

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102723\
 Data File : VY016119.D
 Acq On : 27 Oct 2023 21:14
 Operator : SY/MD
 Sample : 05107-11
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1081

Quant Time: Oct 30 06:15:45 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	7.795	168	185410	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	291104	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	209417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	76349	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.155	65	101720	55.173	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 110.340%	
35) Dibromofluoromethane	7.728	113	89800	48.865	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.720%	
50) Toluene-d8	10.185	98	411115	60.394	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 120.780%	
62) 4-Bromofluorobenzene	12.483	95	104759	44.864	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 89.720%	

Target Compounds

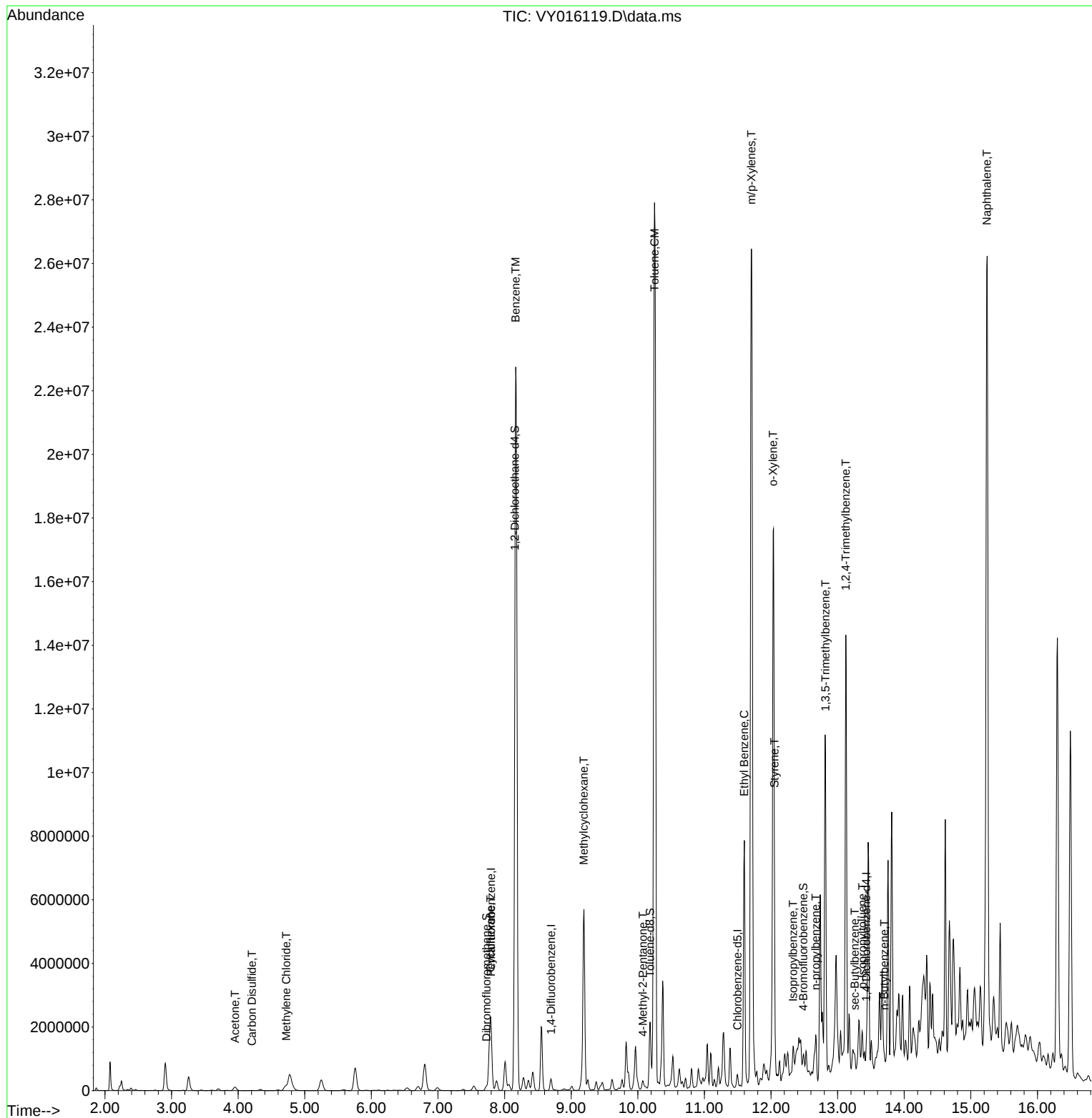
						Qvalue
16) Acetone	3.954	43	134511	269.176	ug/l	91
17) Carbon Disulfide	4.204	76	10805	2.465	ug/l #	95
20) Methylene Chloride	4.722	84	25595	8.289	ug/l #	85
31) Cyclohexane	7.789	56	1149934	396.468	ug/l	93
39) Methylcyclohexane	9.191	83	2467802	790.777	ug/l	92
40) Benzene	8.167	78	22932967	3162.029	ug/l #	77
51) 4-Methyl-2-Pentanone	10.075	43	128977	99.565	ug/l	91
52) Toluene	10.252	92	15806794	3394.041	ug/l #	67
67) Ethyl Benzene	11.599	91	5175110	707.974	ug/l	95
68) m/p-Xylenes	11.703	106	9025918	3190.719	ug/l	80
69) o-Xylene	12.032	106	4803834	1773.837	ug/l	88
70) Styrene	12.050	104	1189979	263.603	ug/l #	44
73) Isopropylbenzene	12.331	105	648017	120.603	ug/l	99
78) n-propylbenzene	12.672	91	1040899	159.993	ug/l	99
80) 1,3,5-Trimethylbenzene	12.819	105	3731031	836.351	ug/l	95
84) 1,2,4-Trimethylbenzene	13.123	105	7056181	1601.532	ug/l	95
85) sec-Butylbenzene	13.257	105	272267	46.100	ug/l #	54
86) p-Isopropyltoluene	13.373	119	327644	66.484	ug/l	98
89) n-Butylbenzene	13.703	91	165239	35.944	ug/l #	59
95) Naphthalene	15.239	128	19495263	7207.168	ug/l #	86

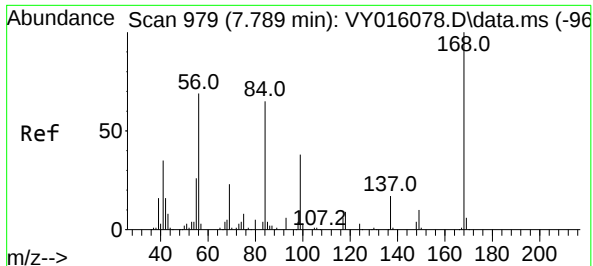
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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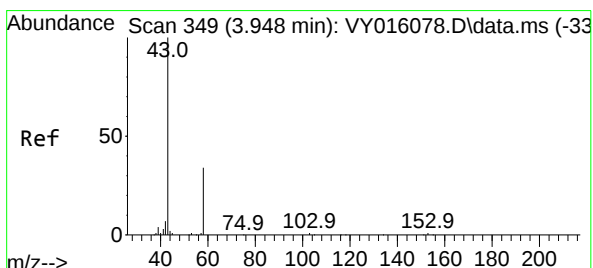
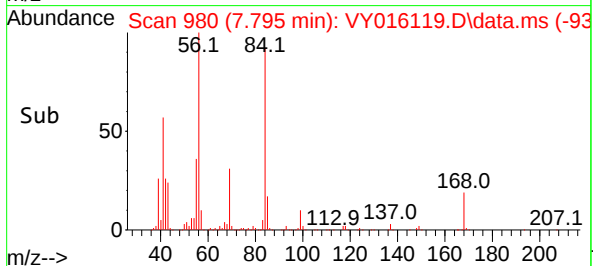
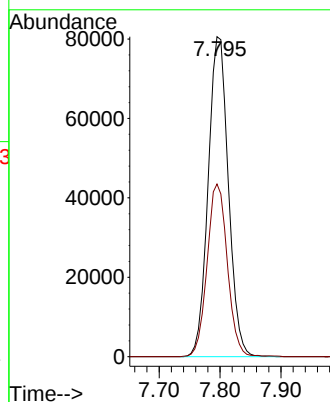
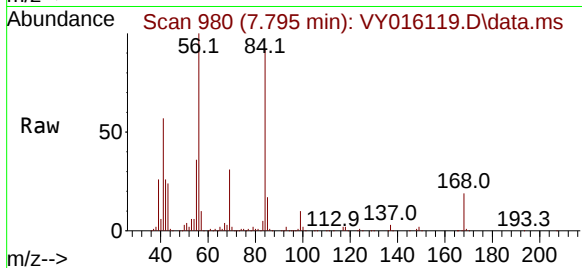




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

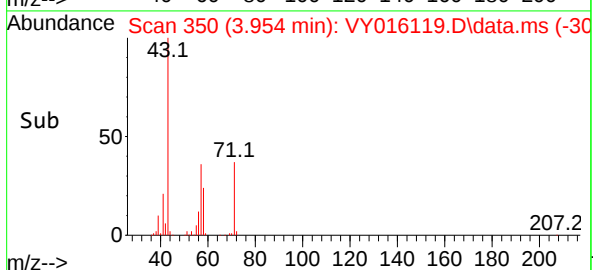
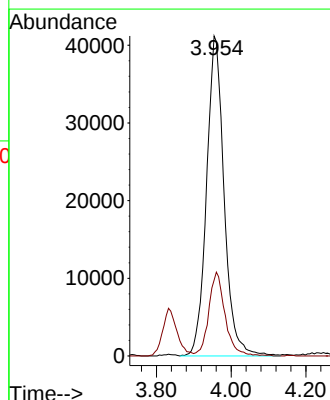
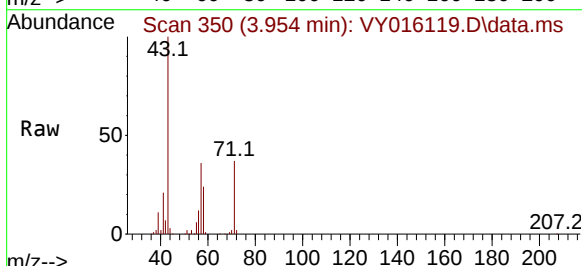
Instrument :
MSVOA_Y
ClientSampleId :
1081

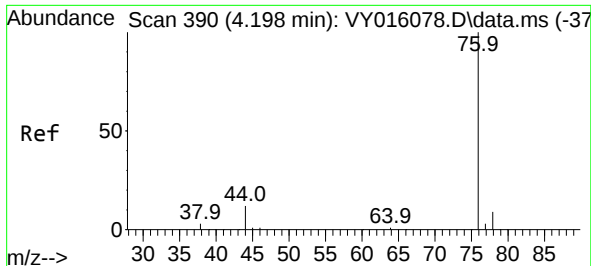
Tgt Ion:168 Resp: 185410
Ion Ratio Lower Upper
168 100
99 53.9 43.4 65.0



#16
Acetone
Concen: 269.176 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 43 Resp: 134511
Ion Ratio Lower Upper
43 100
58 23.7 22.7 34.1

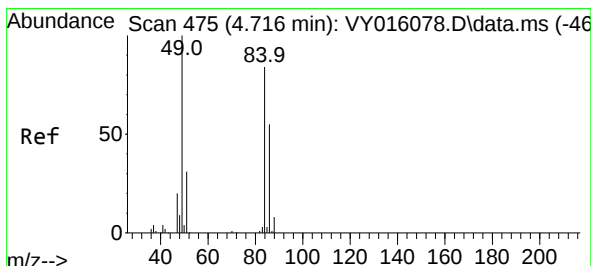
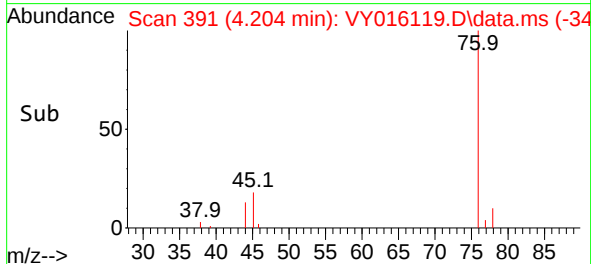
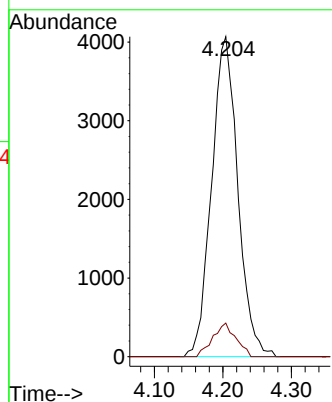
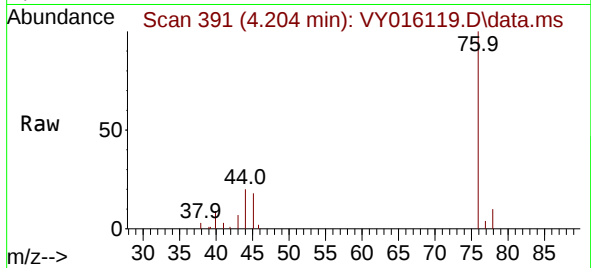




#17
Carbon Disulfide
Concen: 2.465 ug/l
RT: 4.204 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

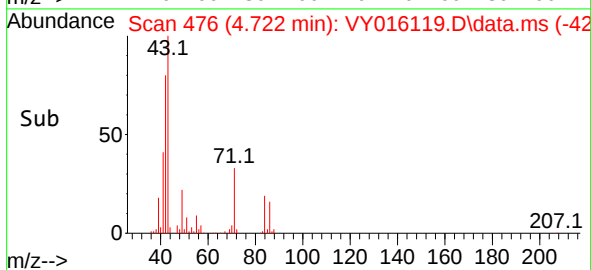
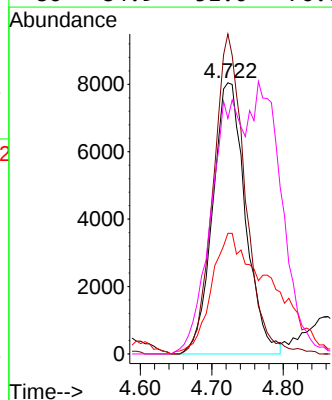
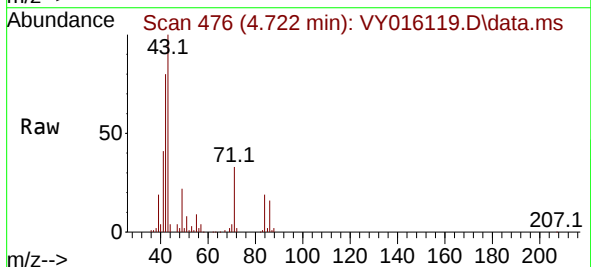
Instrument :
MSVOA_Y
ClientSampleId :
1081

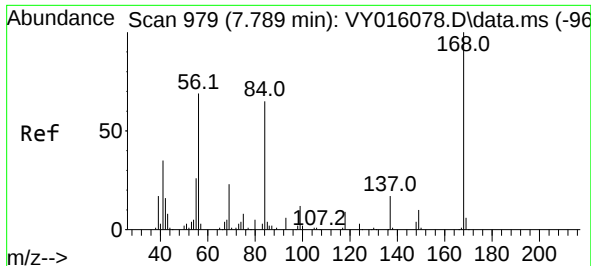
Tgt Ion: 76 Resp: 10805
Ion Ratio Lower Upper
76 100
78 10.5 7.0 10.4#



#20
Methylene Chloride
Concen: 8.289 ug/l
RT: 4.722 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 84 Resp: 25595
Ion Ratio Lower Upper
84 100
49 118.0 106.9 160.3
51 43.4 33.2 49.8
86 84.9 51.0 76.6#

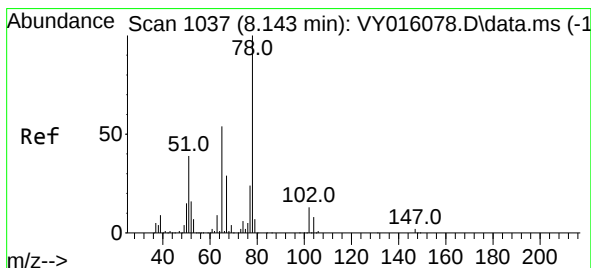
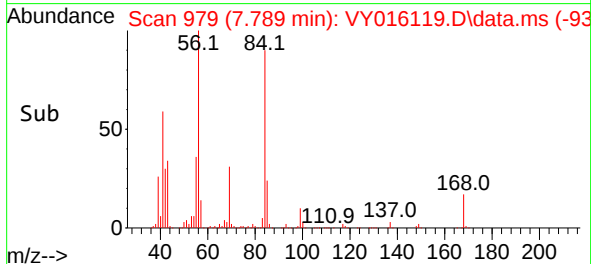
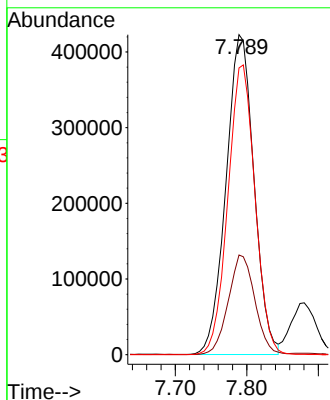
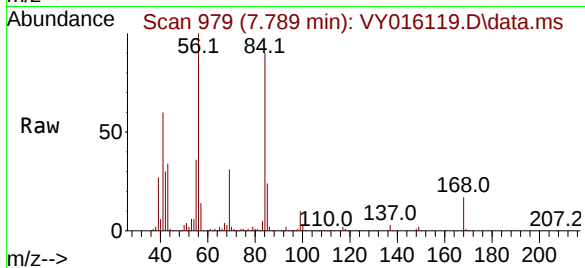




#31
Cyclohexane
Concen: 396.468 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

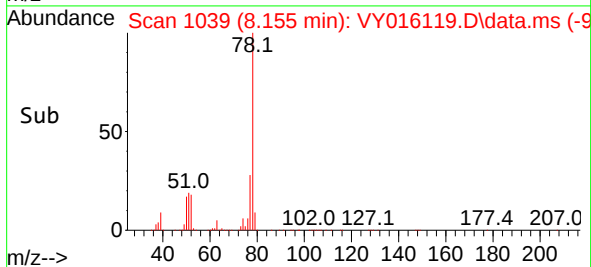
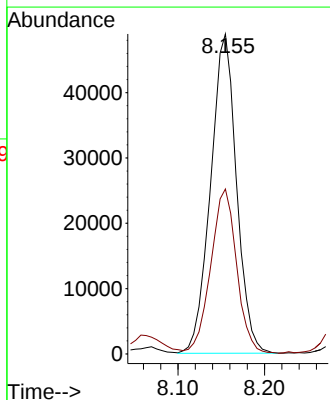
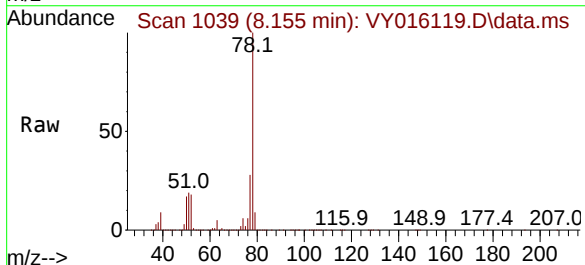
Instrument :
MSVOA_Y
ClientSampleId :
1081

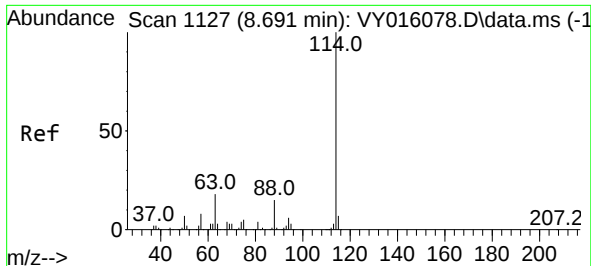
Tgt Ion: 56 Resp: 1149934
Ion Ratio Lower Upper
56 100
69 31.0 27.8 41.6
84 89.6 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 55.173 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.012 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 65 Resp: 101720
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

Instrument :

MSVOA_Y

ClientSampleId :

1081

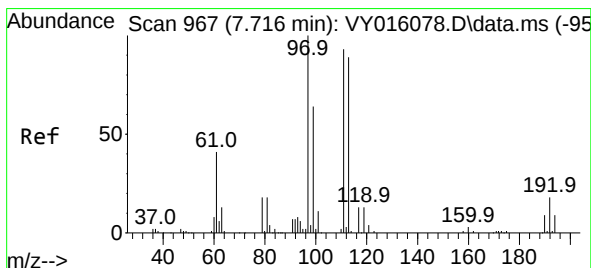
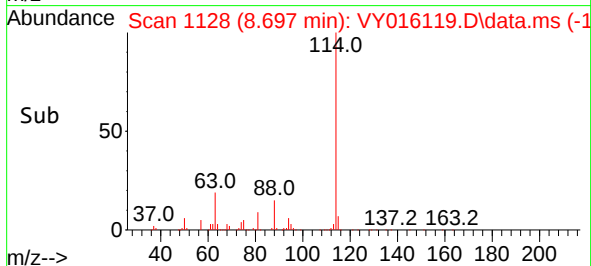
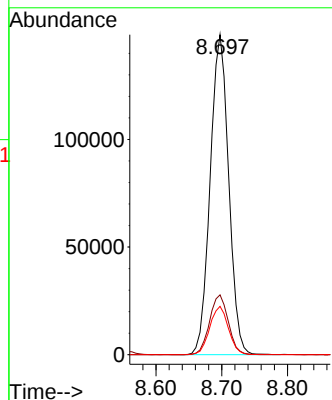
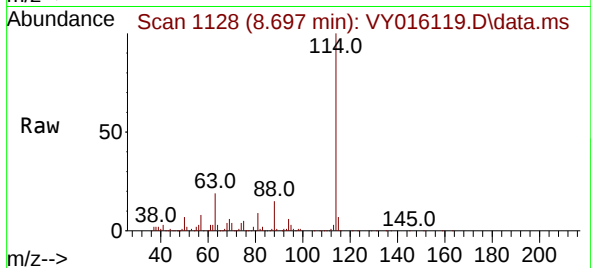
Tgt Ion:114 Resp: 291104

Ion Ratio Lower Upper

114 100

63 18.7 0.0 42.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.865 ug/l

RT: 7.728 min Scan# 969

Delta R.T. 0.012 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

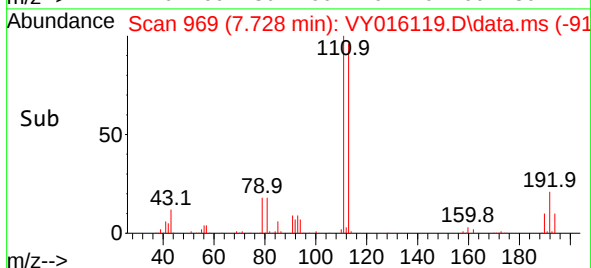
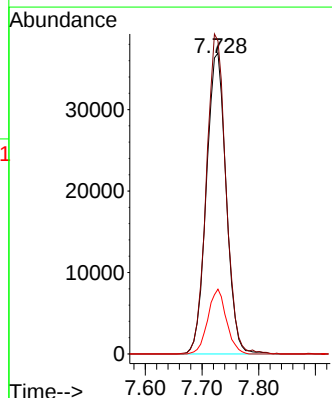
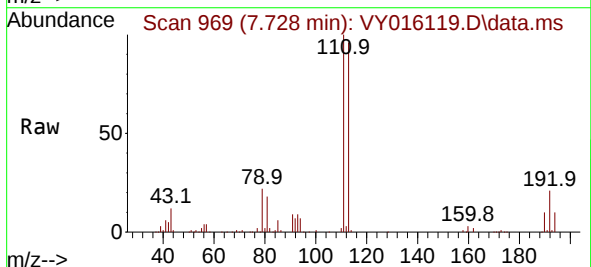
Tgt Ion:113 Resp: 89800

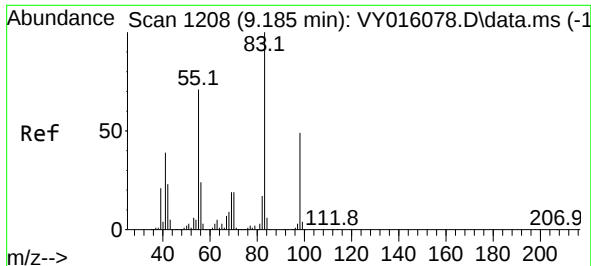
Ion Ratio Lower Upper

113 100

111 104.6 81.3 121.9

192 20.2 16.9 25.3



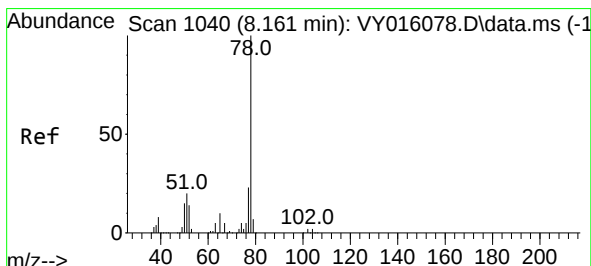
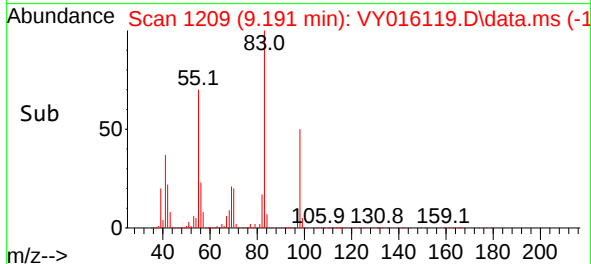
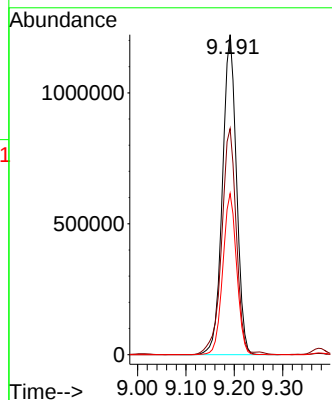
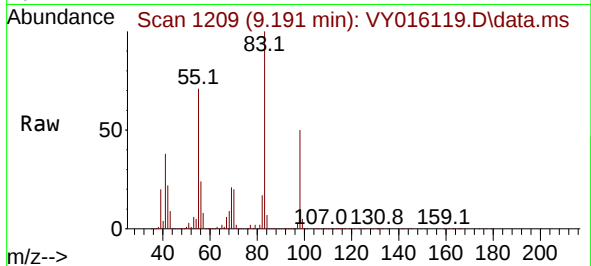


#39
Methylcyclohexane
Concen: 790.777 ug/l
RT: 9.191 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Instrument :
MSVOA_Y
ClientSampleId :
1081

Tgt Ion: 83 Resp: 2467802

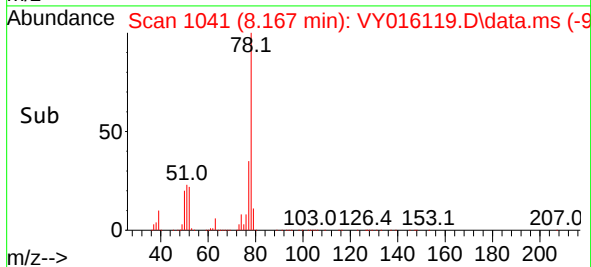
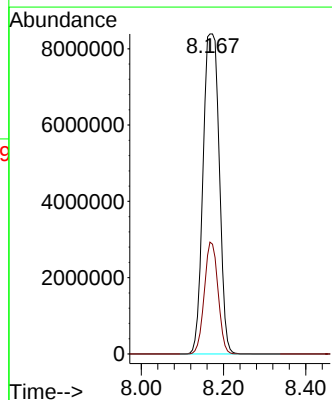
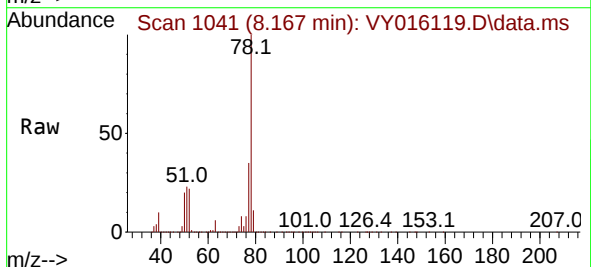
Ion	Ratio	Lower	Upper
83	100		
55	70.6	63.0	94.4
98	50.4	37.4	56.2

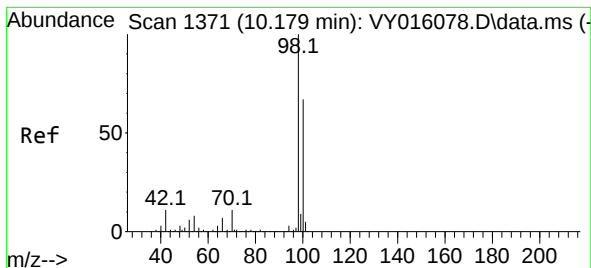


#40
Benzene
Concen: 3162.029 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 78 Resp: 22932967

Ion	Ratio	Lower	Upper
78	100		
77	35.0	19.0	28.6





#50

Toluene-d8

Concen: 60.394 ug/l

RT: 10.185 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

Instrument :

MSVOA_Y

ClientSampleId :

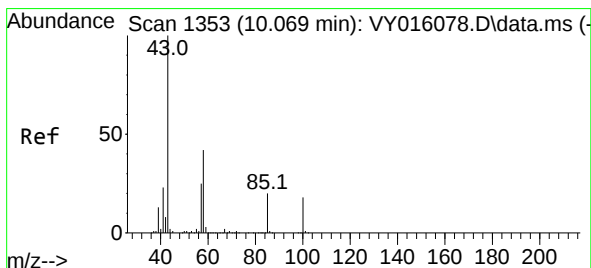
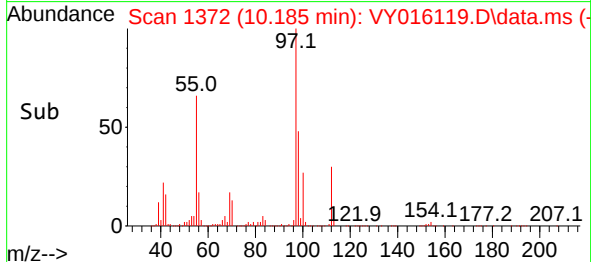
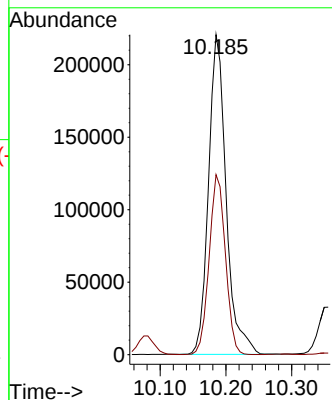
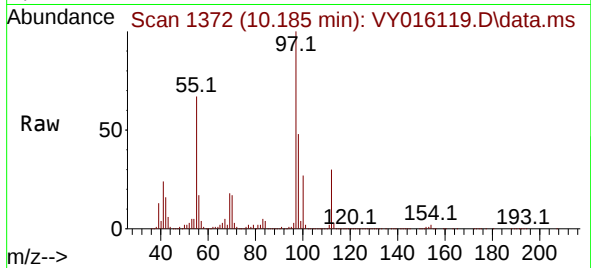
1081

Tgt Ion: 98 Resp: 411115

Ion Ratio Lower Upper

98 100

100 52.0 50.1 75.1



#51

4-Methyl-2-Pentanone

Concen: 99.565 ug/l

RT: 10.075 min Scan# 1354

Delta R.T. 0.006 min

Lab File: VY016119.D

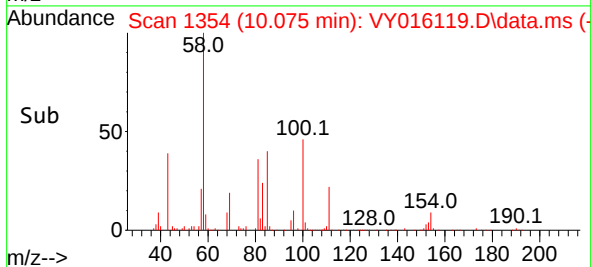
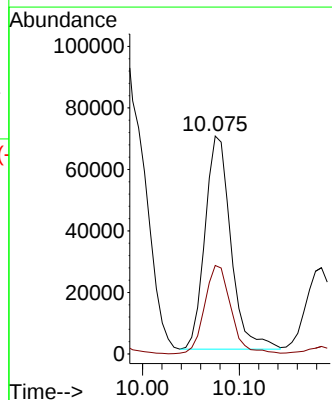
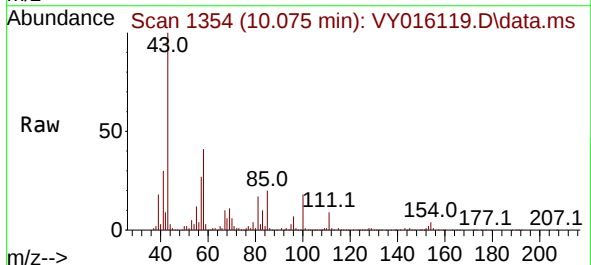
Acq: 27 Oct 2023 21:14

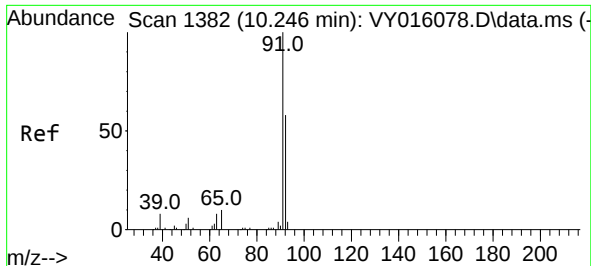
Tgt Ion: 43 Resp: 128977

Ion Ratio Lower Upper

43 100

58 41.9 29.0 43.6

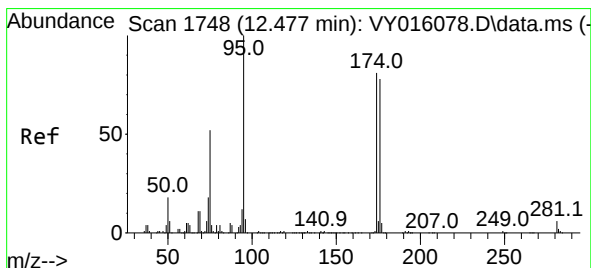
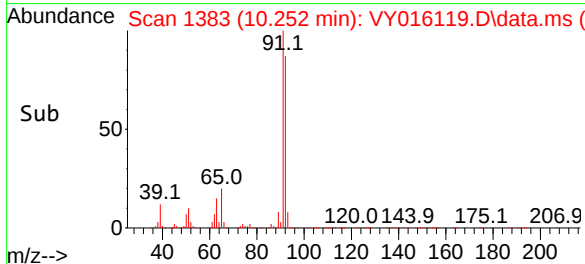
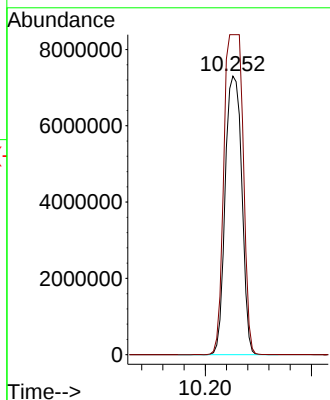
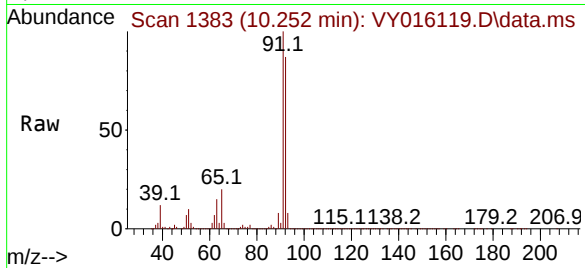




#52
Toluene
Concen: 3394.041 ug/l
RT: 10.252 min Scan# 11081
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

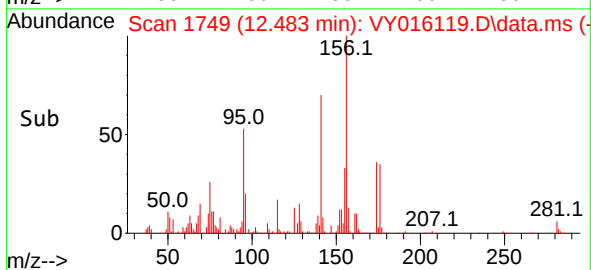
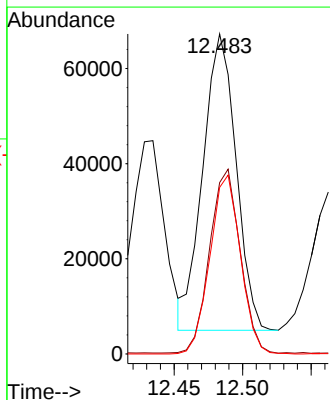
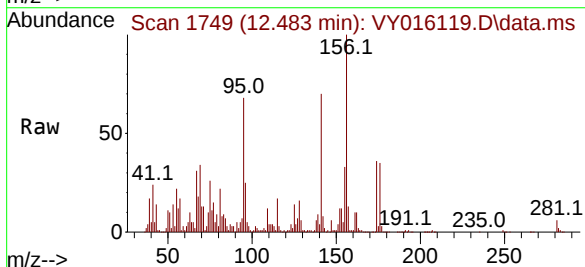
Instrument :
MSVOA_Y
ClientSampleId :
1081

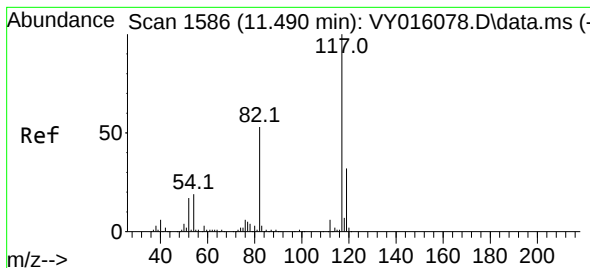
Tgt Ion: 92 Resp:15806794
Ion Ratio Lower Upper
92 100
91 132.9 143.8 215.6#



#62
4-Bromofluorobenzene
Concen: 44.864 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 95 Resp: 104759
Ion Ratio Lower Upper
95 100
174 57.4 0.0 178.2
176 55.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11081

Delta R.T. 0.006 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

Instrument :

MSVOA_Y

ClientSampleId :

1081

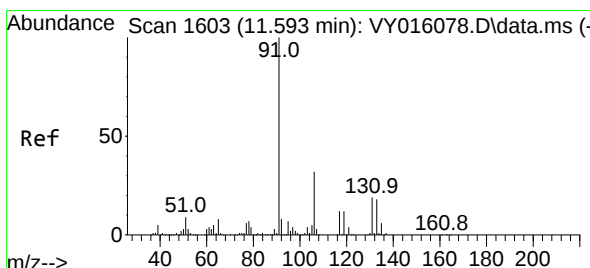
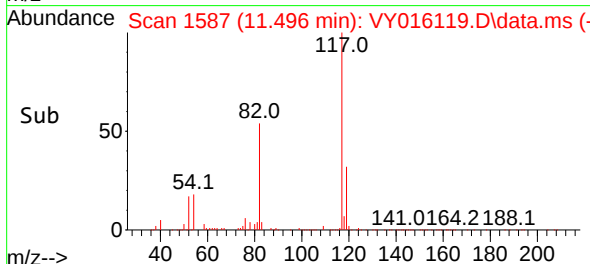
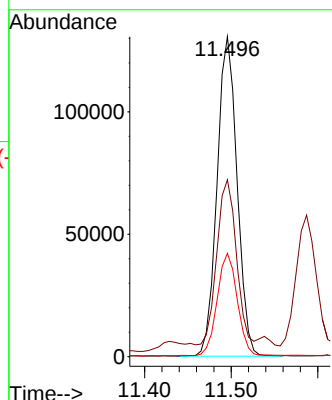
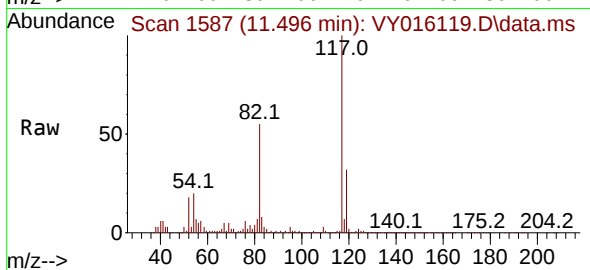
Tgt Ion:117 Resp: 209417

Ion Ratio Lower Upper

117 100

82 52.0 43.4 65.0

119 31.9 26.3 39.5



#67

Ethyl Benzene

Concen: 707.974 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY016119.D

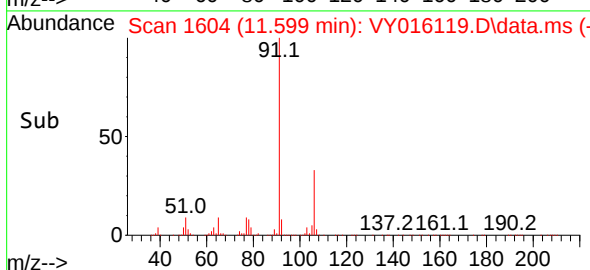
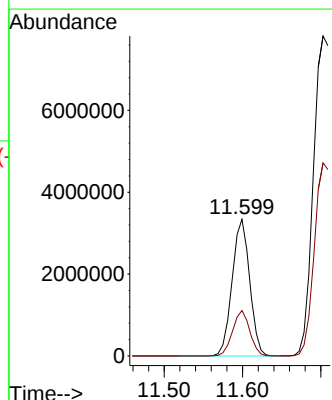
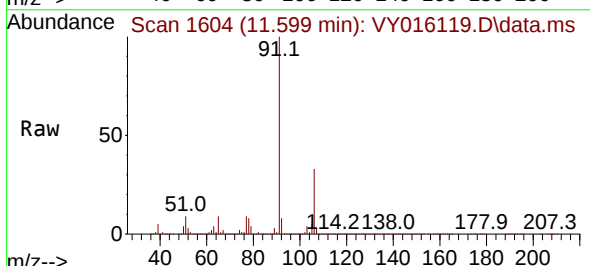
Acq: 27 Oct 2023 21:14

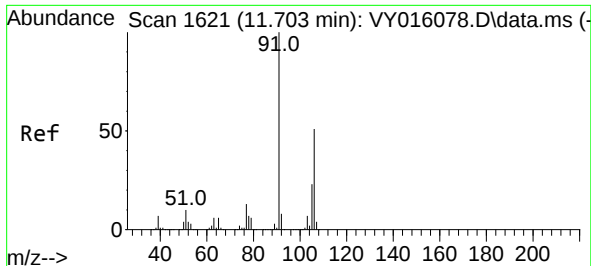
Tgt Ion: 91 Resp: 5175110

Ion Ratio Lower Upper

91 100

106 33.3 24.6 36.8

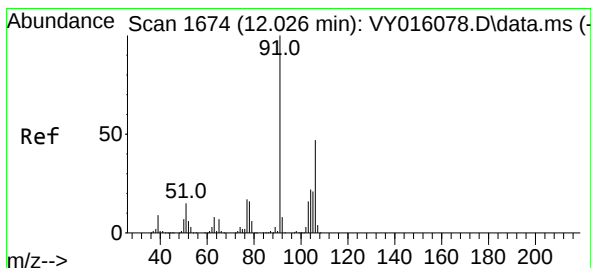
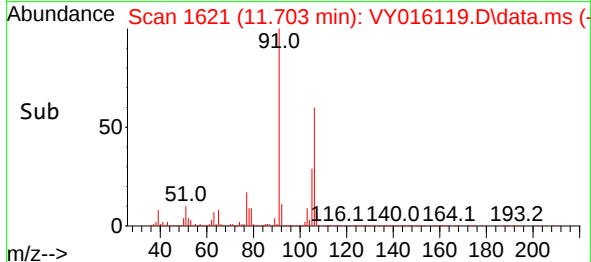
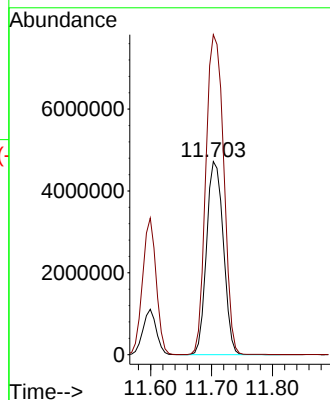
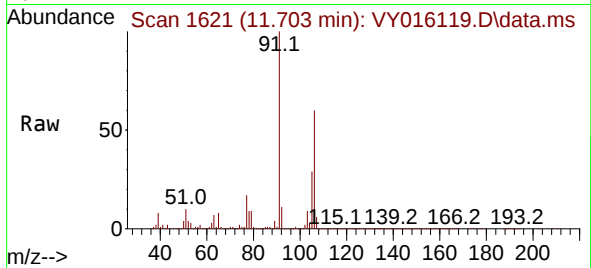




#68
m/p-Xylenes
Concen: 3190.719 ug/l
RT: 11.703 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

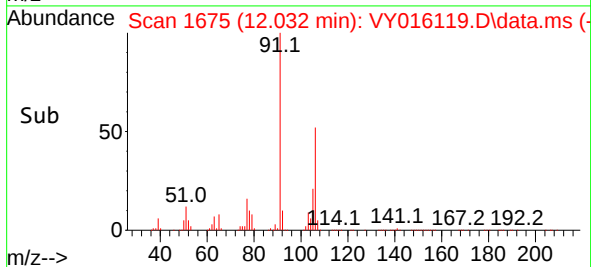
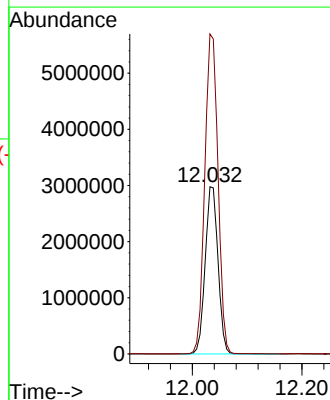
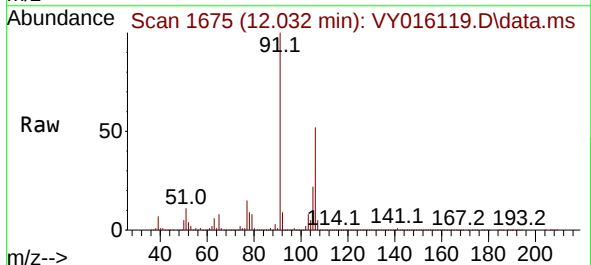
Instrument :
MSVOA_Y
ClientSampleId :
1081

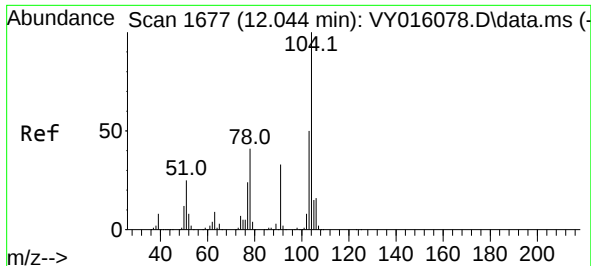
Tgt Ion:106 Resp: 9025918
Ion Ratio Lower Upper
106 100
91 176.1 166.1 249.1



#69
o-Xylene
Concen: 1773.837 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion:106 Resp: 4803834
Ion Ratio Lower Upper
106 100
91 197.8 108.1 324.3

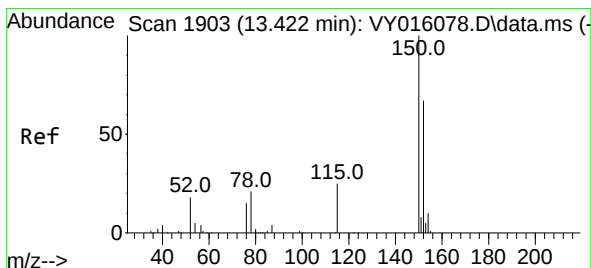
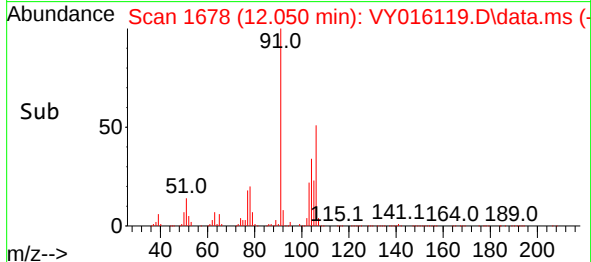
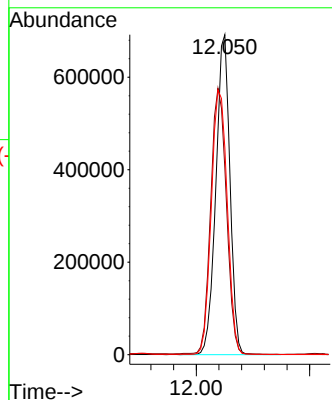
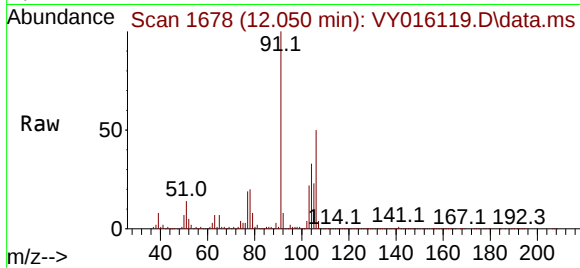




#70
Styrene
Concen: 263.603 ug/l
RT: 12.050 min Scan# 1081
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

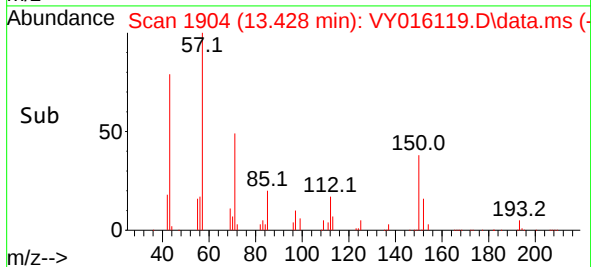
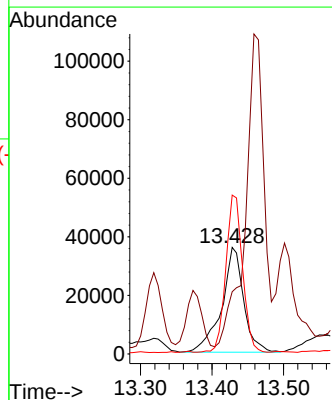
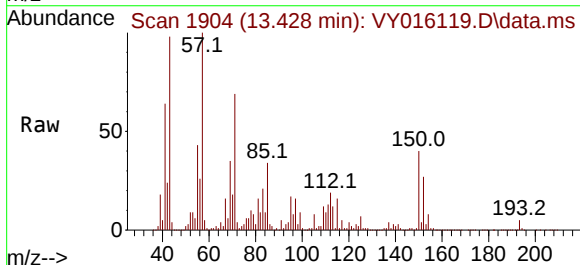
Instrument :
MSVOA_Y
ClientSampleId :
1081

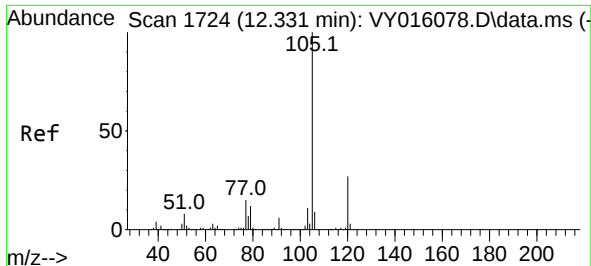
Tgt Ion:104 Resp: 1189979
Ion Ratio Lower Upper
104 100
78 93.4 41.5 62.3#
103 93.9 44.6 67.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion:152 Resp: 76349
Ion Ratio Lower Upper
152 100
115 0.0 28.8 86.5#
150 113.6 0.0 348.8

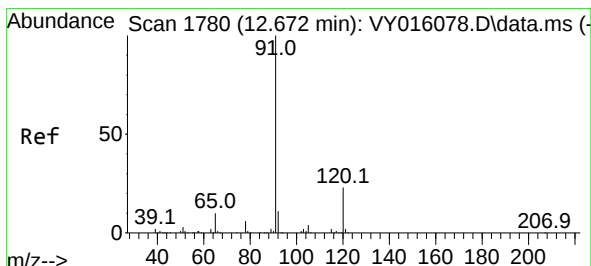
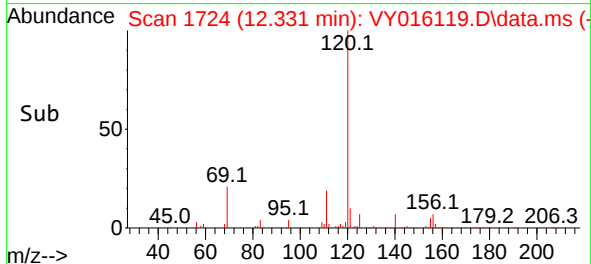
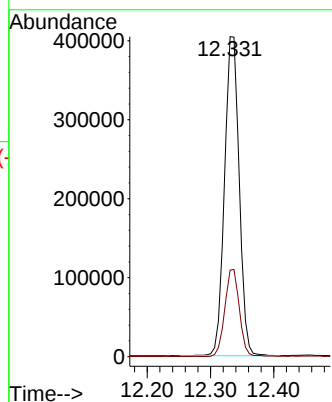
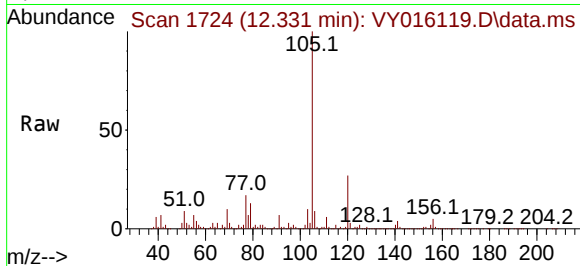




#73
Isopropylbenzene
Concen: 120.603 ug/l
RT: 12.331 min Scan# 11081
Delta R.T. 0.000 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

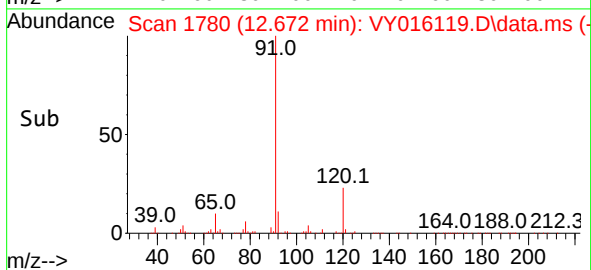
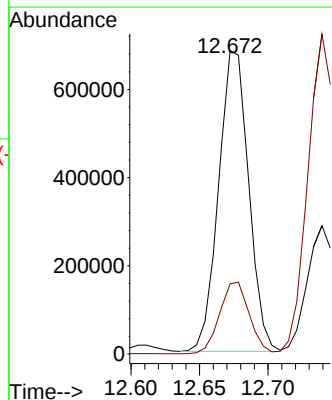
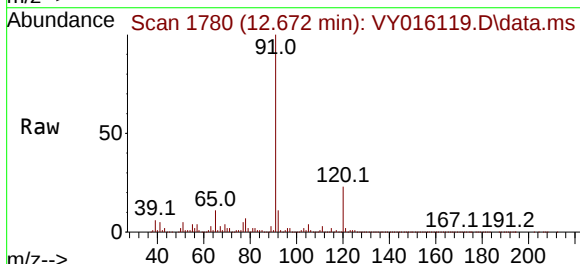
Instrument :
MSVOA_Y
ClientSampleId :
1081

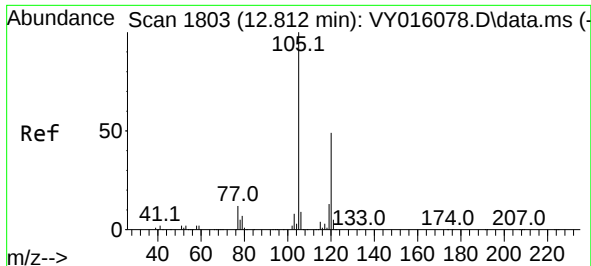
Tgt Ion:105 Resp: 648017
Ion Ratio Lower Upper
105 100
120 27.1 13.3 39.9



#78
n-propylbenzene
Concen: 159.993 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. -0.000 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 91 Resp: 1040899
Ion Ratio Lower Upper
91 100
120 23.6 11.5 34.4

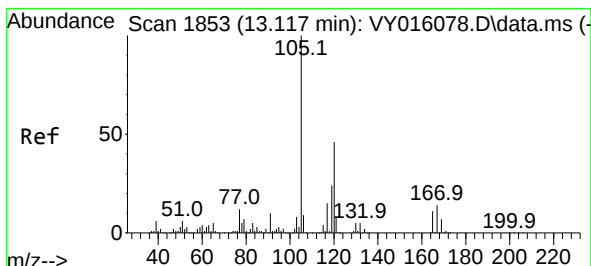
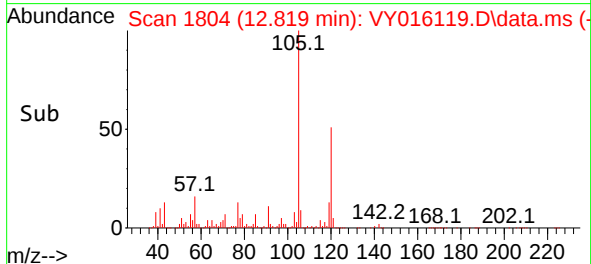
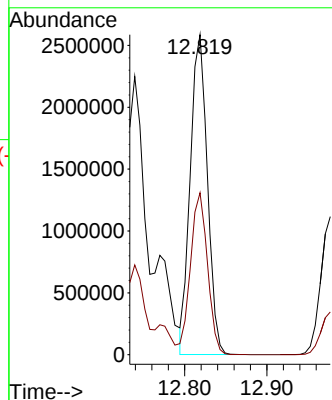
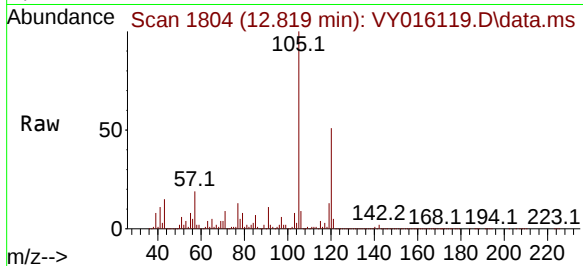




#80
 1,3,5-Trimethylbenzene
 Concen: 836.351 ug/l
 RT: 12.819 min Scan# 1804
 Delta R.T. 0.006 min
 Lab File: VY016119.D
 Acq: 27 Oct 2023 21:14

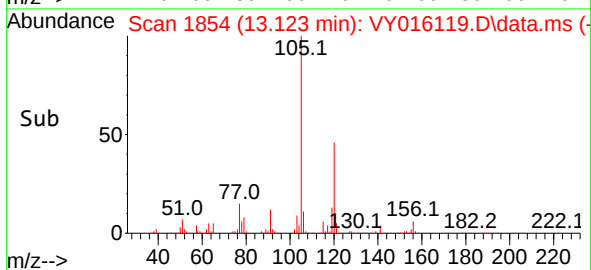
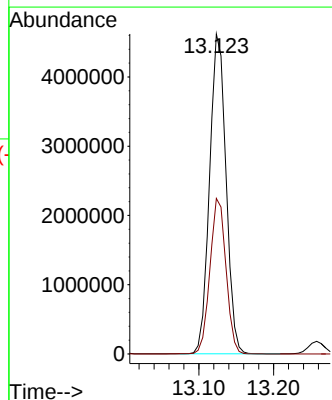
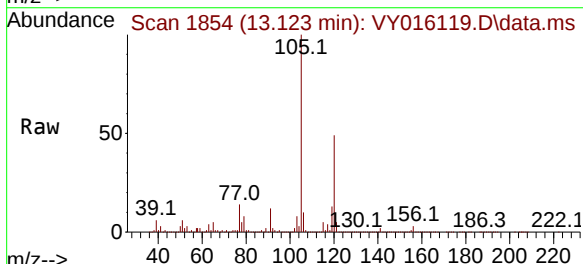
Instrument :
 MSVOA_Y
 ClientSampleId :
 1081

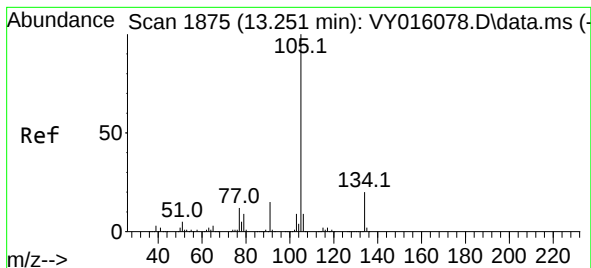
Tgt Ion:105 Resp: 3731031
 Ion Ratio Lower Upper
 105 100
 120 51.0 23.9 71.7



#84
 1,2,4-Trimethylbenzene
 Concen: 1601.532 ug/l
 RT: 13.123 min Scan# 1854
 Delta R.T. 0.006 min
 Lab File: VY016119.D
 Acq: 27 Oct 2023 21:14

Tgt Ion:105 Resp: 7056181
 Ion Ratio Lower Upper
 105 100
 120 47.5 22.2 66.6





#85

sec-Butylbenzene

Concen: 46.100 ug/l

RT: 13.257 min Scan# 1875

Delta R.T. 0.006 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

Instrument :

MSVOA_Y

ClientSampleId :

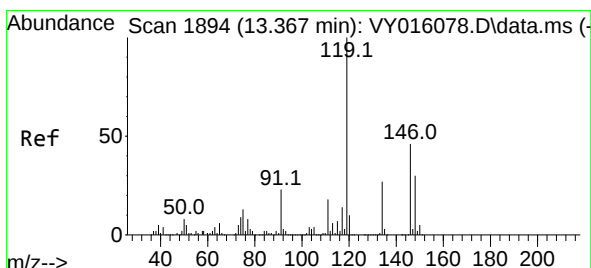
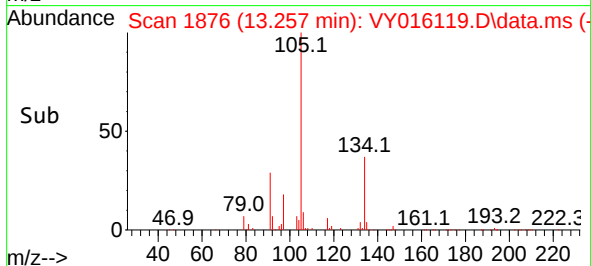
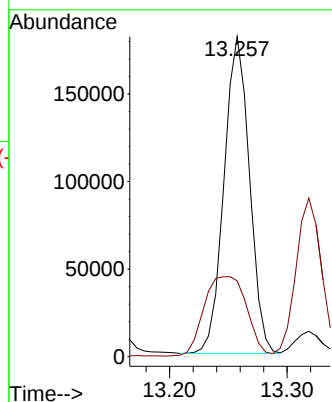
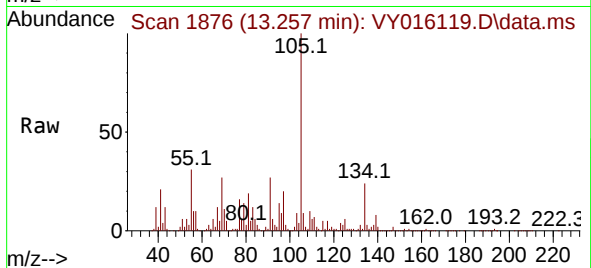
1081

Tgt Ion:105 Resp: 272267

Ion Ratio Lower Upper

105 100

134 41.8 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 66.484 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY016119.D

Acq: 27 Oct 2023 21:14

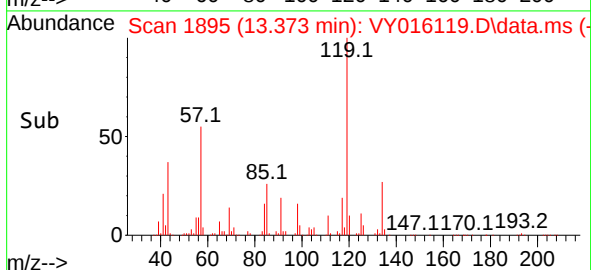
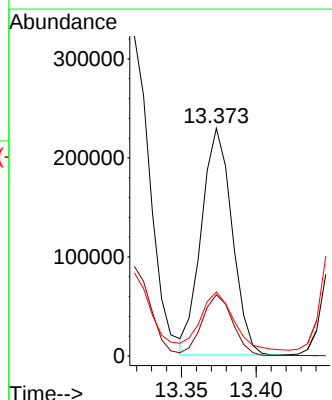
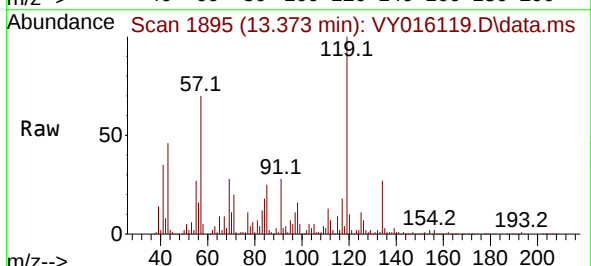
Tgt Ion:119 Resp: 327644

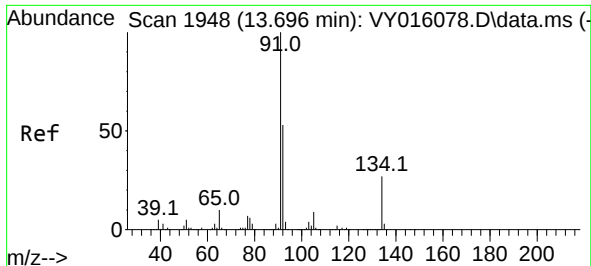
Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.8

91 27.3 12.4 37.4

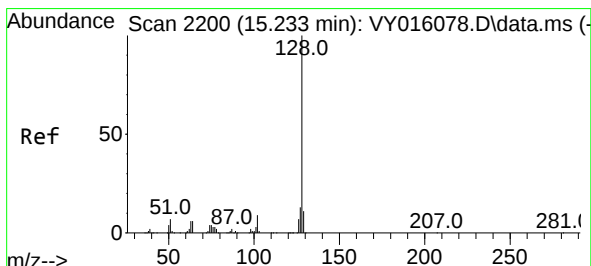
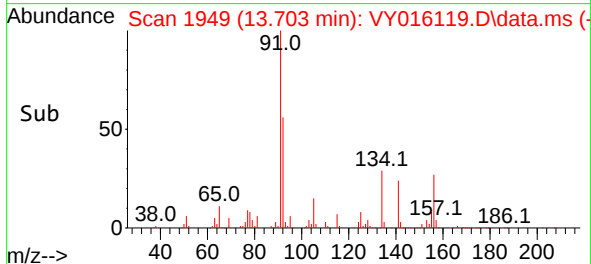
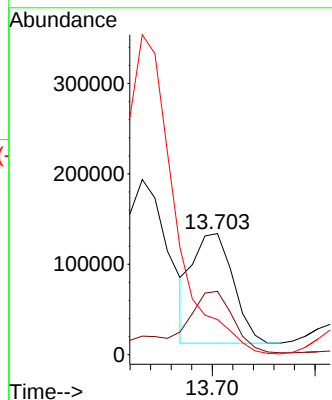
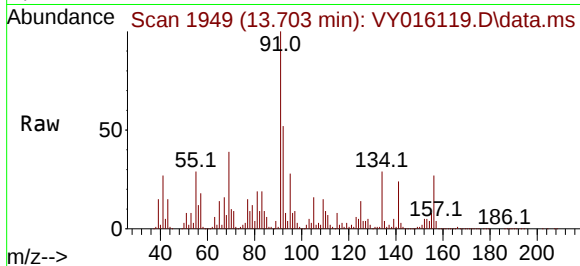




#89
n-Butylbenzene
Concen: 35.944 ug/l
RT: 13.703 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Instrument :
MSVOA_Y
ClientSampleId :
1081

Tgt Ion: 91 Resp: 165239
Ion Ratio Lower Upper
91 100
92 76.4 25.4 76.0#
134 0.0 12.6 37.6#



#95
Naphthalene
Concen: 7207.168 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY016119.D
Acq: 27 Oct 2023 21:14

Tgt Ion: 128 Resp: 19495263
Ion Ratio Lower Upper
128 100
127 18.7 10.8 16.2#
129 16.5 8.6 13.0#

