

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092623\
 Data File : VY015715.D
 Acq On : 26 Sep 2023 17:58
 Operator : SY/MD
 Sample : 04613-04
 Misc : 3.31g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 27 01:35:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 20 01:39:40 2023
 Response via : Initial Calibration

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

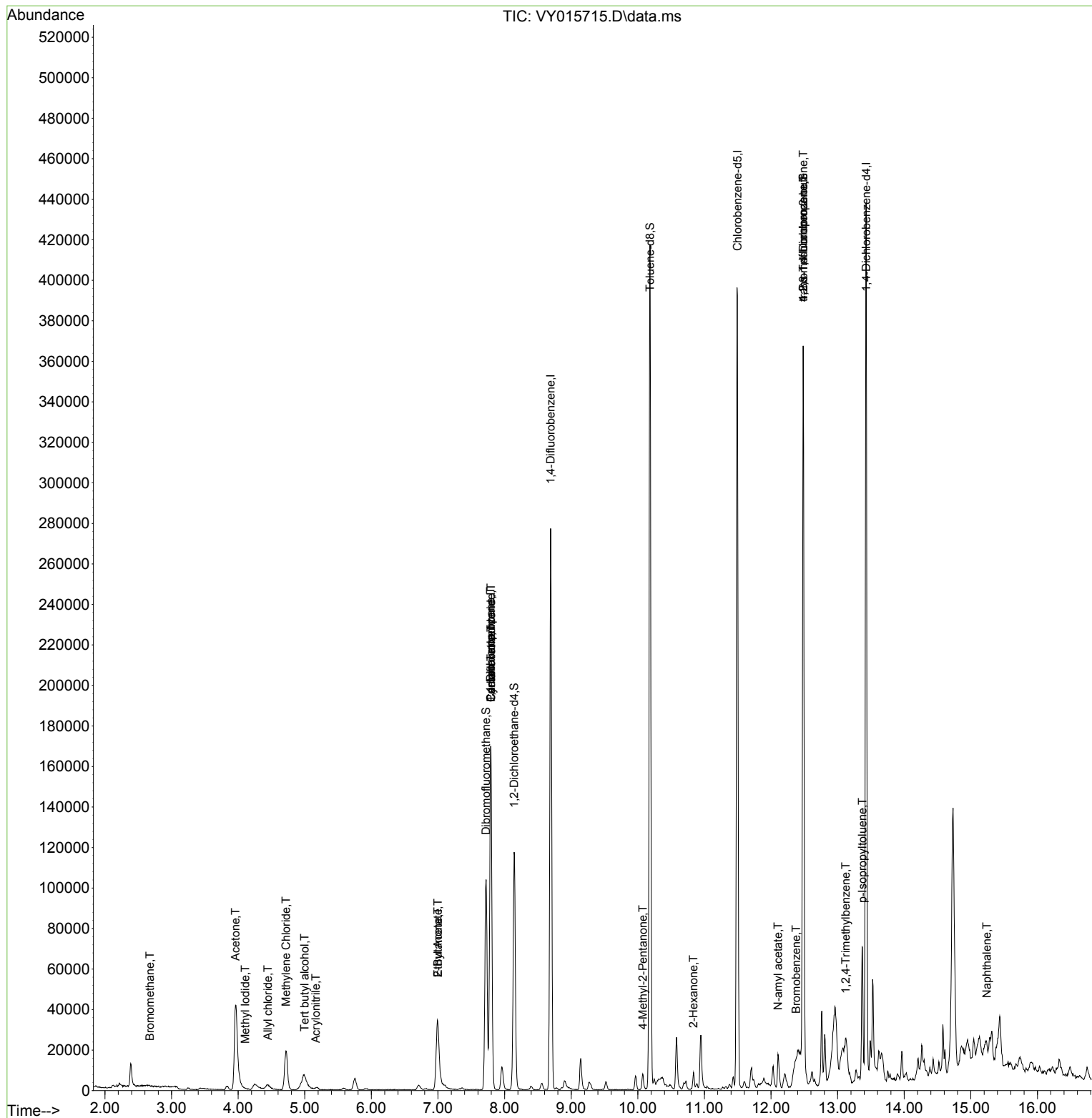
Internal Standards						
1) Pentafluorobenzene	7.795	168	135417	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.691	114	232793	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	219744	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	107473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	90138	60.497	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.000%	
35) Dibromofluoromethane	7.722	113	75137	53.926	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.860%	
50) Toluene-d8	10.185	98	272696	57.722	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 115.440%	
62) 4-Bromofluorobenzene	12.483	95	101232	54.602	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 109.200%	
Target Compounds						Qvalue
5) Bromomethane	2.674	94	107	2.636	ug/l #	69
10) Methyl Iodide	4.107	142	59	2.764	ug/l #	38
11) Tert butyl alcohol	4.997	59	22480	14.607	ug/l #	84
14) Allyl chloride	4.448	41	5335	2.449	ug/l #	35
15) Acrylonitrile	5.167	53	723	1.070	ug/l #	80
16) Acetone	3.960	43	94594	118.634	ug/l	94
20) Methylene Chloride	4.716	84	14693	3.957	ug/l	86
25) 2-Butanone	6.996	43	31273	27.748	ug/l	95
31) Cyclohexane	7.795	56	2985	1.446	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	10361	5.029	ug/l #	50
37) Ethyl Acetate	6.996	43	31273	15.218	ug/l #	76
38) Carbon Tetrachloride	7.795	117	13222	5.913	ug/l #	15
51) 4-Methyl-2-Pentanone	10.075	43	5421	2.492	ug/l	92
59) 2-Hexanone	10.837	43	5343	3.201	ug/l	99
74) N-amyl acetate	12.105	43	10028	3.309	ug/l #	46
76) 1,2,3-Trichloropropane	12.483	75	54152	31.584	ug/l #	100
77) Bromobenzene	12.380	156	8034	4.060	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.483	75	54152	71.124	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	8567	1.269	ug/l	69
86) p-Isopropyltoluene	13.373	119	35841	4.850	ug/l	98
95) Naphthalene	15.239	128	7897	1.327	ug/l #	96

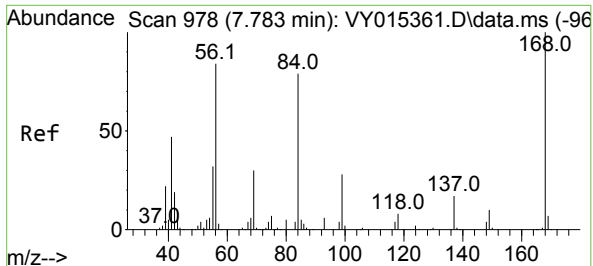
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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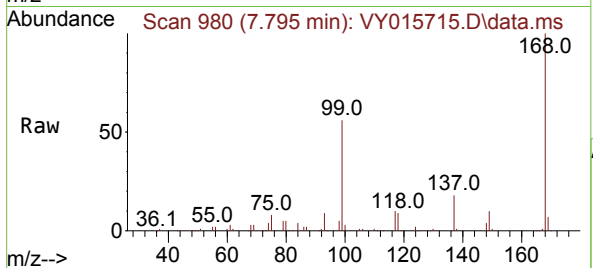
Quant Time: Sep 27 01:35:19 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091923S.M
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QLast Update : Wed Sep 20 01:39:40 2023
Response via : Initial Calibration



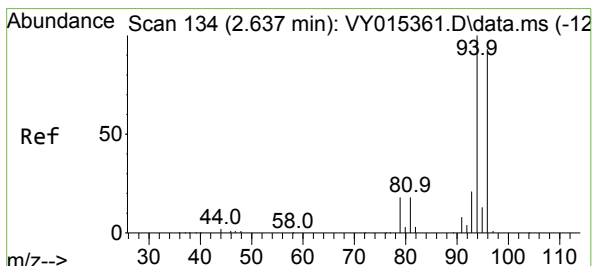
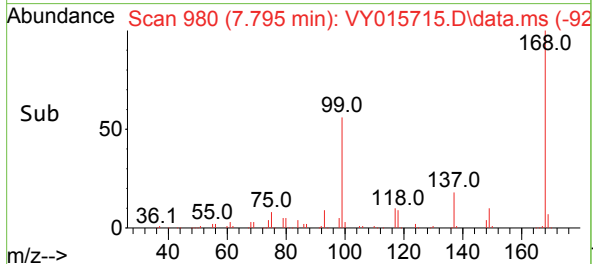
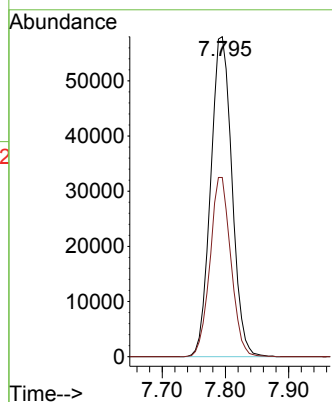


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Instrument :
MSVOA_Y
ClientSampleId :

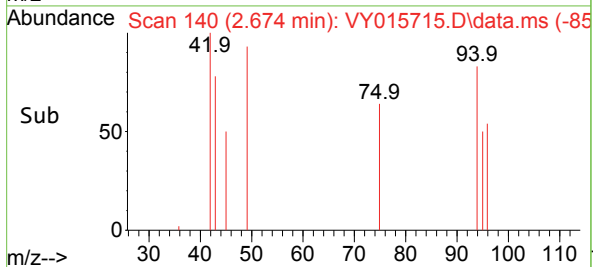
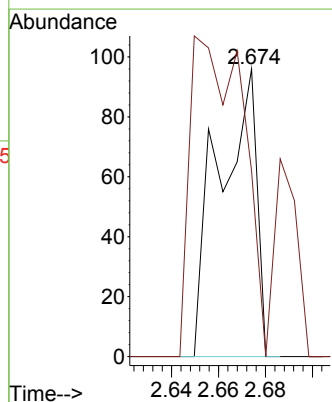
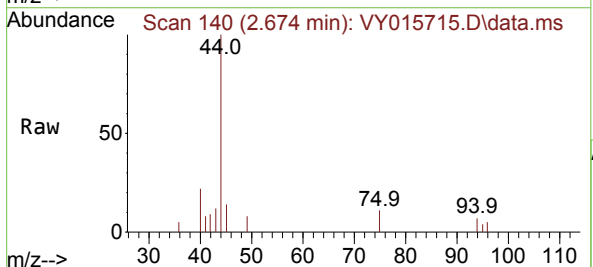


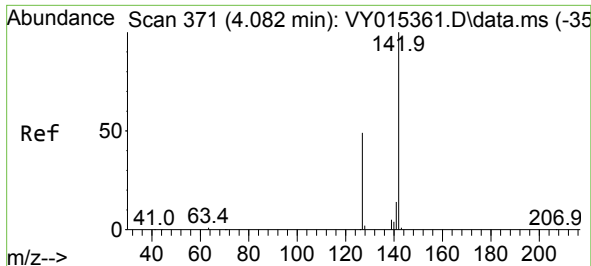
Tgt Ion:168 Resp: 135417
Ion Ratio Lower Upper
168 100
99 56.0 43.4 65.0



#5
Bromomethane
Concen: 2.636 ug/l
RT: 2.674 min Scan# 140
Delta R.T. 0.037 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

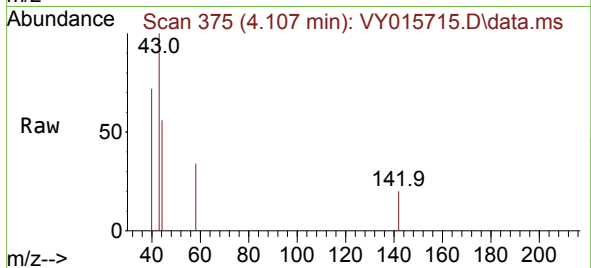
Tgt Ion: 94 Resp: 107
Ion Ratio Lower Upper
94 100
96 64.6 75.8 113.6#



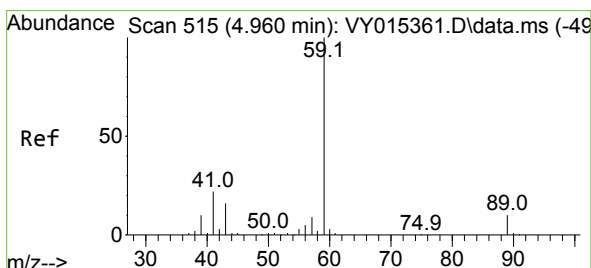
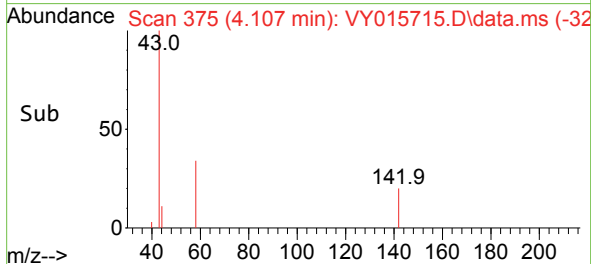
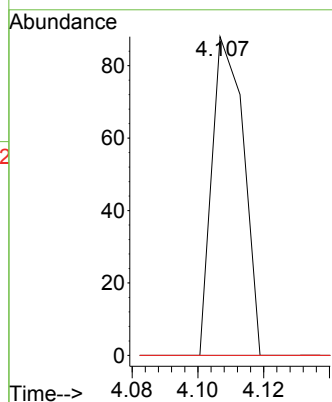


#10
Methyl Iodide
Concen: 2.764 ug/l
RT: 4.107 min Scan# 31
Delta R.T. 0.025 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Instrument :
MSVOA_Y
ClientSampleId :

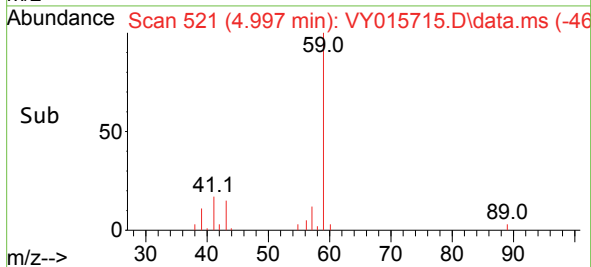
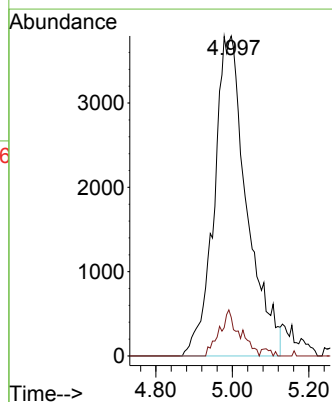
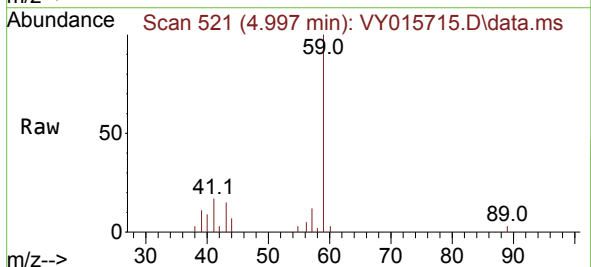


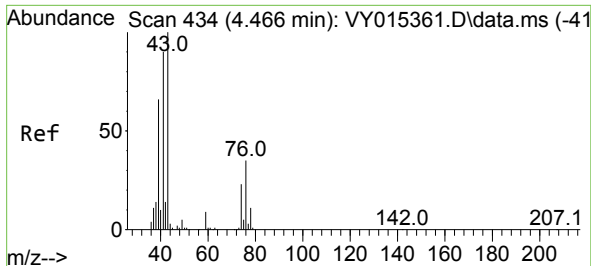
Tgt Ion:142 Resp: 59
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 14.607 ug/l
RT: 4.997 min Scan# 521
Delta R.T. 0.043 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

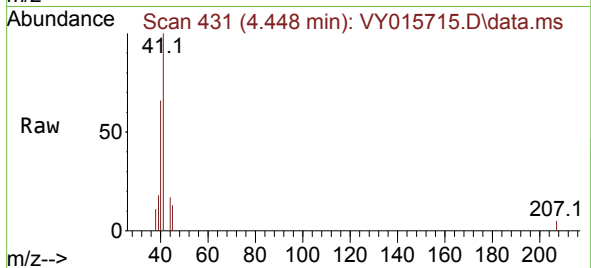
Tgt Ion: 59 Resp: 22480
Ion Ratio Lower Upper
59 100
57 8.9 3.0 4.4#



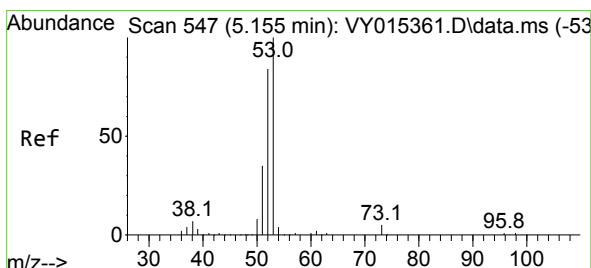
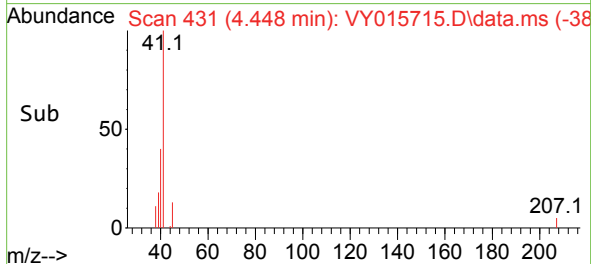
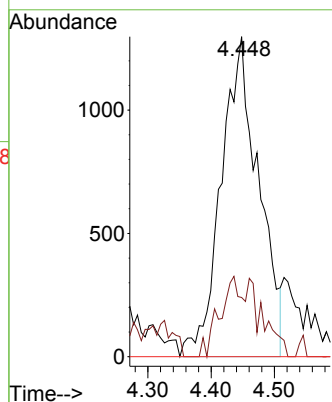


#14
 Allyl chloride
 Concen: 2.449 ug/l
 RT: 4.448 min Scan# 41
 Delta R.T. -0.024 min
 Lab File: VY015715.D
 Acq: 26 Sep 2023 17:58

Instrument :
 MSVOA_Y
 ClientSampleId :

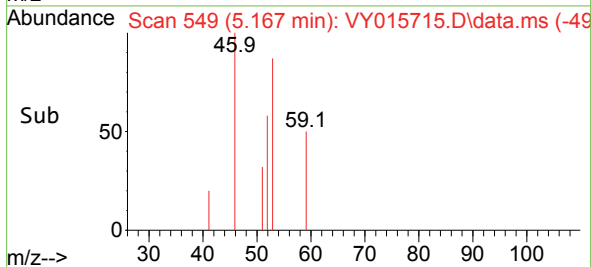
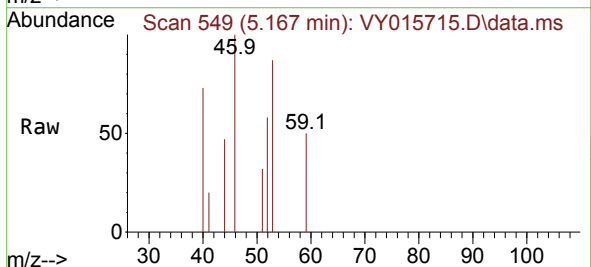
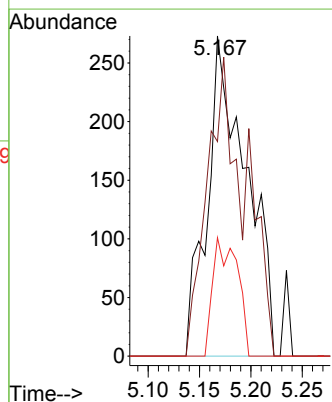


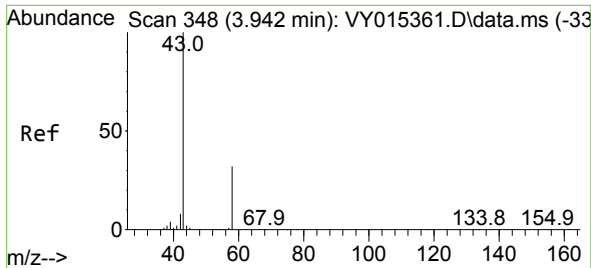
Tgt Ion: 41 Resp: 5335
 Ion Ratio Lower Upper
 41 100
 39 15.4 58.0 87.0#
 76 0.0 27.4 41.2#



#15
 Acrylonitrile
 Concen: 1.070 ug/l
 RT: 5.167 min Scan# 549
 Delta R.T. 0.006 min
 Lab File: VY015715.D
 Acq: 26 Sep 2023 17:58

Tgt Ion: 53 Resp: 723
 Ion Ratio Lower Upper
 53 100
 52 67.1 66.9 100.3
 51 23.2 29.8 44.6#





#16

Acetone

Concen: 118.634 ug/l

RT: 3.960 min Scan# 3

Delta R.T. 0.018 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

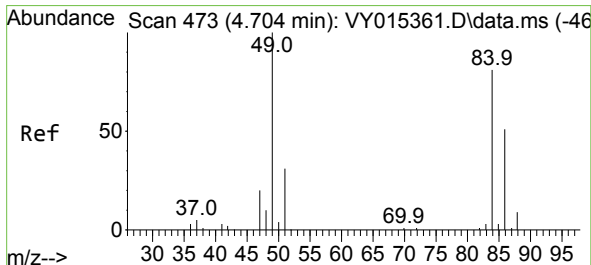
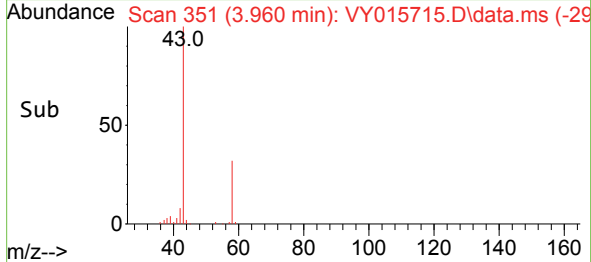
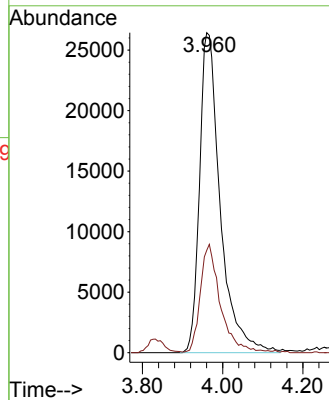
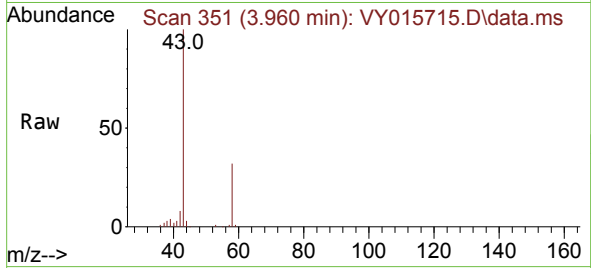
ClientSampleId :

Tgt Ion: 43 Resp: 94594

Ion Ratio Lower Upper

43 100

58 31.8 22.7 34.1



#20

Methylene Chloride

Concen: 3.957 ug/l

RT: 4.716 min Scan# 475

Delta R.T. 0.012 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Tgt Ion: 84 Resp: 14693

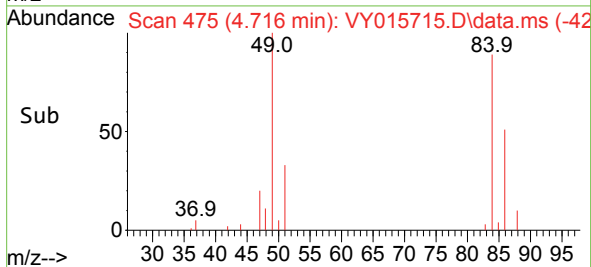
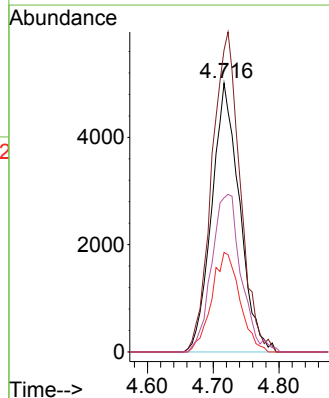
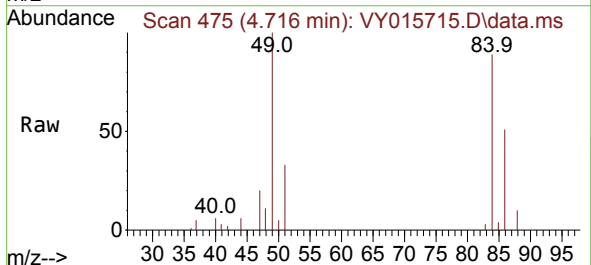
Ion Ratio Lower Upper

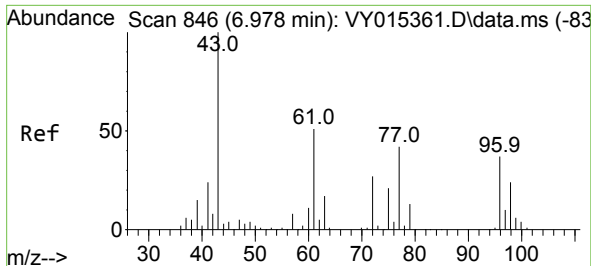
84 100

49 112.3 106.9 160.3

51 37.0 33.2 49.8

86 57.3 51.0 76.6

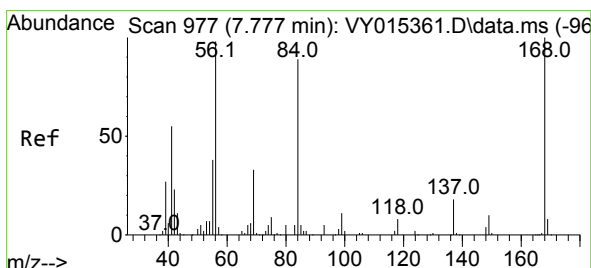
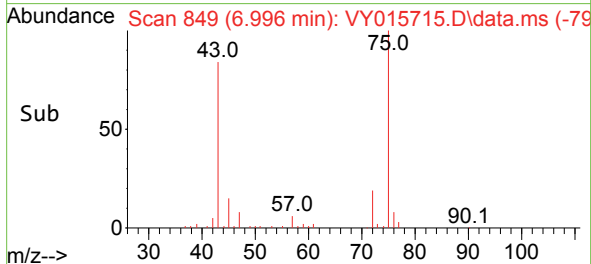
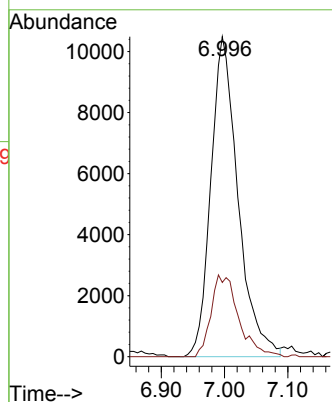
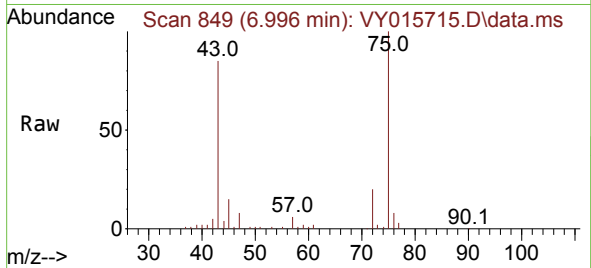




#25
2-Butanone
Concen: 27.748 ug/l
RT: 6.996 min Scan# 846
Delta R.T. 0.018 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

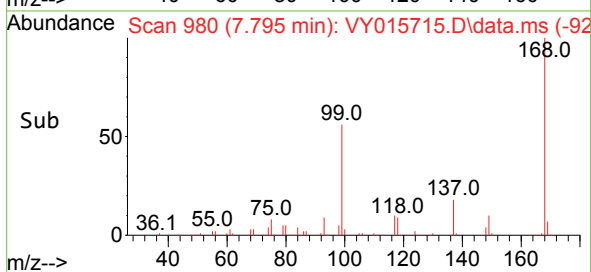
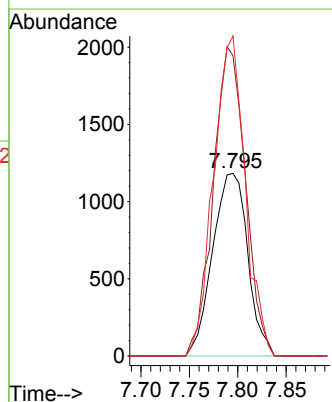
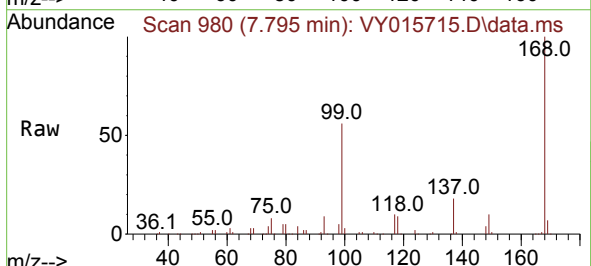
Instrument :
MSVOA_Y
ClientSampleId :

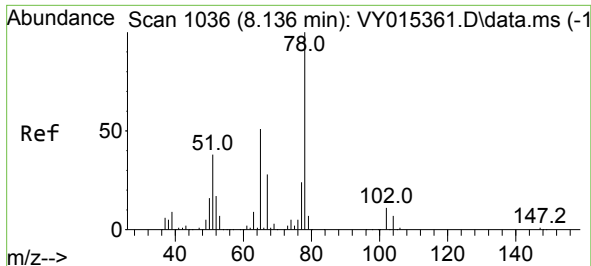
Tgt Ion: 43 Resp: 31273
Ion Ratio Lower Upper
43 100
72 23.2 20.5 30.7



#31
Cyclohexane
Concen: 1.446 ug/l
RT: 7.795 min Scan# 980
Delta R.T. 0.012 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Tgt Ion: 56 Resp: 2985
Ion Ratio Lower Upper
56 100
69 164.3 27.8 41.6#
84 175.2 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 60.497 ug/l

RT: 8.143 min Scan# 110

Delta R.T. 0.007 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

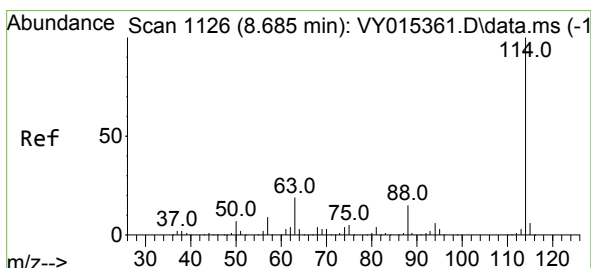
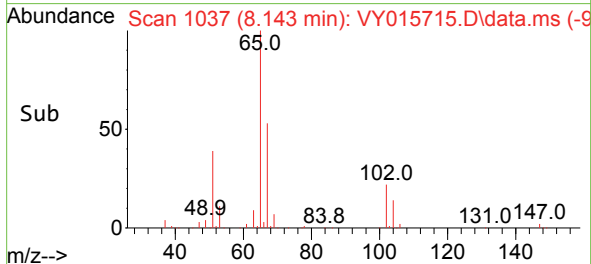
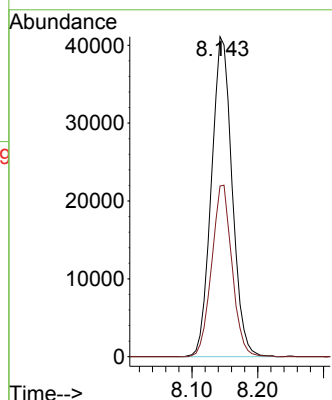
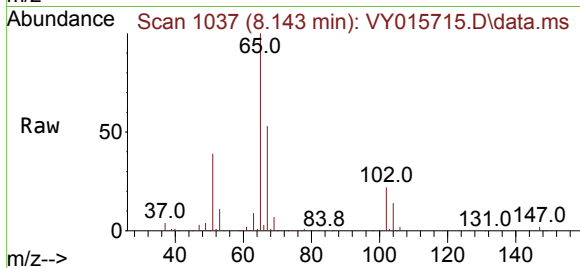
ClientSampleId :

Tgt Ion: 65 Resp: 90138

Ion Ratio Lower Upper

65 100

67 52.7 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

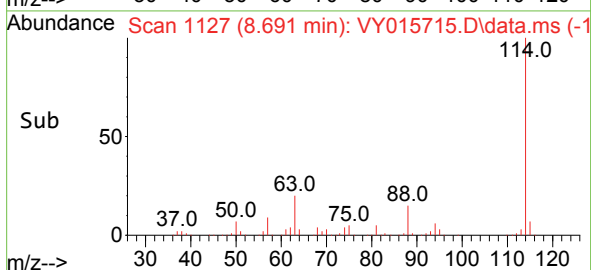
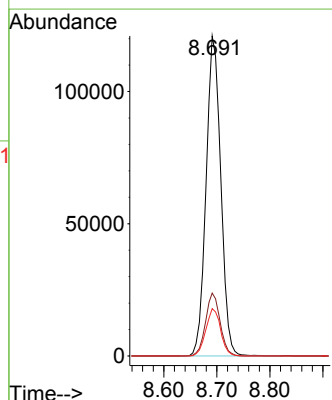
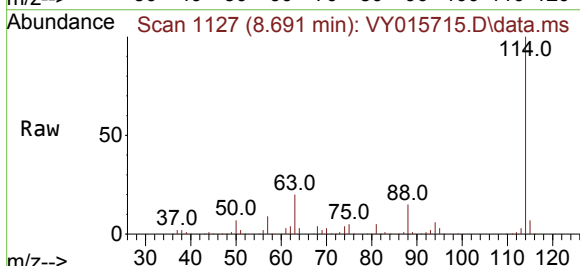
Tgt Ion: 114 Resp: 232793

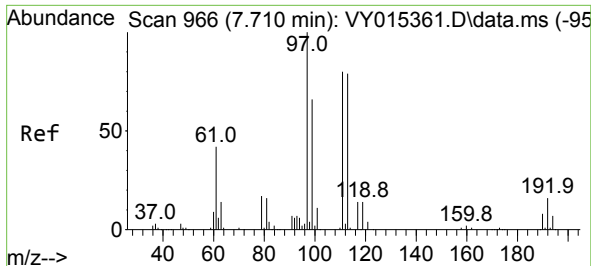
Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.4

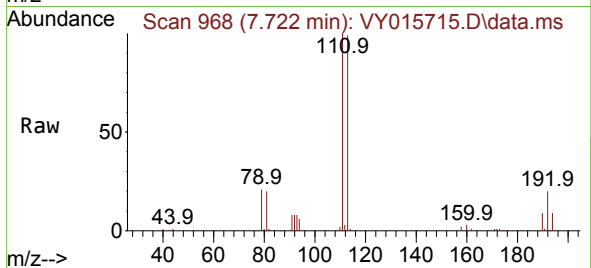
88 14.8 0.0 30.6



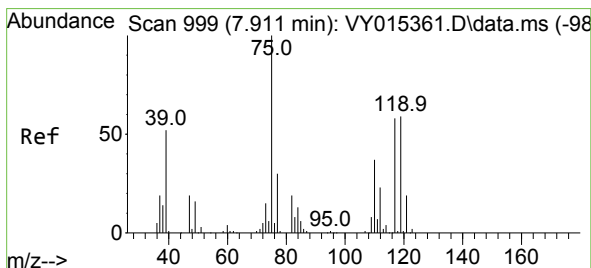
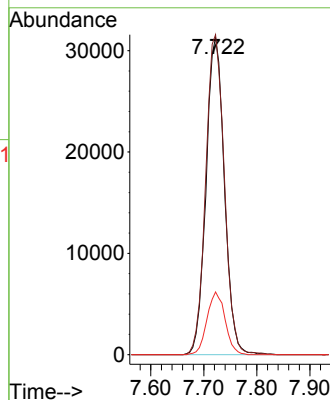
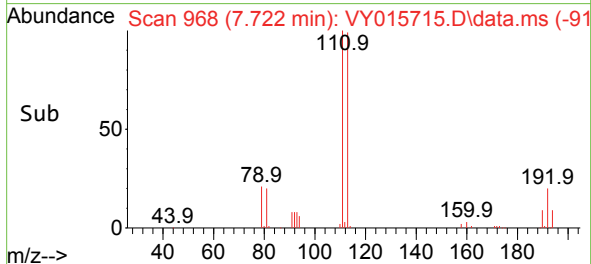


#35
Dibromofluoromethane
Concen: 53.926 ug/l
RT: 7.722 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Instrument :
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ClientSampleId :

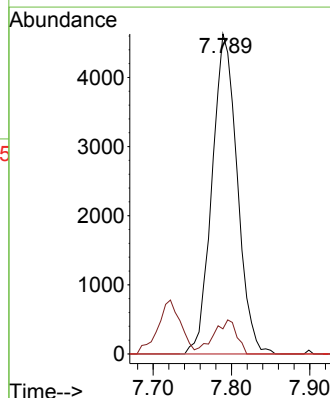
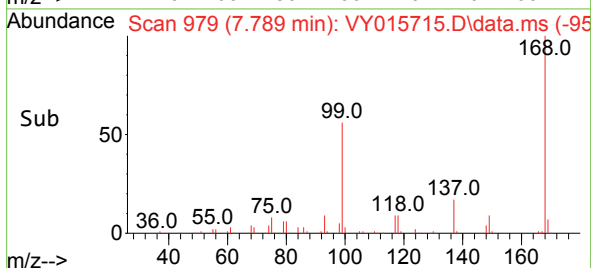
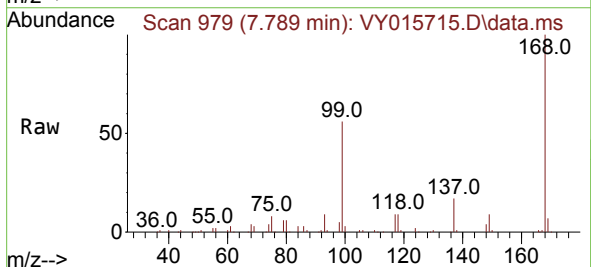


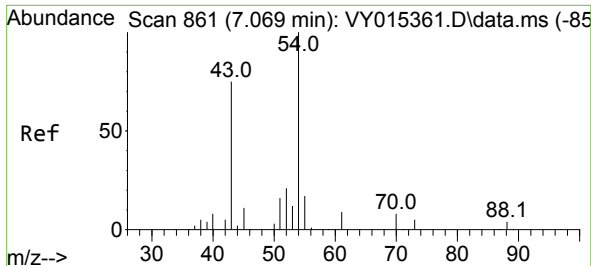
Tgt Ion:113 Resp: 75137
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.029 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Tgt Ion: 75 Resp: 10361
Ion Ratio Lower Upper
75 100
110 9.8 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 15.218 ug/l

RT: 6.996 min Scan# 849

Delta R.T. -0.067 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

ClientSampleId :

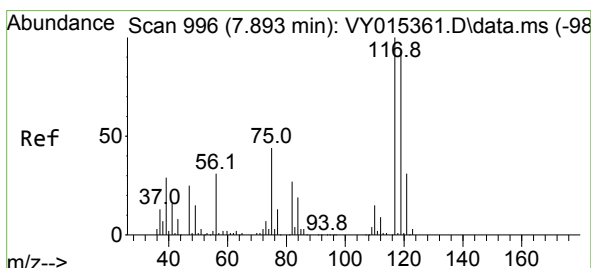
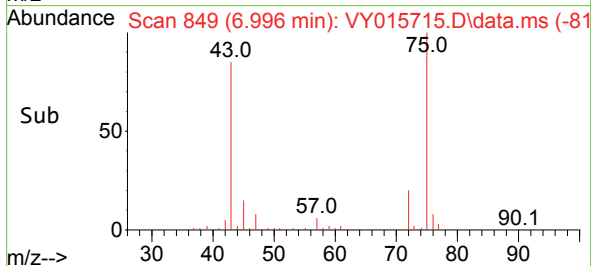
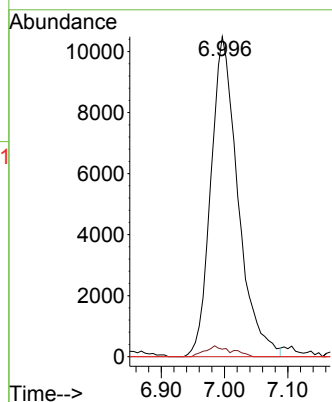
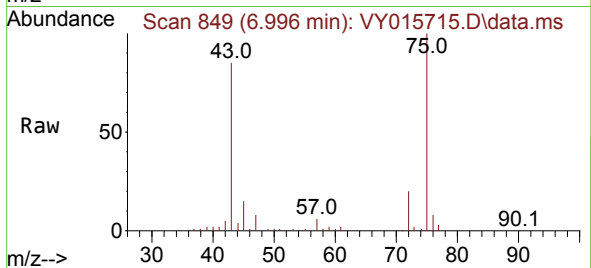
Tgt Ion: 43 Resp: 31273

Ion Ratio Lower Upper

43 100

61 3.3 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 5.913 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.098 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

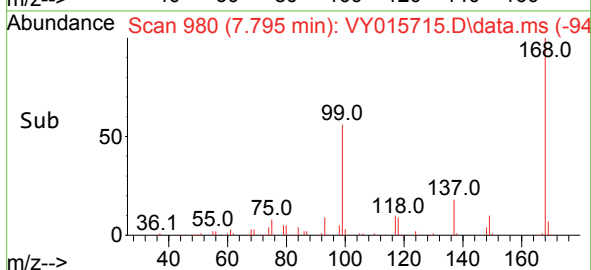
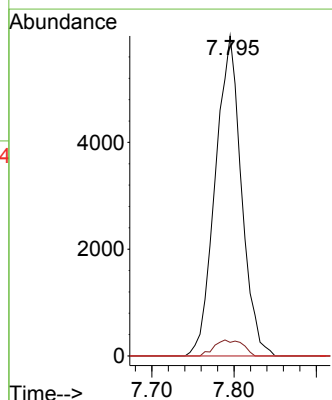
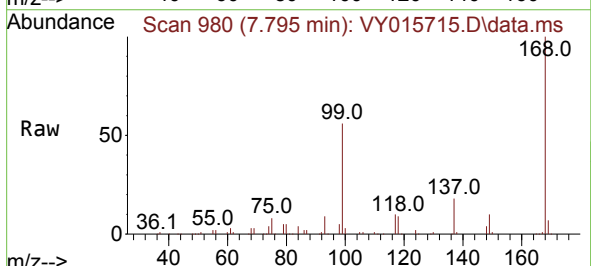
Tgt Ion: 117 Resp: 13222

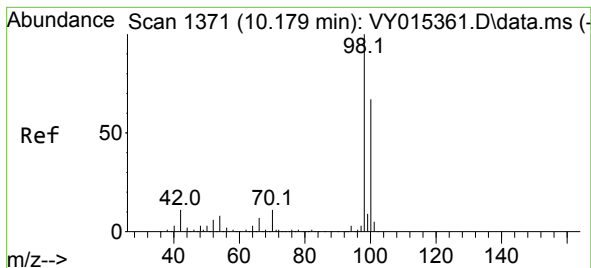
Ion Ratio Lower Upper

117 100

119 4.3 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 57.722 ug/l

RT: 10.185 min Scan# 1371

Delta R.T. 0.006 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

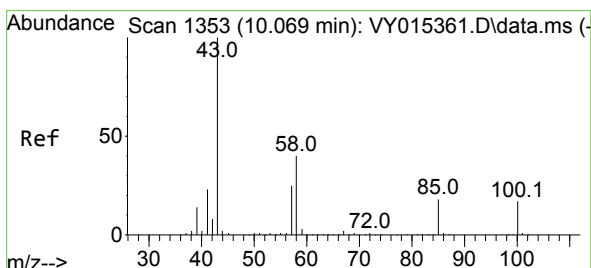
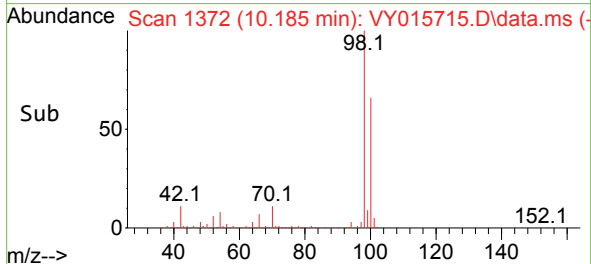
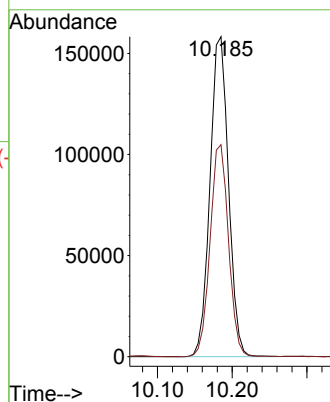
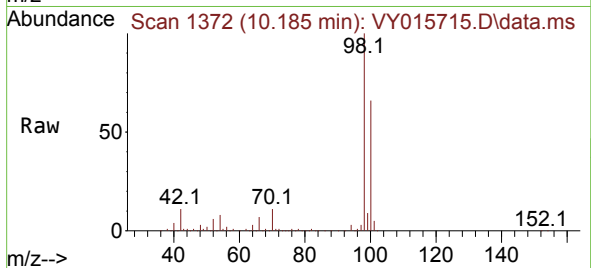
ClientSampleId :

Tgt Ion: 98 Resp: 272696

Ion Ratio Lower Upper

98 100

100 66.0 50.1 75.1



#51

4-Methyl-2-Pentanone

Concen: 2.492 ug/l

RT: 10.075 min Scan# 1354

Delta R.T. 0.006 min

Lab File: VY015715.D

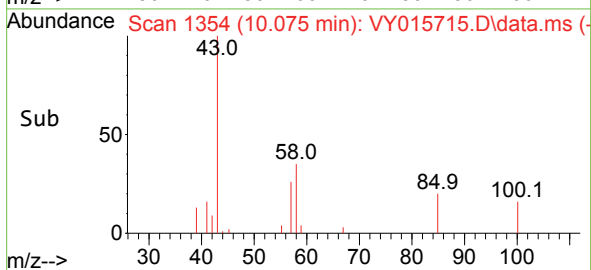
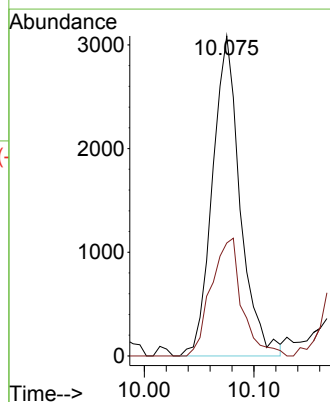
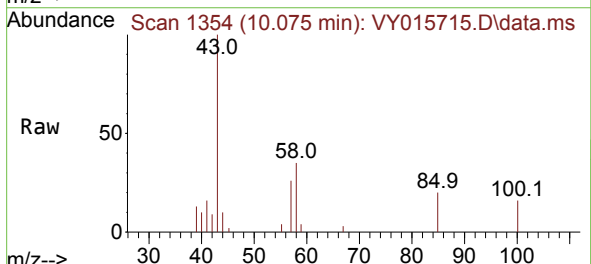
Acq: 26 Sep 2023 17:58

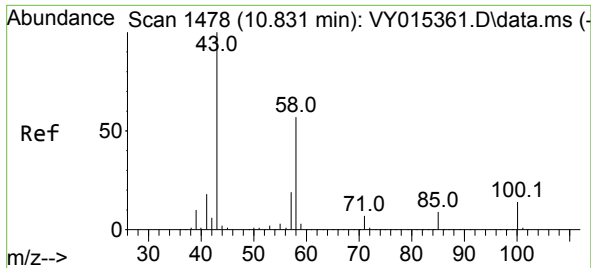
Tgt Ion: 43 Resp: 5421

Ion Ratio Lower Upper

43 100

58 40.9 29.0 43.6

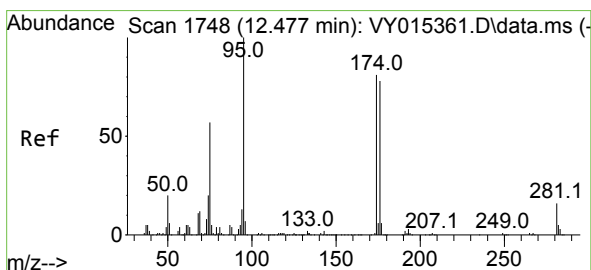
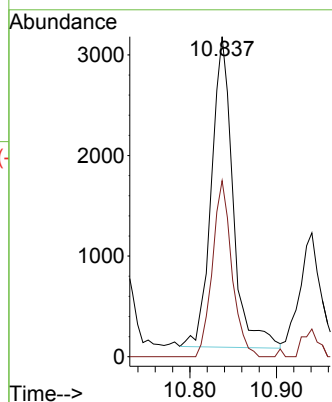
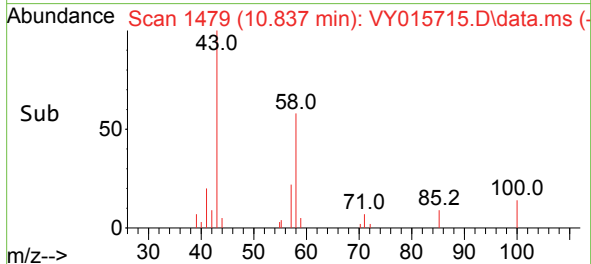
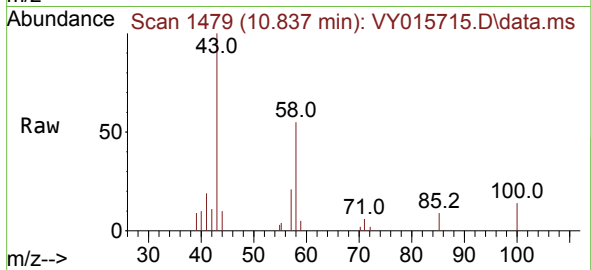




#59
2-Hexanone
Concen: 3.201 ug/l
RT: 10.837 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

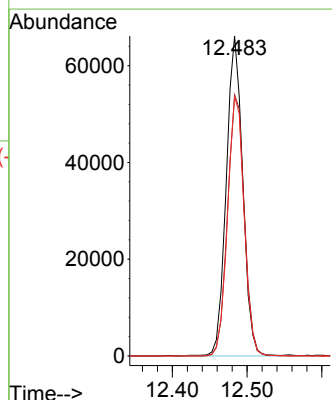
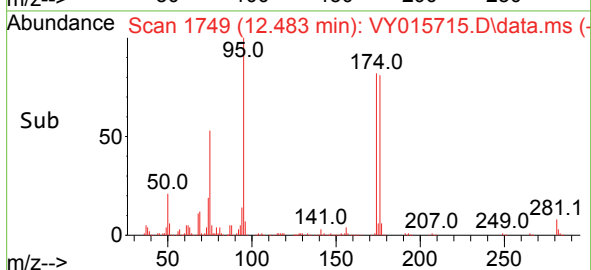
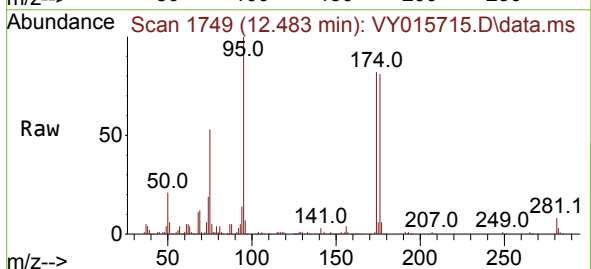
Instrument :
MSVOA_Y
ClientSampleId :

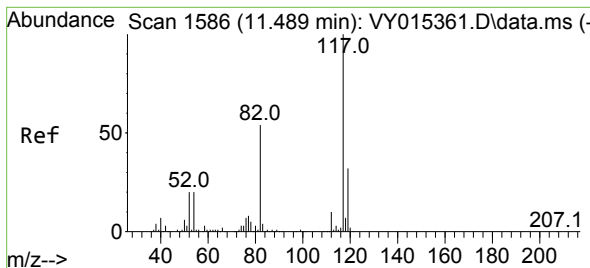
Tgt Ion: 43 Resp: 5343
Ion Ratio Lower Upper
43 100
58 51.0 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 54.602 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015715.D
Acq: 26 Sep 2023 17:58

Tgt Ion: 95 Resp: 101232
Ion Ratio Lower Upper
95 100
174 83.3 0.0 178.2
176 81.6 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 11

Delta R.T. 0.007 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

ClientSampleId :

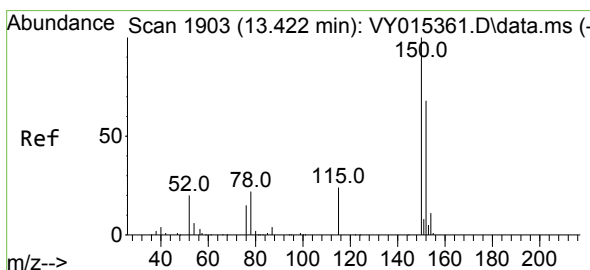
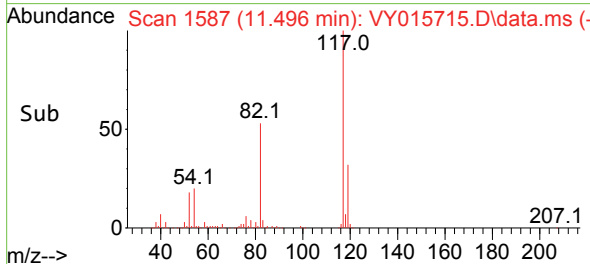
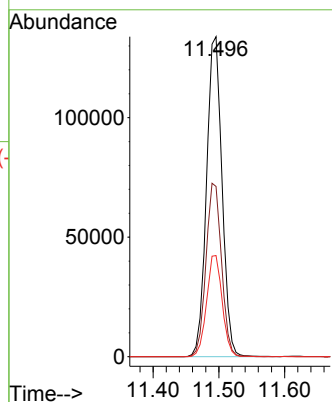
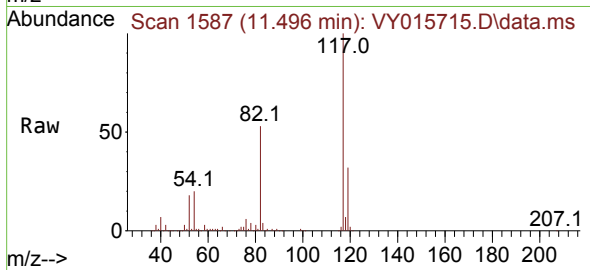
Tgt Ion:117 Resp: 219744

Ion Ratio Lower Upper

117 100

82 53.2 43.4 65.0

119 31.6 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: VY015715.D

Acq: 26 Sep 2023 17:58

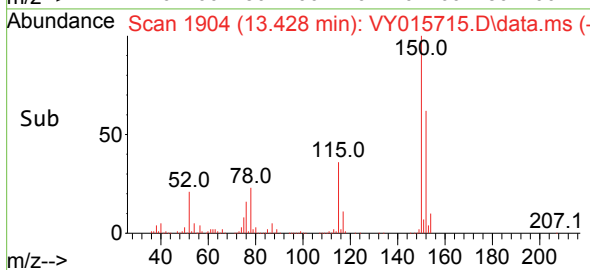
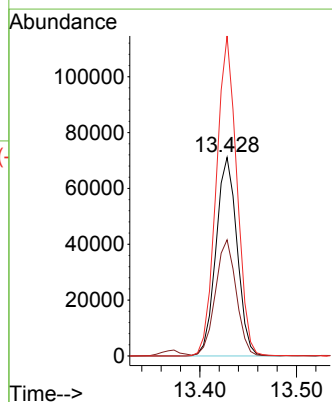
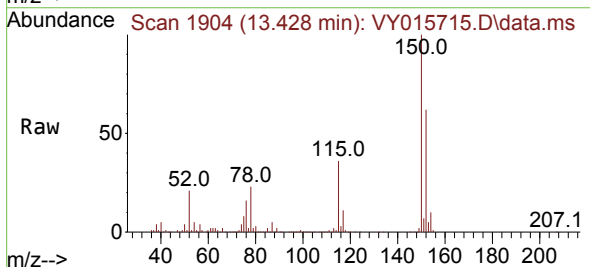
Tgt Ion:152 Resp: 107473

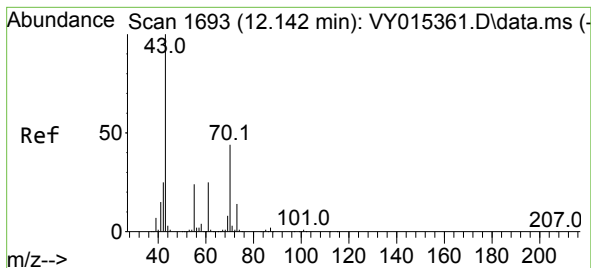
Ion Ratio Lower Upper

152 100

115 57.9 28.8 86.5

150 157.6 0.0 348.8





#74

N-amy1 acetate

Concen: 3.309 ug/l

RT: 12.105 min Scan# 1

Delta R.T. -0.037 min

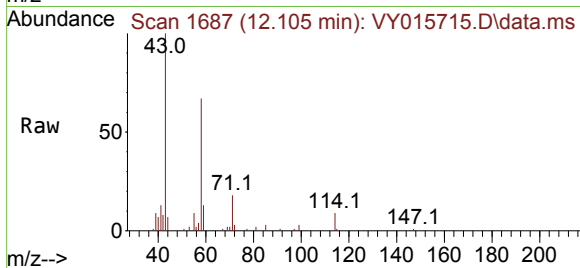
Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43 Resp: 10028

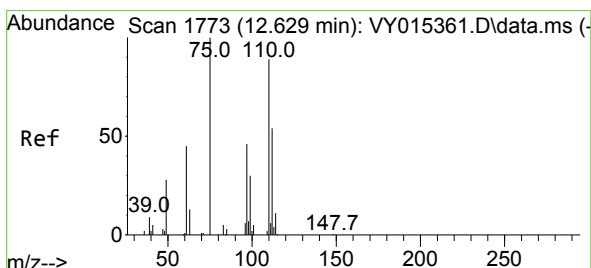
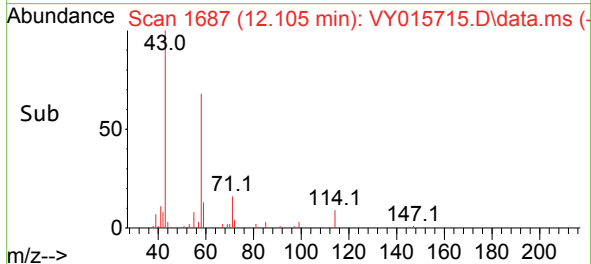
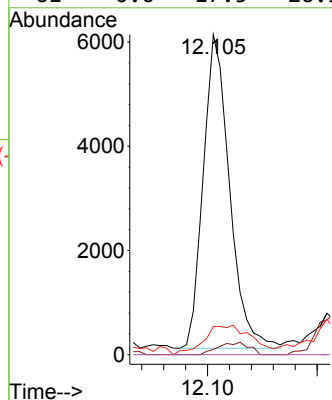
Ion Ratio Lower Upper

43 100

70 0.0 29.7 44.5#

55 0.0 18.3 27.5#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 31.584 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.146 min

Lab File: VY015715.D

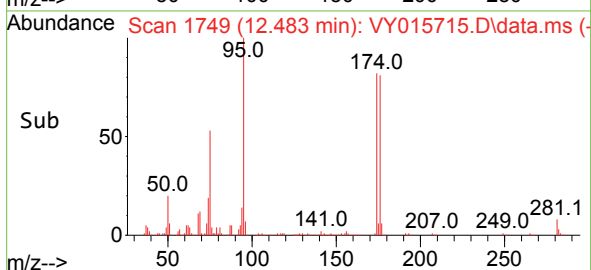
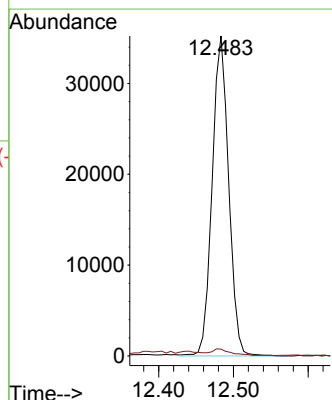
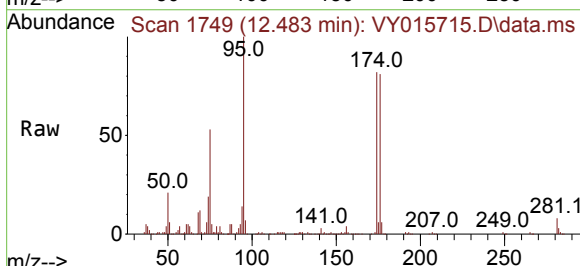
Acq: 26 Sep 2023 17:58

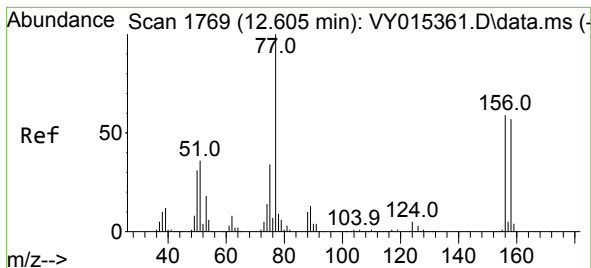
Tgt Ion: 75 Resp: 54152

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#





#77

Bromobenzene

Concen: 4.060 ug/l

RT: 12.380 min Scan# 1

Delta R.T. -0.225 min

Lab File: VY015715.D

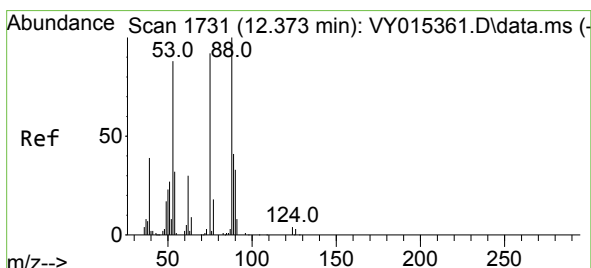
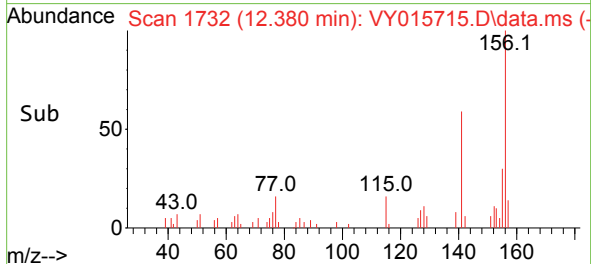
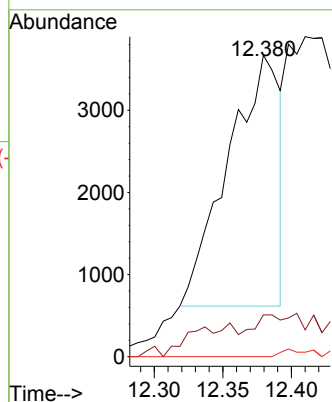
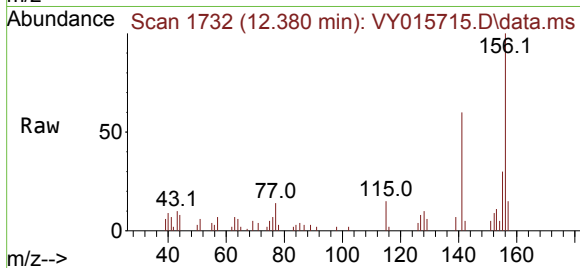
Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:156 Resp: 8034
 Ion Ratio Lower Upper
 156 100
 77 0.0 92.8 278.6#
 158 0.0 48.4 145.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.124 ug/l

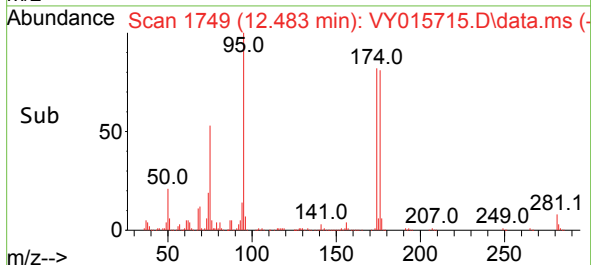
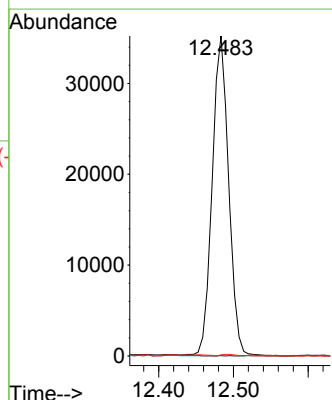
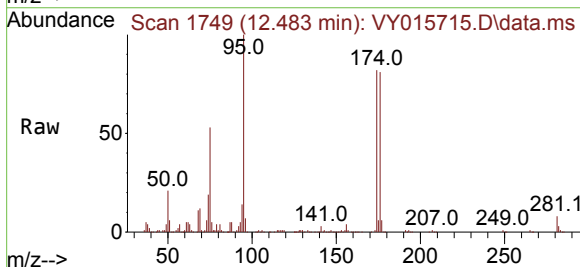
RT: 12.483 min Scan# 1749

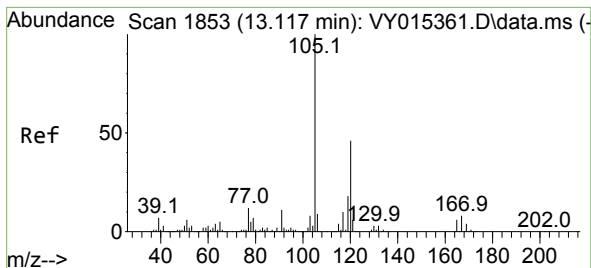
Delta R.T. 0.103 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Tgt Ion: 75 Resp: 54152
 Ion Ratio Lower Upper
 75 100
 53 0.1 77.8 116.8#
 89 0.5 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 1.269 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

Instrument :

MSVOA_Y

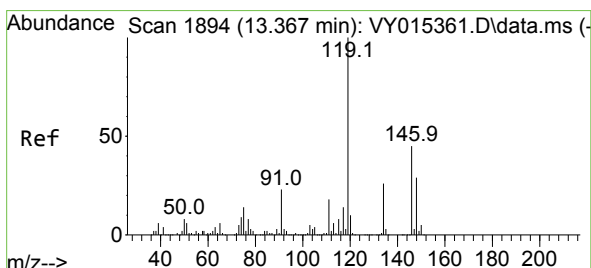
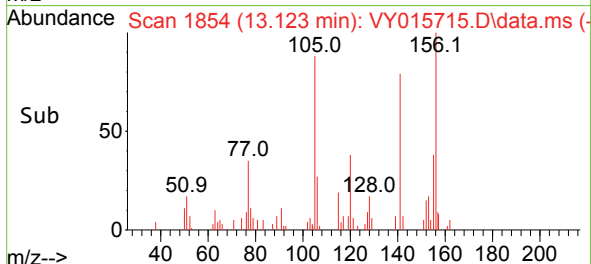
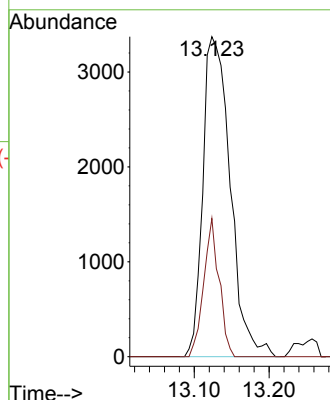
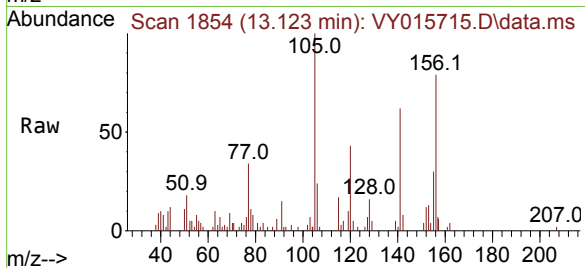
ClientSampleId :

Tgt Ion:105 Resp: 8567

Ion Ratio Lower Upper

105 100

120 24.3 22.2 66.6



#86

p-Isopropyltoluene

Concen: 4.850 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY015715.D

Acq: 26 Sep 2023 17:58

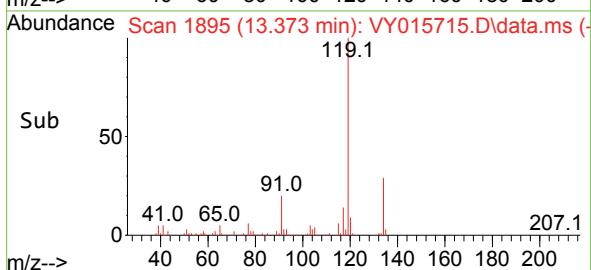
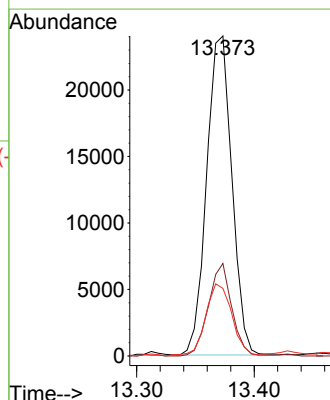
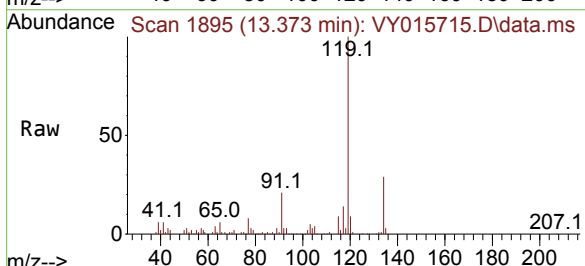
Tgt Ion:119 Resp: 35841

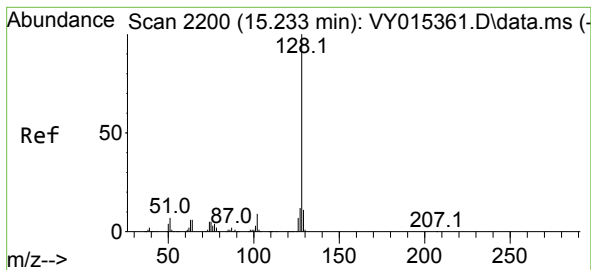
Ion Ratio Lower Upper

119 100

134 26.7 13.3 39.8

91 23.6 12.4 37.4





#95
 Naphthalene
 Concen: 1.327 ug/l
 RT: 15.239 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY015715.D
 Acq: 26 Sep 2023 17:58

Instrument :
 MSVOA_Y
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
128	100		
127	16.6	10.8	16.2#
129	10.9	8.6	13.0

