

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT103025\
 Data File : VT019210.D
 Acq On : 30 Oct 2025 11:14
 Operator : SY/MD
 Sample : VT1030WBL02
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 VT1030WBL02

Quant Time: Oct 31 01:16:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\82T102925W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 30 08:43:44 2025
 Response via : Initial Calibration

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

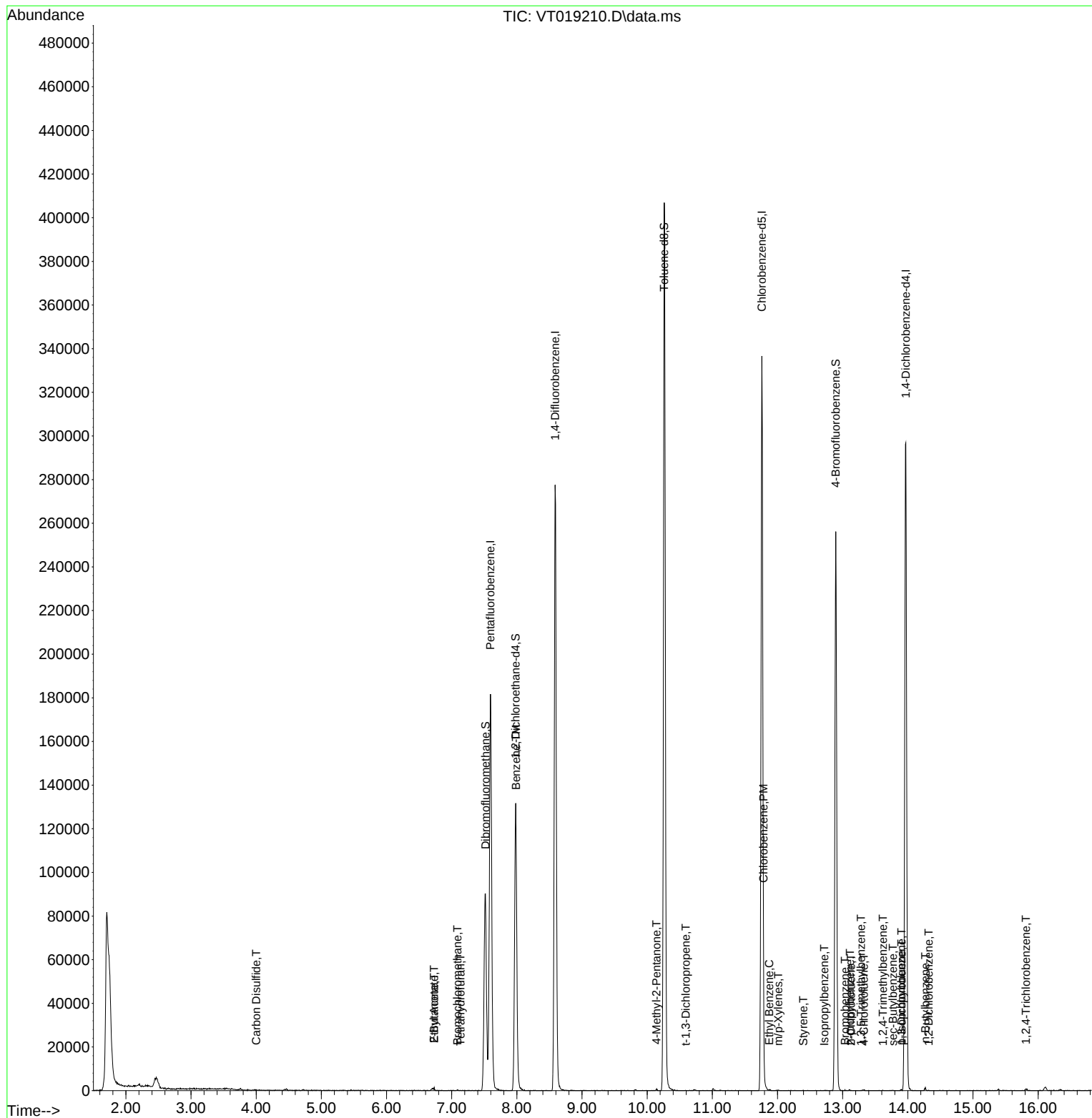
Internal Standards						
1) Pentafluorobenzene	7.595	168	149188	50.000	ug/l	0.05
34) 1,4-Difluorobenzene	8.588	114	257471	50.000	ug/l	0.04
63) Chlorobenzene-d5	11.760	117	207250	50.000	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	13.970	152	94691	50.000	ug/l	0.04
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.982	65	109051	45.444	ug/l	0.05
Spiked Amount 50.000			Recovery	=	90.880%	
35) Dibromofluoromethane	7.518	113	74263	45.604	ug/l	0.05
Spiked Amount 50.000			Recovery	=	91.200%	
50) Toluene-d8	10.262	98	296278	44.803	ug/l	0.04
Spiked Amount 50.000			Recovery	=	89.600%	
62) 4-Bromofluorobenzene	12.894	95	95425	45.901	ug/l	0.04
Spiked Amount 50.000			Recovery	=	91.800%	
Target Compounds						Qvalue
17) Carbon Disulfide	3.999	76	282	0.144	ug/l #	75
25) 2-Butanone	6.731	43	54	0.029	ug/l #	52
28) Bromochloromethane	7.089	49	215	0.128	ug/l #	59
29) Tetrahydrofuran	7.136	42	54	0.051	ug/l #	38
37) Ethyl Acetate	6.731	43	54	0.017	ug/l #	71
40) Benzene	7.988	78	127	0.020	ug/l #	51
51) 4-Methyl-2-Pentanone	10.145	43	555	0.186	ug/l #	37
53) t-1,3-Dichloropropene	10.591	75	111	0.048	ug/l #	44
65) Chlorobenzene	11.784	112	71	0.019	ug/l #	42
67) Ethyl Benzene	11.872	91	70	0.010	ug/l #	44
68) m/p-Xylenes	12.013	106	55	0.021	ug/l #	1
70) Styrene	12.395	104	90	0.020	ug/l #	25
73) Isopropylbenzene	12.718	105	63	0.010	ug/l #	48
77) Bromobenzene	13.035	156	60	0.043	ug/l #	34
78) n-propylbenzene	13.112	91	428	0.055	ug/l #	52
79) 2-Chlorotoluene	13.130	91	55	0.012	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.282	105	58	0.011	ug/l #	27
82) 4-Chlorotoluene	13.323	91	572	0.127	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.617	105	168	0.032	ug/l #	29
85) sec-Butylbenzene	13.770	105	212	0.030	ug/l #	55
86) p-Isopropyltoluene	13.905	119	336	0.057	ug/l #	50
87) 1,3-Dichlorobenzene	13.905	146	307	0.108	ug/l #	38
89) n-Butylbenzene	14.269	91	1036	0.189	ug/l #	74
91) 1,2-Dichlorobenzene	14.322	146	196	0.071	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.815	180	297	0.166	ug/l #	18

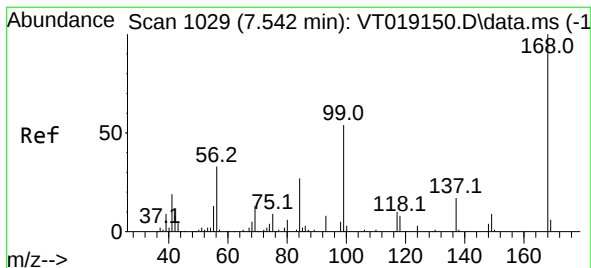
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 30 08:43:44 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.595 min Scan# 1

Delta R.T. 0.047 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

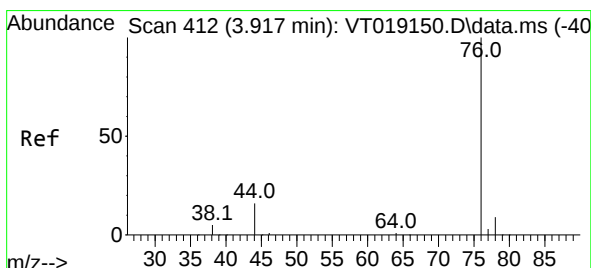
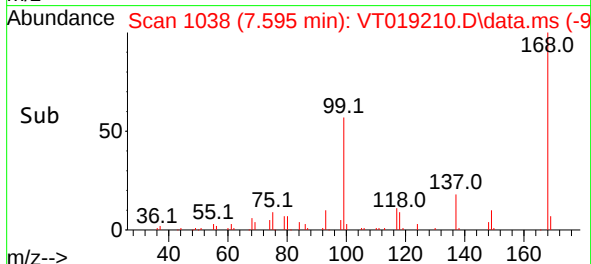
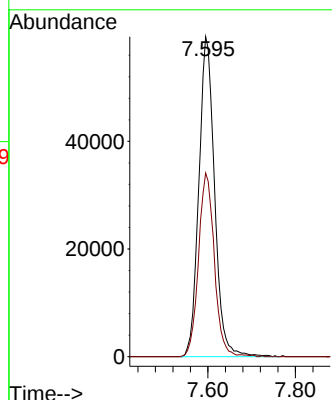
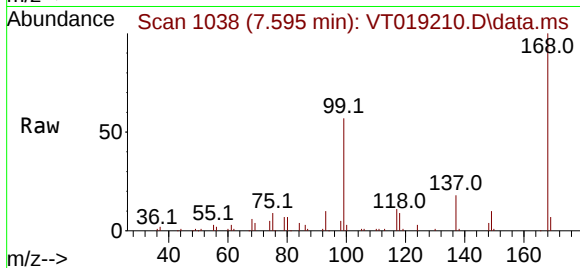
VT1030WBL02

Tgt Ion:168 Resp: 149188

Ion Ratio Lower Upper

168 100

99 57.4 46.6 70.0



#17

Carbon Disulfide

Concen: 0.144 ug/l

RT: 3.999 min Scan# 426

Delta R.T. 0.065 min

Lab File: VT019210.D

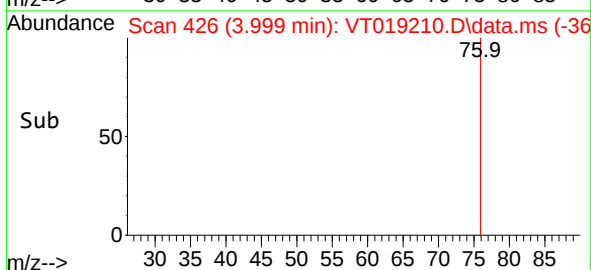
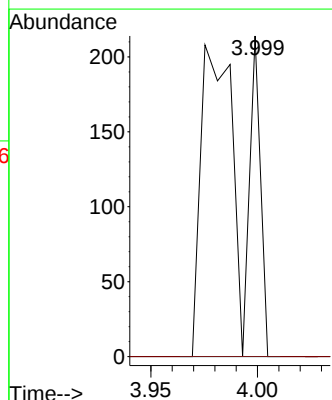
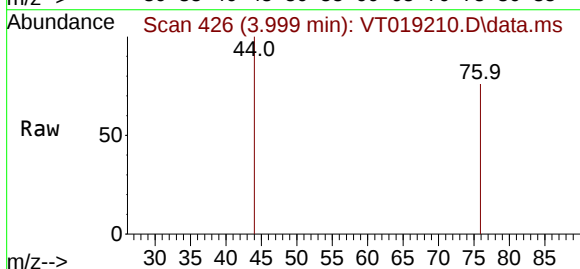
Acq: 30 Oct 2025 11:14

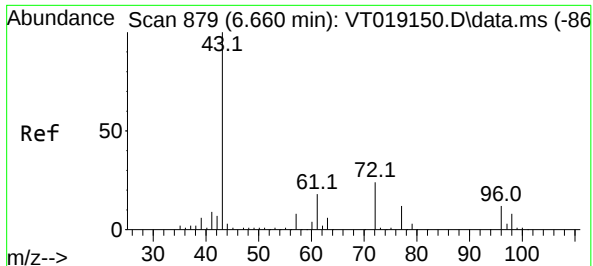
Tgt Ion: 76 Resp: 282

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#25

2-Butanone

Concen: 0.029 ug/l

RT: 6.731 min Scan# 891

Delta R.T. 0.065 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

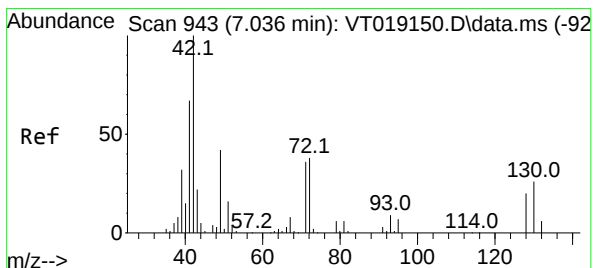
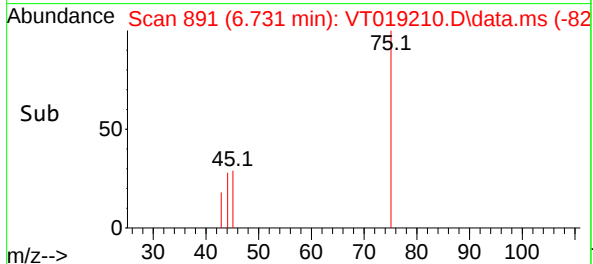
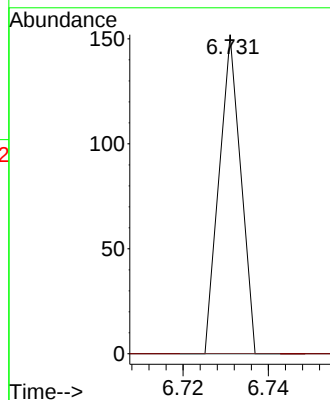
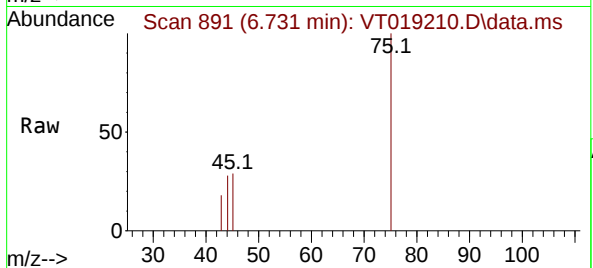
VT1030WBL02

Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

72 0.0 19.0 28.6#



#28

Bromochloromethane

Concen: 0.128 ug/l

RT: 7.089 min Scan# 952

Delta R.T. 0.047 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

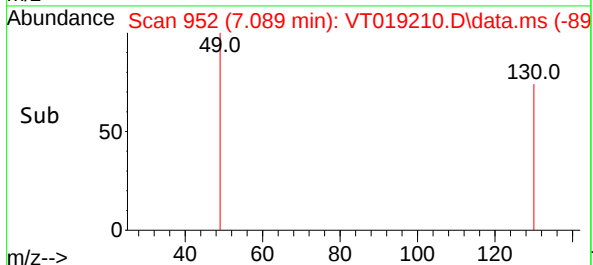
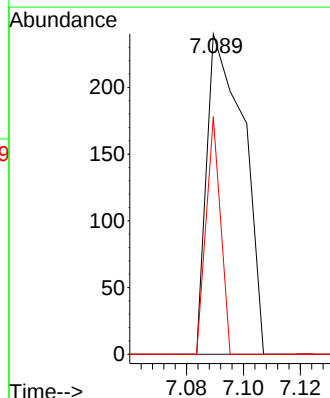
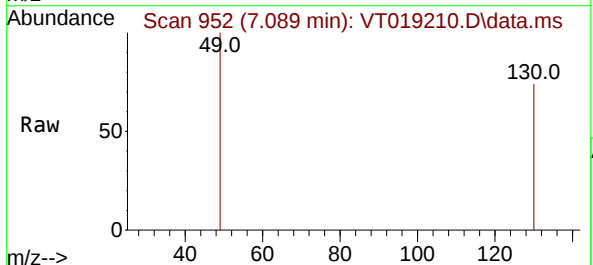
Tgt Ion: 49 Resp: 215

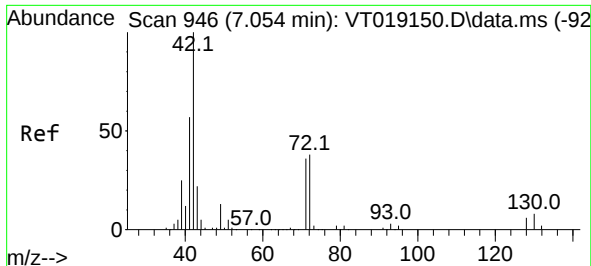
Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

130 29.3 48.6 73.0#

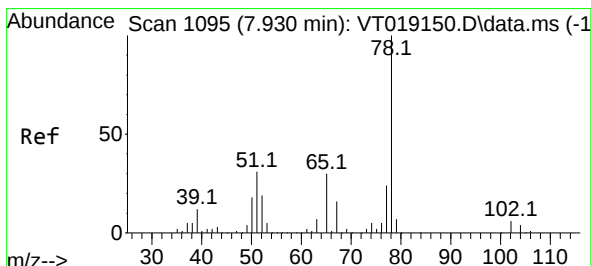
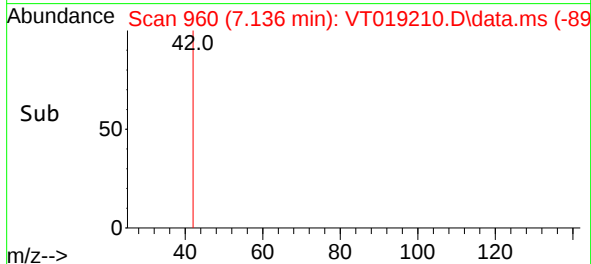
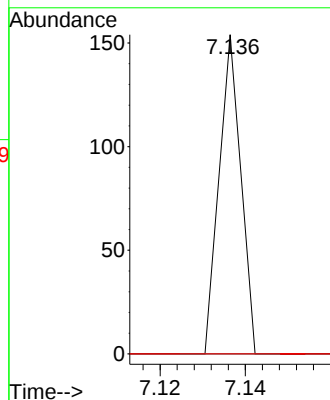
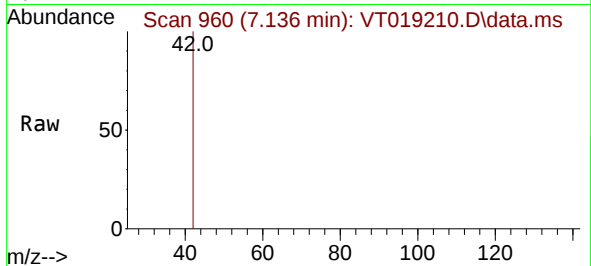




#29
Tetrahydrofuran
Concen: 0.051 ug/l
RT: 7.136 min Scan# 90
Delta R.T. 0.070 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

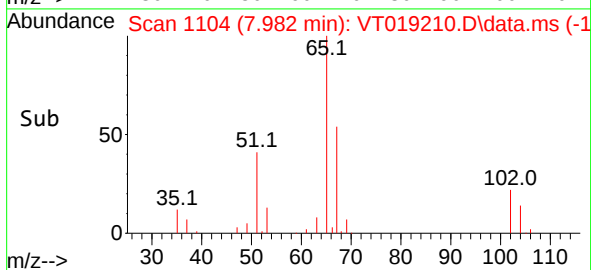
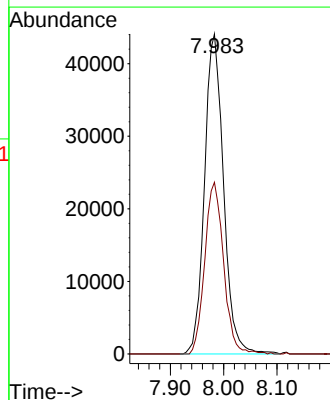
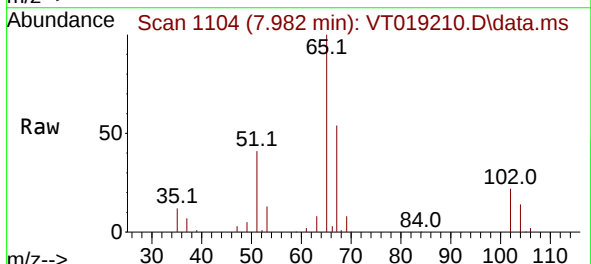
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

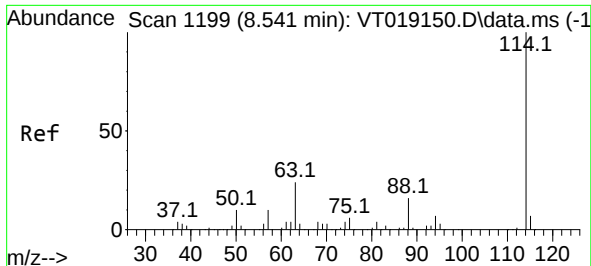
Tgt Ion: 42 Resp: 54
Ion Ratio Lower Upper
42 100
72 0.0 30.1 45.1#
71 0.0 28.4 42.6#



#33
1,2-Dichloroethane-d4
Concen: 45.444 ug/l
RT: 7.982 min Scan# 1104
Delta R.T. 0.048 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion: 65 Resp: 109051
Ion Ratio Lower Upper
65 100
67 53.3 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.588 min Scan# 1199

Delta R.T. 0.041 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

VT1030WBL02

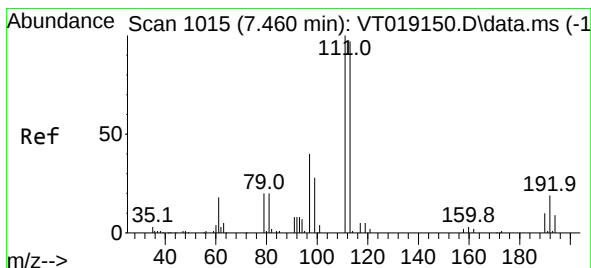
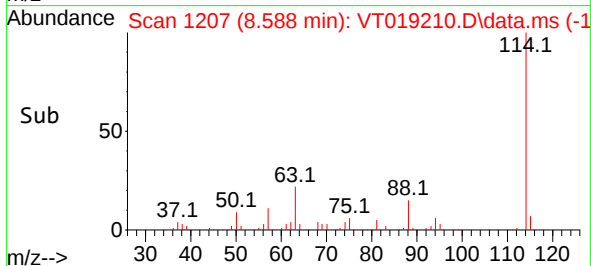
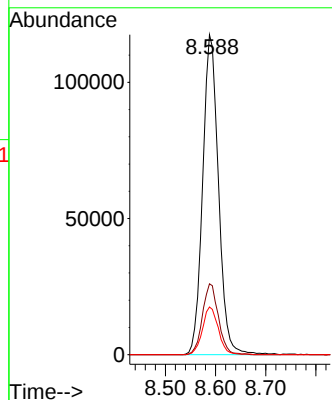
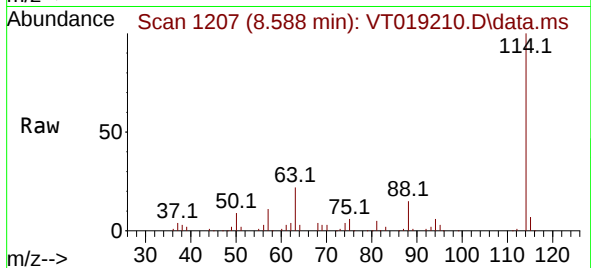
Tgt Ion:114 Resp: 257471

Ion Ratio Lower Upper

114 100

63 22.1 0.0 47.2

88 14.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 45.604 ug/l

RT: 7.518 min Scan# 1025

Delta R.T. 0.053 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

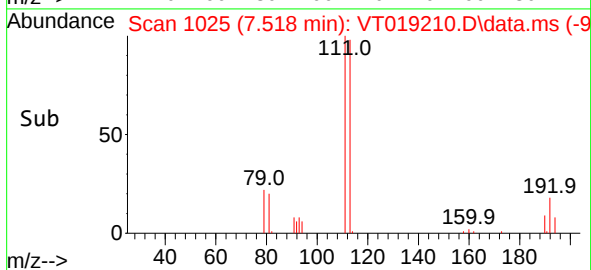
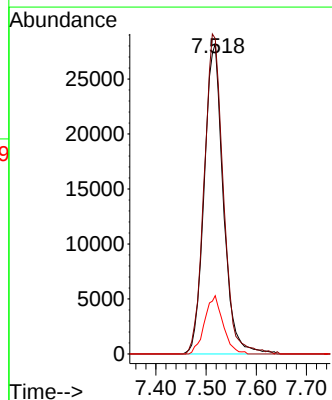
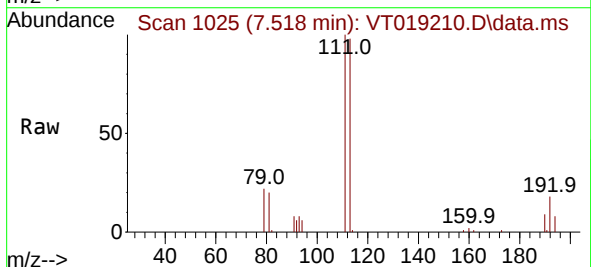
Tgt Ion:113 Resp: 74263

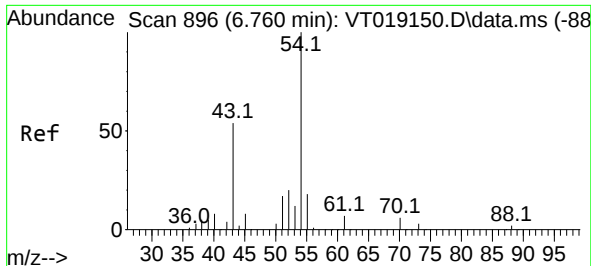
Ion Ratio Lower Upper

113 100

111 103.9 81.6 122.4

192 18.1 15.3 22.9





#37

Ethyl Acetate

Concen: 0.017 ug/l

RT: 6.731 min Scan# 89

Delta R.T. -0.035 min

Lab File: VT019210.D

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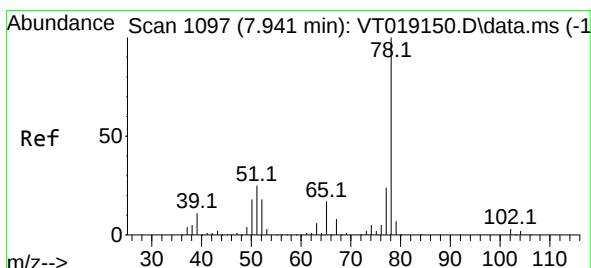
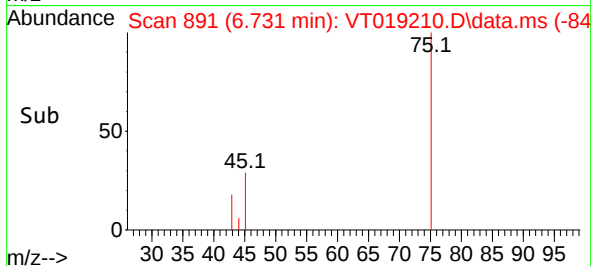
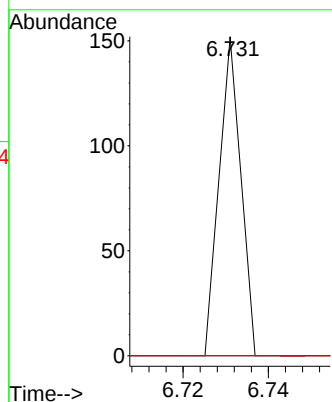
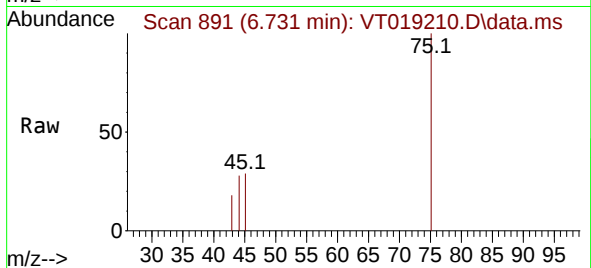
Instrument :

MSVOA_T

ClientSampleId :

VT1030WBL02

Tgt Ion: 43	Resp: 54
Ion Ratio	Lower Upper
43	100
61	0.0 10.0 15.0#
70	0.0 7.3 10.9#



#40

Benzene

Concen: 0.020 ug/l

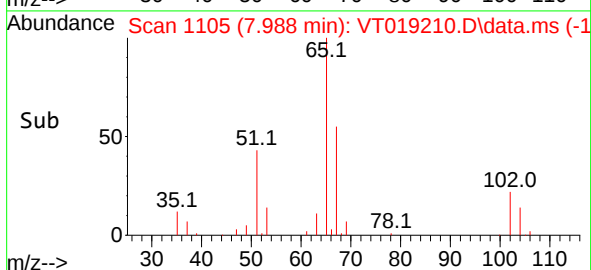
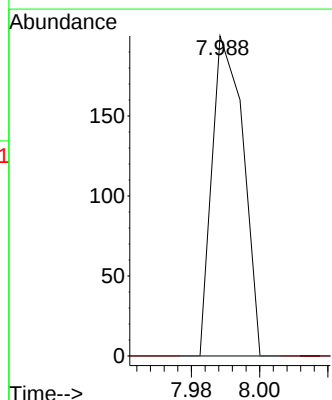
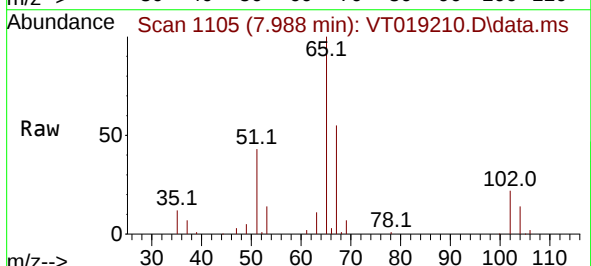
RT: 7.988 min Scan# 1105

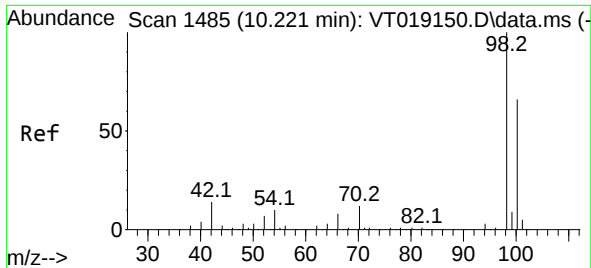
Delta R.T. 0.041 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Tgt Ion: 78	Resp: 127
Ion Ratio	Lower Upper
78	100
77	0.0 19.1 28.7#

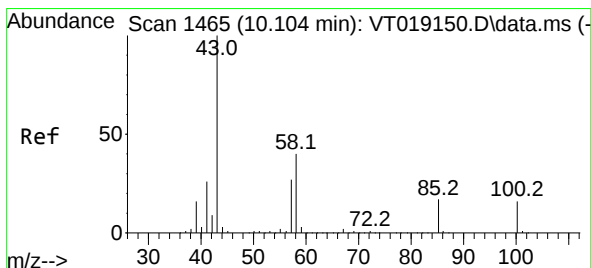
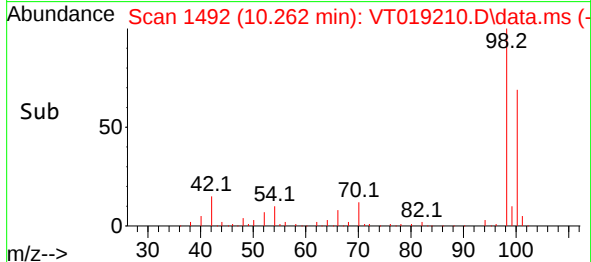
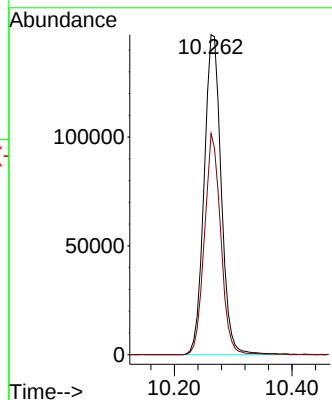
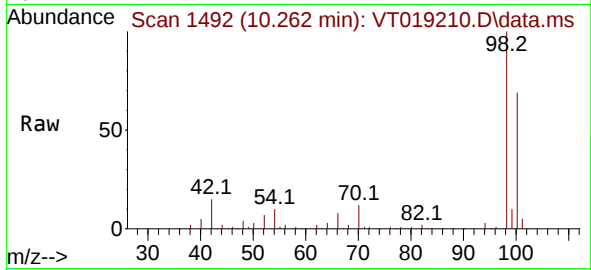




#50
Toluene-d8
Concen: 44.803 ug/l
RT: 10.262 min Scan# 1485
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

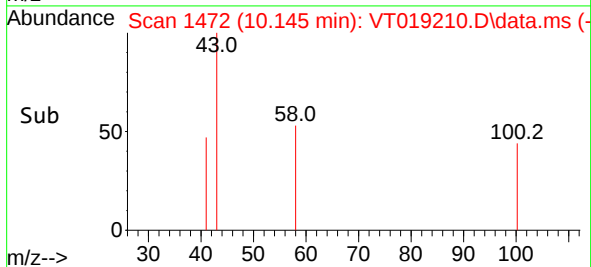
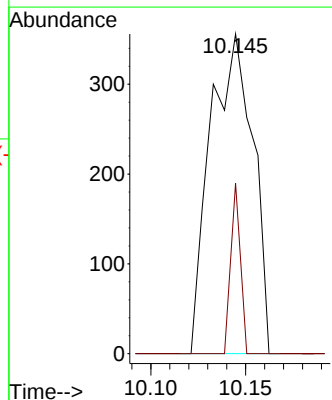
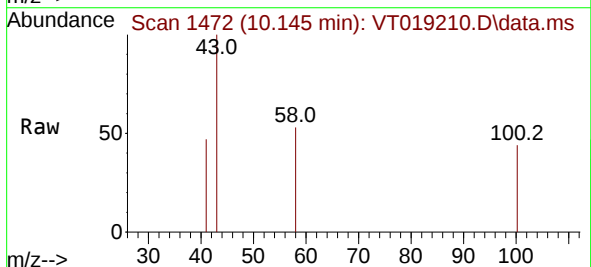
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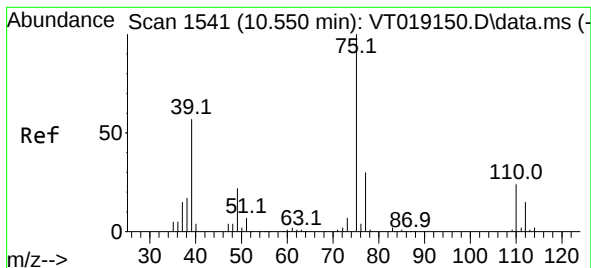
Tgt Ion: 98 Resp: 296278
Ion Ratio Lower Upper
98 100
100 66.0 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 0.186 ug/l
RT: 10.145 min Scan# 1472
Delta R.T. 0.036 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion: 43 Resp: 555
Ion Ratio Lower Upper
43 100
58 0.0 30.5 45.7#

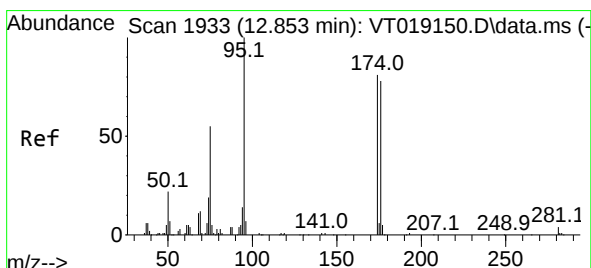
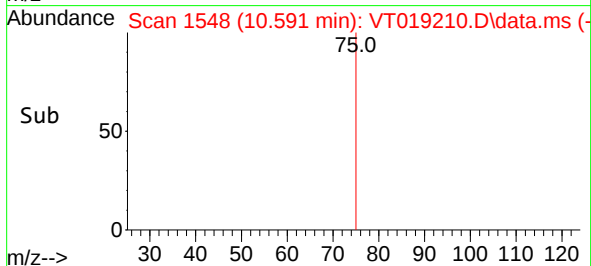
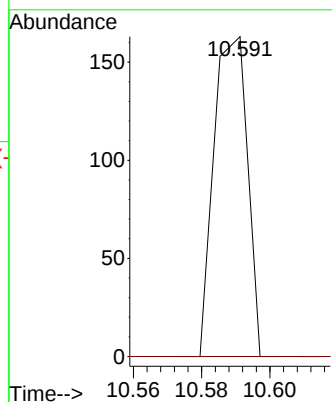
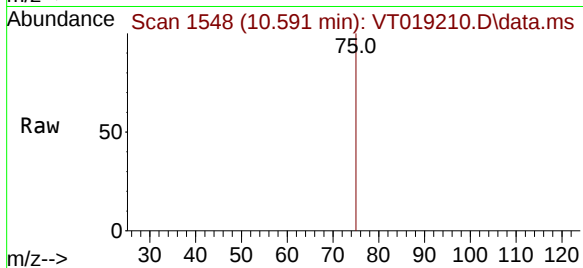




#53
t-1,3-Dichloropropene
Concen: 0.048 ug/l
RT: 10.591 min Scan# 11
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

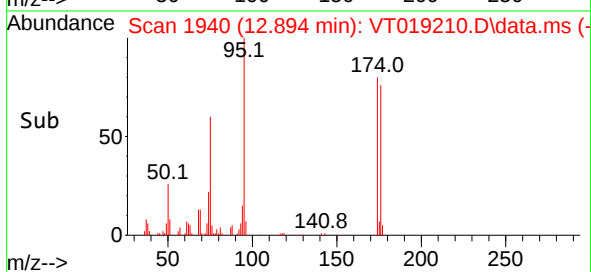
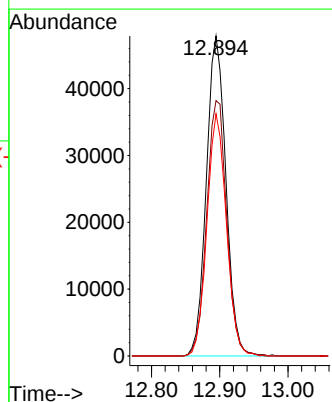
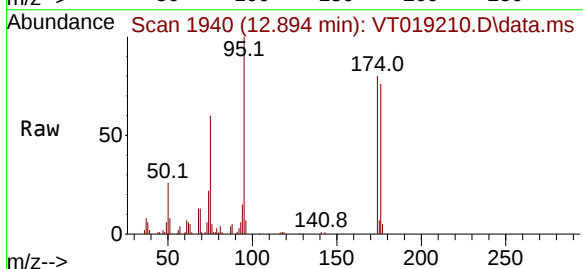
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

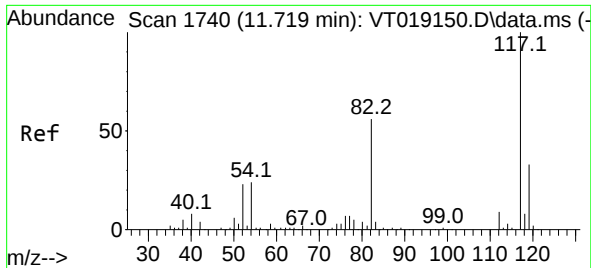
Tgt Ion: 75 Resp: 111
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.4#



#62
4-Bromofluorobenzene
Concen: 45.901 ug/l
RT: 12.894 min Scan# 1940
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion: 95 Resp: 95425
Ion Ratio Lower Upper
95 100
174 81.6 0.0 160.6
176 75.4 0.0 156.6

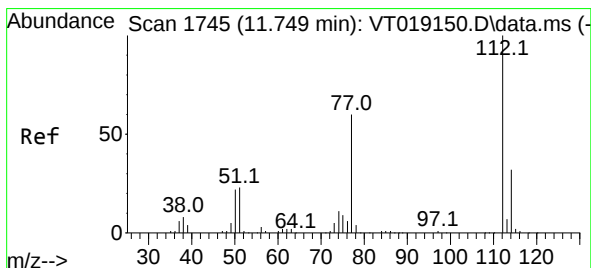
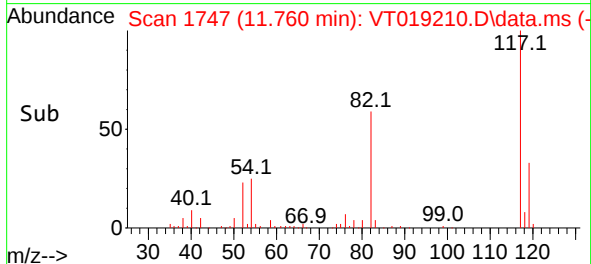
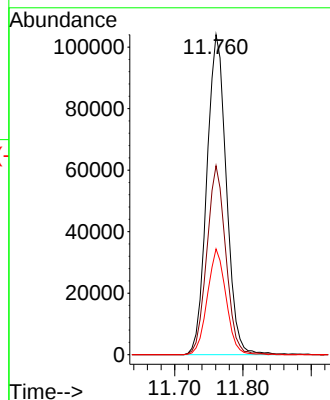
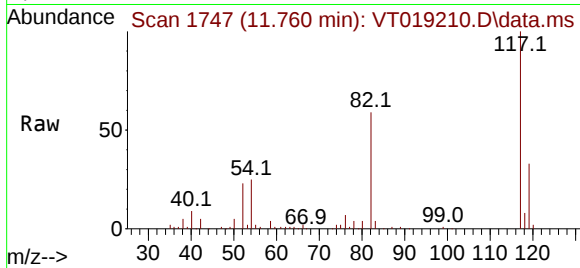




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.760 min Scan# 117
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

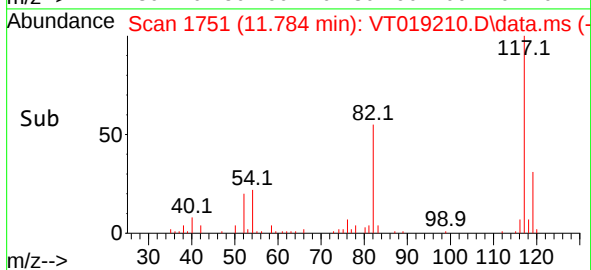
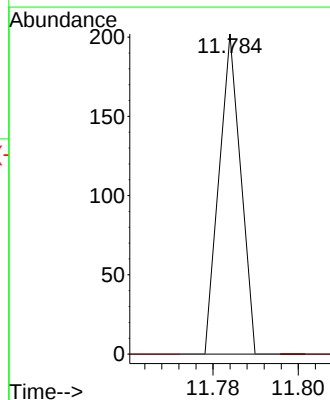
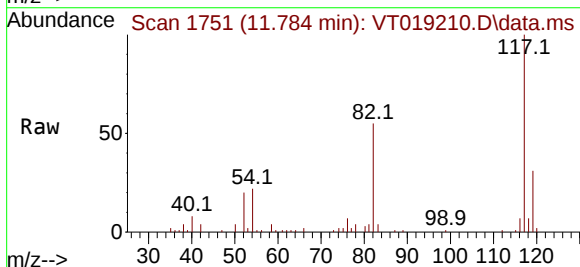
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

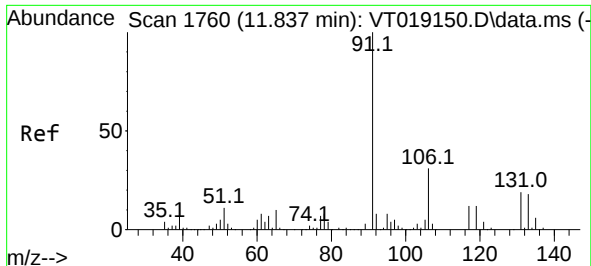
Tgt Ion:117 Resp: 207250
Ion Ratio Lower Upper
117 100
82 59.0 45.1 67.7
119 33.0 26.6 40.0



#65
Chlorobenzene
Concen: 0.019 ug/l
RT: 11.784 min Scan# 1751
Delta R.T. 0.029 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion:112 Resp: 71
Ion Ratio Lower Upper
112 100
114 0.0 25.8 38.8#





#67

Ethyl Benzene

Concen: 0.010 ug/l

RT: 11.872 min Scan# 11

Delta R.T. 0.029 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

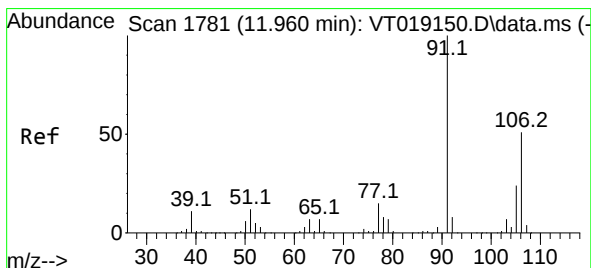
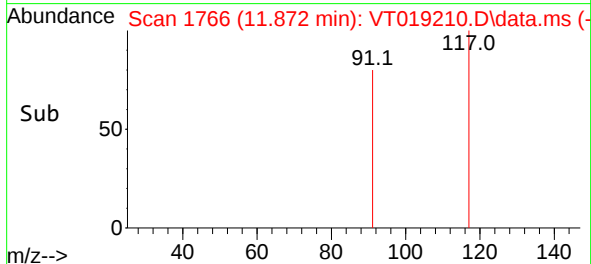
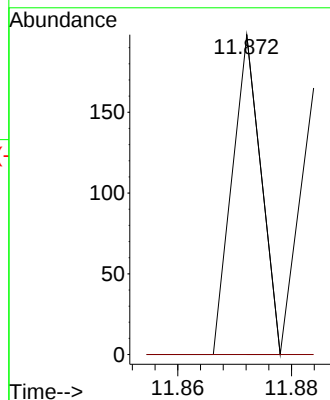
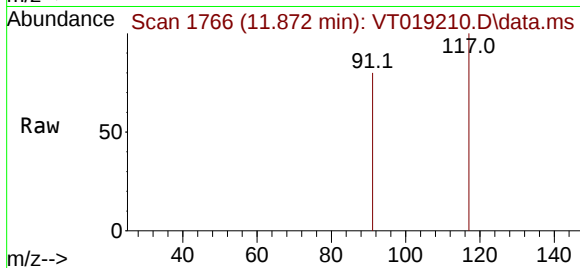
VT1030WBL02

Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

106 0.0 24.8 37.2#



#68

m/p-Xylenes

Concen: 0.021 ug/l

RT: 12.013 min Scan# 1790

Delta R.T. 0.047 min

Lab File: VT019210.D

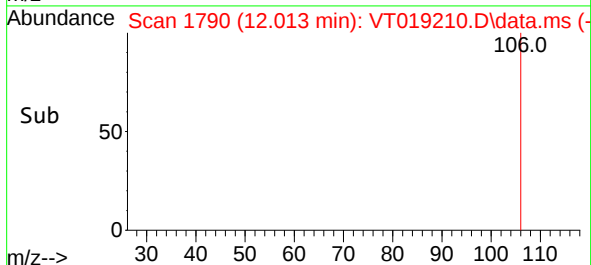
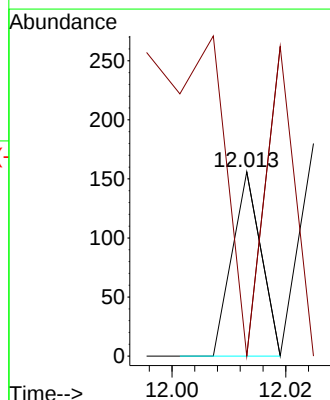
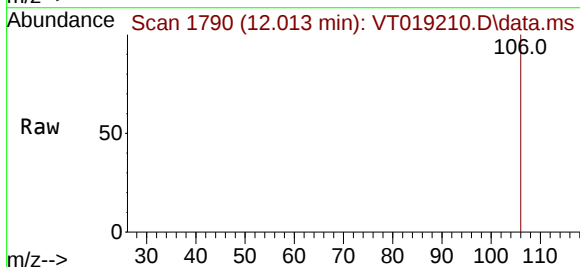
Acq: 30 Oct 2025 11:14

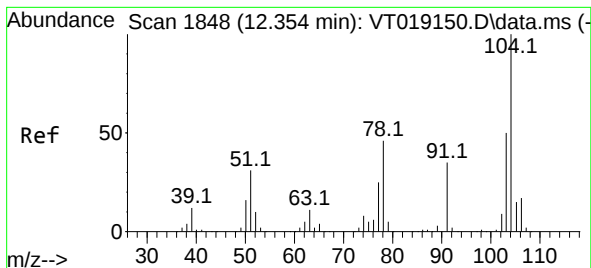
Tgt Ion:106 Resp: 55

Ion Ratio Lower Upper

106 100

91 649.1 161.0 241.6#





#70

Styrene

Concen: 0.020 ug/l

RT: 12.395 min Scan# 11

Delta R.T. 0.035 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

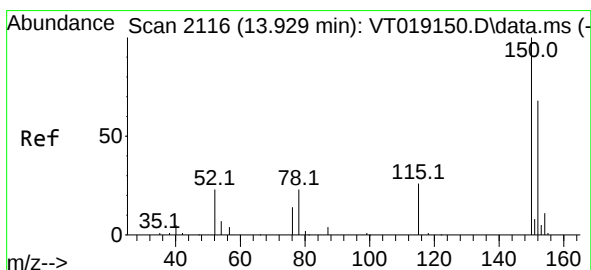
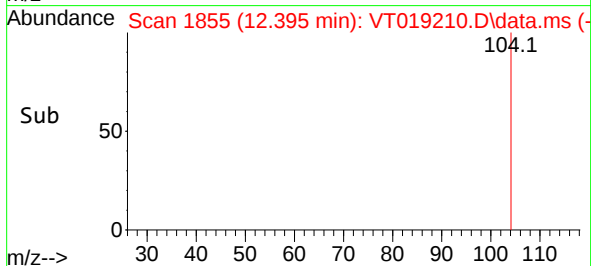
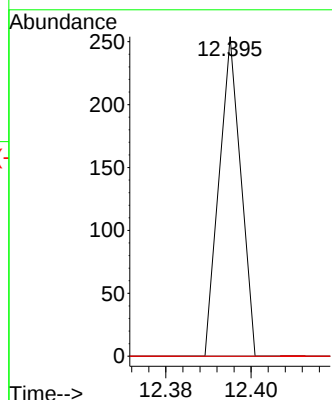
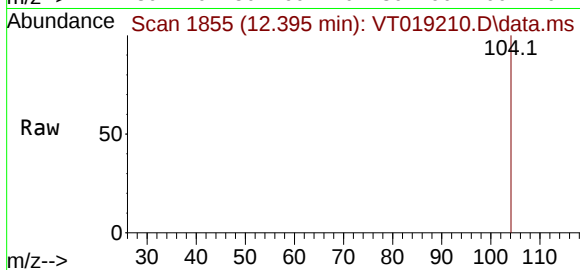
Instrument :

MSVOA_T

ClientSampleId :

VT1030WBL02

Tgt Ion:104	Resp:	90
Ion	Ratio	Lower Upper
104	100	
78	0.0	40.8 61.2#
103	0.0	43.8 65.6#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

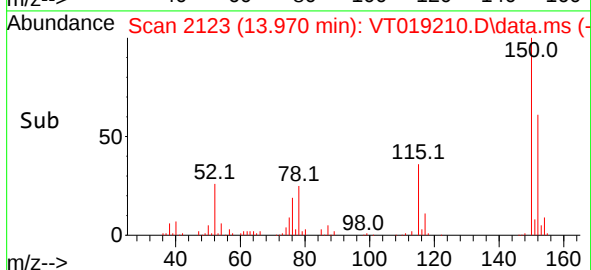
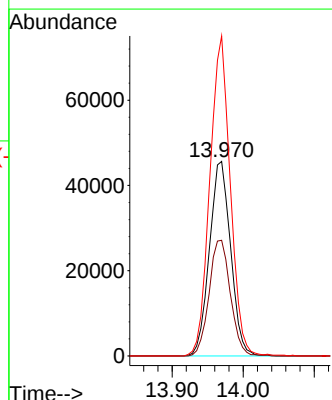
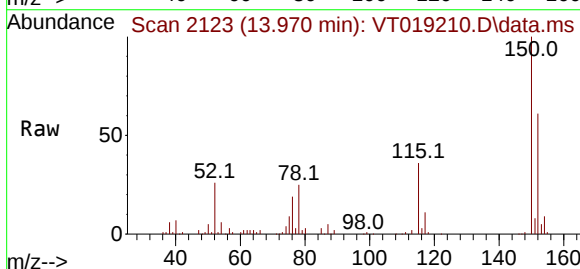
RT: 13.970 min Scan# 2123

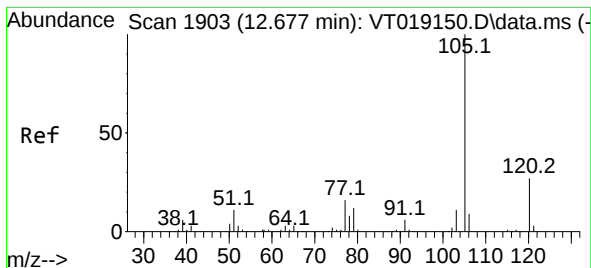
Delta R.T. 0.041 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Tgt Ion:152	Resp:	94691
Ion	Ratio	Lower Upper
152	100	
115	59.8	29.6 88.9
150	158.2	0.0 342.6





#73

Isopropylbenzene

Concen: 0.010 ug/l

RT: 12.718 min Scan# 1910

Delta R.T. 0.035 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

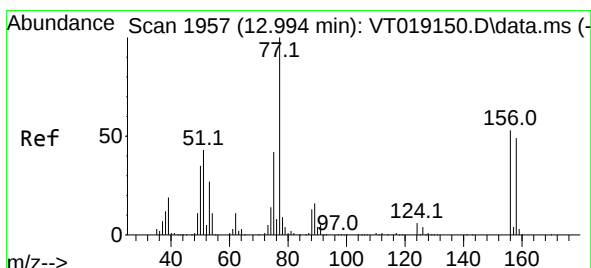
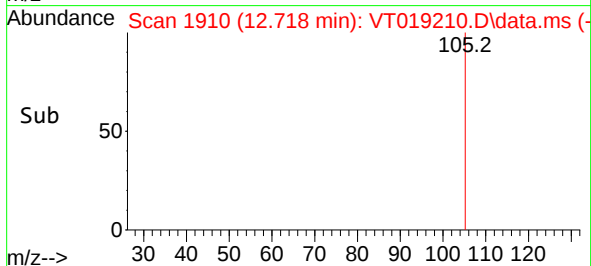
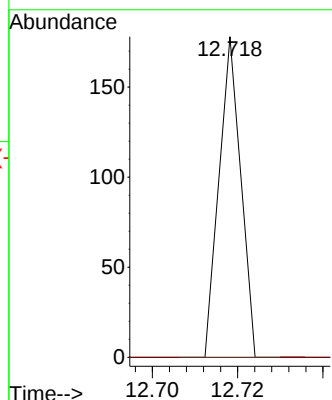
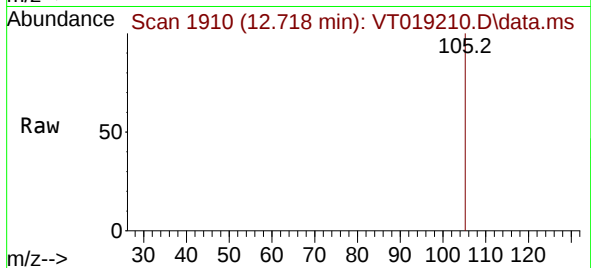
VT1030WBL02

Tgt Ion:105 Resp: 63

Ion Ratio Lower Upper

105 100

120 0.0 13.5 40.4#



#77

Bromobenzene

Concen: 0.043 ug/l

RT: 13.035 min Scan# 1964

Delta R.T. 0.035 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

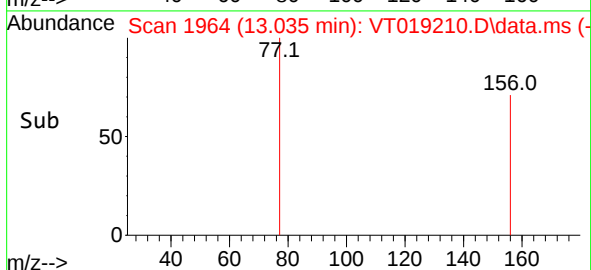
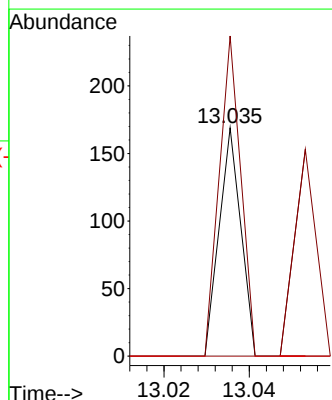
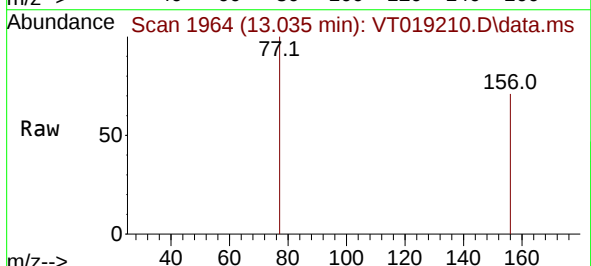
Tgt Ion:156 Resp: 60

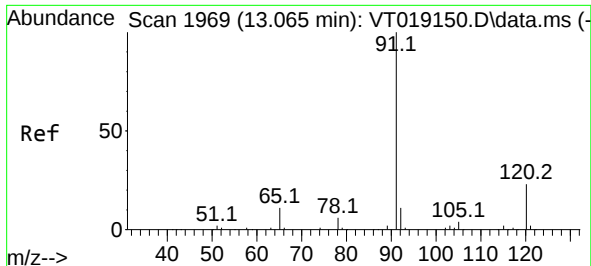
Ion Ratio Lower Upper

156 100

77 140.0 113.1 339.3

158 0.0 48.0 144.0#

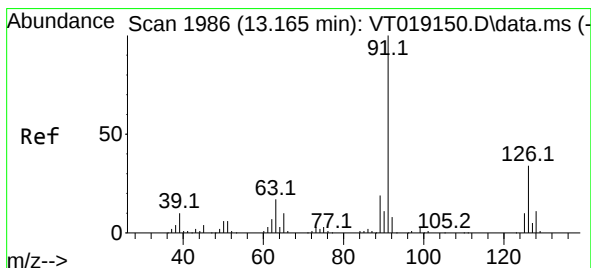
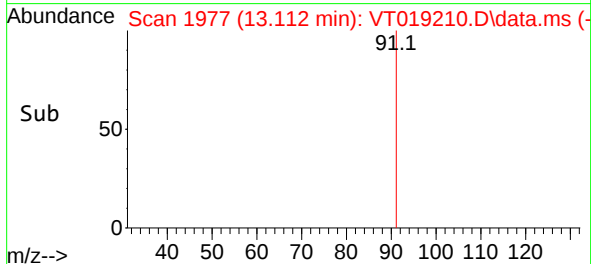
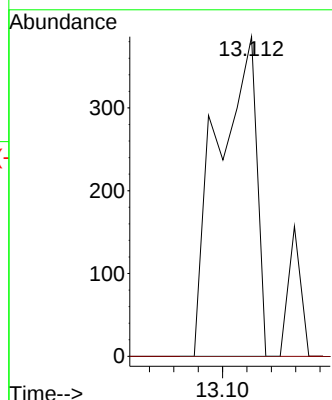
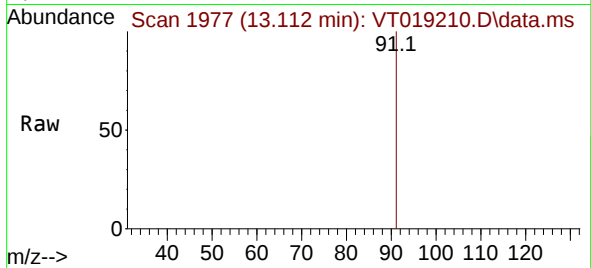




#78
n-propylbenzene
Concen: 0.055 ug/l
RT: 13.112 min Scan# 1977
Delta R.T. 0.041 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

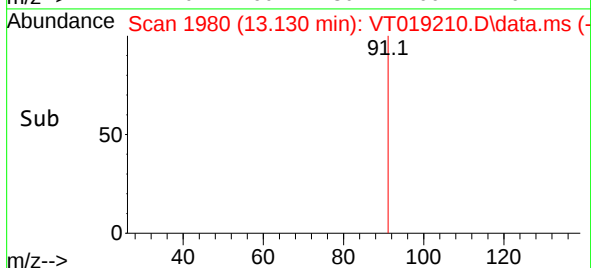
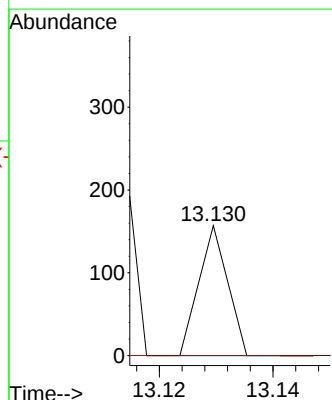
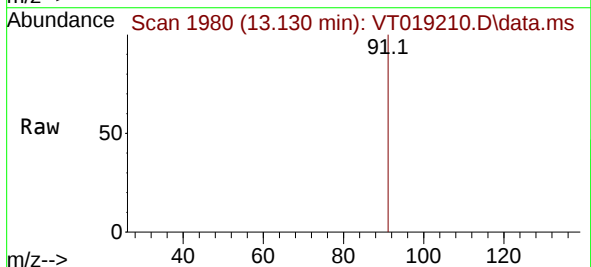
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

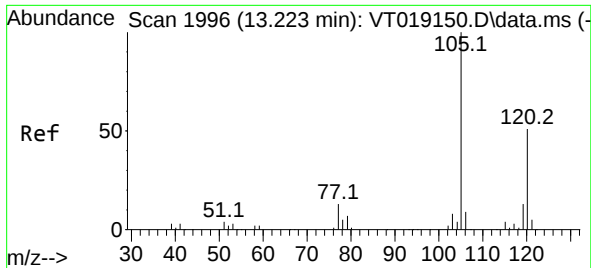
Tgt Ion: 91 Resp: 428
Ion Ratio Lower Upper
91 100
120 0.0 11.6 34.8#



#79
2-Chlorotoluene
Concen: 0.012 ug/l
RT: 13.130 min Scan# 1980
Delta R.T. -0.041 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion: 91 Resp: 55
Ion Ratio Lower Upper
91 100
126 0.0 17.1 51.2#

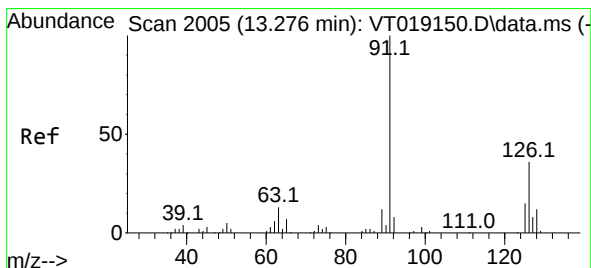
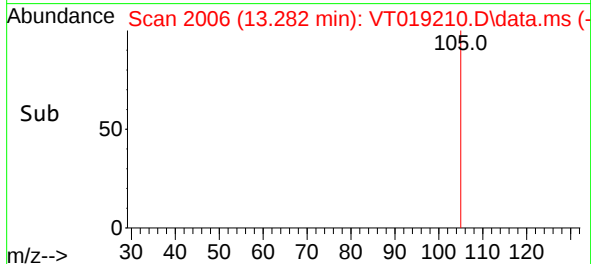
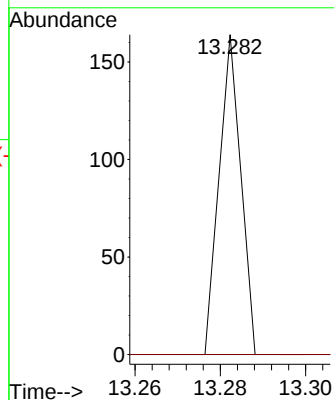
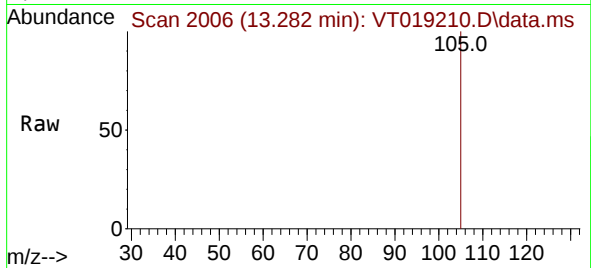




#80
1,3,5-Trimethylbenzene
Concen: 0.011 ug/l
RT: 13.282 min Scan# 2013
Delta R.T. 0.053 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

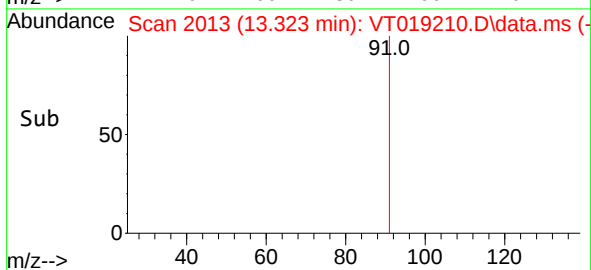
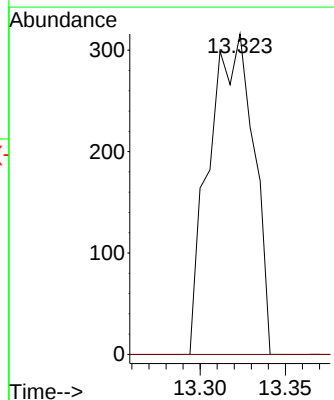
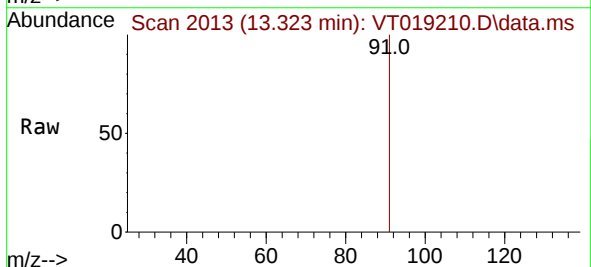
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

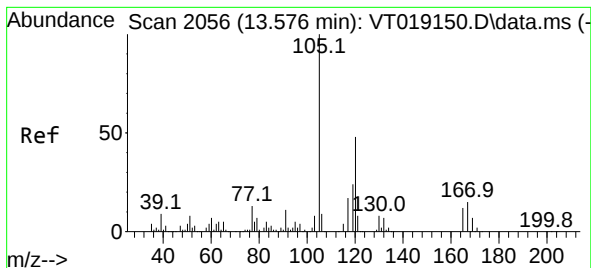
Tgt Ion:105 Resp: 58
Ion Ratio Lower Upper
105 100
120 0.0 25.5 76.5#



#82
4-Chlorotoluene
Concen: 0.127 ug/l
RT: 13.323 min Scan# 2013
Delta R.T. 0.041 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion: 91 Resp: 572
Ion Ratio Lower Upper
91 100
126 0.0 16.9 50.7#





#84

1,2,4-Trimethylbenzene

Concen: 0.032 ug/l

RT: 13.617 min Scan# 2056

Delta R.T. 0.035 min

Lab File: VT019210.D

Acq: 30 Oct 2025 11:14

Instrument :

MSVOA_T

ClientSampleId :

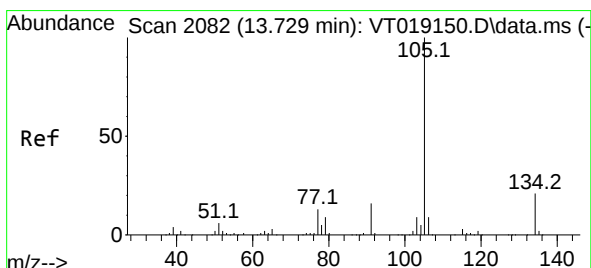
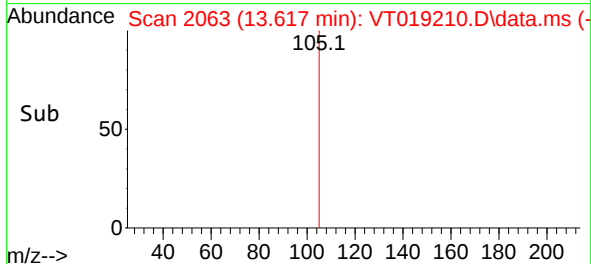
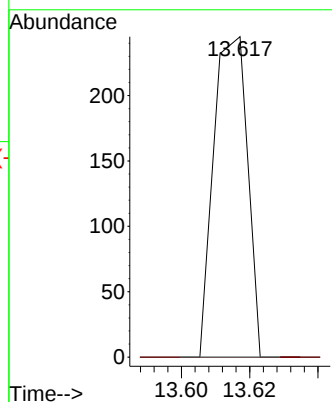
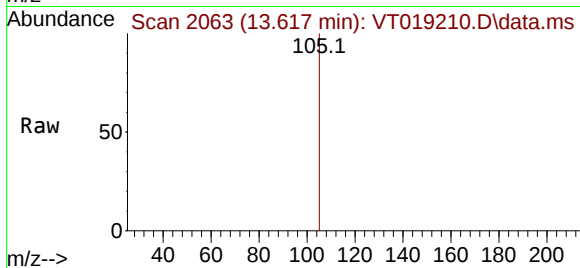
VT1030WBL02

Tgt Ion:105 Resp: 168

Ion Ratio Lower Upper

105 100

120 0.0 23.7 71.1#



#85

sec-Butylbenzene

Concen: 0.030 ug/l

RT: 13.770 min Scan# 2089

Delta R.T. 0.041 min

Lab File: VT019210.D

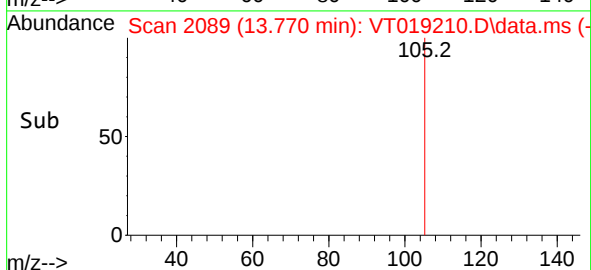
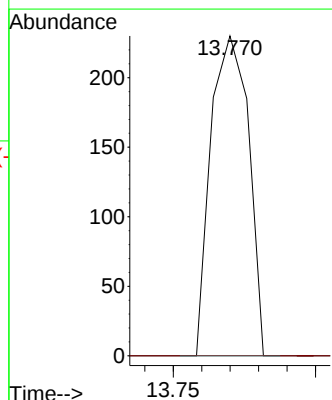
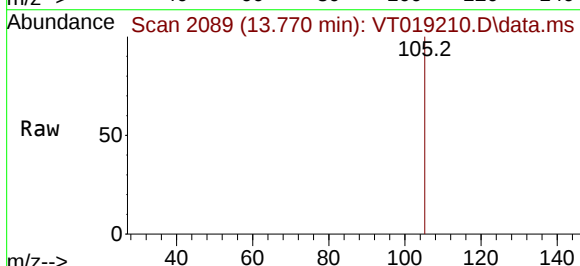
Acq: 30 Oct 2025 11:14

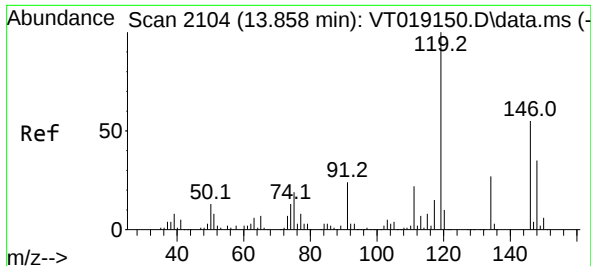
Tgt Ion:105 Resp: 212

Ion Ratio Lower Upper

105 100

134 0.0 10.7 32.1#

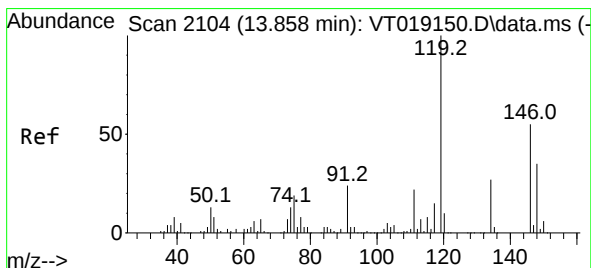
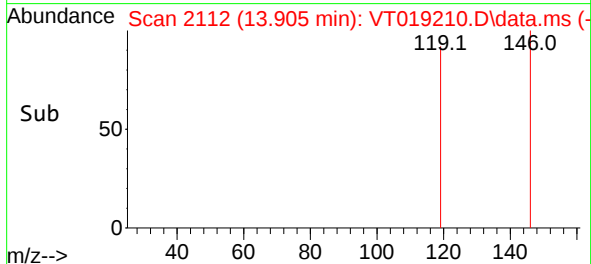
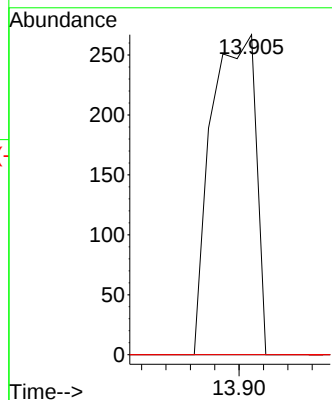
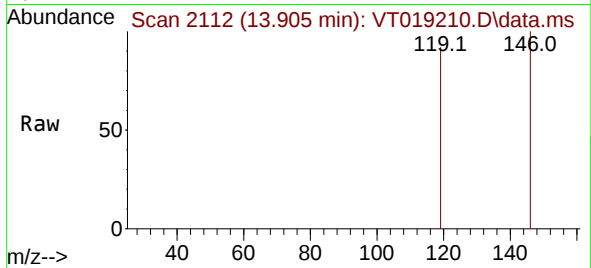




#86
p-Isopropyltoluene
Concen: 0.057 ug/l
RT: 13.905 min Scan# 2112
Delta R.T. 0.041 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

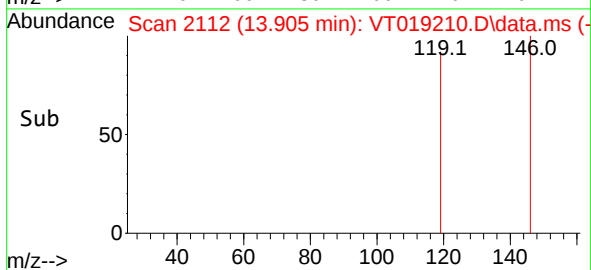
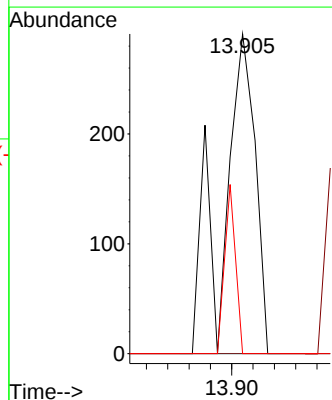
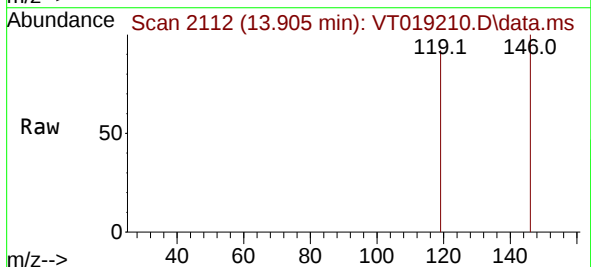
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

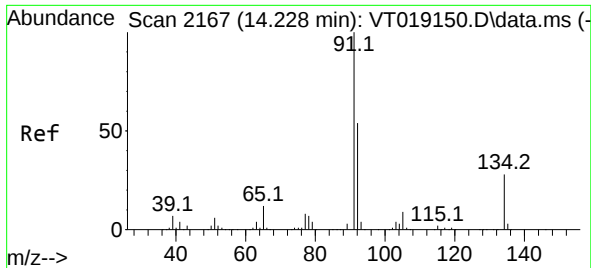
Tgt Ion:119 Resp: 336
Ion Ratio Lower Upper
119 100
134 0.0 13.4 40.1#
91 0.0 11.7 35.1#



#87
1,3-Dichlorobenzene
Concen: 0.108 ug/l
RT: 13.905 min Scan# 2112
Delta R.T. 0.041 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

Tgt Ion:146 Resp: 307
Ion Ratio Lower Upper
146 100
111 0.0 20.3 60.9#
148 17.6 32.1 96.3#

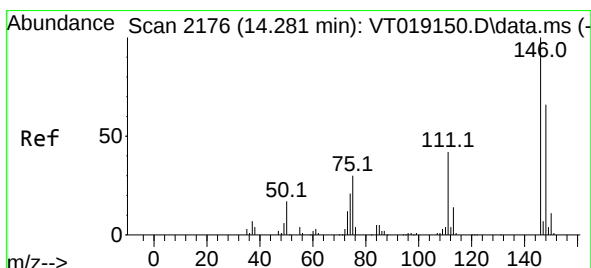
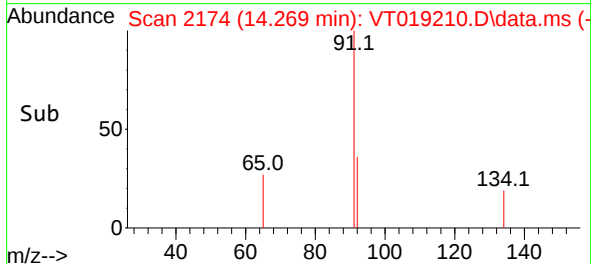
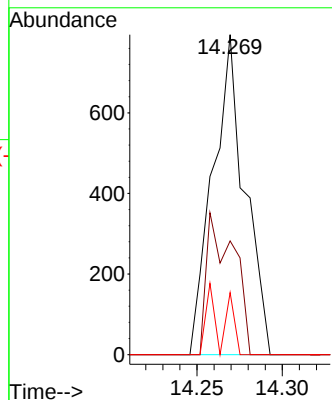
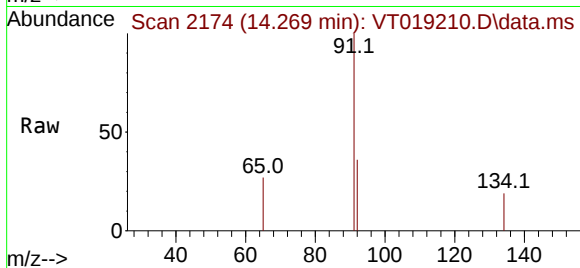




#89
n-Butylbenzene
Concen: 0.189 ug/l
RT: 14.269 min Scan# 2174
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

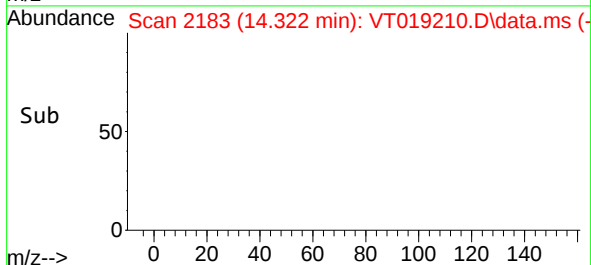
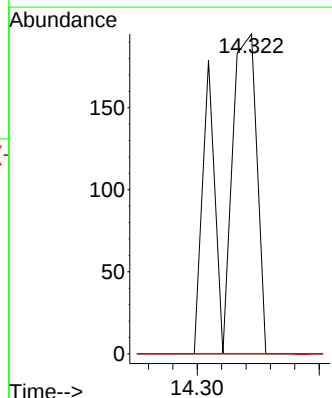
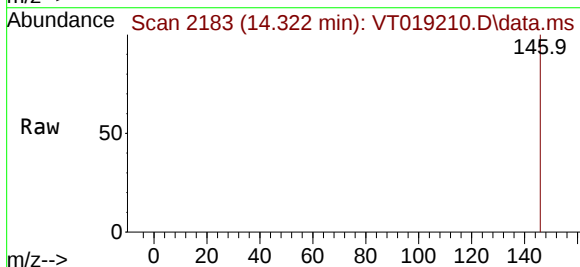
Instrument :
MSVOA_T
ClientSampleId :
VT1030WBL02

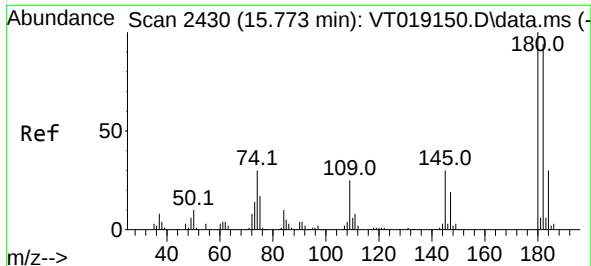
Tgt Ion: 91	Resp:	1036
Ion	Ratio	Lower Upper
91	100	
92	37.5	27.1 81.2
134	11.3	13.7 41.0



#91
1,2-Dichlorobenzene
Concen: 0.071 ug/l
RT: 14.322 min Scan# 2183
Delta R.T. 0.035 min
Lab File: VT019210.D
Acq: 30 Oct 2025 11:14

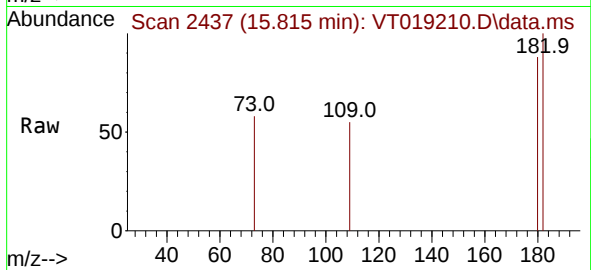
Tgt Ion: 146	Resp:	196
Ion	Ratio	Lower Upper
146	100	
111	0.0	20.8 62.4
148	0.0	32.6 97.8





#93
 1,2,4-Trichlorobenzene
 Concen: 0.166 ug/l
 RT: 15.815 min Scan# 24
 Delta R.T. 0.042 min
 Lab File: VT019210.D
 Acq: 30 Oct 2025 11:14

Instrument :
 MSVOA_T
 ClientSampleId :
 VT1030WBL02



Tgt Ion:180 Resp: 297
 Ion Ratio Lower Upper
 180 100
 182 181.1 47.0 141.0#
 145 0.0 15.0 45.0#

