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

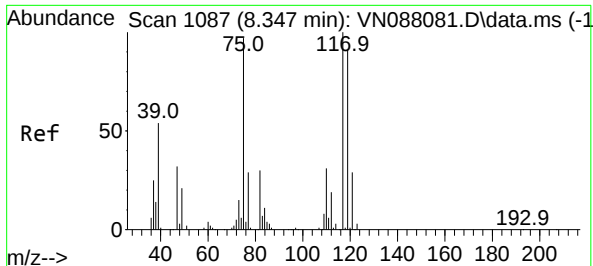
Tgt Ion:113 Resp: 214505
Ion Ratio Lower Upper
113 100
111 104.7 82.8 124.2
192 16.2 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.391 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 75 Resp: 27268
Ion Ratio Lower Upper
75 100
110 9.0 15.9 47.6#
77 1.2 24.4 36.6#

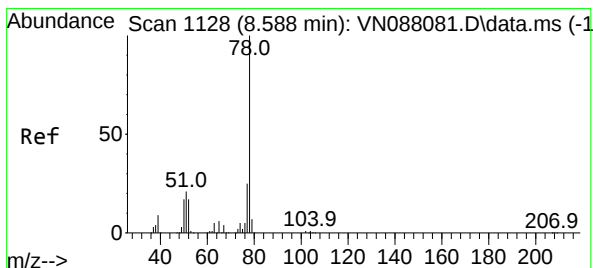
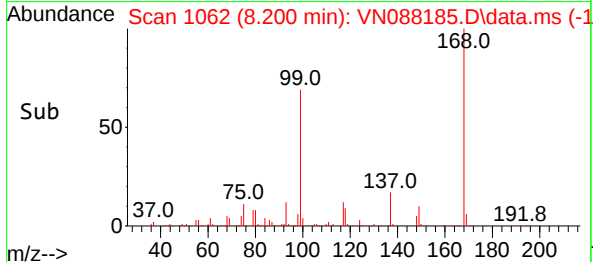
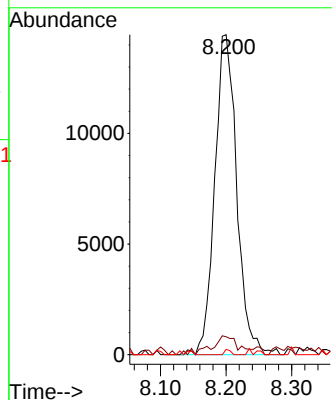
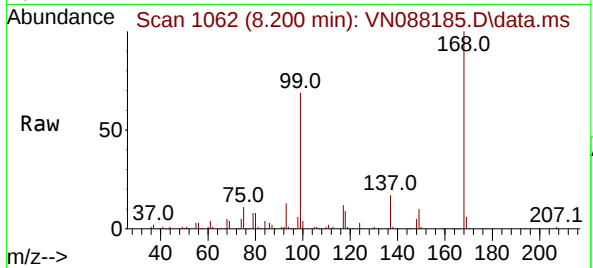




#38
Carbon Tetrachloride
Concen: 5.262 ug/l
RT: 8.200 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

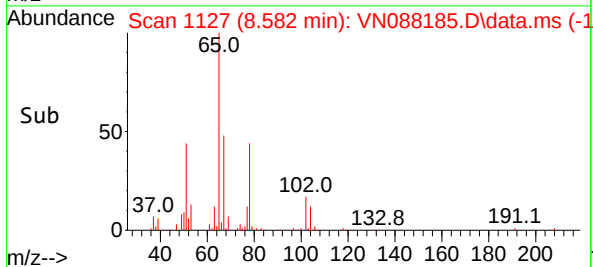
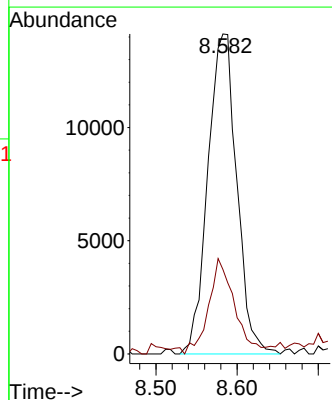
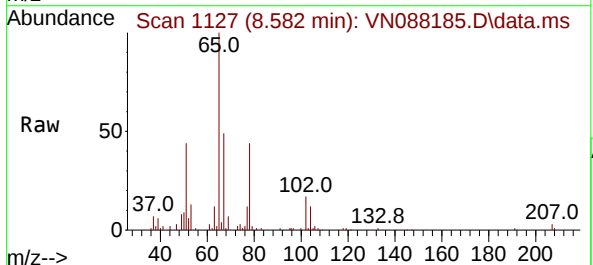
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

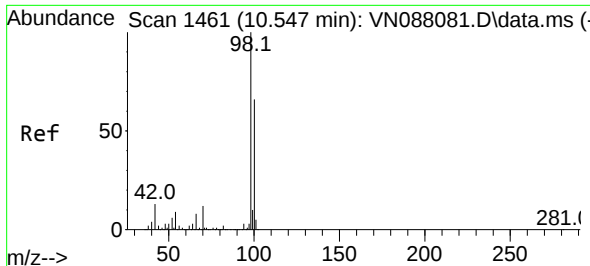
Tgt Ion:117 Resp: 33746
Ion Ratio Lower Upper
117 100
119 5.6 79.0 118.6#
121 1.6 25.0 37.6#



#40
Benzene
Concen: 1.850 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 78 Resp: 34991
Ion Ratio Lower Upper
78 100
77 24.4 19.7 29.5

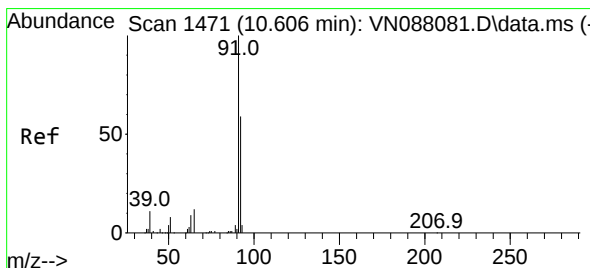
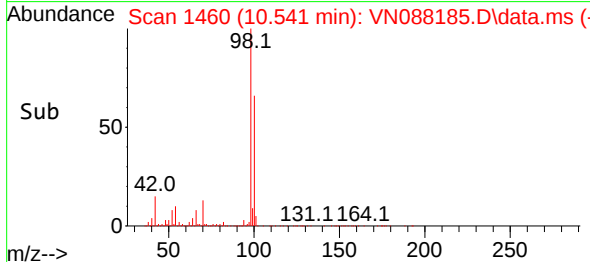
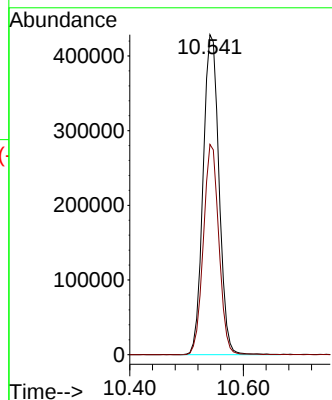
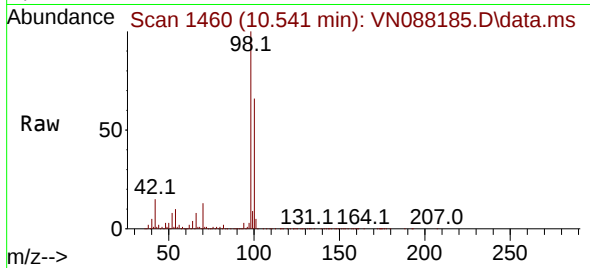




#50
Toluene-d8
Concen: 50.599 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

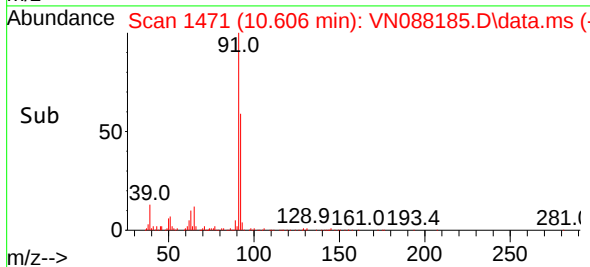
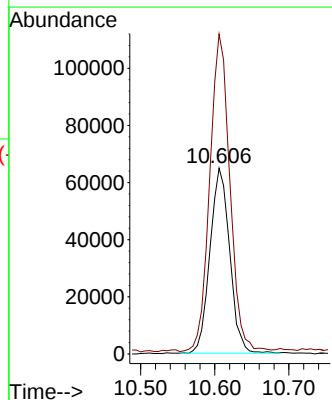
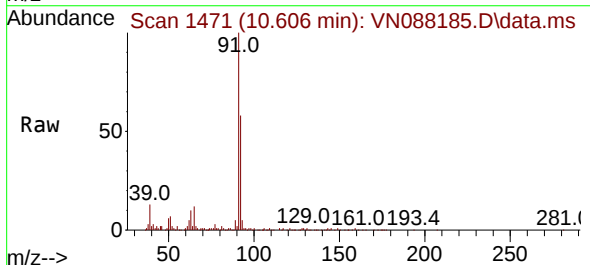
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

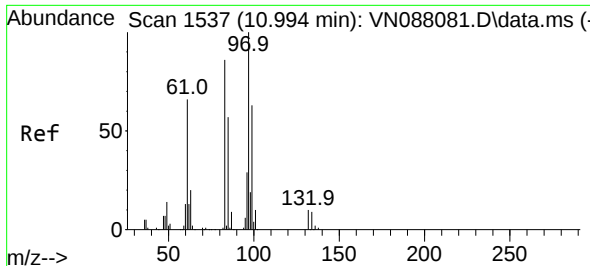
Tgt Ion: 98 Resp: 829166
Ion Ratio Lower Upper
98 100
100 64.0 52.8 79.2



#52
Toluene
Concen: 10.241 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 92 Resp: 119407
Ion Ratio Lower Upper
92 100
91 175.2 140.4 210.6

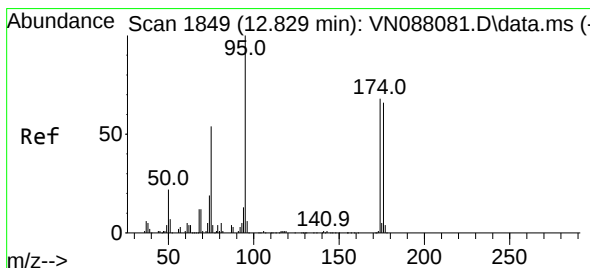
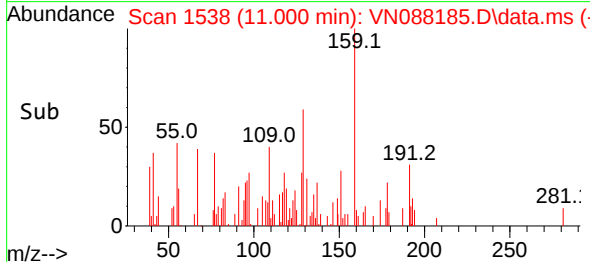
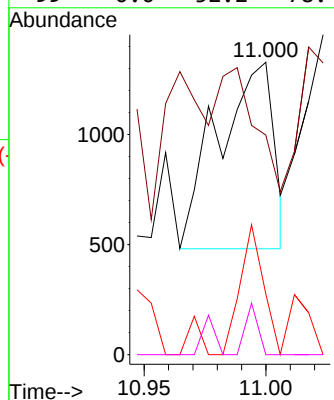
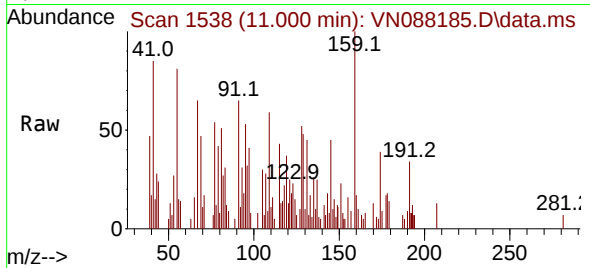




#55
1,1,2-Trichloroethane
Concen: 0.306 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

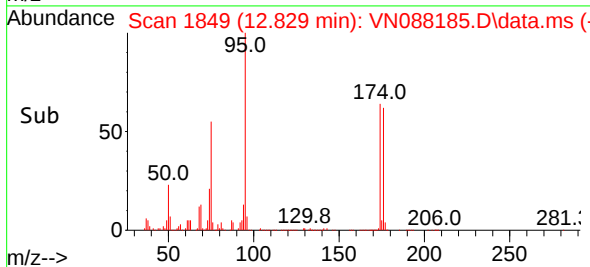
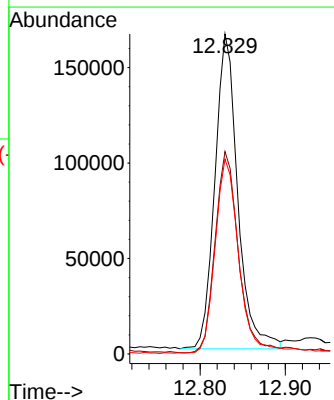
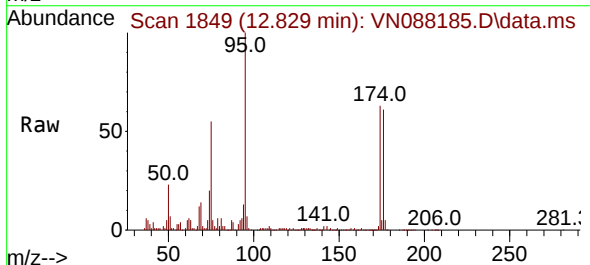
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

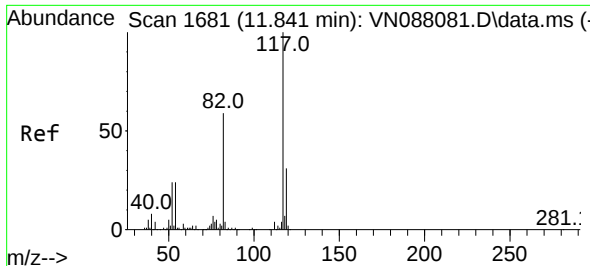
Tgt Ion: 97	Resp: 1354
Ion Ratio	Lower Upper
97 100	
83 30.3	68.2 102.4#
85 32.5	45.5 68.3#
99 0.0	52.2 78.4#



#62
4-Bromofluorobenzene
Concen: 53.112 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 95	Resp: 307374
Ion Ratio	Lower Upper
95 100	
174 65.3	0.0 138.4
176 65.6	0.0 132.6

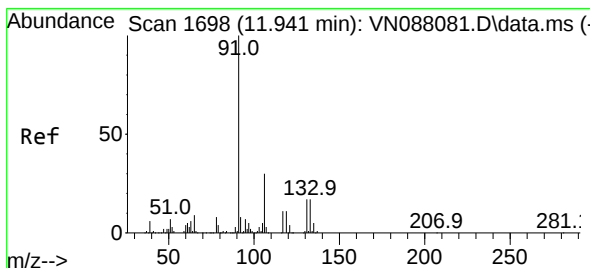
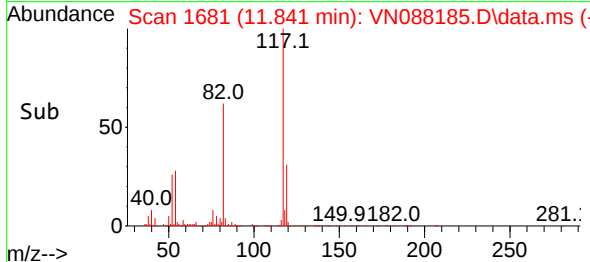
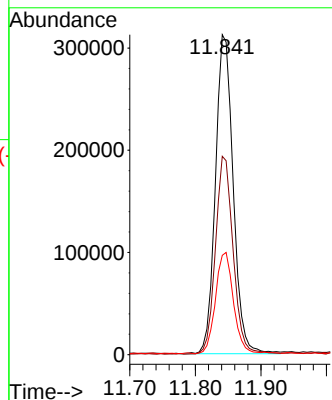
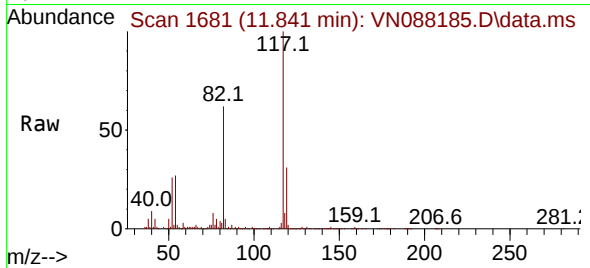




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

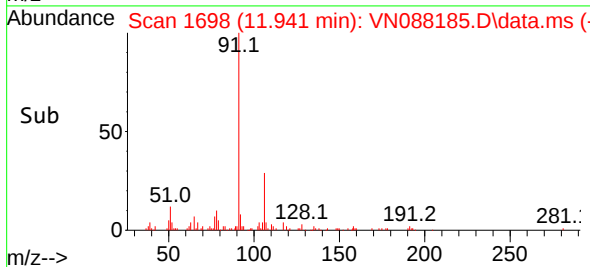
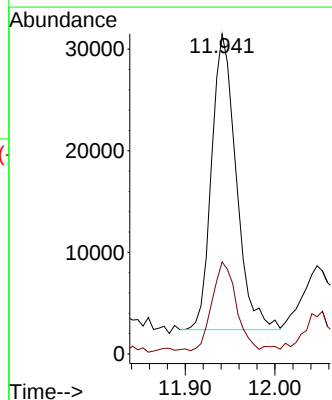
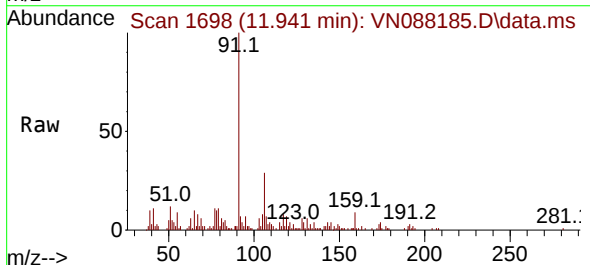
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

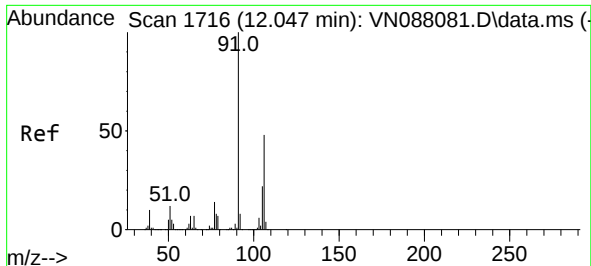
Tgt Ion:117 Resp: 586791
Ion Ratio Lower Upper
117 100
82 61.8 47.4 71.2
119 30.8 24.3 36.5



#67
Ethyl Benzene
Concen: 2.365 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 91 Resp: 55323
Ion Ratio Lower Upper
91 100
106 29.6 24.1 36.1

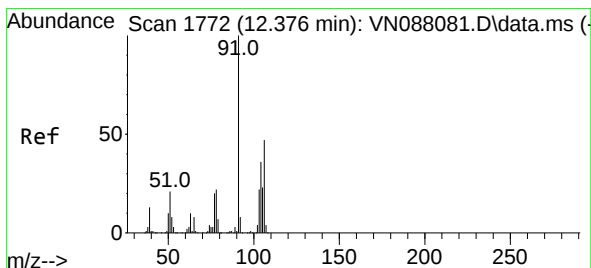
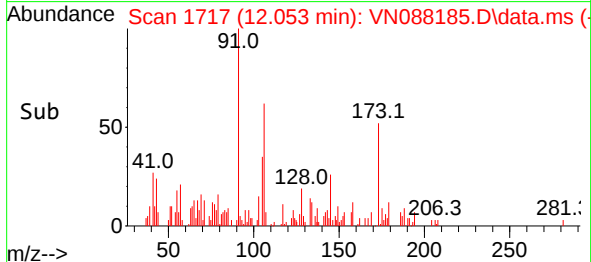
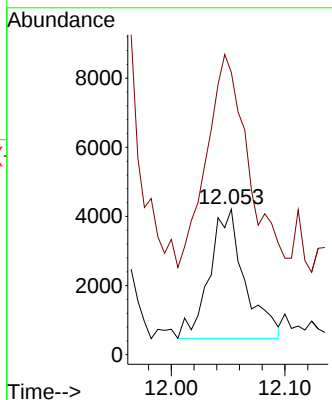
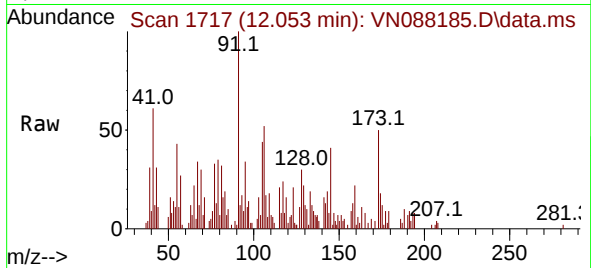




#68
m/p-Xylenes
Concen: 0.916 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

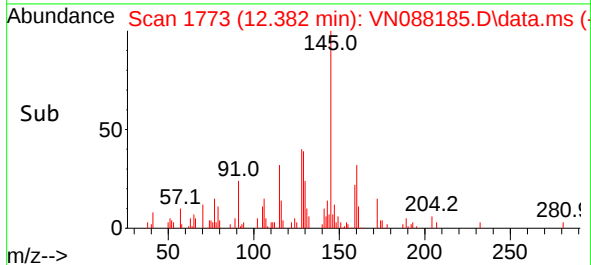
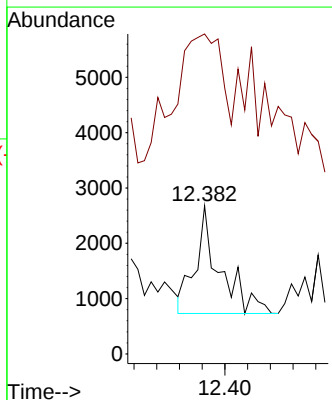
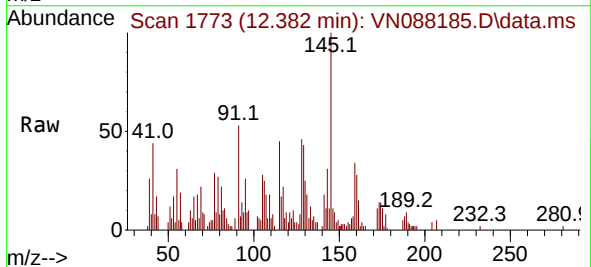
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

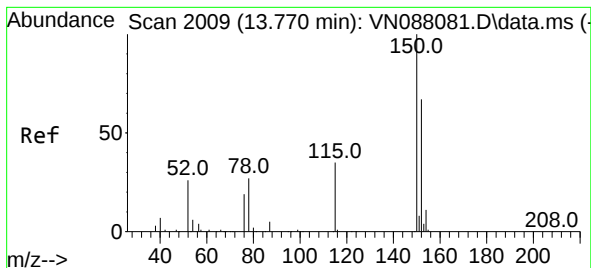
Tgt Ion:106 Resp: 8026
Ion Ratio Lower Upper
106 100
91 191.9 169.3 253.9



#69
o-Xylene
Concen: 0.351 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:106 Resp: 2913
Ion Ratio Lower Upper
106 100
91 260.3 111.4 334.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

P001-TW3-251023-01

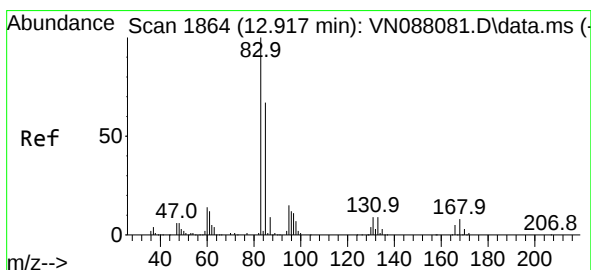
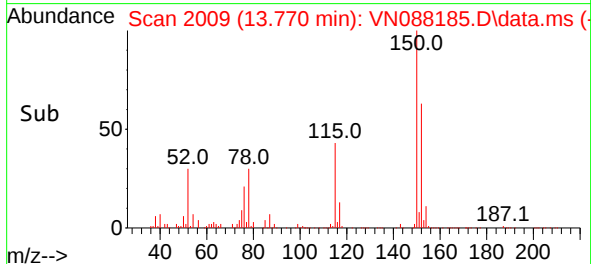
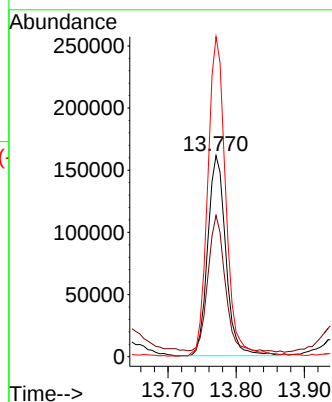
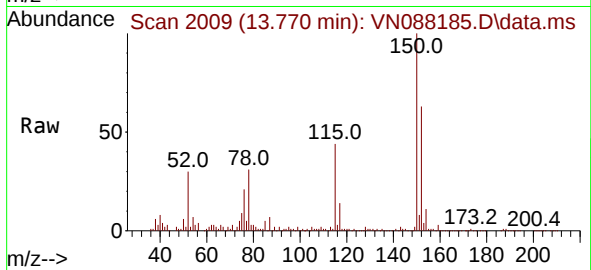
Tgt Ion:152 Resp: 297155

Ion Ratio Lower Upper

152 100

115 66.1 32.3 96.8

150 159.1 0.0 351.0



#75

1,1,2,2-Tetrachloroethane

Concen: 2.234 ug/l

RT: 12.988 min Scan# 1876

Delta R.T. 0.070 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

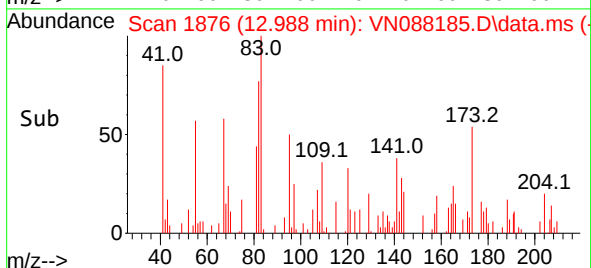
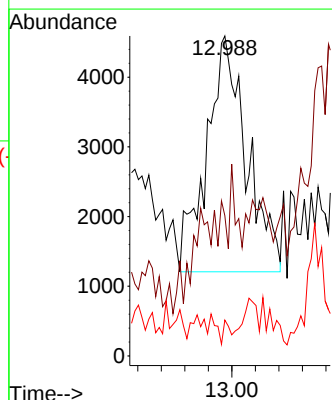
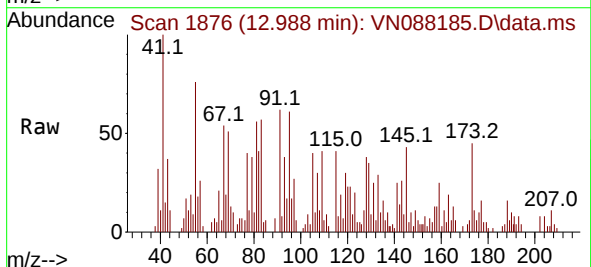
Tgt Ion: 83 Resp: 15937

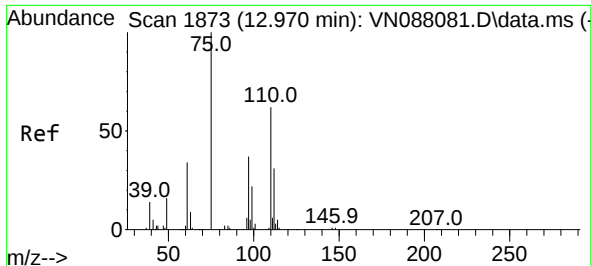
Ion Ratio Lower Upper

83 100

131 4.5 4.8 14.4#

85 1.6 32.1 96.3#

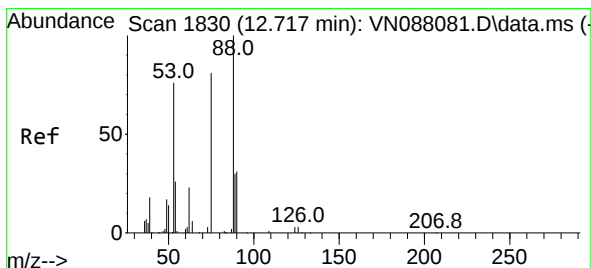
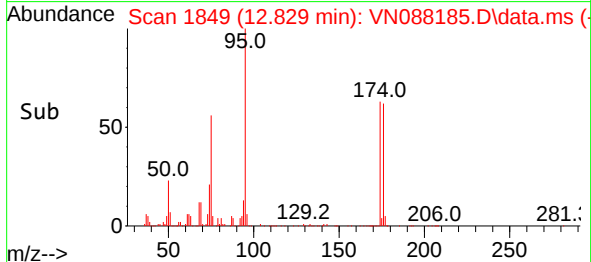
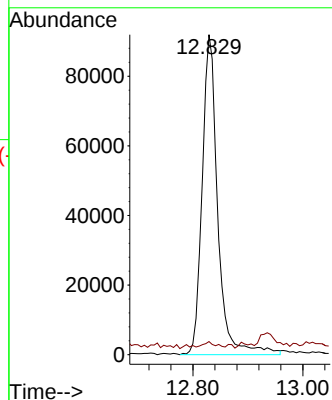
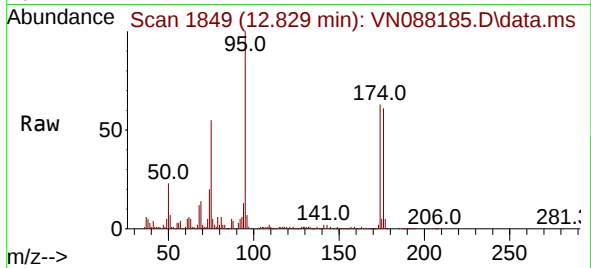




#76
 1,2,3-Trichloropropane
 Concen: 26.575 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088185.D
 Acq: 31 Oct 2025 14:00

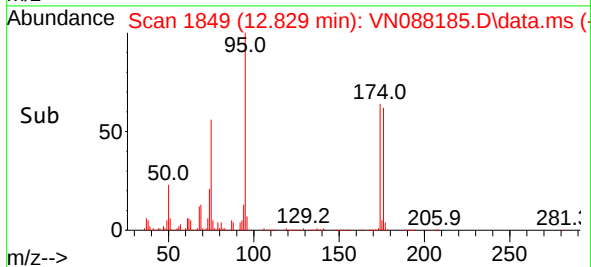
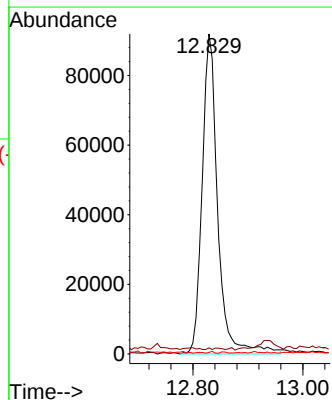
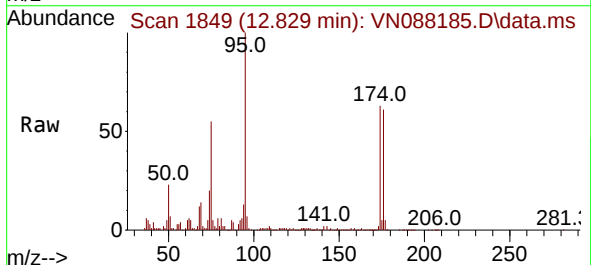
Instrument :
 MSVOA_N
 ClientSampleId :
 P001-TW3-251023-01

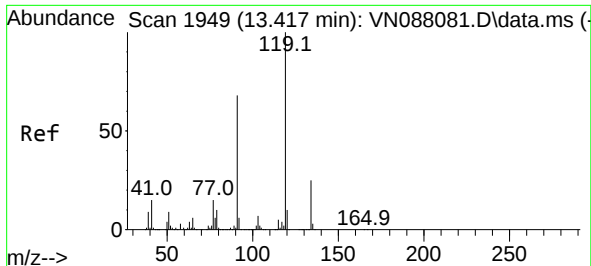
Tgt Ion: 75 Resp: 180545
 Ion Ratio Lower Upper
 75 100
 77 1.1 89.1 267.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.131 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088185.D
 Acq: 31 Oct 2025 14:00

Tgt Ion: 75 Resp: 180545
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.2 35.6 53.4#

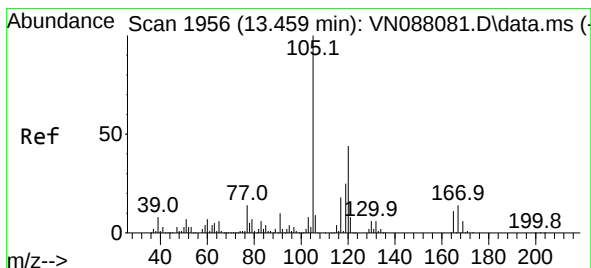
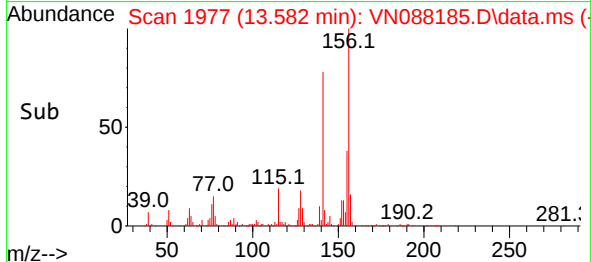
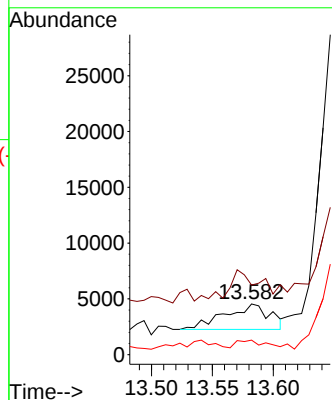
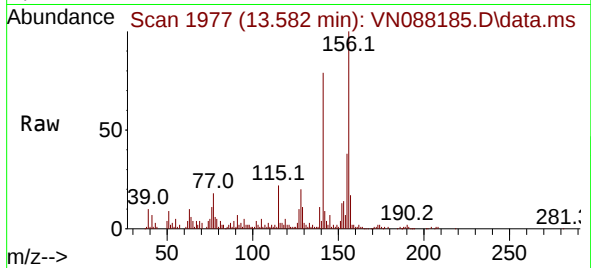




#83
tert-Butylbenzene
Concen: 0.344 ug/l
RT: 13.582 min Scan# 1977
Delta R.T. 0.165 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

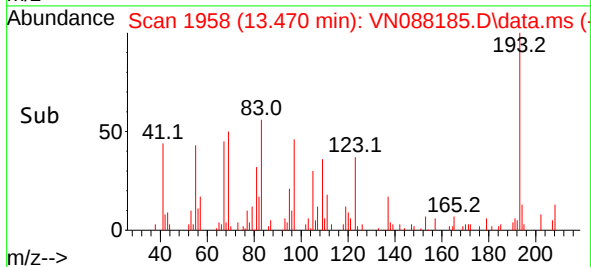
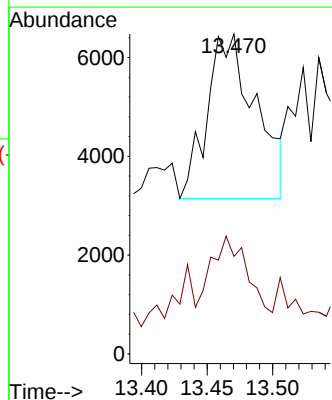
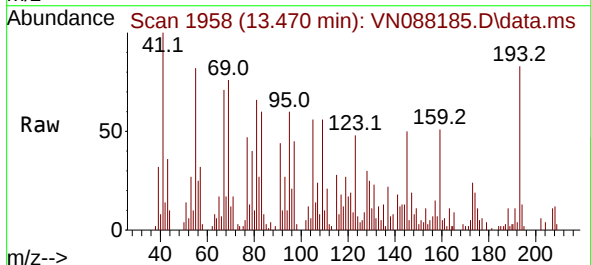
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

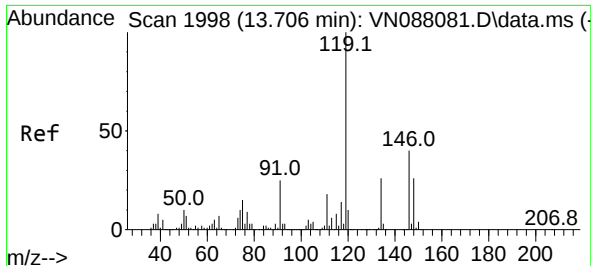
Tgt Ion:119 Resp: 5848
Ion Ratio Lower Upper
119 100
91 67.8 35.0 105.0
134 17.6 12.6 37.8



#84
1,2,4-Trimethylbenzene
Concen: 0.449 ug/l
RT: 13.470 min Scan# 1958
Delta R.T. 0.012 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:105 Resp: 8546
Ion Ratio Lower Upper
105 100
120 33.4 22.0 66.0

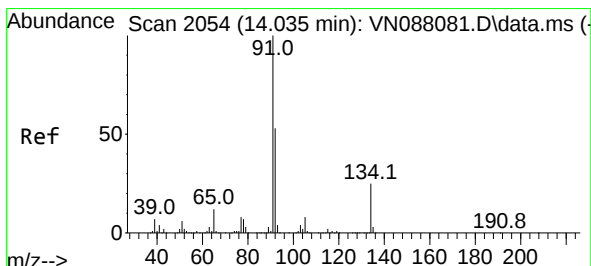
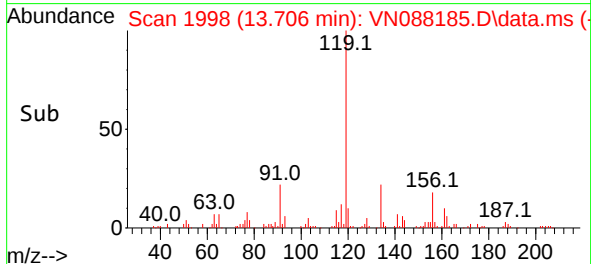
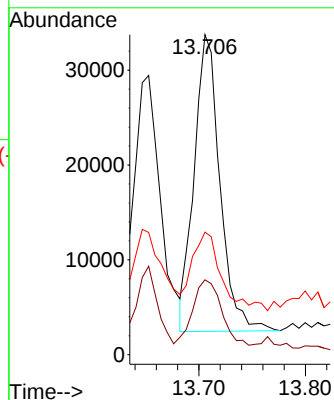
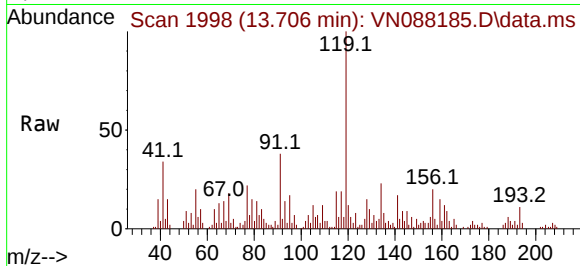




#86
p-Isopropyltoluene
Concen: 2.628 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

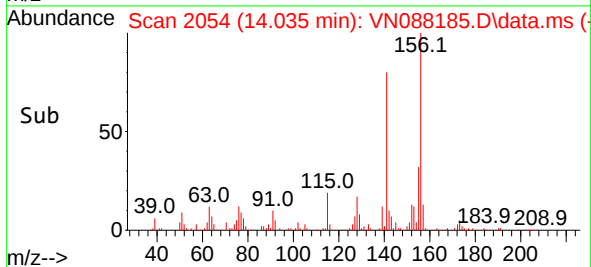
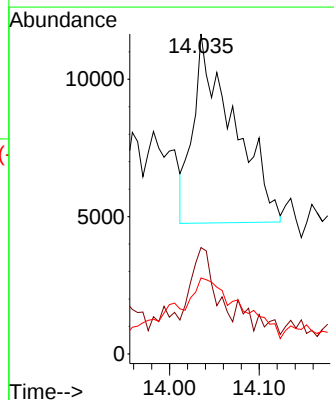
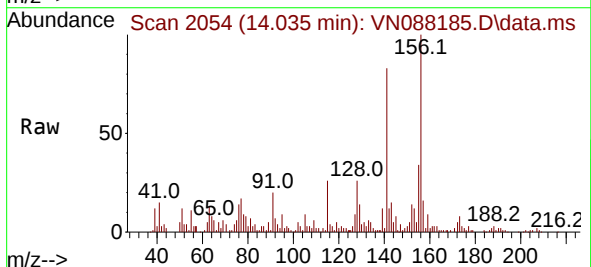
Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

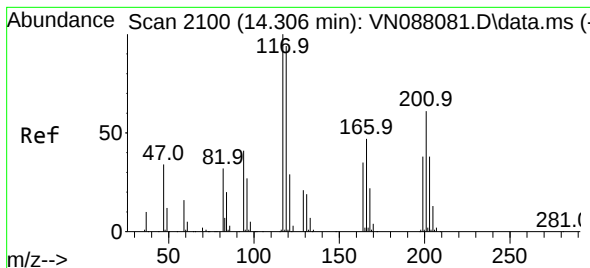
Tgt Ion:119 Resp: 52660
Ion Ratio Lower Upper
119 100
134 28.7 12.7 38.0
91 29.9 12.5 37.5



#89
n-Butylbenzene
Concen: 1.077 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 91 Resp: 21376
Ion Ratio Lower Upper
91 100
92 26.5 25.9 77.8
134 38.1 11.7 35.0#





#90

Hexachloroethane

Concen: 0.356 ug/l

RT: 14.517 min Scan# 2100

Delta R.T. 0.206 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

Instrument :

MSVOA_N

ClientSampleId :

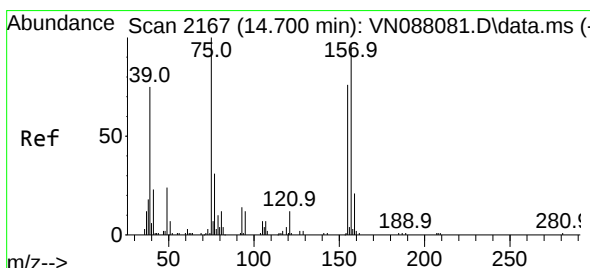
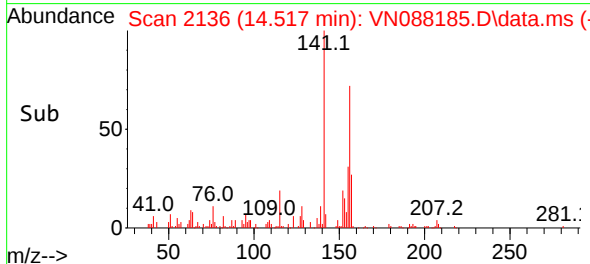
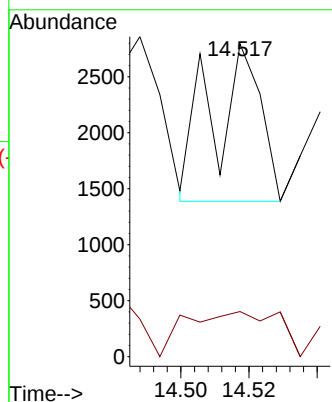
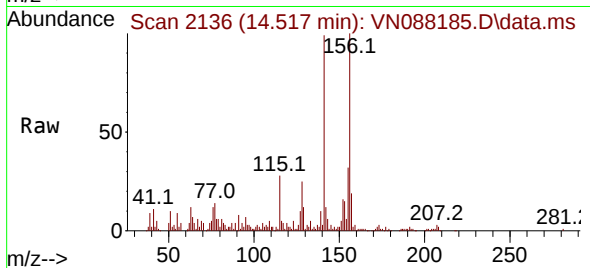
P001-TW3-251023-01

Tgt Ion:117 Resp: 1382

Ion Ratio Lower Upper

117 100

201 55.2 29.1 87.4



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.646 ug/l

RT: 14.817 min Scan# 2187

Delta R.T. 0.117 min

Lab File: VN088185.D

Acq: 31 Oct 2025 14:00

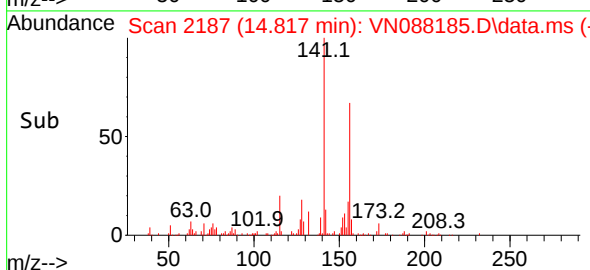
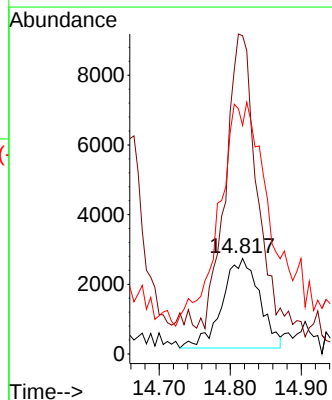
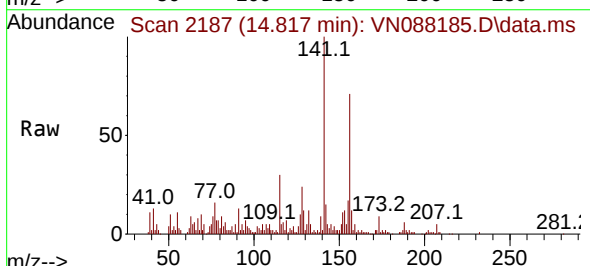
Tgt Ion: 75 Resp: 9377

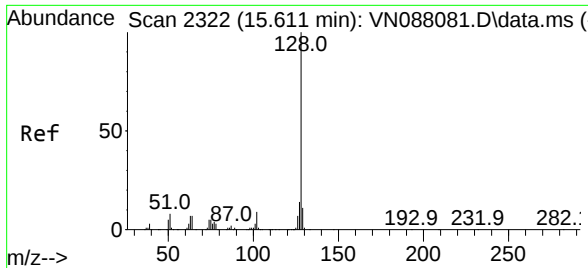
Ion Ratio Lower Upper

75 100

155 295.3 36.6 109.9#

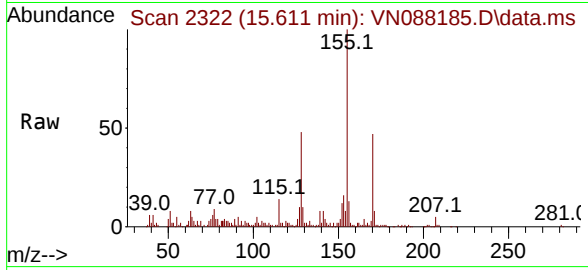
157 323.1 45.6 136.9#





#95
Naphthalene
Concen: 4.978 ug/l
RT: 15.611 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01



Tgt Ion:128 Resp: 98222
Ion Ratio Lower Upper
128 100
127 25.7 10.6 15.8#
129 25.9 8.6 12.8#

