

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103023\
 Data File : VY016135.D
 Acq On : 30 Oct 2023 17:02
 Operator : SY/MD
 Sample : BLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 31 01:32:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102623S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 27 04:12:29 2023
 Response via : Initial Calibration

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

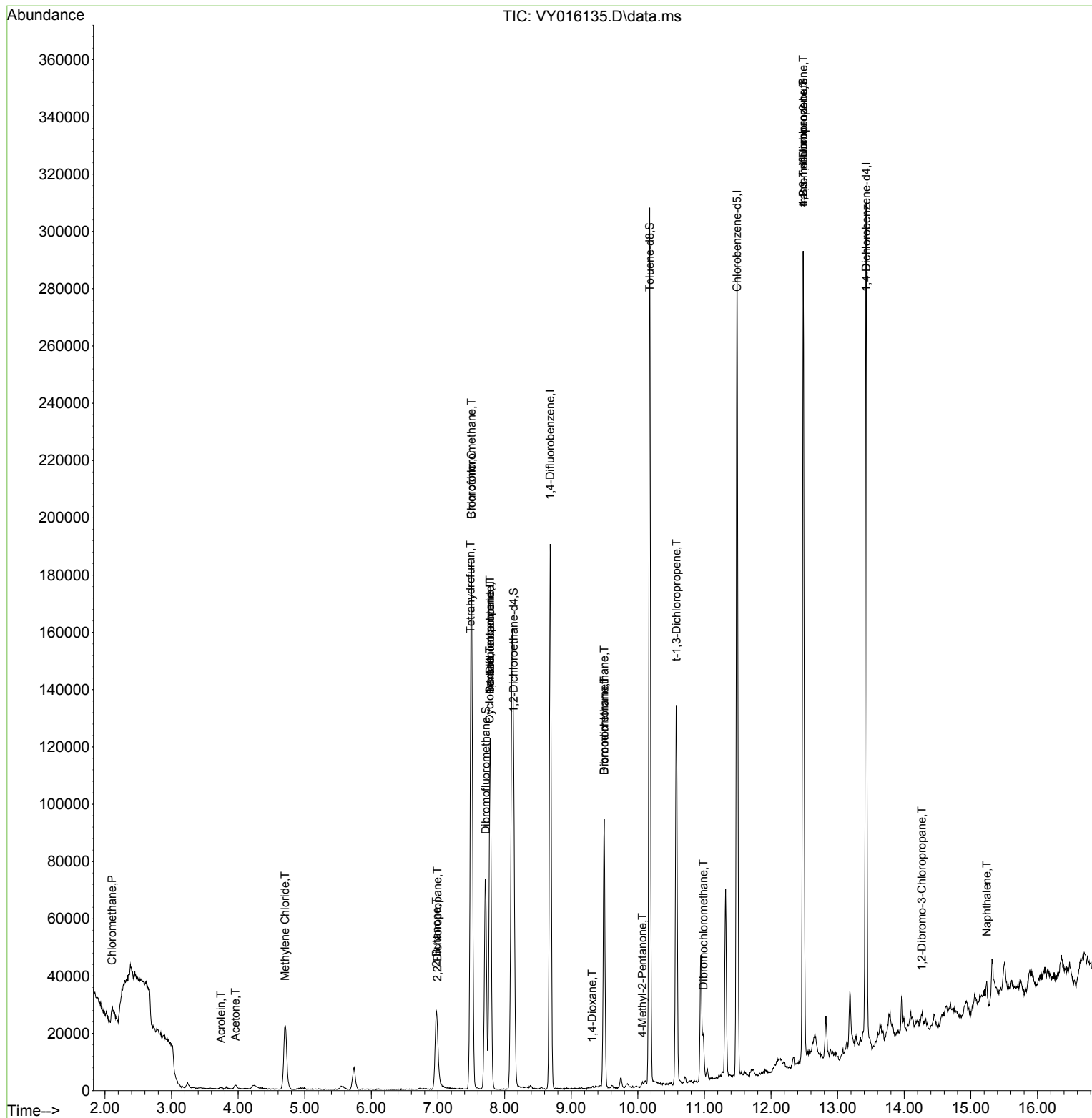
Internal Standards						
1) Pentafluorobenzene	7.783	168	95668	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	162852	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	156211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	74392	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	53083	55.801	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.600%			
35) Dibromofluoromethane	7.715	113	51949	50.530	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.060%			
50) Toluene-d8	10.178	98	195890	51.439	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.880%			
62) 4-Bromofluorobenzene	12.483	95	69274	53.031	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.060%			
Target Compounds						Qvalue
3) Chloromethane	2.107	50	1668	2.062	ug/l	90
11) Tert butyl alcohol	4.917	59	120	Below Cal	#	89
13) Acrolein	3.741	56	816	6.887	ug/l	86
16) Acetone	3.960	43	2817	10.925	ug/l	98
20) Methylene Chloride	4.704	84	17705	13.362	ug/l	92
25) 2-Butanone	6.978	43	2140	6.149	ug/l	91
26) 2,2-Dichloropropane	6.990	77	2238	1.430	ug/l #	54
28) Bromochloromethane	7.502	49	14057	20.410	ug/l #	14
29) Tetrahydrofuran	7.490	42	302	1.513	ug/l #	1
30) Chloroform	7.502	83	180192	101.323	ug/l	96
31) Cyclohexane	7.776	56	1856	1.240	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	7430	5.185	ug/l #	50
38) Carbon Tetrachloride	7.783	117	9284	6.126	ug/l #	17
46) Dibromomethane	9.496	93	1921	3.190	ug/l #	2
47) Bromodichloromethane	9.496	83	60225	41.358	ug/l	96
49) 1,4-Dioxane	9.313	88	242	32.125	ug/l #	37
51) 4-Methyl-2-Pentanone	10.069	43	811	1.119	ug/l #	73
53) t-1,3-Dichloropropene	10.581	75	1710	1.148	ug/l #	58
60) Dibromochloromethane	10.983	129	5864	5.598	ug/l	99
76) 1,2,3-Trichloropropane	12.483	75	36866	48.539	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	36866	105.481	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.263	75	209	1.244	ug/l #	25
95) Naphthalene	15.239	128	4238	1.608	ug/l #	84

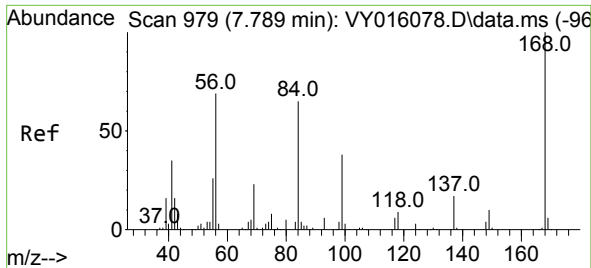
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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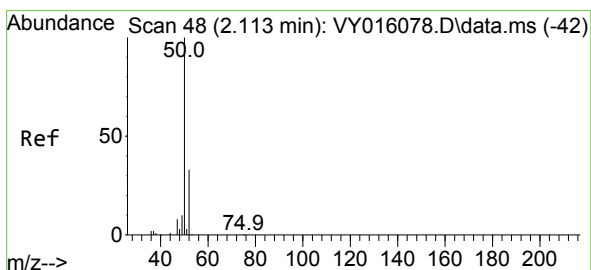
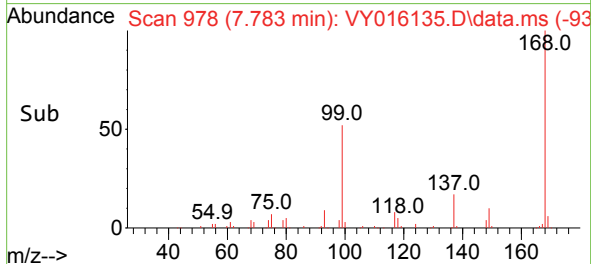
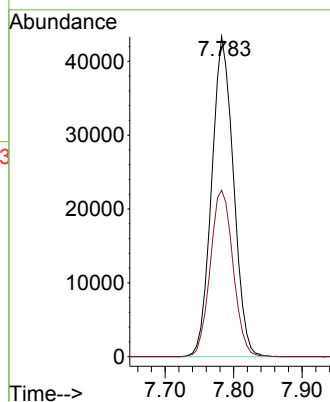
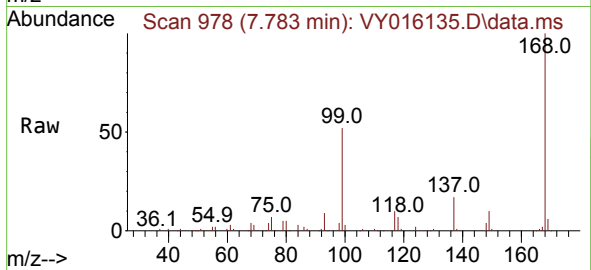




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

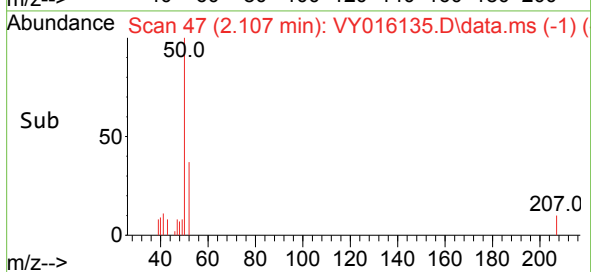
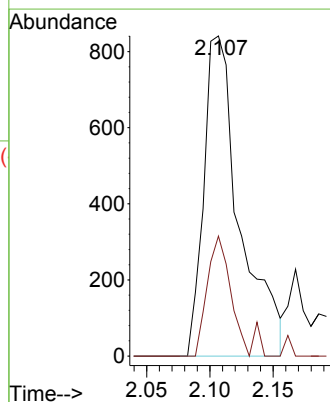
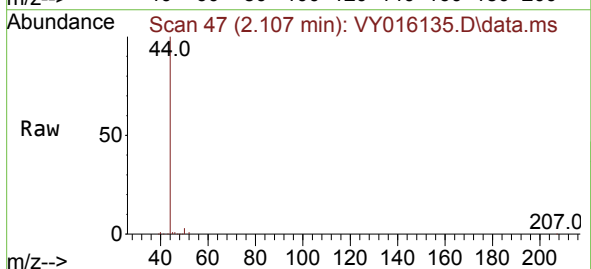
Instrument :
MSVOA_Y
ClientSampleId :

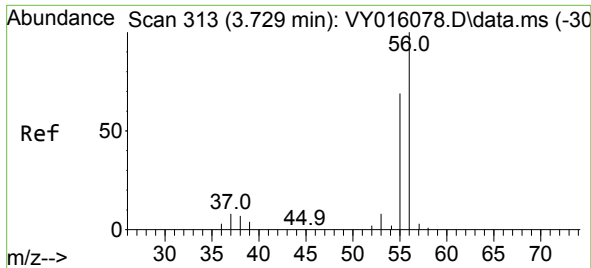
Tgt Ion:168 Resp: 95668
Ion Ratio Lower Upper
168 100
99 52.0 43.4 65.0



#3
Chloromethane
Concen: 2.062 ug/l
RT: 2.107 min Scan# 47
Delta R.T. -0.006 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 50 Resp: 1668
Ion Ratio Lower Upper
50 100
52 37.5 25.4 38.2

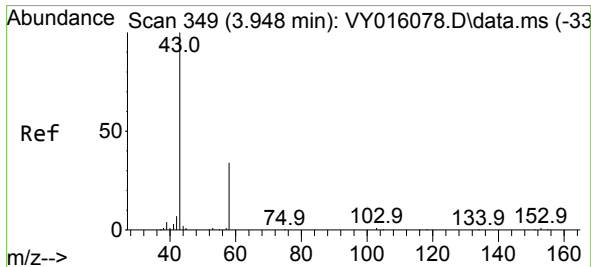
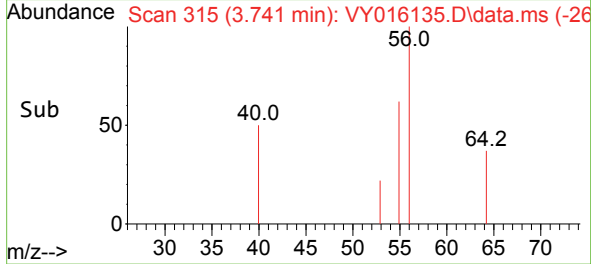
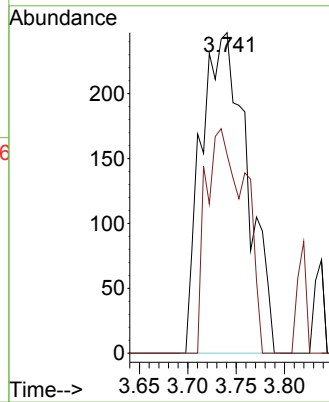
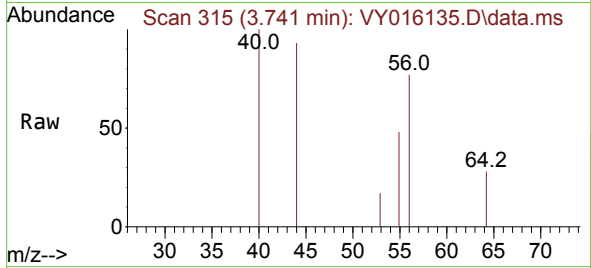




#13
Acrolein
Concen: 6.887 ug/l
RT: 3.741 min Scan# 313
Delta R.T. 0.012 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

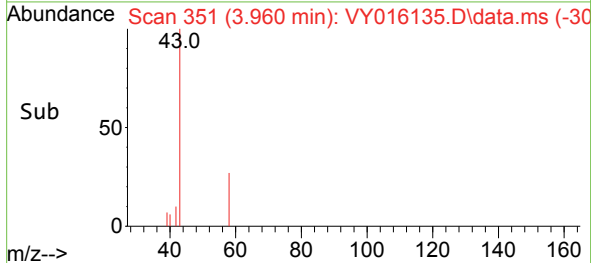
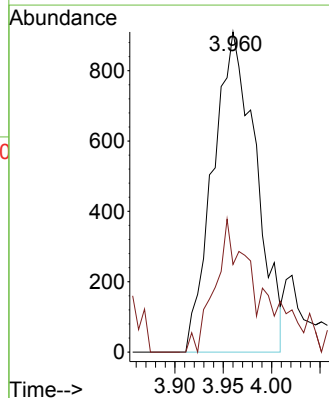
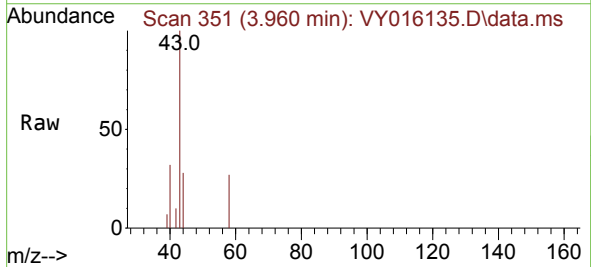
Instrument :
MSVOA_Y
ClientSampleId :

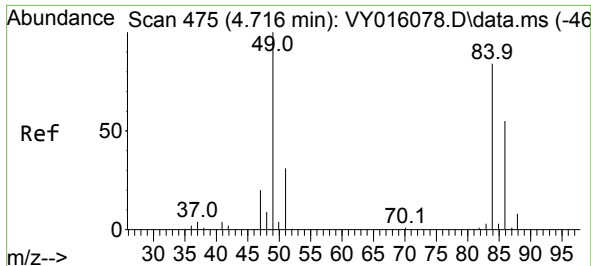
Tgt Ion: 56 Resp: 816
Ion Ratio Lower Upper
56 100
55 59.8 57.0 85.4



#16
Acetone
Concen: 10.925 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.012 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

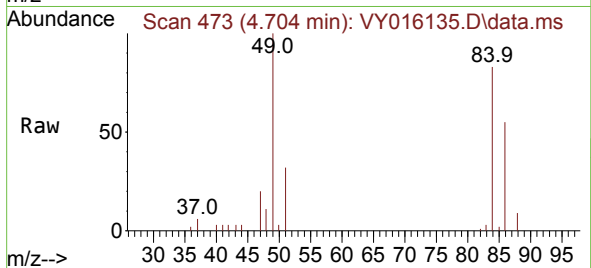
Tgt Ion: 43 Resp: 2817
Ion Ratio Lower Upper
43 100
58 27.4 22.7 34.1





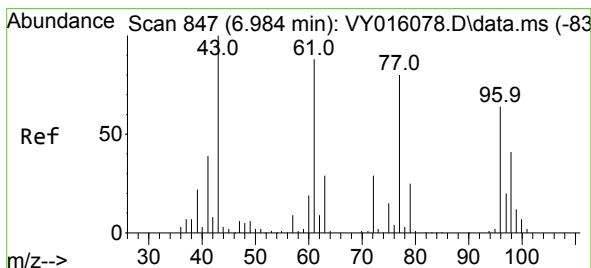
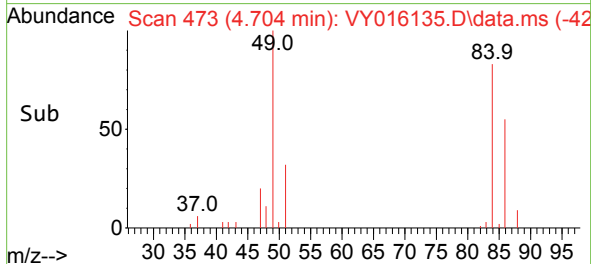
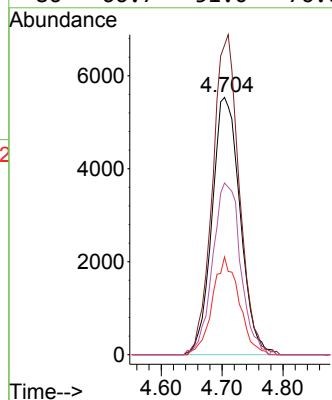
#20
Methylene Chloride
Concen: 13.362 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 84 Resp: 17705

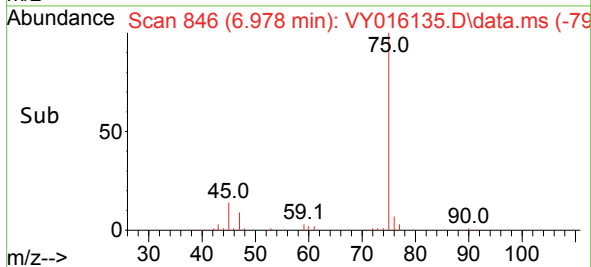
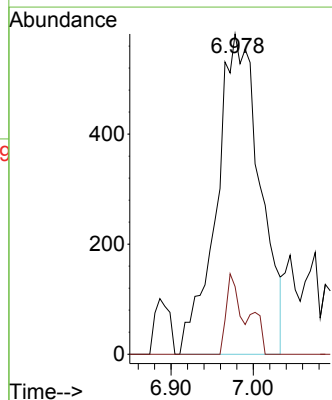
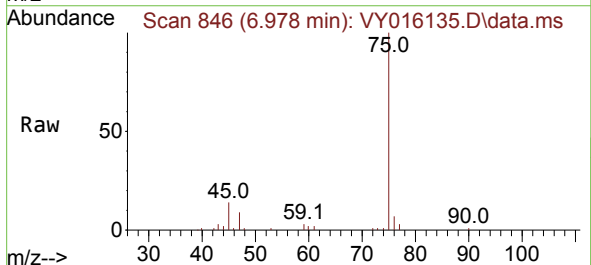
Ion	Ratio	Lower	Upper
84	100		
49	120.2	106.9	160.3
51	38.0	33.2	49.8
86	66.7	51.0	76.6

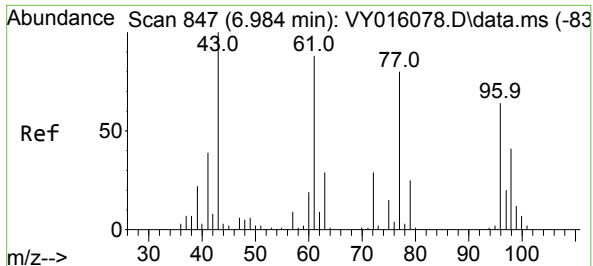


#25
2-Butanone
Concen: 6.149 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 43 Resp: 2140

Ion	Ratio	Lower	Upper
43	100		
72	21.1	20.5	30.7





#26

2,2-Dichloropropane

Concen: 1.430 ug/l

RT: 6.990 min Scan# 847

Delta R.T. 0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Instrument :

MSVOA_Y

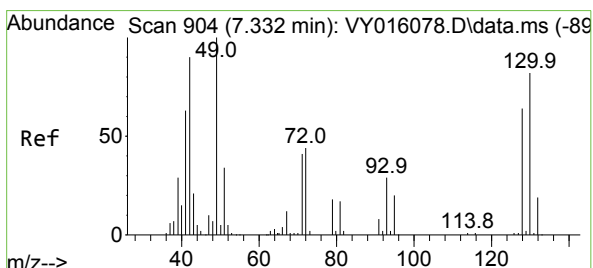
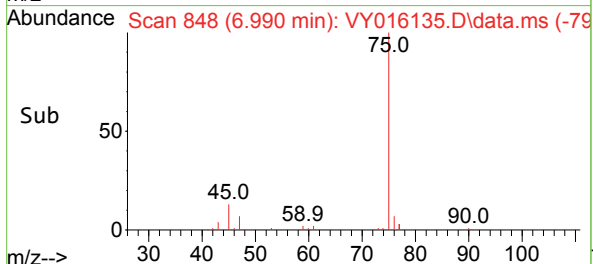
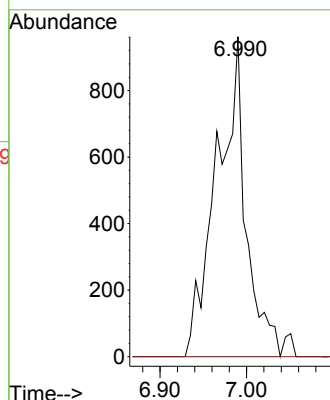
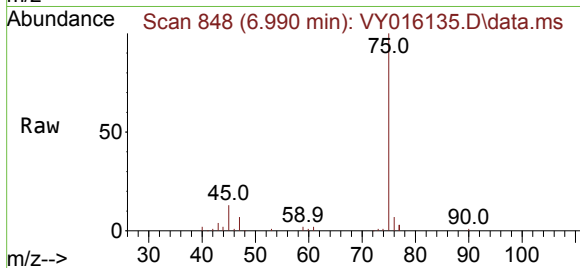
ClientSampleId :

Tgt Ion: 77 Resp: 2238

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#28

Bromochloromethane

Concen: 20.410 ug/l

RT: 7.502 min Scan# 932

Delta R.T. 0.170 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

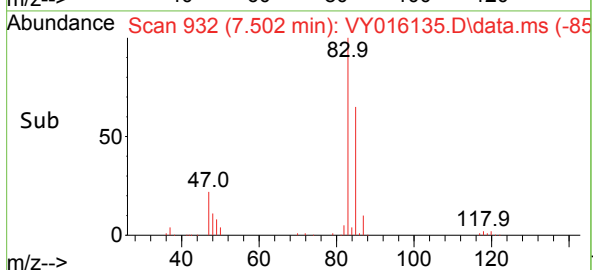
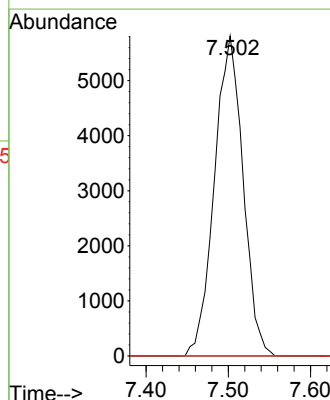
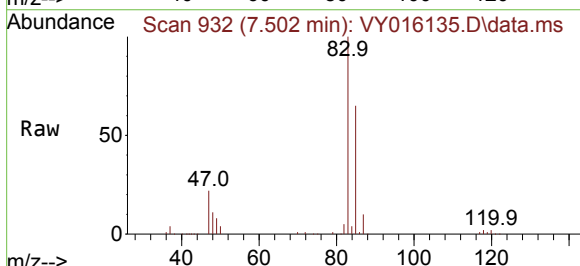
Tgt Ion: 49 Resp: 14057

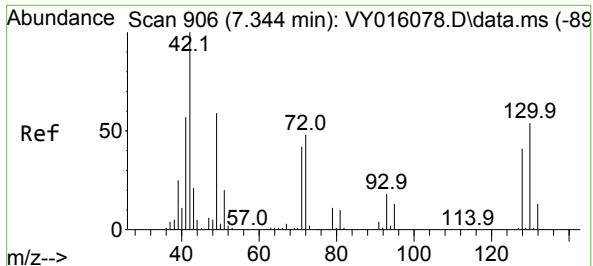
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 0.0 60.7 91.1#





#29

Tetrahydrofuran

Concen: 1.513 ug/l

RT: 7.490 min Scan# 91

Delta R.T. 0.146 min

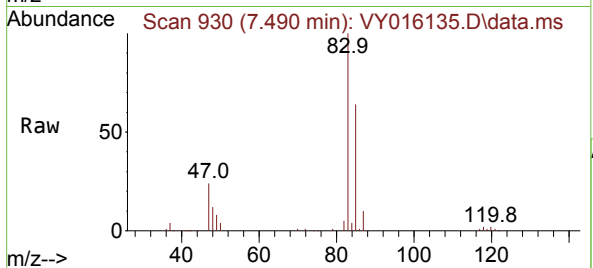
Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

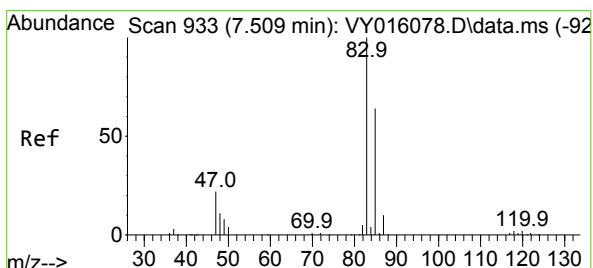
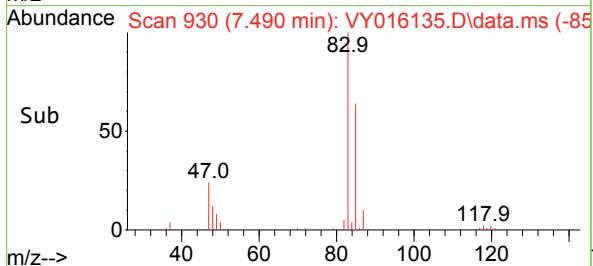
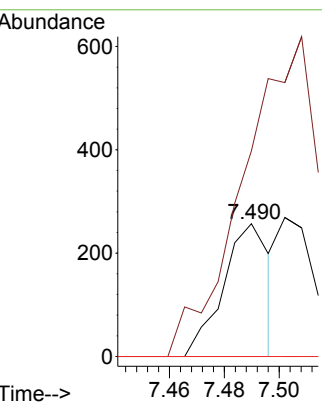
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	302
Ion	Ratio	Lower	Upper
42	100		
72	429.1	32.8	49.2#
71	0.0	31.0	46.4#



#30

Chloroform

Concen: 101.323 ug/l

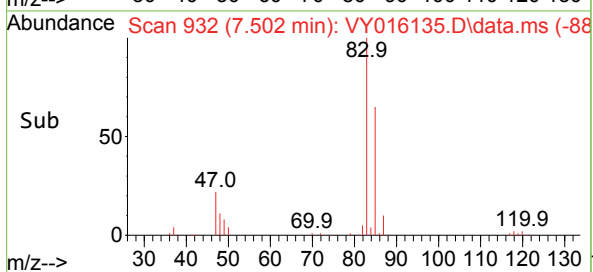
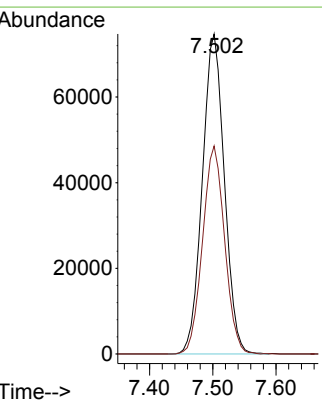
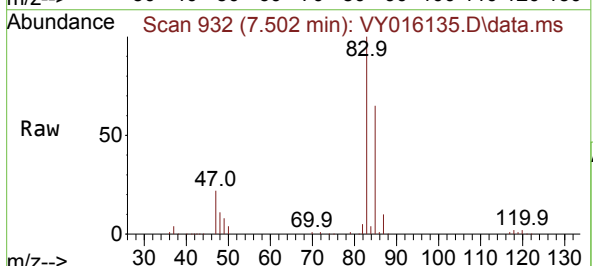
RT: 7.502 min Scan# 932

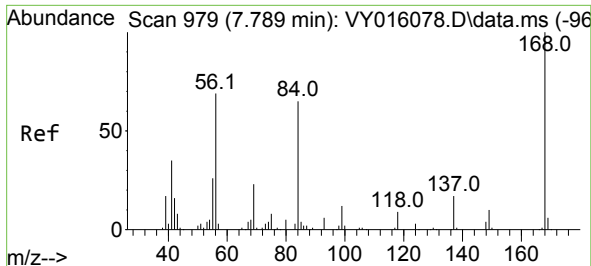
Delta R.T. -0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

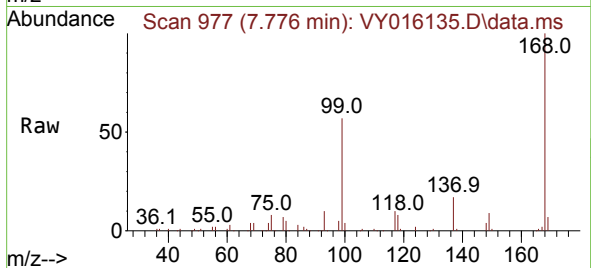
Tgt Ion:	83	Resp:	180192
Ion	Ratio	Lower	Upper
83	100		
85	65.0	49.7	74.5



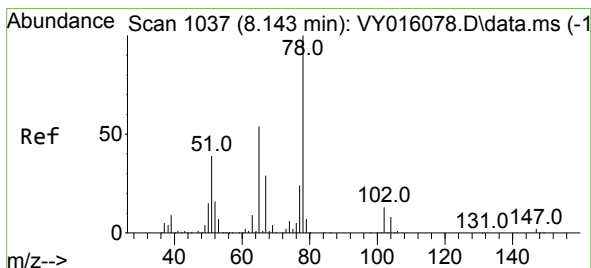
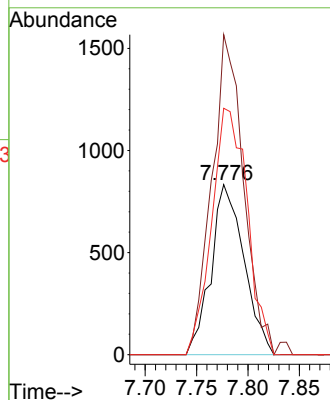
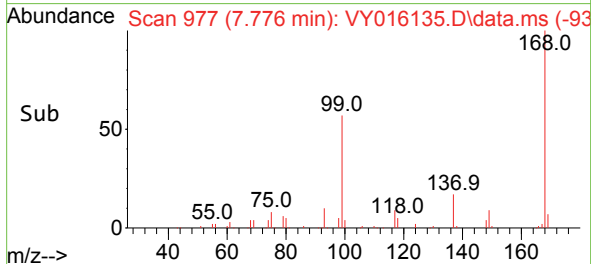


#31
Cyclohexane
Concen: 1.240 ug/l
RT: 7.776 min Scan# 91
Delta R.T. -0.013 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

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MSVOA_Y
ClientSampleId :

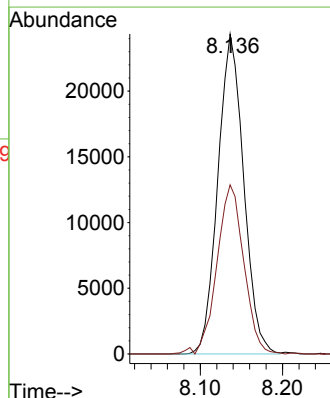
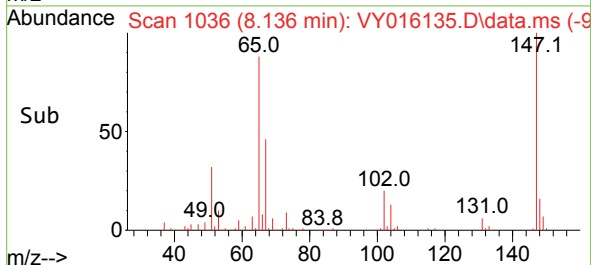
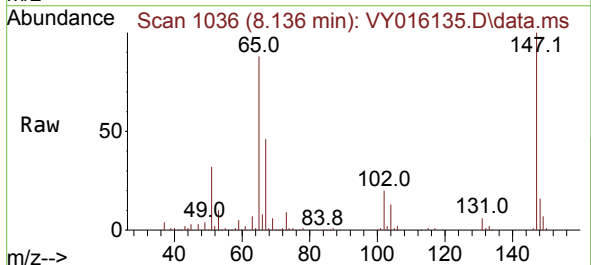


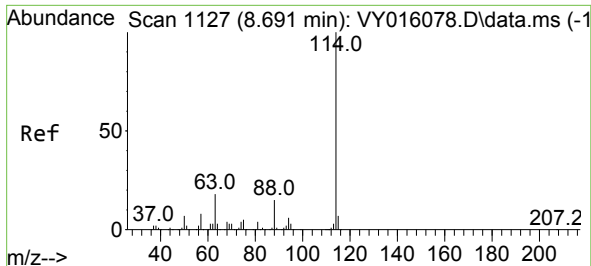
Tgt Ion: 56 Resp: 1856
Ion Ratio Lower Upper
56 100
69 188.1 27.8 41.6#
84 144.9 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 55.801 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 65 Resp: 53083
Ion Ratio Lower Upper
65 100
67 55.1 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Instrument :

MSVOA_Y

ClientSampleId :

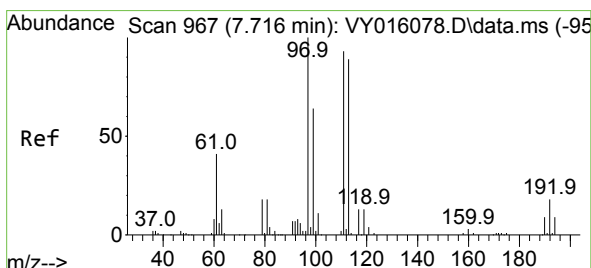
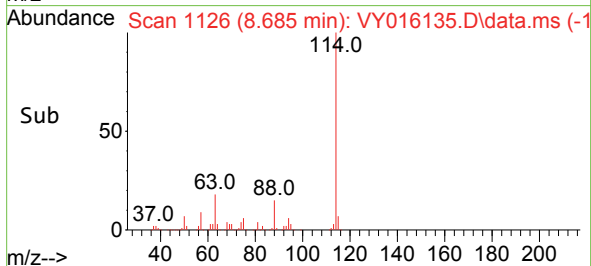
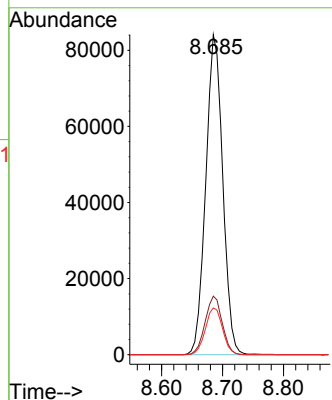
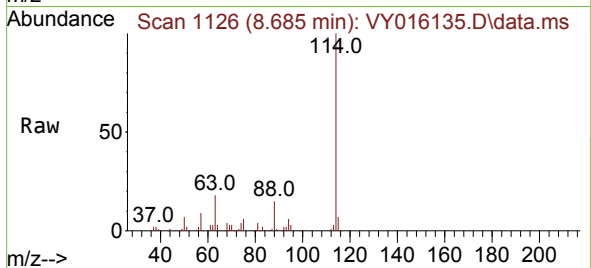
Tgt Ion:114 Resp: 162852

Ion Ratio Lower Upper

114 100

63 18.3 0.0 42.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 50.530 ug/l

RT: 7.715 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

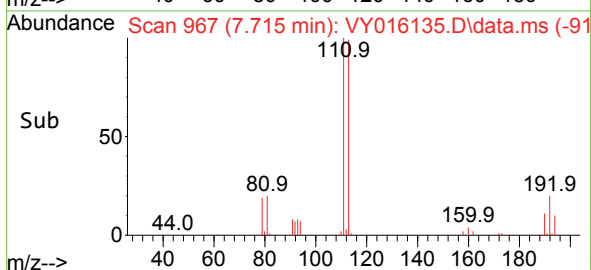
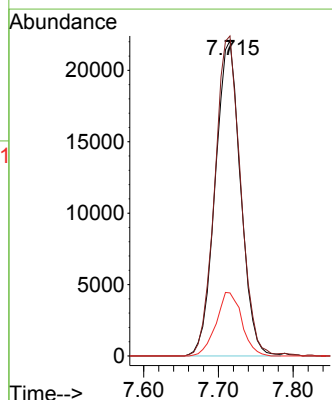
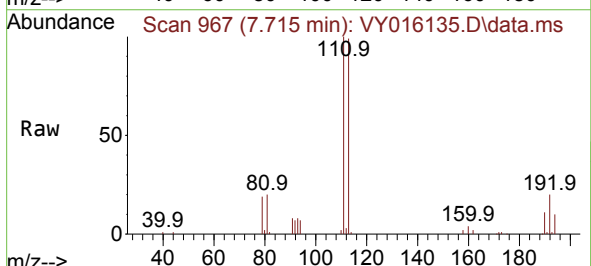
Tgt Ion:113 Resp: 51949

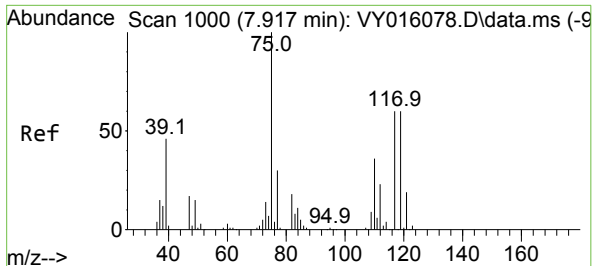
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

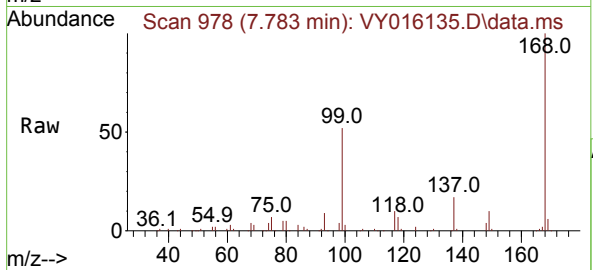
192 20.4 16.9 25.3



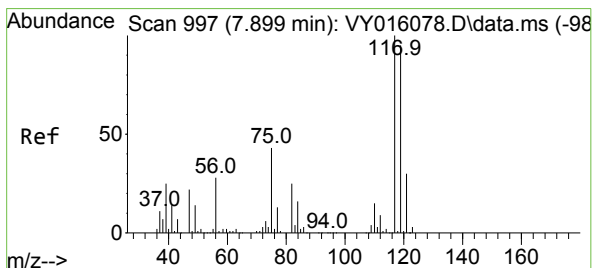
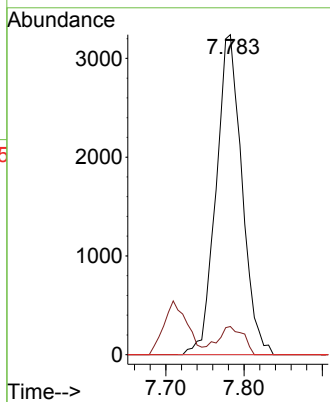
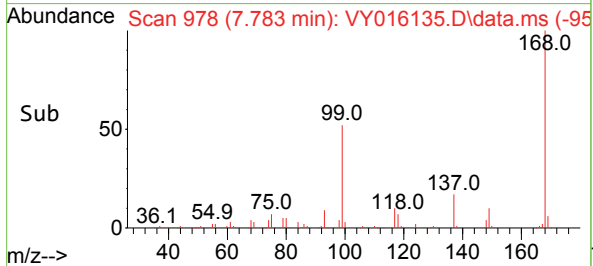


#36
1,1-Dichloropropene
Concen: 5.185 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Instrument :
MSVOA_Y
ClientSampleId :

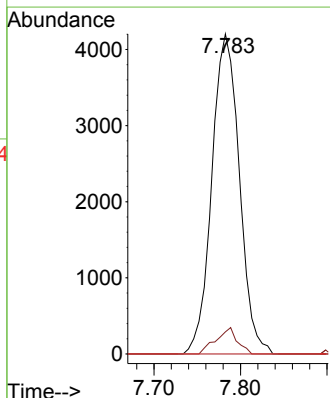
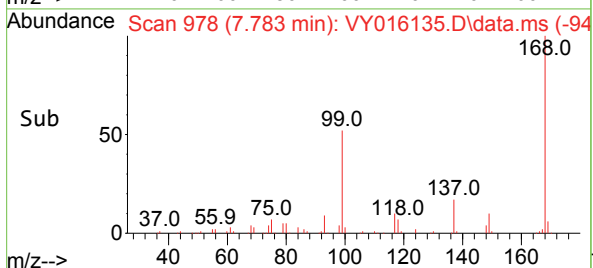
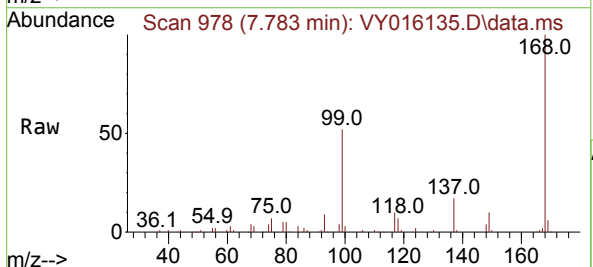


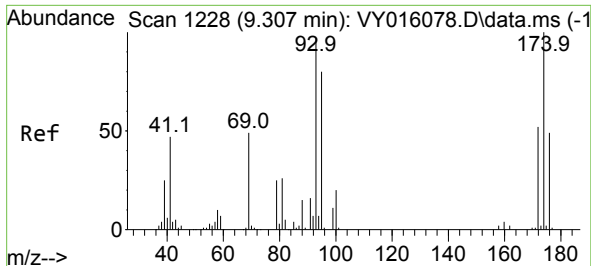
Tgt Ion: 75 Resp: 7430
Ion Ratio Lower Upper
75 100
110 8.9 17.8 53.5#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.126 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 117 Resp: 9284
Ion Ratio Lower Upper
117 100
119 6.9 76.4 114.6#
121 0.0 25.8 38.6#

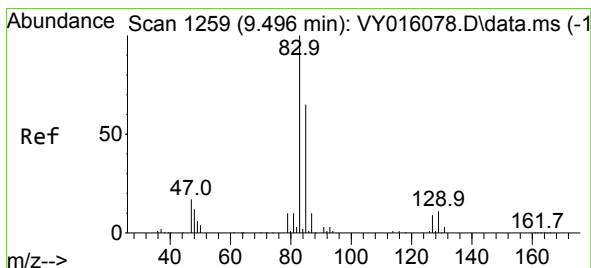
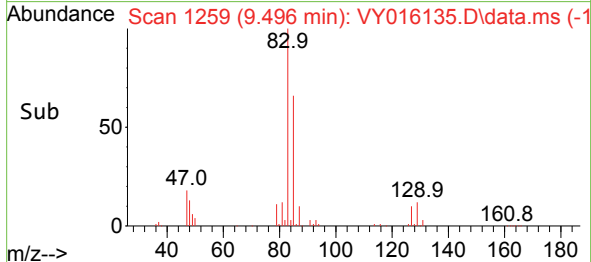
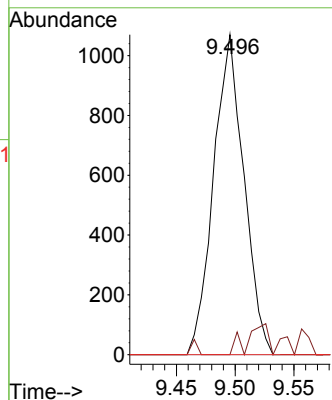
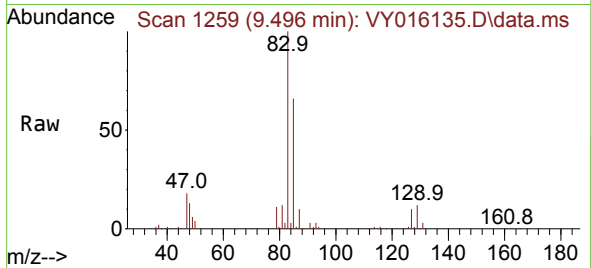




#46
Dibromomethane
Concen: 3.190 ug/l
RT: 9.496 min Scan# 1228
Delta R.T. 0.189 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

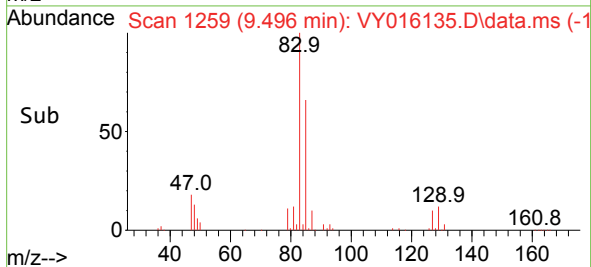
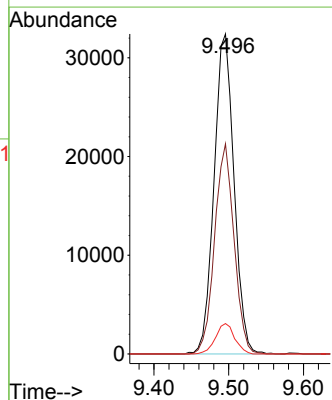
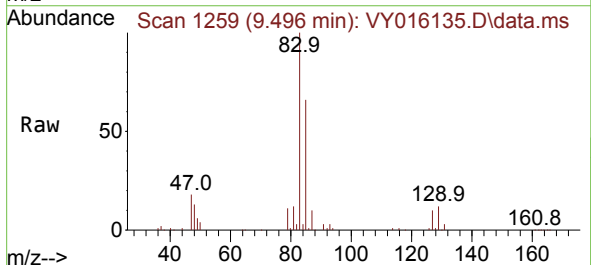
Instrument :
MSVOA_Y
ClientSampleId :

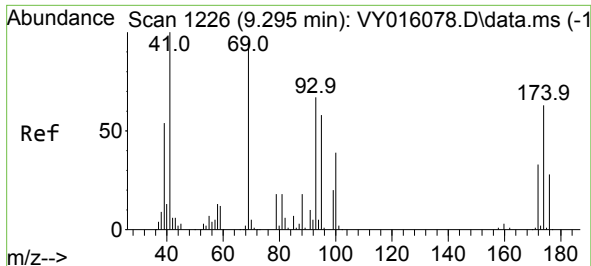
Tgt Ion: 93 Resp: 1921
Ion Ratio Lower Upper
93 100
95 0.0 66.6 100.0#
174 0.0 84.8 127.2#



#47
Bromodichloromethane
Concen: 41.358 ug/l
RT: 9.496 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 83 Resp: 60225
Ion Ratio Lower Upper
83 100
85 65.7 50.1 75.1
127 9.5 7.1 10.7





#49

1,4-Dioxane

Concen: 32.125 ug/l

RT: 9.313 min Scan# 1229

Delta R.T. 0.018 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Instrument :

MSVOA_Y

ClientSampleId :

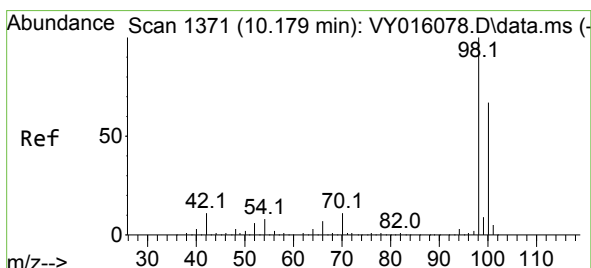
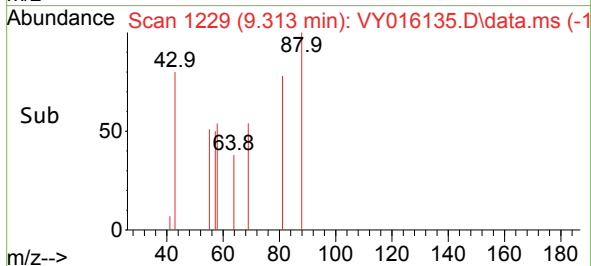
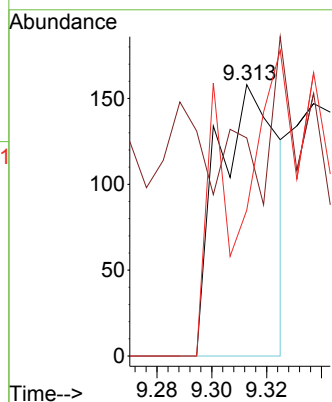
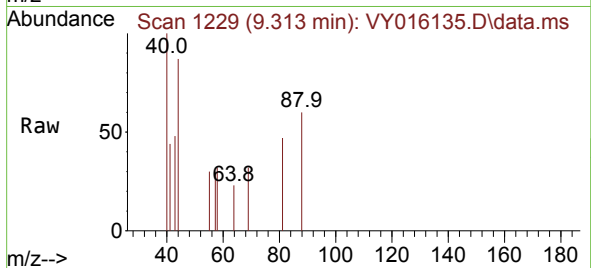
Tgt Ion: 88 Resp: 242

Ion Ratio Lower Upper

88 100

43 31.0 0.0 0.0#

58 76.9 30.9 46.3#



#50

Toluene-d8

Concen: 51.439 ug/l

RT: 10.178 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY016135.D

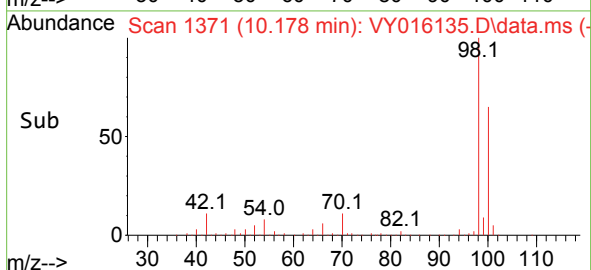
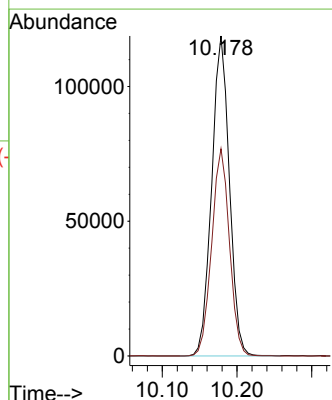
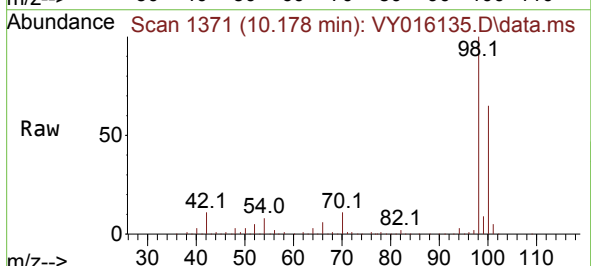
Acq: 30 Oct 2023 17:02

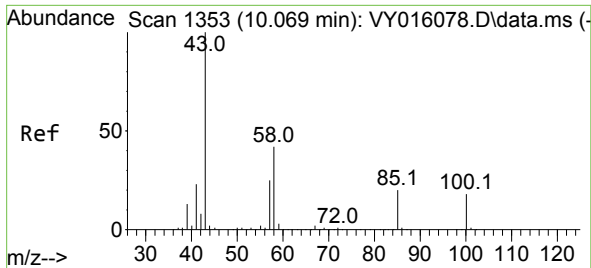
Tgt Ion: 98 Resp: 195890

Ion Ratio Lower Upper

98 100

100 64.9 50.1 75.1

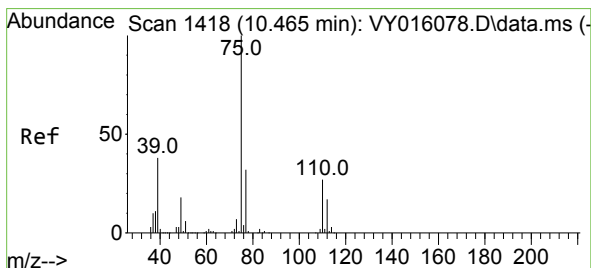
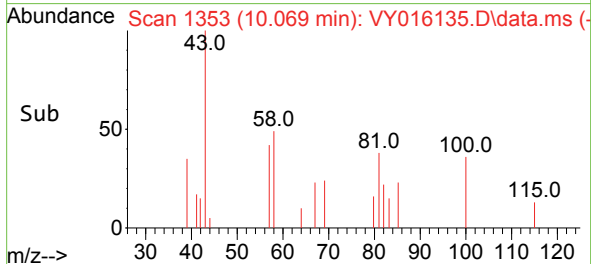
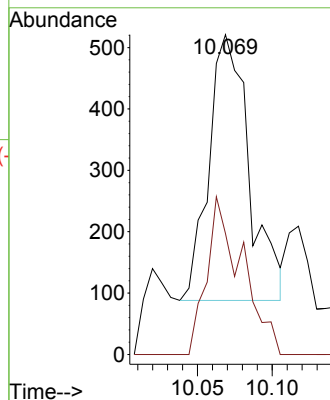
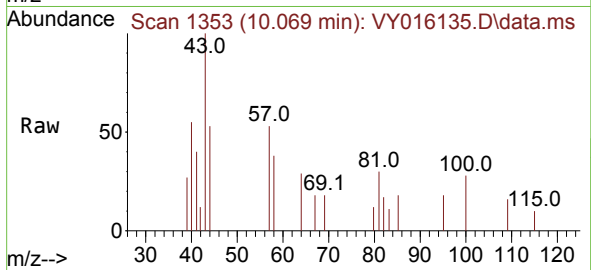




#51
4-Methyl-2-Pentanone
Concen: 1.119 ug/l
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

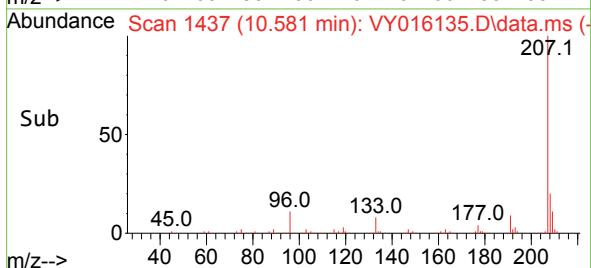
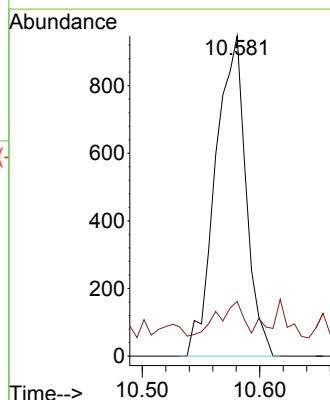
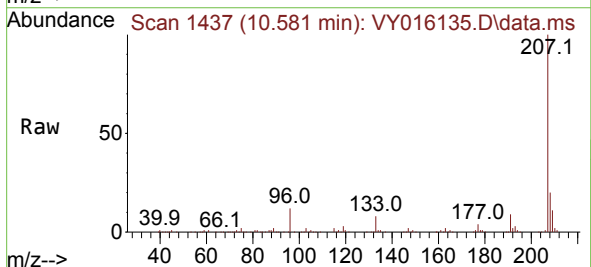
Instrument :
MSVOA_Y
ClientSampleId :

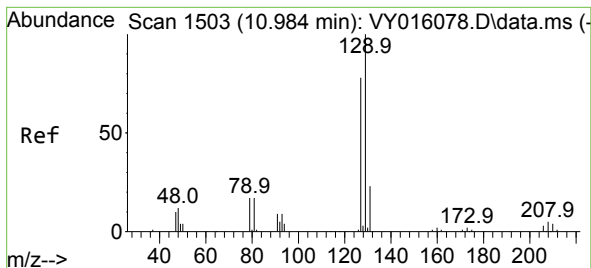
Tgt Ion: 43 Resp: 811
Ion Ratio Lower Upper
43 100
58 52.2 29.0 43.6#



#53
t-1,3-Dichloropropene
Concen: 1.148 ug/l
RT: 10.581 min Scan# 1437
Delta R.T. 0.115 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 75 Resp: 1710
Ion Ratio Lower Upper
75 100
77 8.0 25.0 37.4#





#60

Dibromochloromethane

Concen: 5.598 ug/l

RT: 10.983 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Instrument :

MSVOA_Y

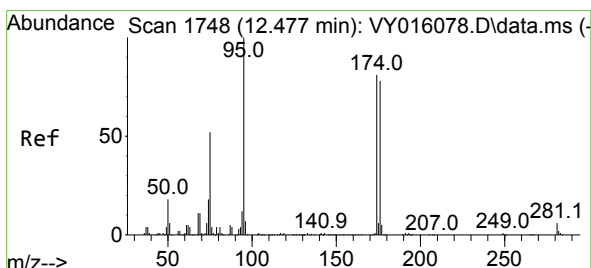
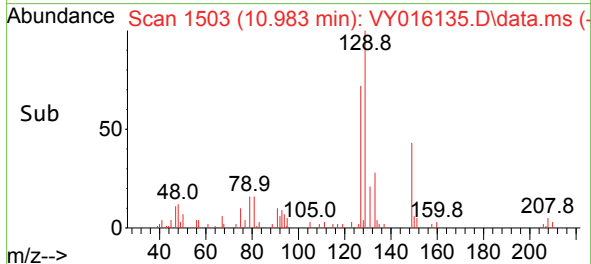
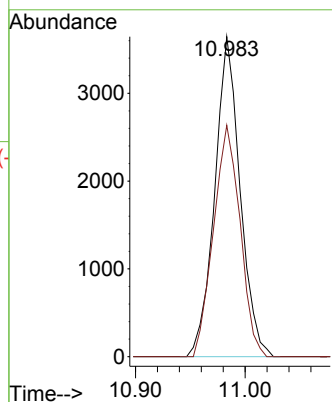
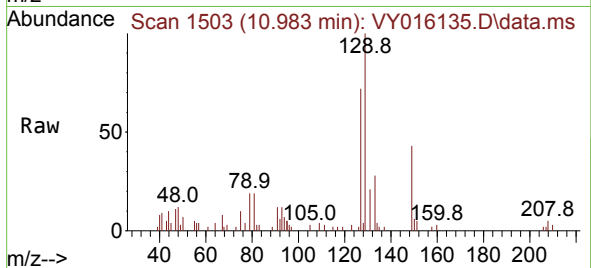
ClientSampleId :

Tgt Ion:129 Resp: 5864

Ion Ratio Lower Upper

129 100

127 75.7 38.5 115.5



#62

4-Bromofluorobenzene

Concen: 53.031 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

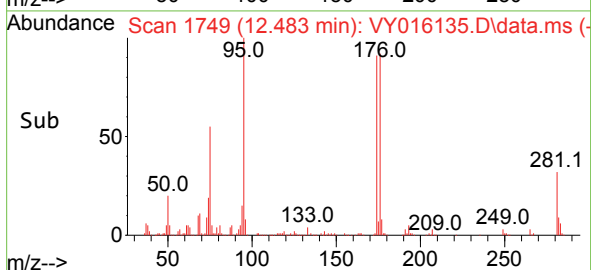
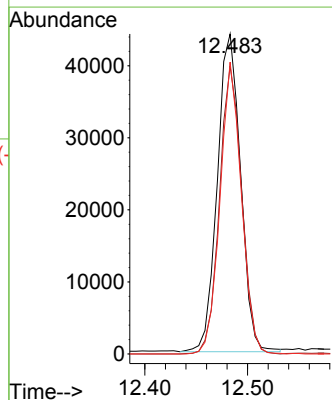
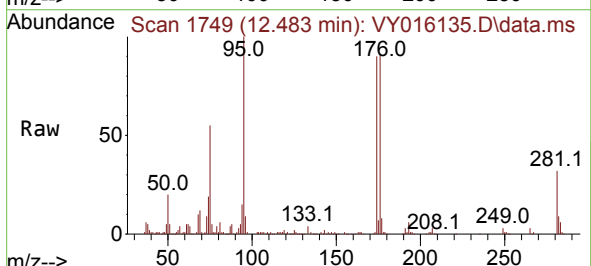
Tgt Ion: 95 Resp: 69274

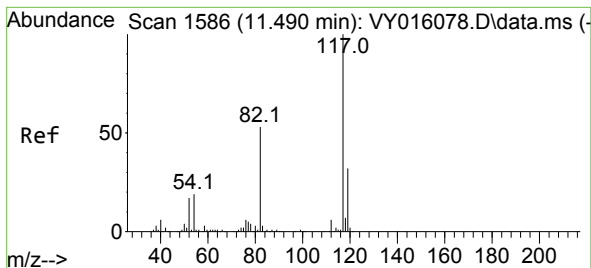
Ion Ratio Lower Upper

95 100

174 86.8 0.0 178.2

176 84.0 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Instrument :

MSVOA_Y

ClientSampleId :

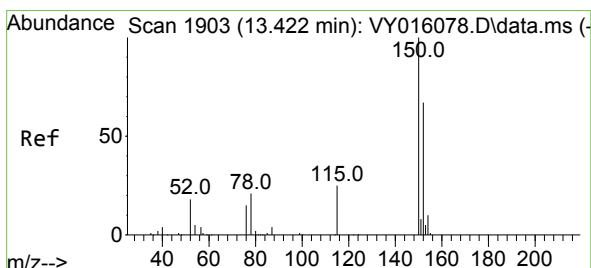
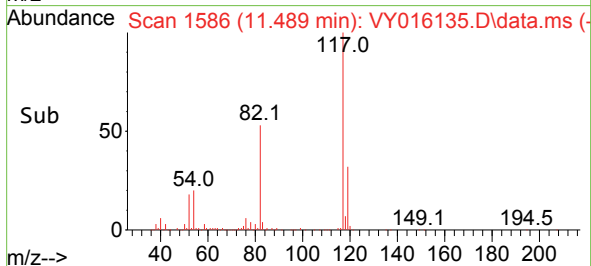
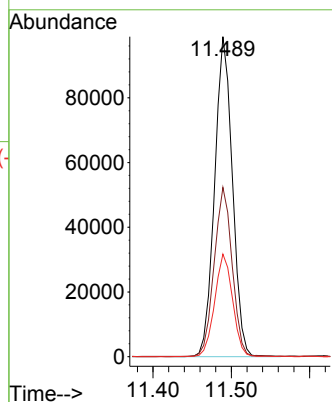
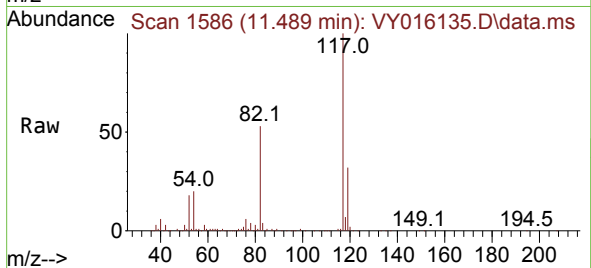
Tgt Ion:117 Resp: 156211

Ion Ratio Lower Upper

117 100

82 52.8 43.4 65.0

119 32.0 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

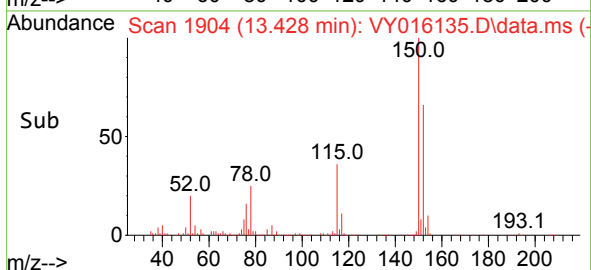
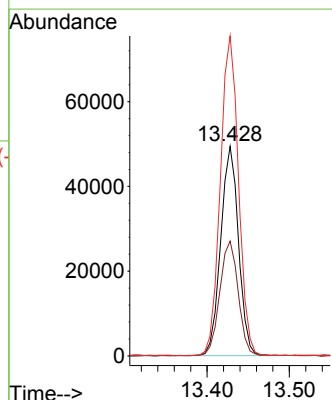
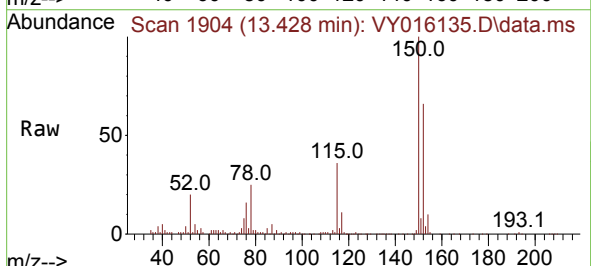
Tgt Ion:152 Resp: 74392

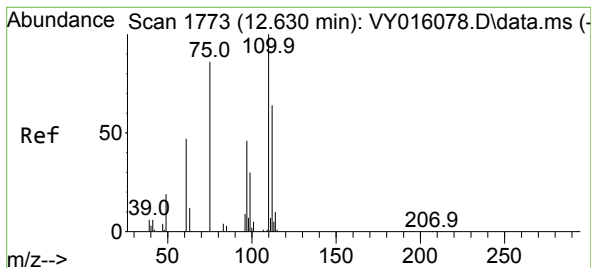
Ion Ratio Lower Upper

152 100

115 56.4 28.8 86.5

150 156.0 0.0 348.8

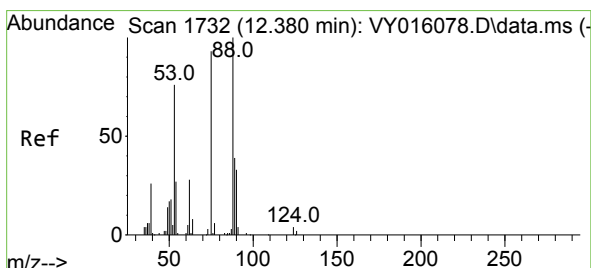
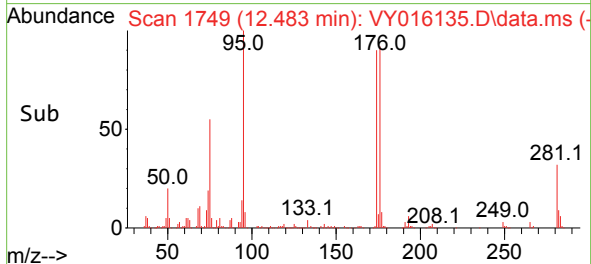
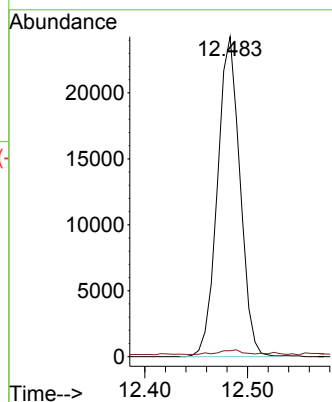
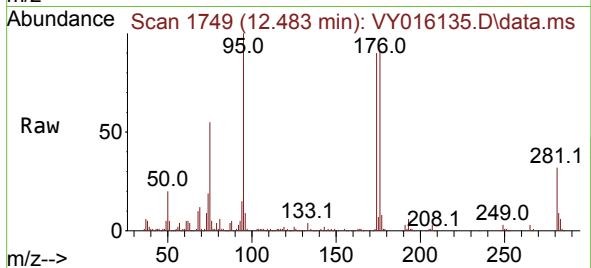




#76
1,2,3-Trichloropropane
Concen: 48.539 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

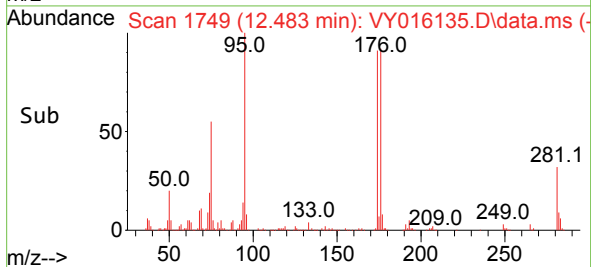
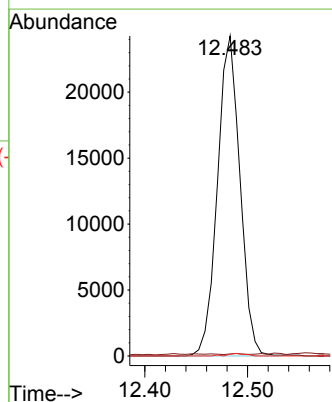
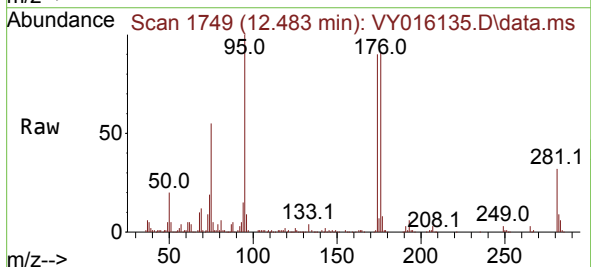
Instrument :
MSVOA_Y
ClientSampleId :

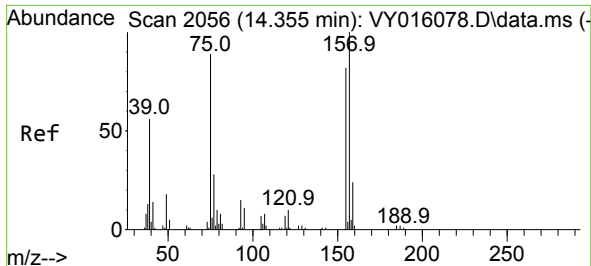
Tgt Ion: 75 Resp: 36866
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 105.481 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY016135.D
Acq: 30 Oct 2023 17:02

Tgt Ion: 75 Resp: 36866
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.6 37.4 56.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.244 ug/l

RT: 14.263 min Scan# 2056

Delta R.T. -0.092 min

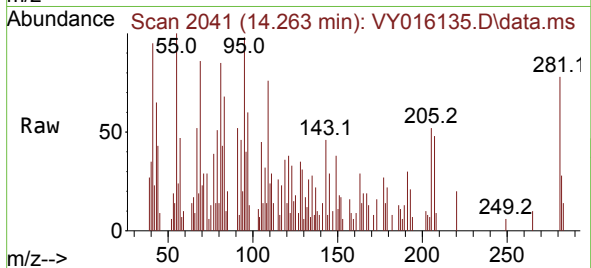
Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

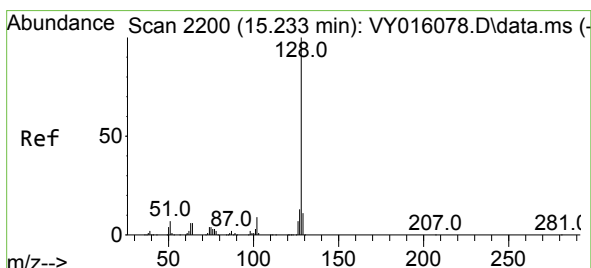
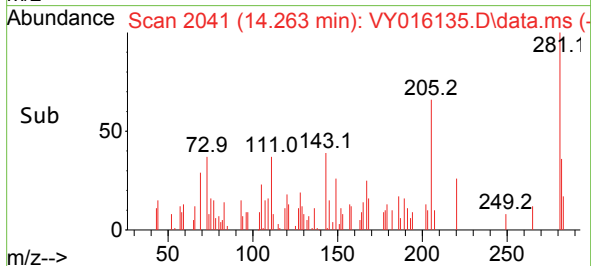
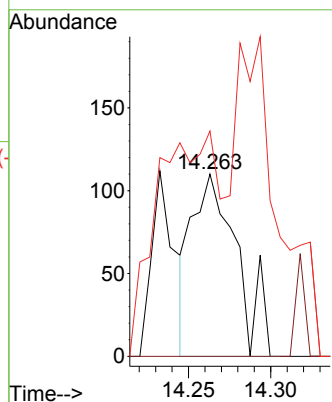
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 209
Ion Ratio	Lower Upper
75	100
155	0.0 41.5 124.6#
157	167.0 51.8 155.5#



#95

Naphthalene

Concen: 1.608 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. 0.006 min

Lab File: VY016135.D

Acq: 30 Oct 2023 17:02

Tgt Ion: 128	Resp: 4238
Ion Ratio	Lower Upper
128	100
127	19.2 10.8 16.2#
129	17.9 8.6 13.0#

