

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092023\
 Data File : VY015661.D
 Acq On : 20 Sep 2023 16:06
 Operator : SY/MD
 Sample : 04499-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 21 03:42:56 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)

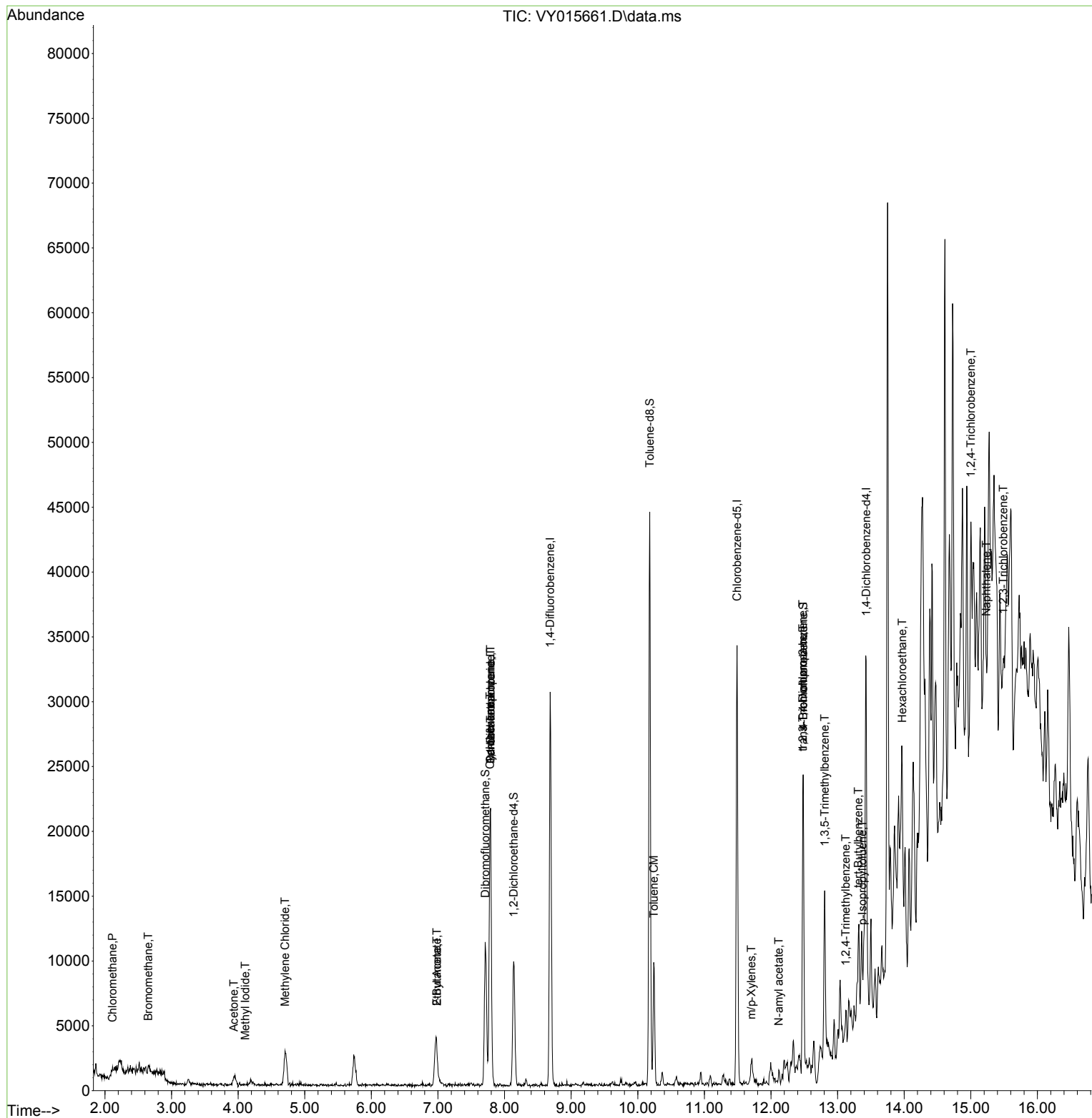
Internal Standards						
1) Pentafluorobenzene	7.789	168	17115	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	25455	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	18828	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	6409	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	7681	40.789	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.580%
35) Dibromofluoromethane	7.710	113	7856	51.563	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.120%
50) Toluene-d8	10.179	98	28688	55.534	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	111.060%
62) 4-Bromofluorobenzene	12.483	95	6786	33.474	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	66.940%
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	166	1.166	ug/l #	43
5) Bromomethane	2.650	94	177	3.598	ug/l #	57
10) Methyl Iodide	4.107	142	44	2.936	ug/l #	38
11) Tert butyl alcohol	4.942	59	246	Below Cal	#	89
16) Acetone	3.936	43	1478	14.666	ug/l	90
20) Methylene Chloride	4.704	84	2084	5.096	ug/l #	89
25) 2-Butanone	6.984	43	548	3.847	ug/l #	49
31) Cyclohexane	7.783	56	420	1.610	ug/l #	29
36) 1,1-Dichloropropene	7.789	75	1285	5.704	ug/l #	45
37) Ethyl Acetate	6.984	43	548	2.439	ug/l #	72
38) Carbon Tetrachloride	7.789	117	1604	6.560	ug/l #	12
52) Toluene	10.240	92	4075	9.201	ug/l	96
68) m/p-Xylenes	11.703	106	282	1.033	ug/l	96
74) N-amyl acetate	12.118	43	269	1.489	ug/l #	50
76) 1,2,3-Trichloropropane	12.477	75	3634	35.542	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	751	1.866	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.477	75	3634	80.037	ug/l #	10
83) tert-Butylbenzene	13.312	119	357	1.013	ug/l	91
84) 1,2,4-Trimethylbenzene	13.123	105	1022	2.538	ug/l	84
86) p-Isopropyltoluene	13.373	119	672	1.525	ug/l #	62
90) Hexachloroethane	13.971	117	117	1.376	ug/l #	8
93) 1,2,4-Trichlorobenzene	15.001	180	1704	12.524	ug/l #	66
95) Naphthalene	15.233	128	884	2.492	ug/l #	56
96) 1,2,3-Trichlorobenzene	15.489	180	323	2.572	ug/l	93

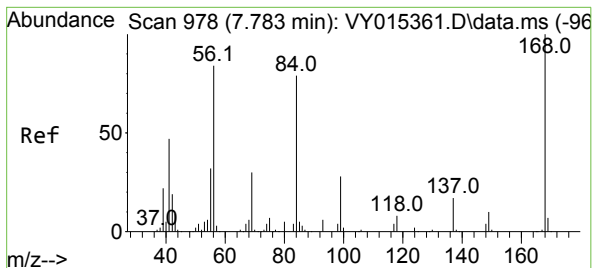
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.789 min Scan# 91

Delta R.T. 0.006 min

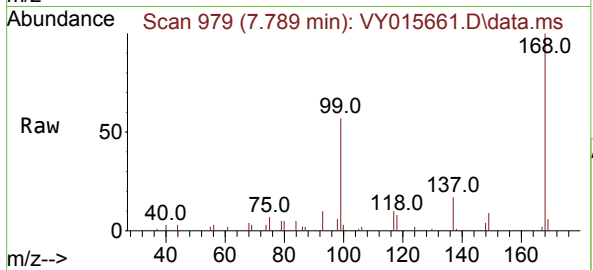
Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :

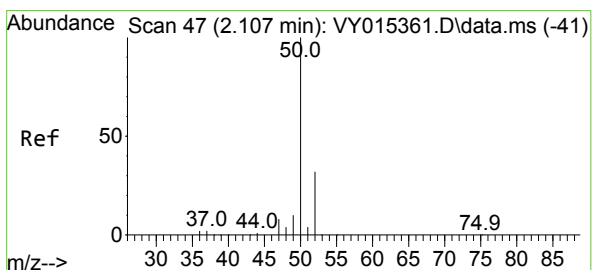
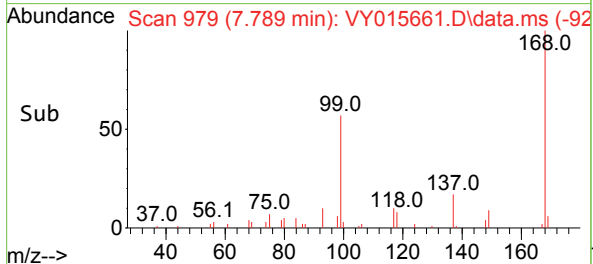
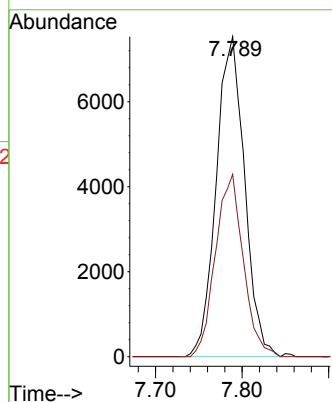


Tgt Ion:168 Resp: 17115

Ion Ratio Lower Upper

168 100

99 57.0 43.4 65.0



#3

Chloromethane

Concen: 1.166 ug/l

RT: 2.113 min Scan# 48

Delta R.T. 0.006 min

Lab File: VY015661.D

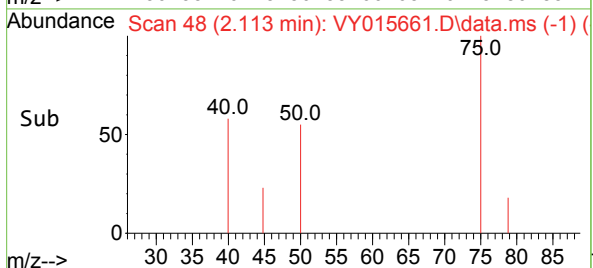
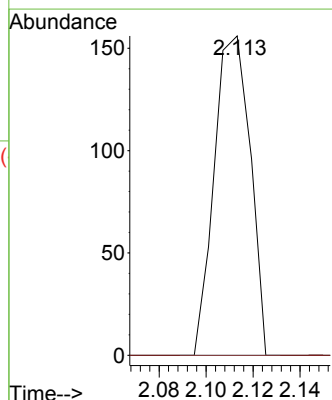
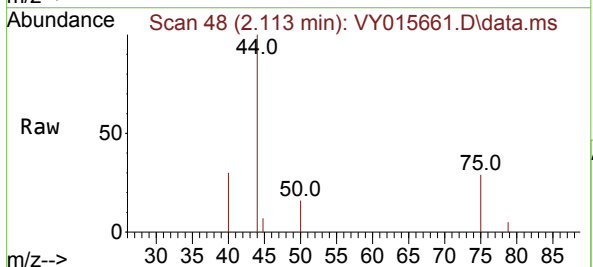
Acq: 20 Sep 2023 16:06

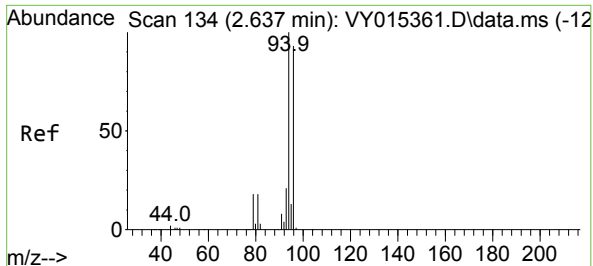
Tgt Ion: 50 Resp: 166

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#

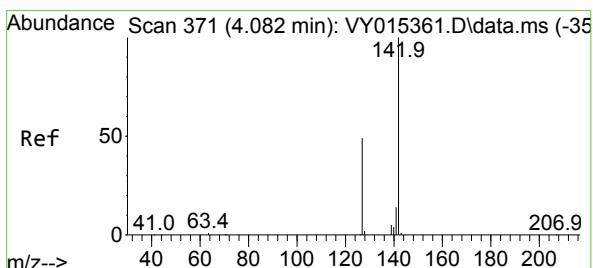
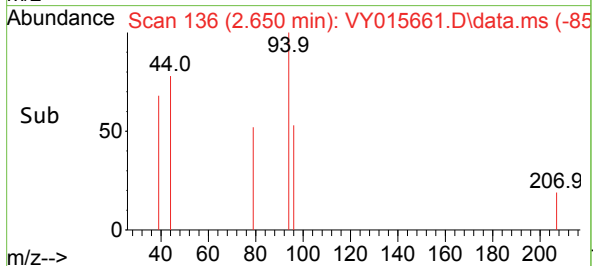
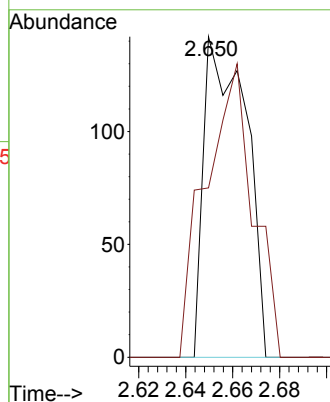
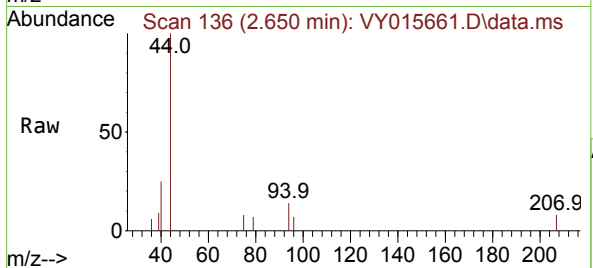




#5
Bromomethane
Concen: 3.598 ug/l
RT: 2.650 min Scan# 11
Delta R.T. 0.013 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

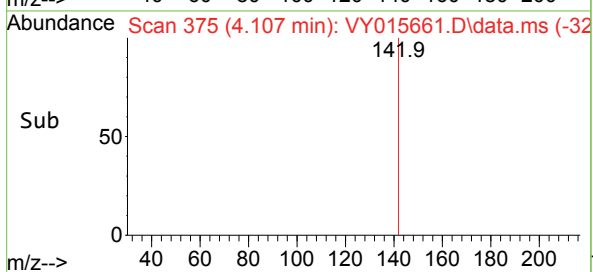
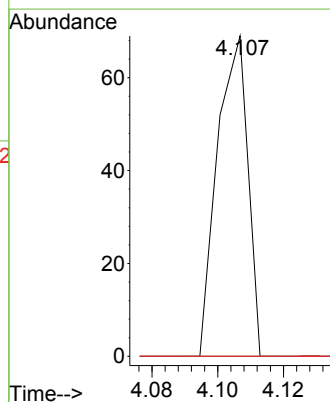
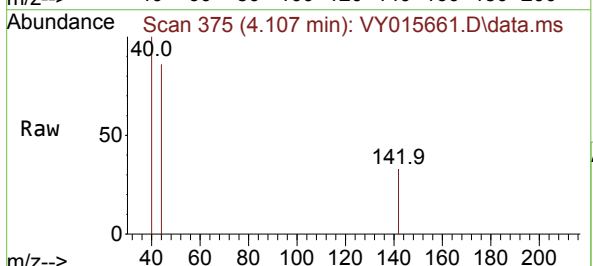
Instrument :
MSVOA_Y
ClientSampleId :

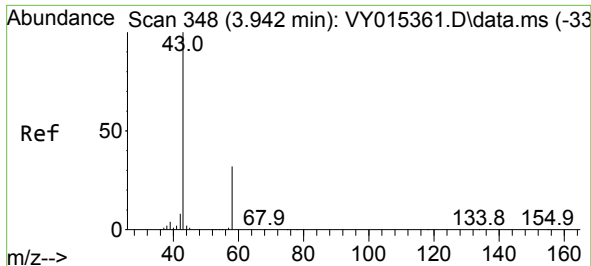
Tgt Ion: 94 Resp: 177
Ion Ratio Lower Upper
94 100
96 52.8 75.8 113.6#



#10
Methyl Iodide
Concen: 2.936 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.025 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion:142 Resp: 44
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.8 17.8#

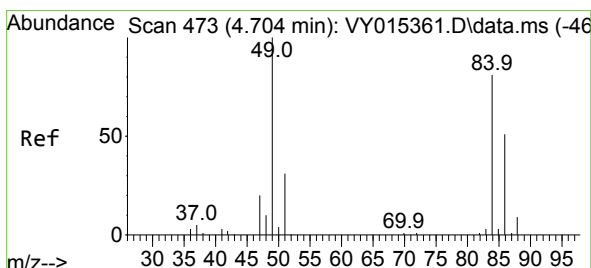
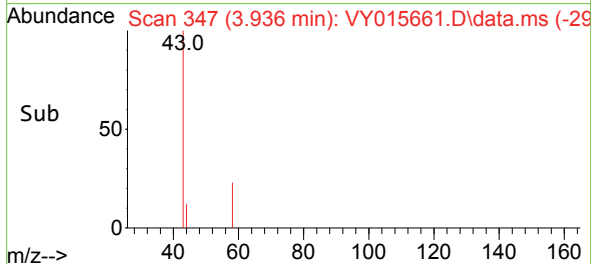
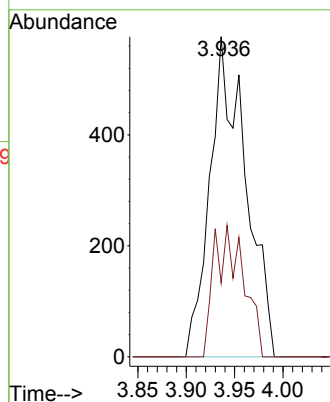
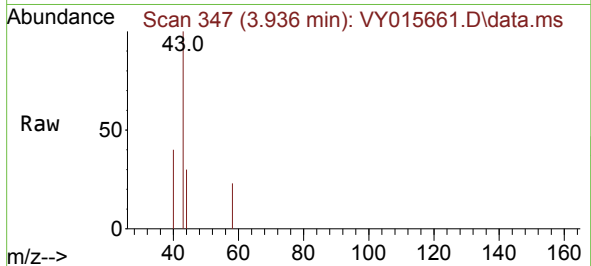




#16
Acetone
Concen: 14.666 ug/l
RT: 3.936 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

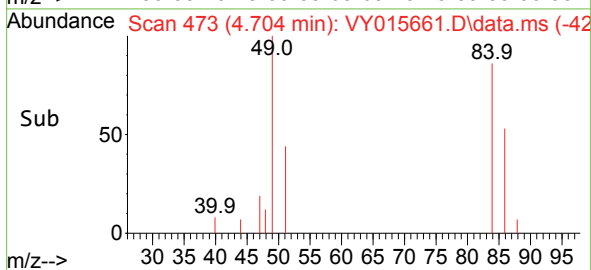
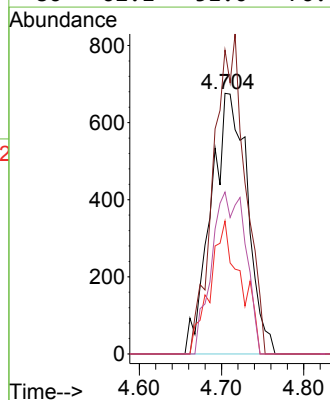
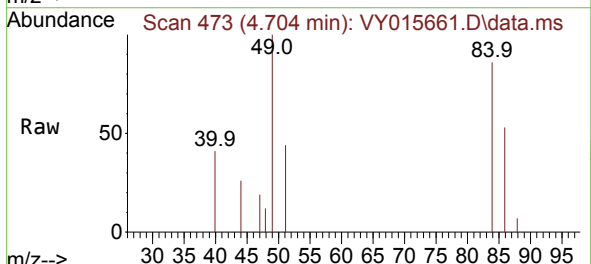
Instrument :
MSVOA_Y
ClientSampleId :

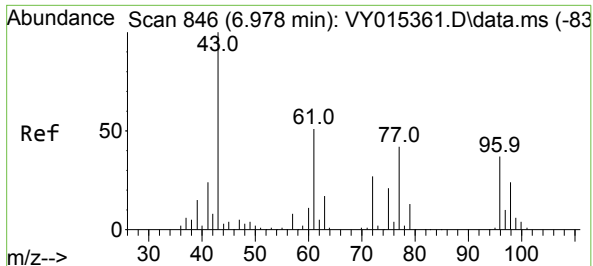
Tgt Ion: 43 Resp: 1478
Ion Ratio Lower Upper
43 100
58 23.1 22.7 34.1



#20
Methylene Chloride
Concen: 5.096 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion: 84 Resp: 2084
Ion Ratio Lower Upper
84 100
49 116.6 106.9 160.3
51 51.0 33.2 49.8#
86 62.1 51.0 76.6





#25

2-Butanone

Concen: 3.847 ug/l

RT: 6.984 min Scan# 846

Delta R.T. 0.006 min

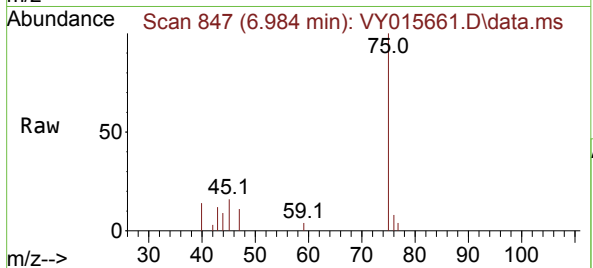
Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :

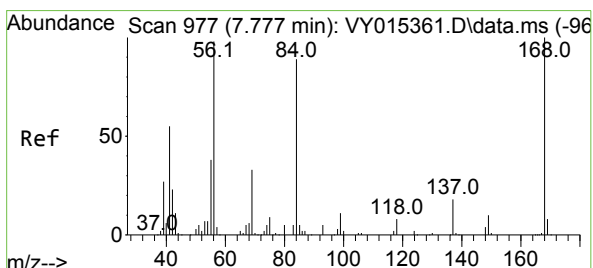
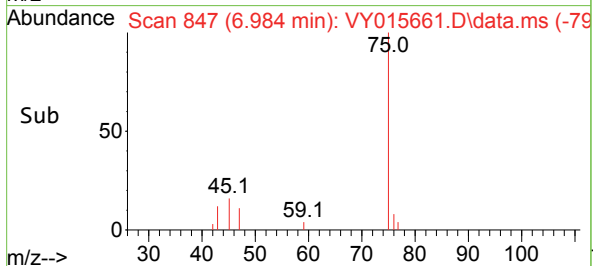
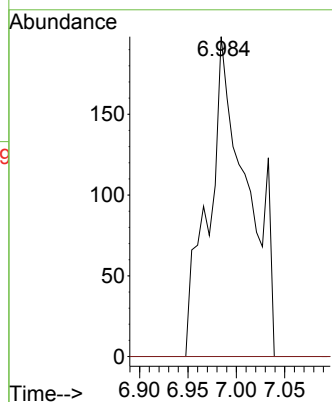


Tgt Ion: 43 Resp: 548

Ion Ratio Lower Upper

43 100

72 0.0 20.5 30.7#



#31

Cyclohexane

Concen: 1.610 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

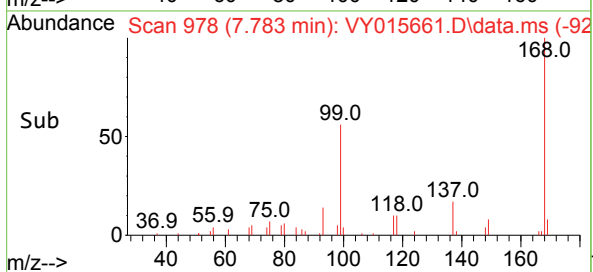
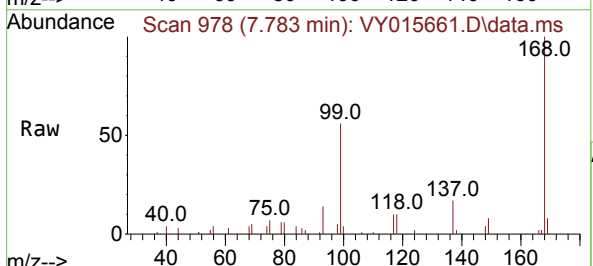
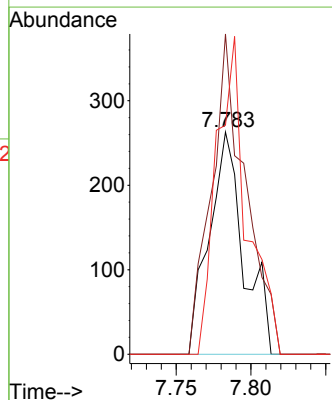
Tgt Ion: 56 Resp: 420

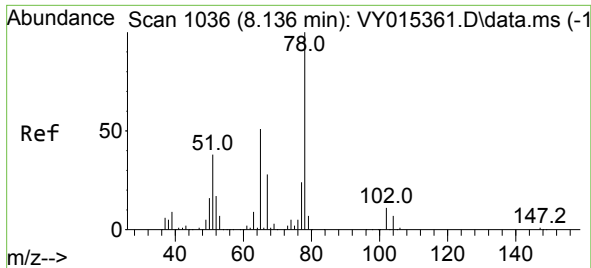
Ion Ratio Lower Upper

56 100

69 144.1 27.8 41.6#

84 103.0 66.4 99.6#

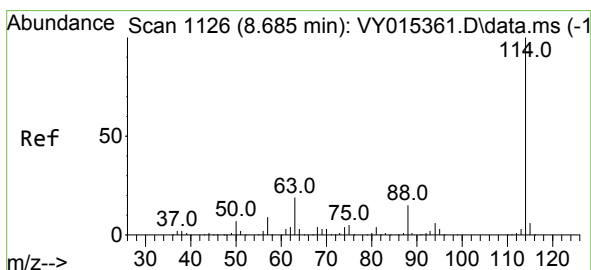
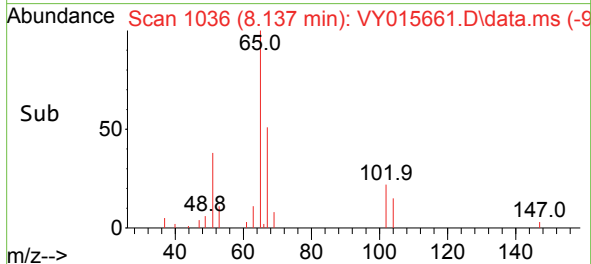
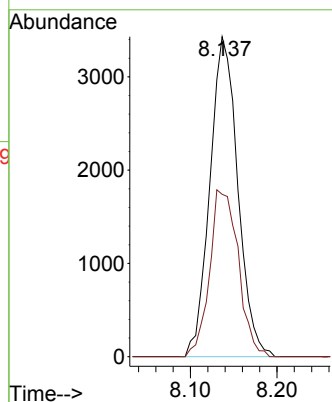
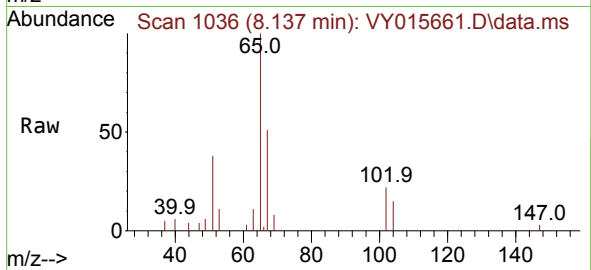




#33
 1,2-Dichloroethane-d4
 Concen: 40.789 ug/l
 RT: 8.137 min Scan# 1036
 Delta R.T. 0.001 min
 Lab File: VY015661.D
 Acq: 20 Sep 2023 16:06

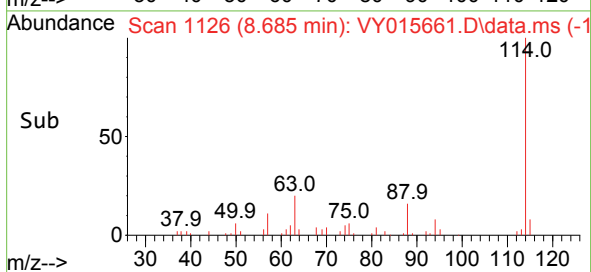
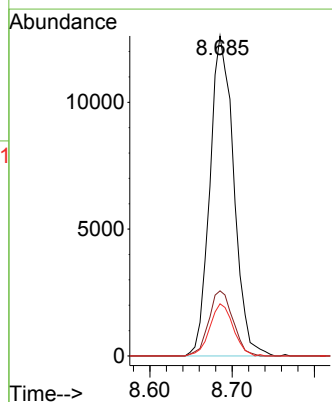
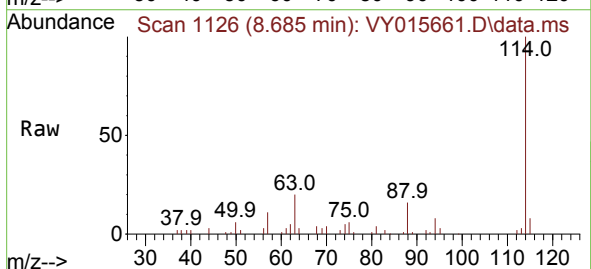
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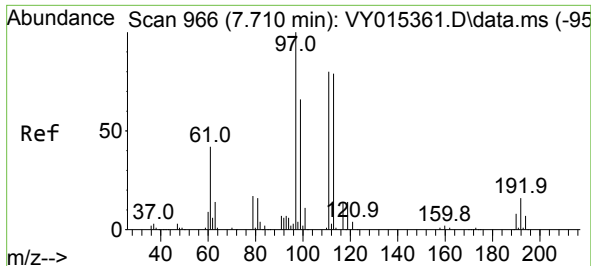
Tgt Ion: 65 Resp: 7681
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY015661.D
 Acq: 20 Sep 2023 16:06

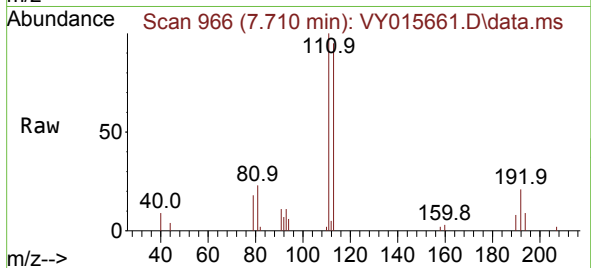
Tgt Ion: 114 Resp: 25455
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.4
 88 16.3 0.0 30.6



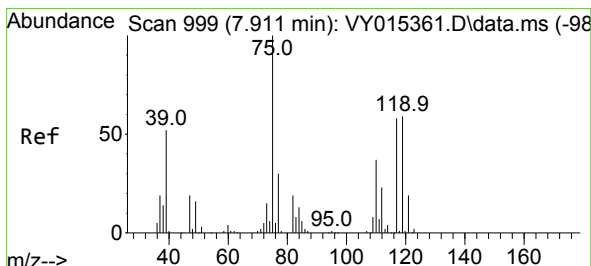
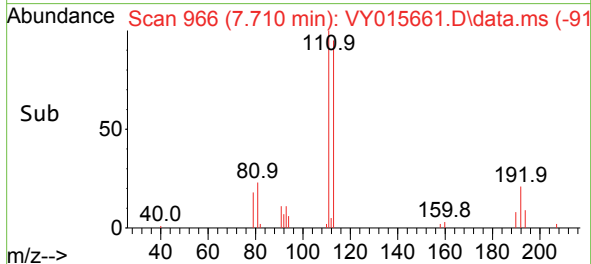
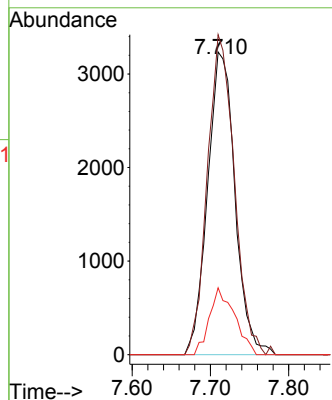


#35
Dibromofluoromethane
Concen: 51.563 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

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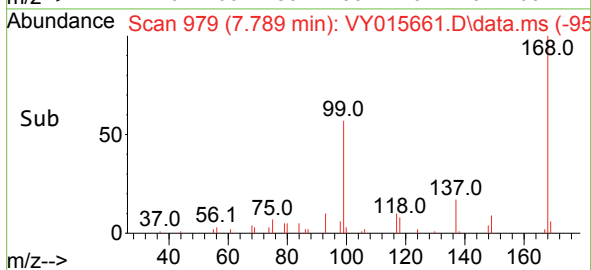
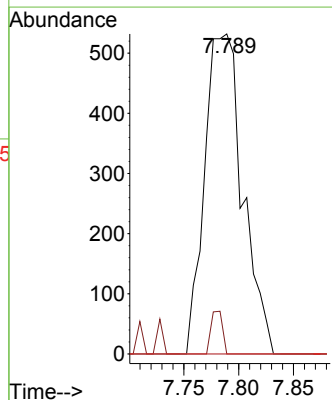
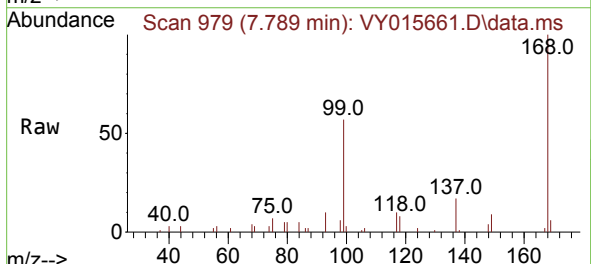


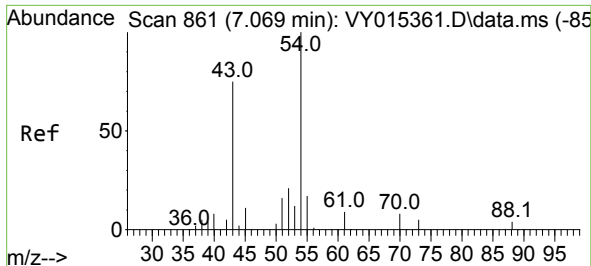
Tgt Ion:113 Resp: 7856
Ion Ratio Lower Upper
113 100
111 103.8 81.3 121.9
192 20.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.704 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.122 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion: 75 Resp: 1285
Ion Ratio Lower Upper
75 100
110 4.0 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.439 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.079 min

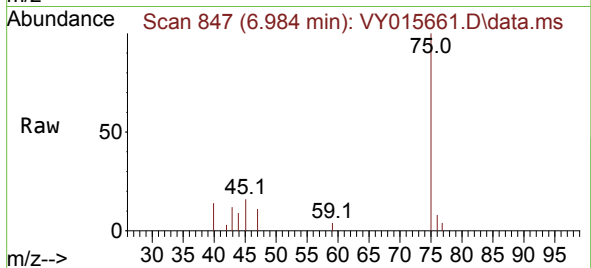
Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :



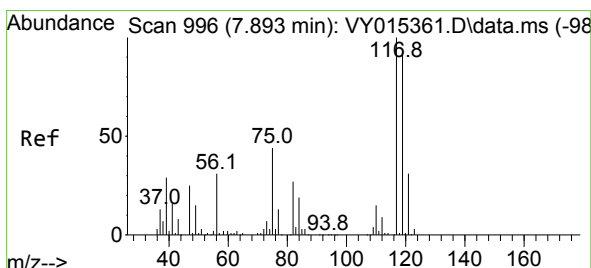
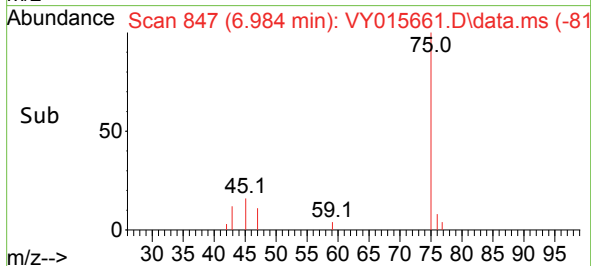
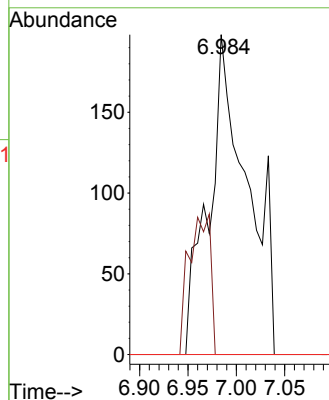
Tgt Ion: 43 Resp: 548

Ion Ratio Lower Upper

43 100

61 24.6 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.560 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.104 min

Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

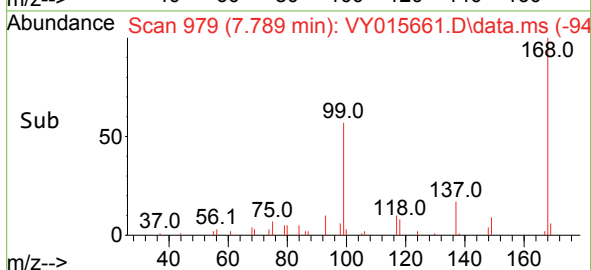
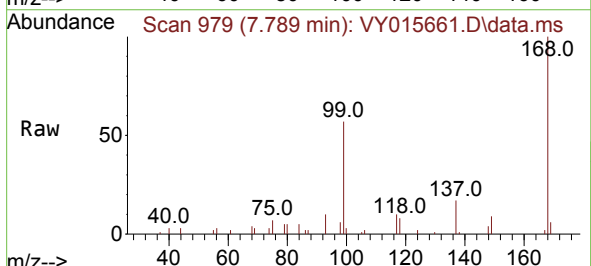
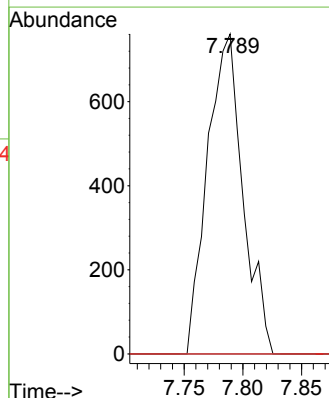
Tgt Ion: 117 Resp: 1604

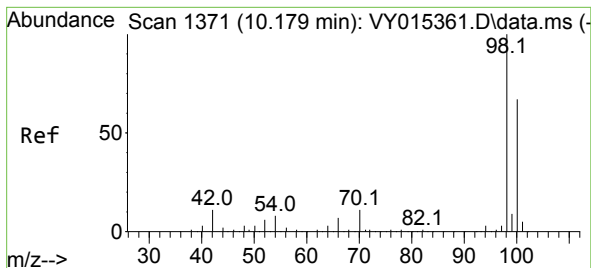
Ion Ratio Lower Upper

117 100

119 0.0 76.4 114.6#

121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 55.534 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

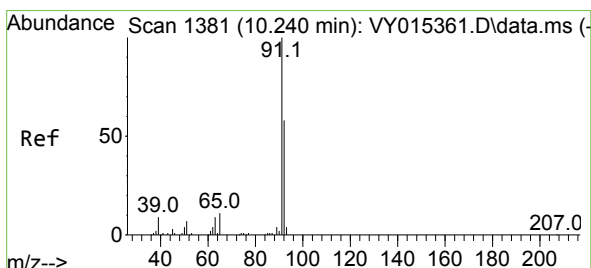
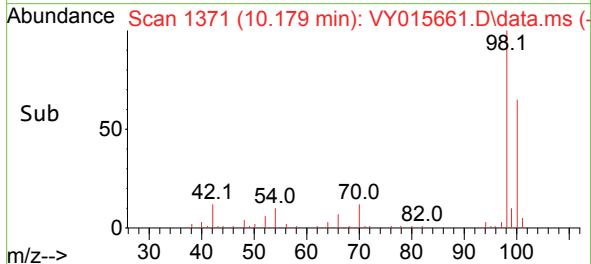
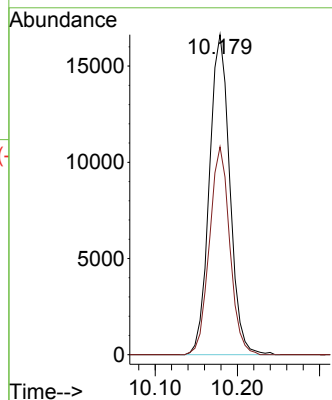
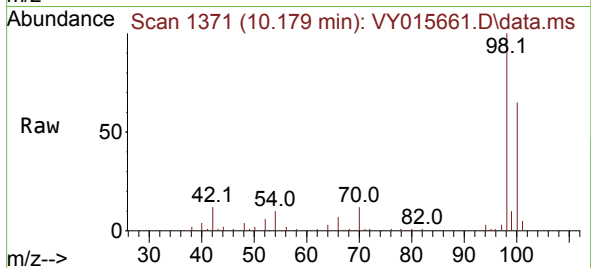
ClientSampleId :

Tgt Ion: 98 Resp: 28688

Ion Ratio Lower Upper

98 100

100 64.5 50.1 75.1



#52

Toluene

Concen: 9.201 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VY015661.D

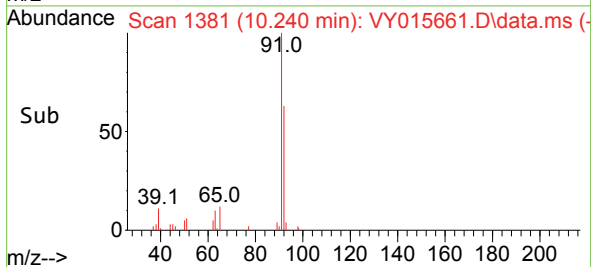
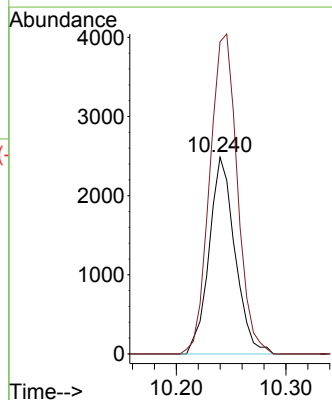
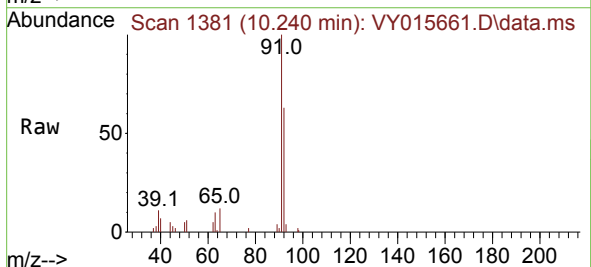
Acq: 20 Sep 2023 16:06

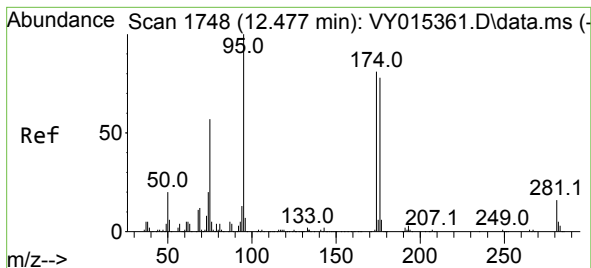
Tgt Ion: 92 Resp: 4075

Ion Ratio Lower Upper

92 100

91 173.5 143.8 215.6

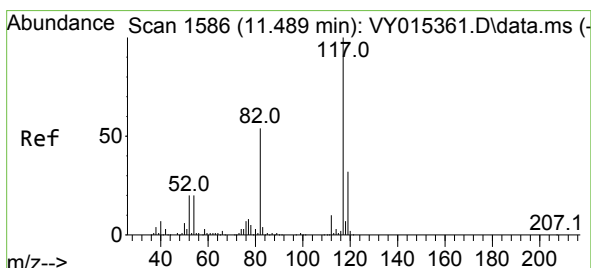
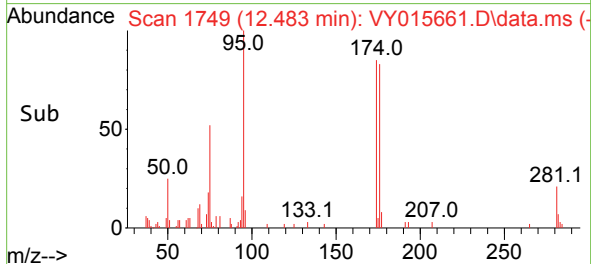
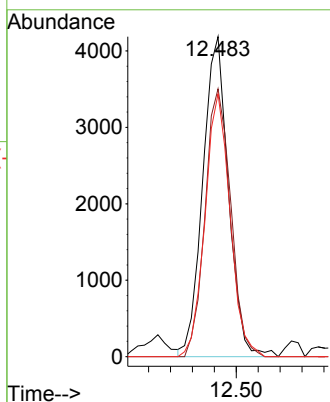
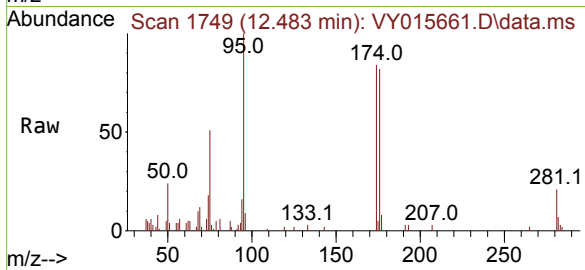




#62
4-Bromofluorobenzene
Concen: 33.474 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

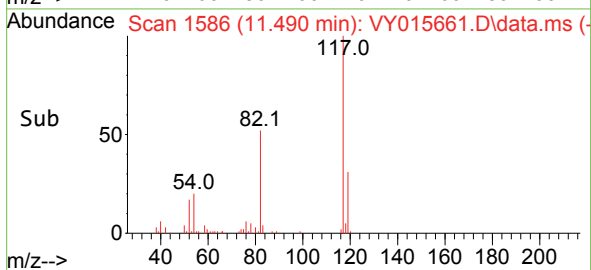
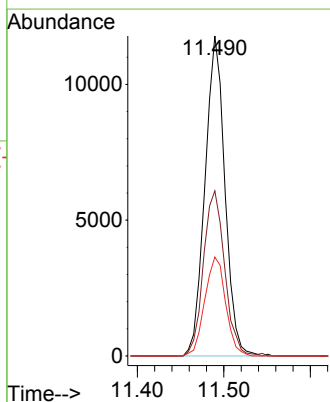
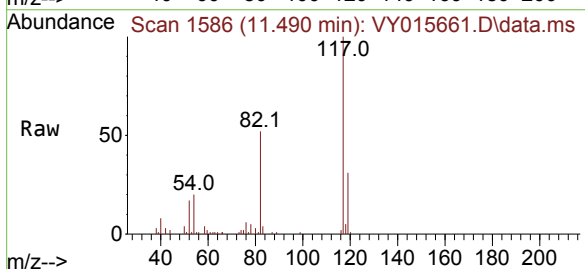
Instrument :
MSVOA_Y
ClientSampleId :

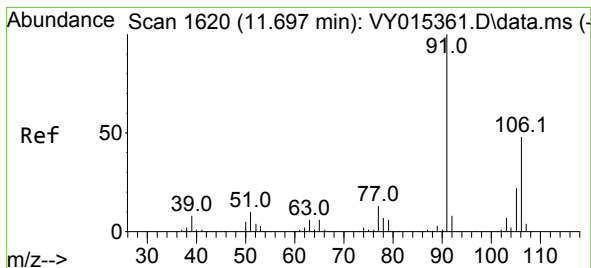
Tgt Ion: 95 Resp: 6786
Ion Ratio Lower Upper
95 100
174 83.8 0.0 178.2
176 80.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.001 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion: 117 Resp: 18828
Ion Ratio Lower Upper
117 100
82 51.6 43.4 65.0
119 30.9 26.3 39.5

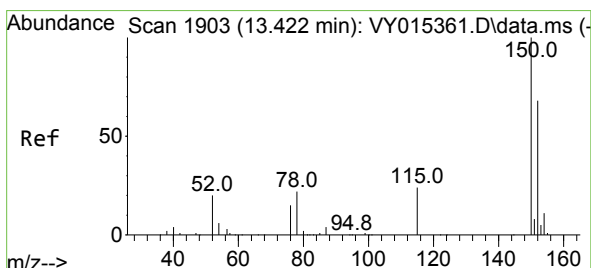
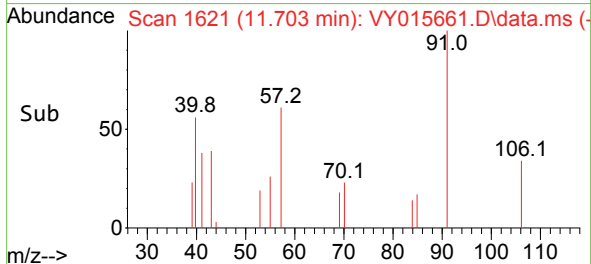
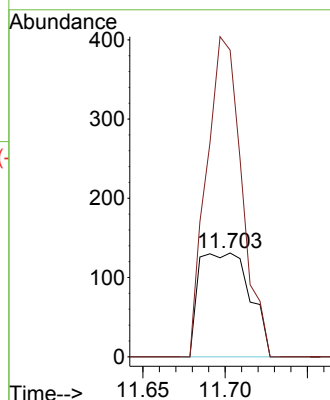
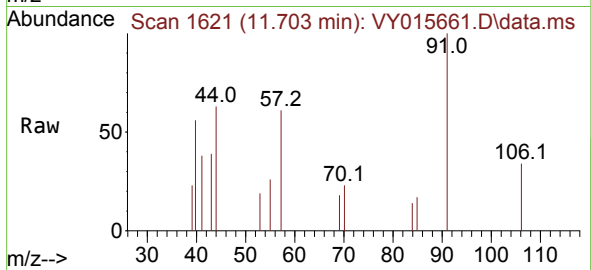




#68
m/p-Xylenes
Concen: 1.033 ug/l
RT: 11.703 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

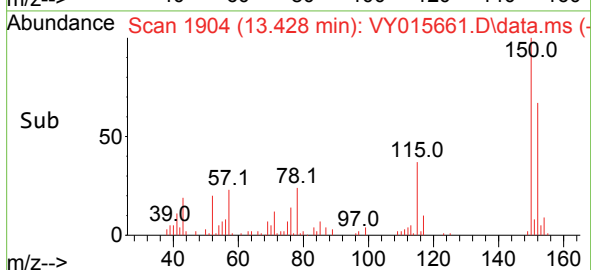
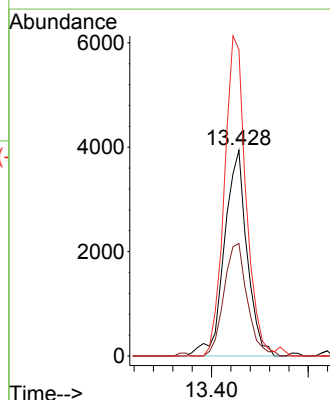
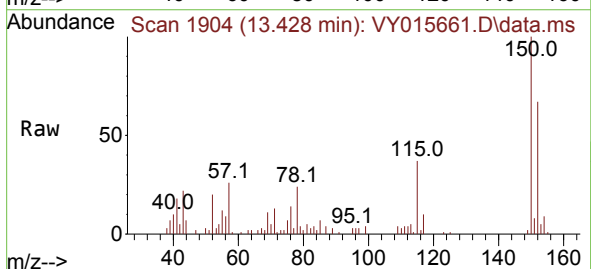
Instrument :
MSVOA_Y
ClientSampleId :

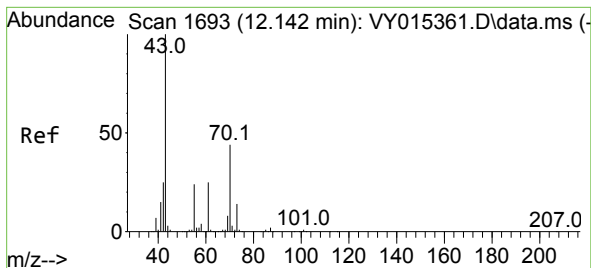
Tgt Ion:106 Resp: 282
Ion Ratio Lower Upper
106 100
91 213.1 166.1 249.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion:152 Resp: 6409
Ion Ratio Lower Upper
152 100
115 56.3 28.8 86.5
150 149.4 0.0 348.8





#74

N-amy1 acetate

Concen: 1.489 ug/l

RT: 12.118 min Scan# 1

Delta R.T. -0.024 min

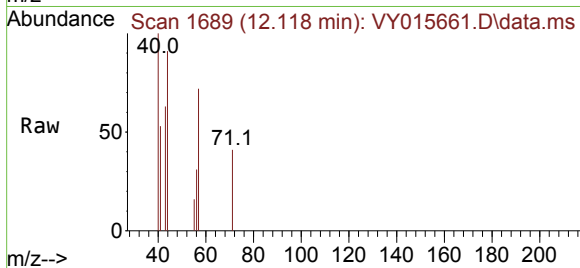
Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43 Resp: 269

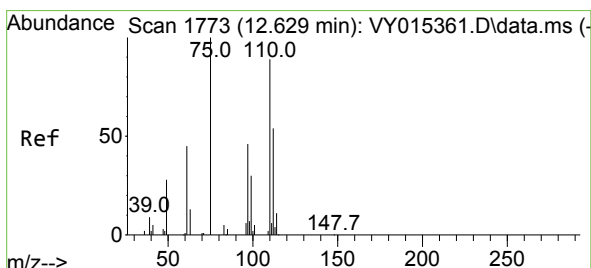
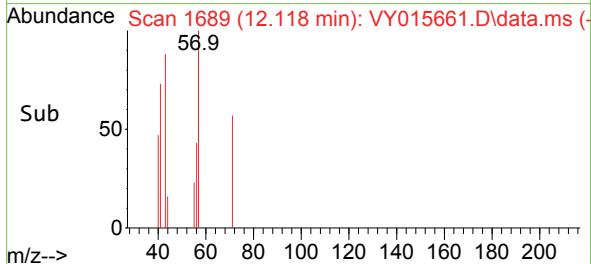
Ion Ratio Lower Upper

43 100

70 0.0 29.7 44.5#

55 38.7 18.3 27.5#

61 0.0 17.5 26.3#



#76

1,2,3-Trichloropropane

Concen: 35.542 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY015661.D

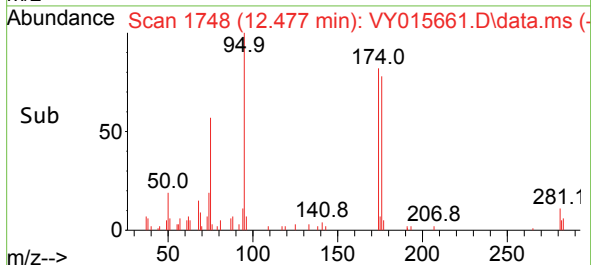
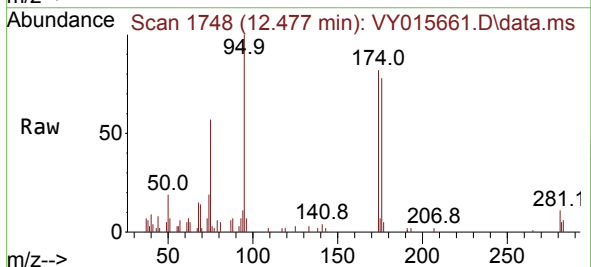
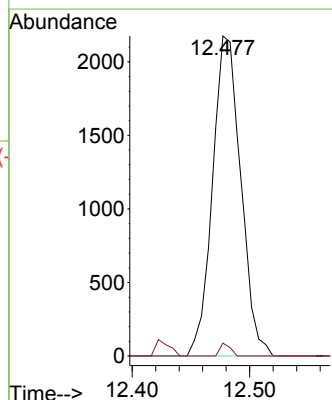
Acq: 20 Sep 2023 16:06

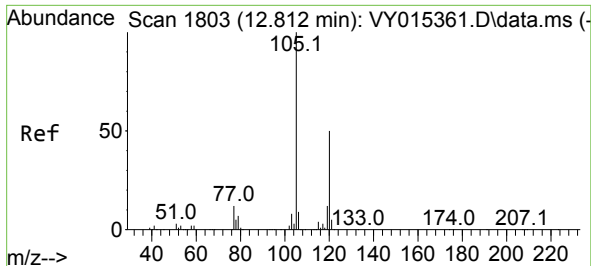
Tgt Ion: 75 Resp: 3634

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

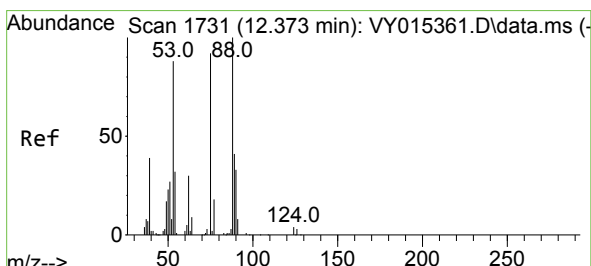
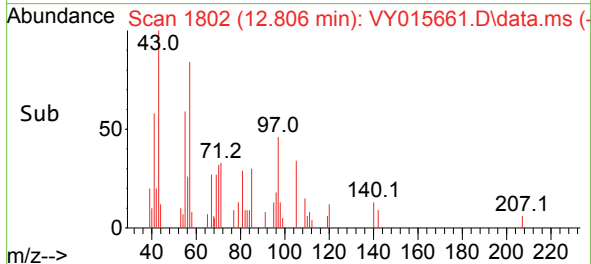
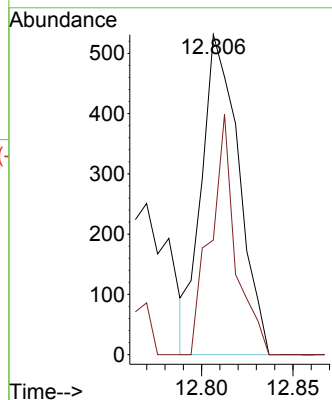
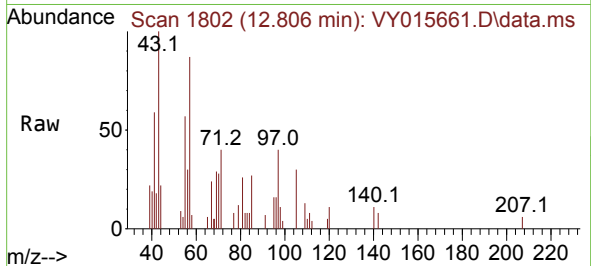




#80
 1,3,5-Trimethylbenzene
 Concen: 1.866 ug/l
 RT: 12.806 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VY015661.D
 Acq: 20 Sep 2023 16:06

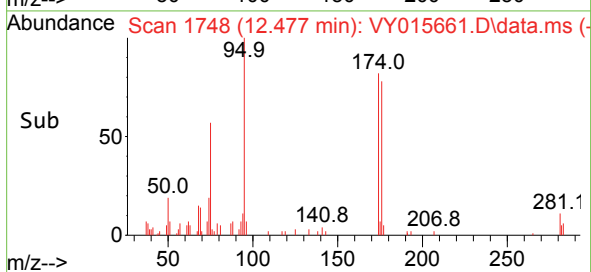
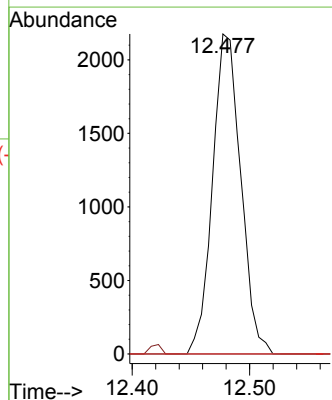
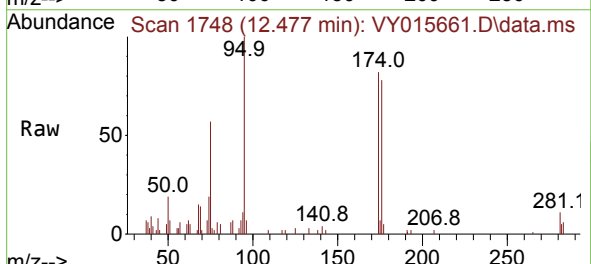
Instrument :
 MSVOA_Y
 ClientSampleId :

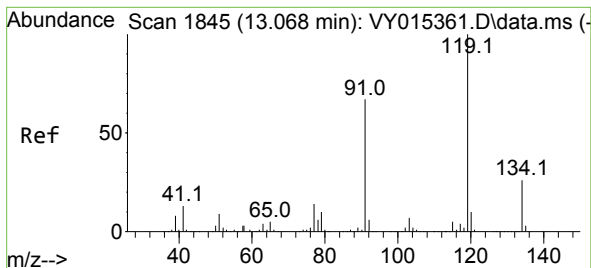
Tgt Ion:105 Resp: 751
 Ion Ratio Lower Upper
 105 100
 120 51.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.037 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. 0.097 min
 Lab File: VY015661.D
 Acq: 20 Sep 2023 16:06

Tgt Ion: 75 Resp: 3634
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.8 116.8#
 89 0.0 37.4 56.0#





#83

tert-Butylbenzene

Concen: 1.013 ug/l

RT: 13.312 min Scan# 1885

Delta R.T. 0.237 min

Lab File: VY015661.D

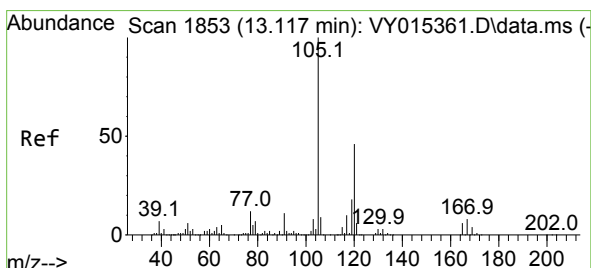
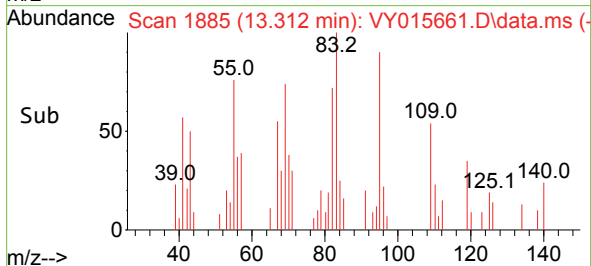
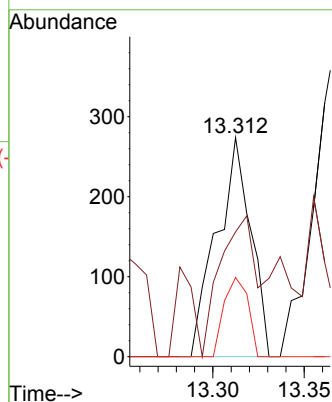
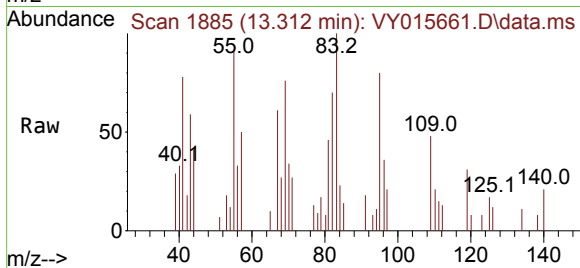
Acq: 20 Sep 2023 16:06

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	119	Resp:	357
Ion	Ratio	Lower	Upper
119	100		
91	75.9	32.9	98.6
134	25.5	13.0	38.9



#84

1,2,4-Trimethylbenzene

Concen: 2.538 ug/l

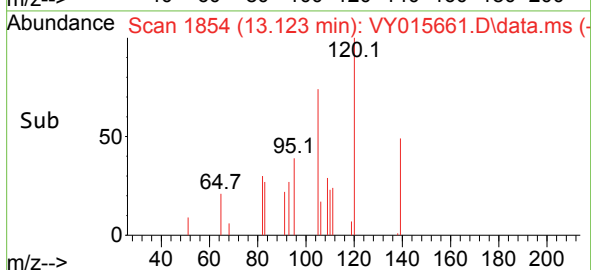
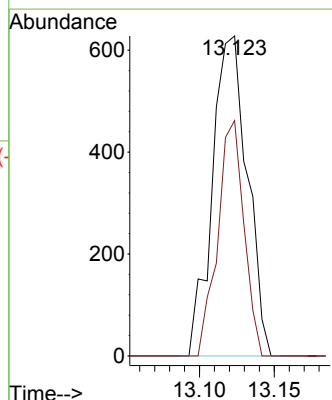
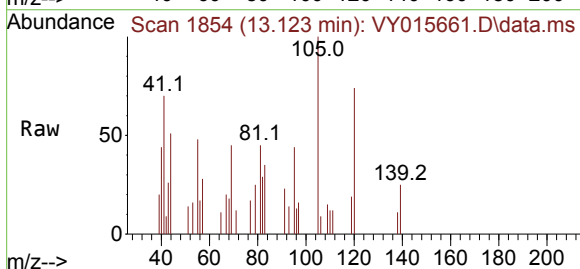
RT: 13.123 min Scan# 1854

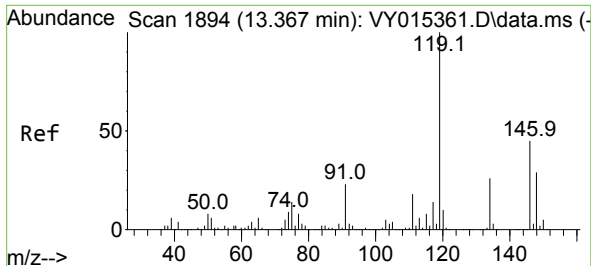
Delta R.T. 0.006 min

Lab File: VY015661.D

Acq: 20 Sep 2023 16:06

Tgt Ion:	105	Resp:	1022
Ion	Ratio	Lower	Upper
105	100		
120	55.1	22.2	66.6

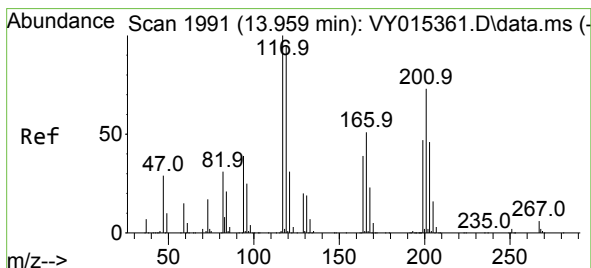
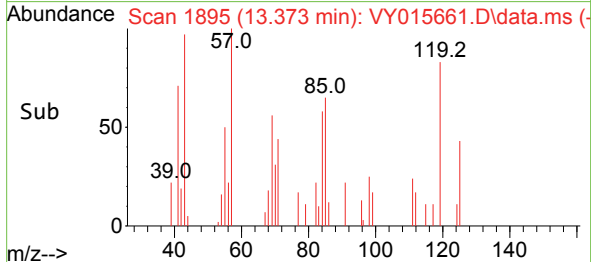
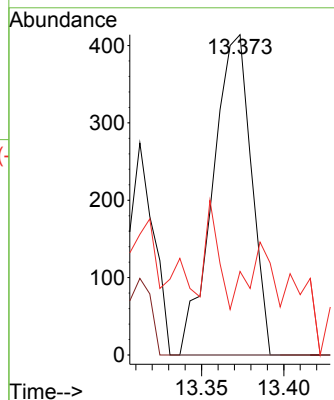
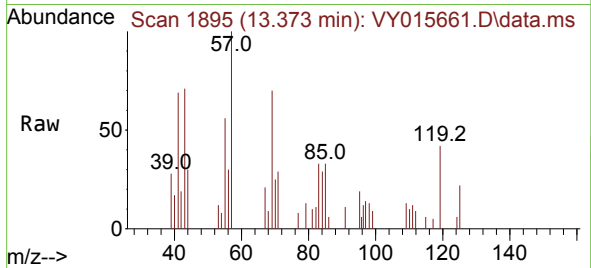




#86
p-Isopropyltoluene
Concen: 1.525 ug/l
RT: 13.373 min Scan# 119
Delta R.T. 0.006 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

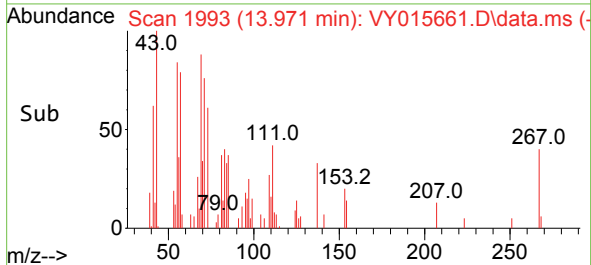
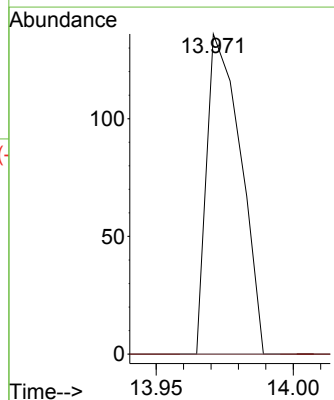
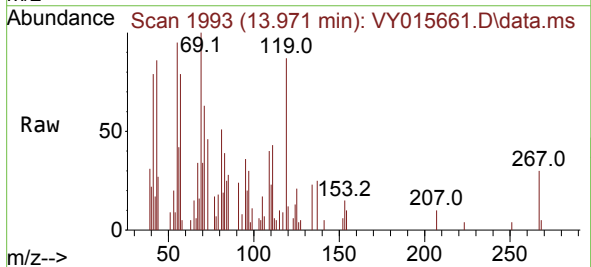
Instrument :
MSVOA_Y
ClientSampleId :

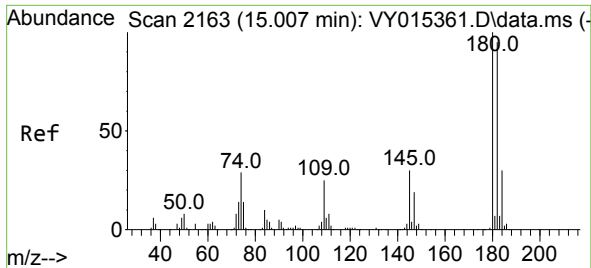
Tgt Ion:119 Resp: 672
Ion Ratio Lower Upper
119 100
134 0.0 13.3 39.8#
91 12.6 12.4 37.4



#90
Hexachloroethane
Concen: 1.376 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

Tgt Ion:117 Resp: 117
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

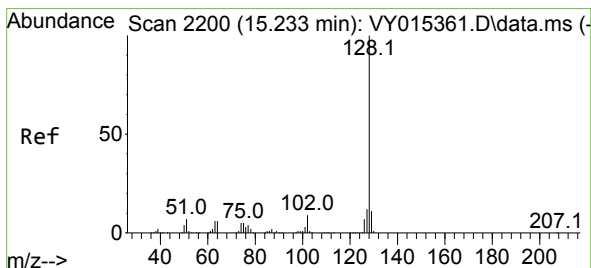
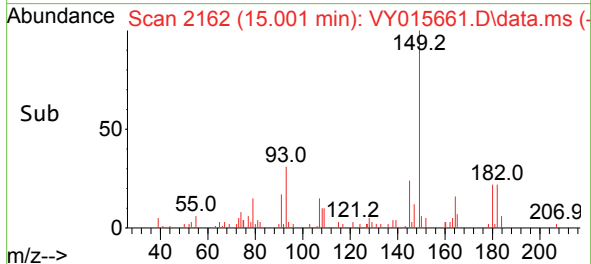
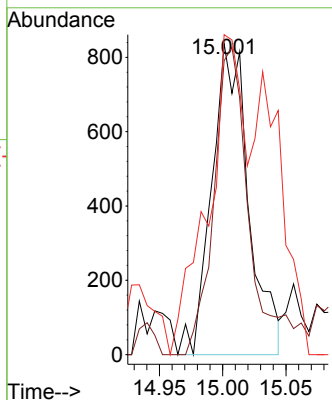
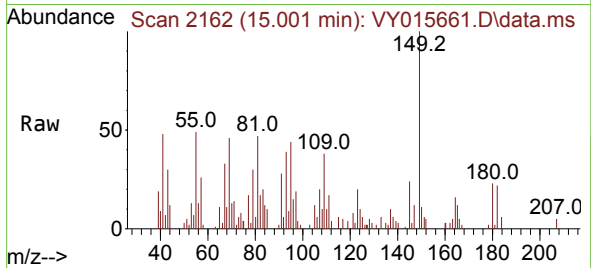




#93
1,2,4-Trichlorobenzene
Concen: 12.524 ug/l
RT: 15.001 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

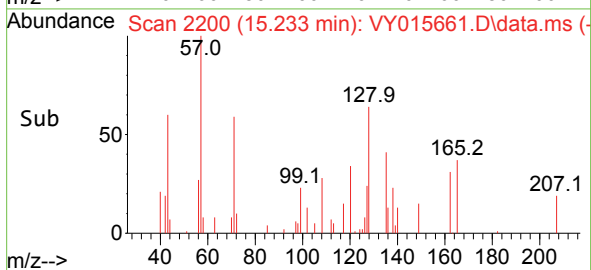
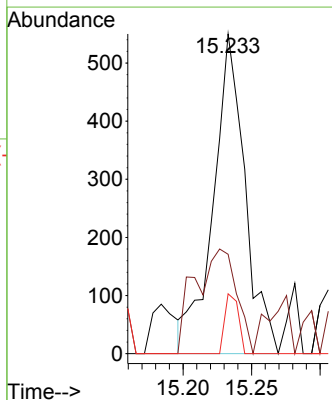
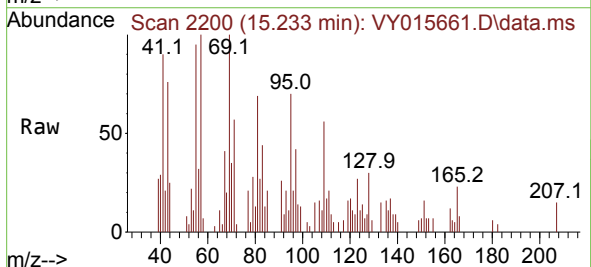
Instrument :
MSVOA_Y
ClientSampleId :

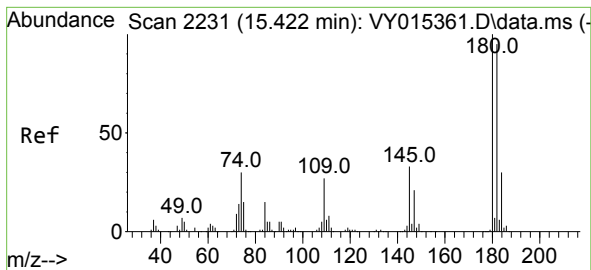
Tgt Ion:180 Resp: 1704
Ion Ratio Lower Upper
180 100
182 96.8 47.0 141.2
145 100.6 14.5 43.5#



#95
Naphthalene
Concen: 2.492 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.000 min
Lab File: VY015661.D
Acq: 20 Sep 2023 16:06

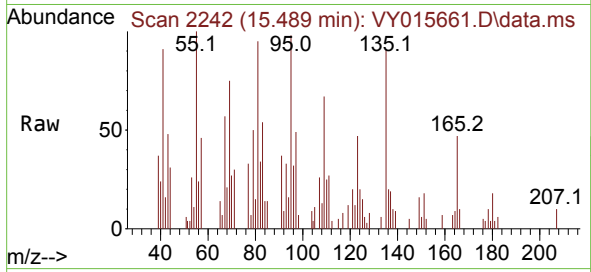
Tgt Ion:128 Resp: 884
Ion Ratio Lower Upper
128 100
127 43.0 10.8 16.2#
129 8.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.572 ug/l
 RT: 15.489 min Scan# 21
 Delta R.T. 0.067 min
 Lab File: VY015661.D
 Acq: 20 Sep 2023 16:06

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	180	Resp:	323
Ion Ratio	Lower	Upper	
180	100		
182	98.5	47.3	141.8
145	22.9	15.4	46.2

