

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082523\
 Data File : VY015347.D
 Acq On : 25 Aug 2023 17:03
 Operator : SY/MD
 Sample : 04147-01
 Misc : 5.16g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 23:44:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

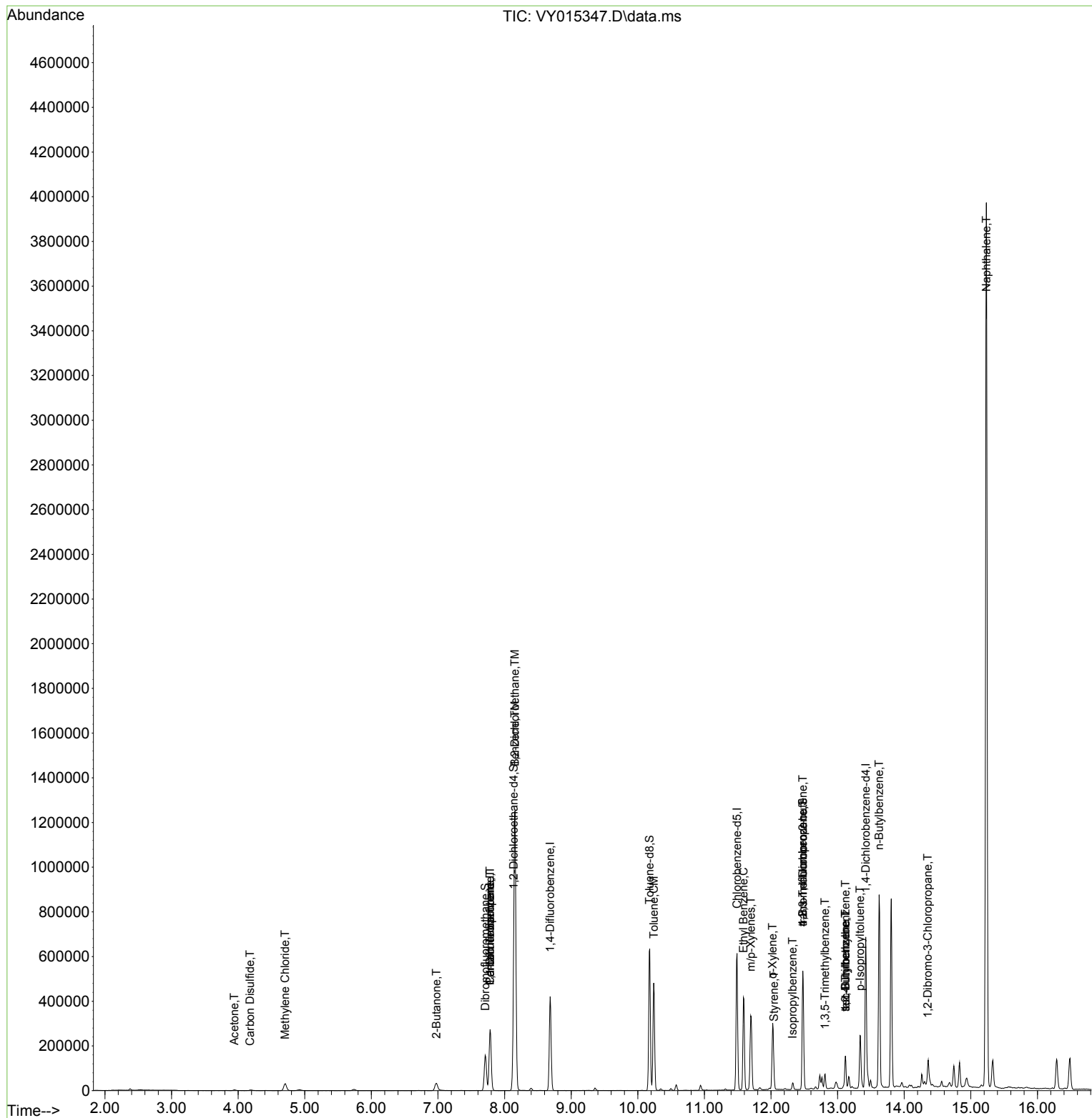
Internal Standards						
1) Pentafluorobenzene	7.783	168	212421	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	353391	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	328871	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	167202	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	137078	53.758	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.520%			
35) Dibromofluoromethane	7.710	113	110673	48.680	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.360%			
50) Toluene-d8	10.179	98	412944	48.793	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.580%			
62) 4-Bromofluorobenzene	12.477	95	153923	49.794	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.580%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	303	Below Cal	#	84
5) Bromomethane	2.631	94	44	Below Cal	#	79
11) Tert butyl alcohol	4.917	59	4474	Below Cal	#	89
16) Acetone	3.942	43	6133	7.362	ug/l #	64
17) Carbon Disulfide	4.180	76	3955	1.520	ug/l #	84
20) Methylene Chloride	4.704	84	23325	8.054	ug/l #	87
25) 2-Butanone	6.978	43	2960	2.510	ug/l #	81
31) Cyclohexane	7.783	56	4448	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	16045	6.379	ug/l #	50
38) Carbon Tetrachloride	7.783	117	21043	7.069	ug/l #	15
40) Benzene	8.155	78	1182821	155.546	ug/l	99
42) 1,2-Dichloroethane	8.155	62	10863	3.933	ug/l	83
52) Toluene	10.240	92	202153	40.333	ug/l	94
67) Ethyl Benzene	11.587	91	285409	27.185	ug/l	98
68) m/p-Xylenes	11.697	106	105921	26.564	ug/l	94
69) o-Xylene	12.026	106	74766	18.822	ug/l	97
70) Styrene	12.044	104	26087	3.794	ug/l #	65
73) Isopropylbenzene	12.325	105	18325	1.704	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	83975	41.339	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	31470	3.511	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	83975	90.800	ug/l #	11
83) tert-Butylbenzene	13.117	119	9954	1.214	ug/l #	57
84) 1,2,4-Trimethylbenzene	13.117	105	76283	8.518	ug/l	99
85) sec-Butylbenzene	13.117	105	76283	6.351	ug/l #	56
86) p-Isopropyltoluene	13.337	119	20030	2.011	ug/l #	68
89) n-Butylbenzene	13.623	91	70624	7.522	ug/l #	44
92) 1,2-Dibromo-3-Chloropr...	14.355	75	2960	5.457	ug/l #	8
95) Naphthalene	15.233	128	3192070	411.033	ug/l	99

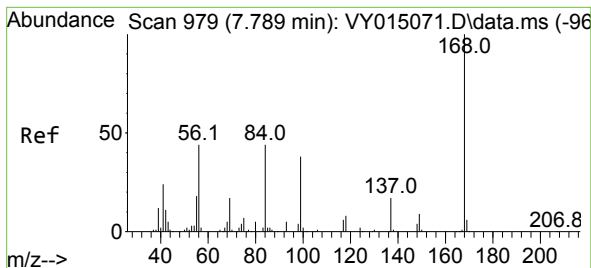
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082523\
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Quant Title : SW846 8260
QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

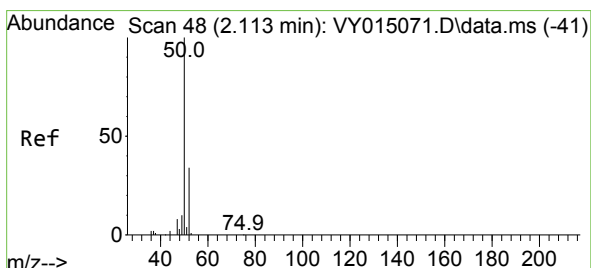
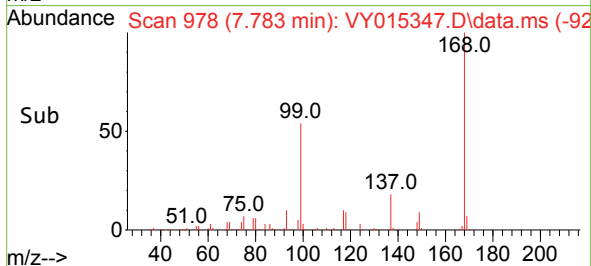
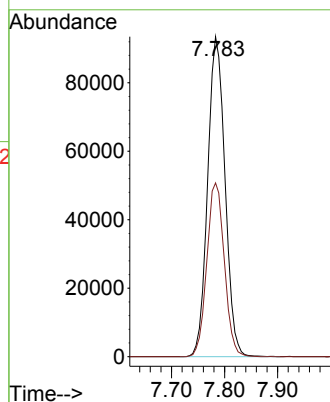
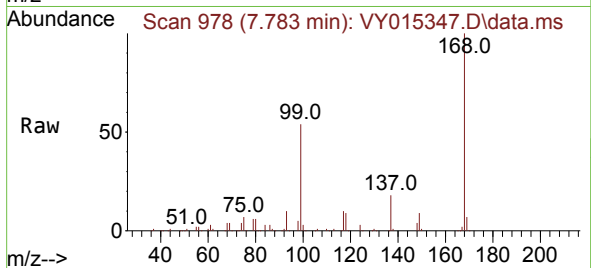
ClientSampleId :

Tgt Ion:168 Resp: 212421

Ion Ratio Lower Upper

168 100

99 54.3 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 47

Delta R.T. 0.000 min

Lab File: VY015347.D

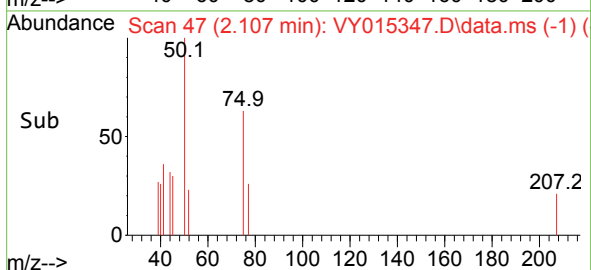
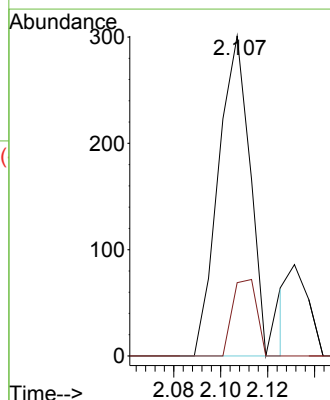
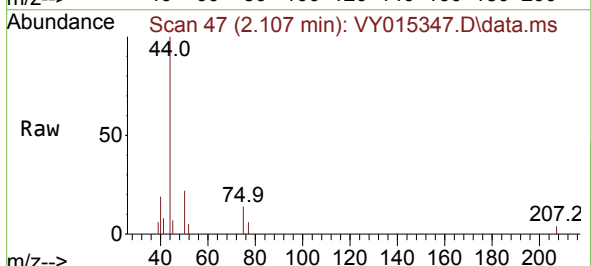
Acq: 25 Aug 2023 17:03

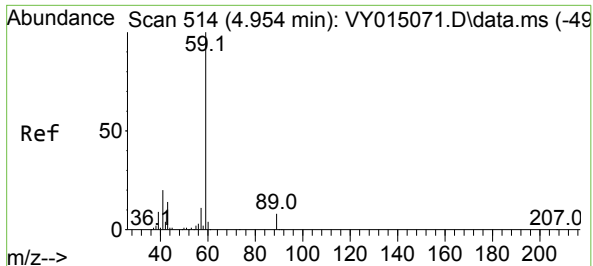
Tgt Ion: 50 Resp: 303

Ion Ratio Lower Upper

50 100

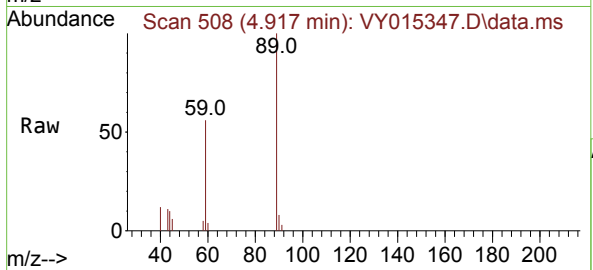
52 22.9 25.4 38.2#



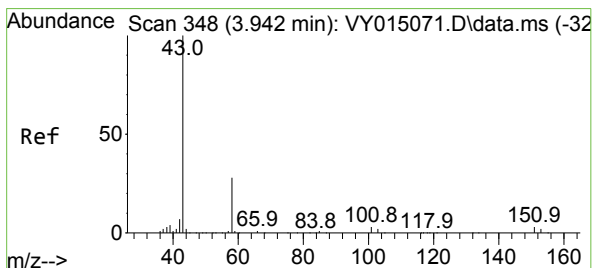
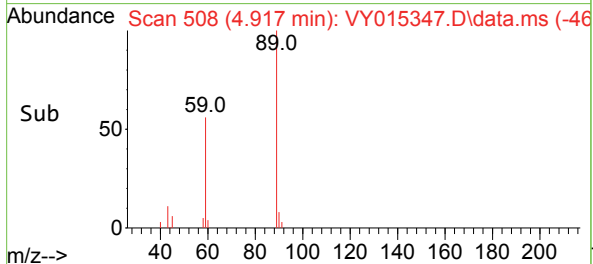
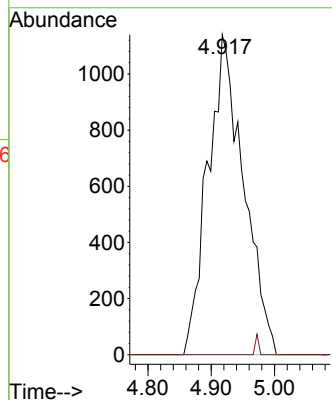


#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.917 min Scan# 508
Delta R.T. -0.031 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Instrument :
MSVOA_Y
ClientSampleId :

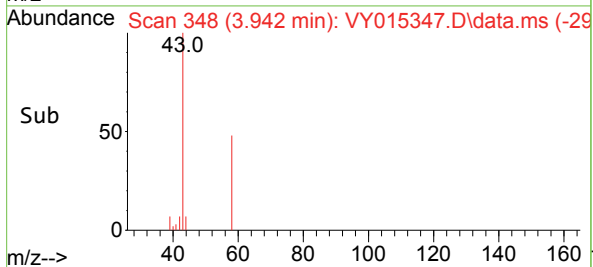
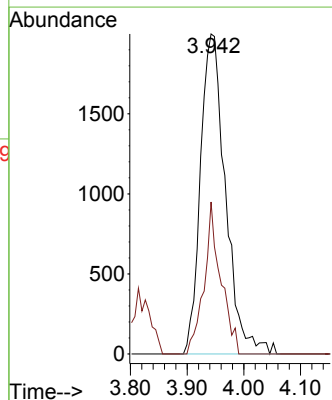
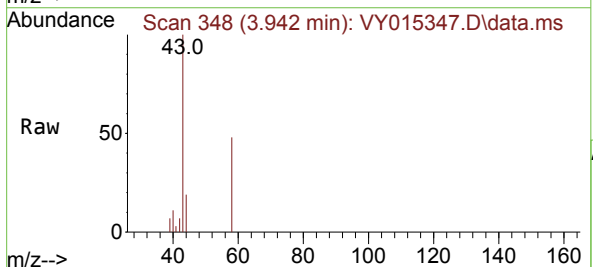


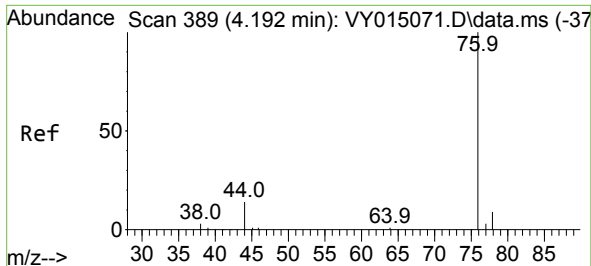
Tgt Ion: 59 Resp: 4474
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 7.362 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 43 Resp: 6133
Ion Ratio Lower Upper
43 100
58 47.5 22.7 34.1#

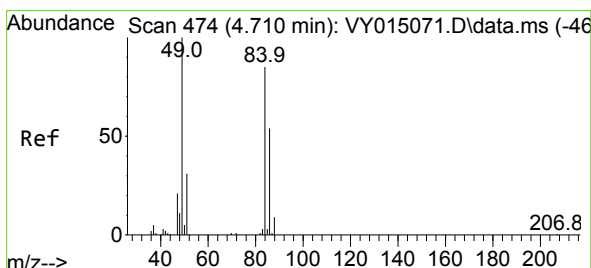
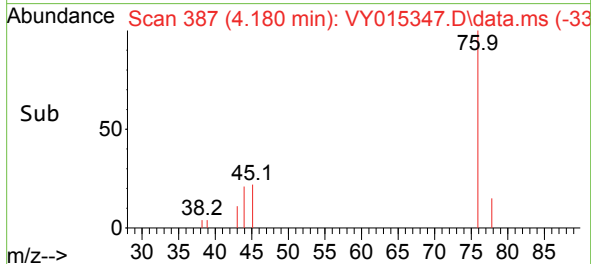
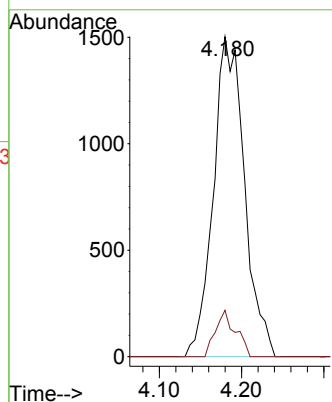
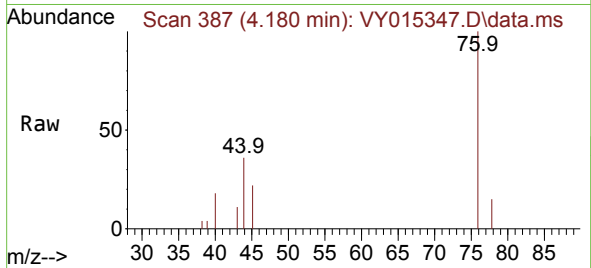




#17
Carbon Disulfide
Concen: 1.520 ug/l
RT: 4.180 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

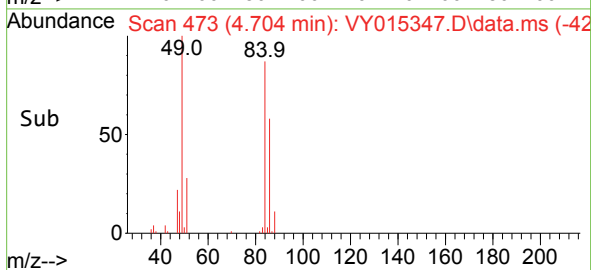
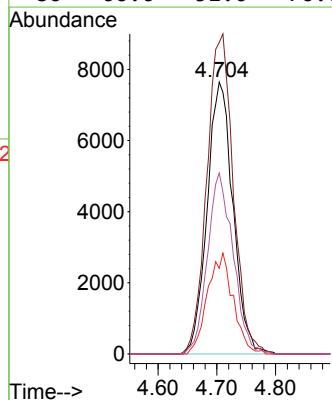
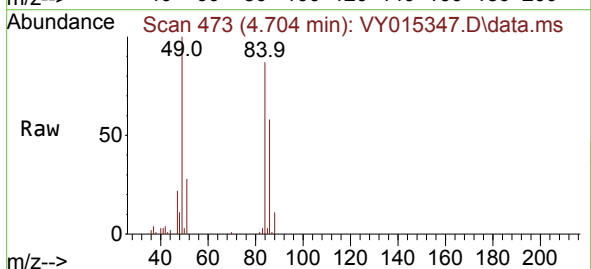
Instrument :
MSVOA_Y
ClientSampleId :

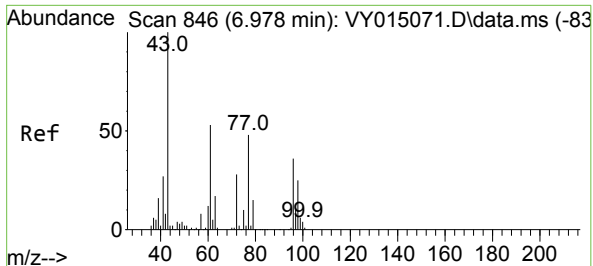
Tgt Ion: 76 Resp: 3955
Ion Ratio Lower Upper
76 100
78 14.5 7.0 10.4#



#20
Methylene Chloride
Concen: 8.054 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.006 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 84 Resp: 23325
Ion Ratio Lower Upper
84 100
49 114.6 106.9 160.3
51 31.5 33.2 49.8#
86 66.6 51.0 76.6

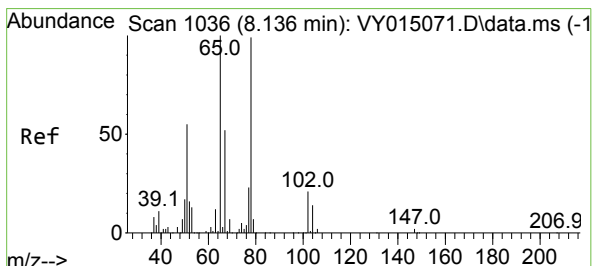
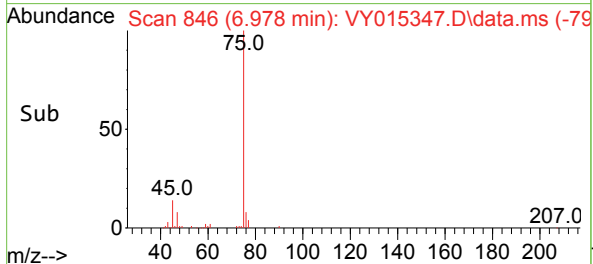
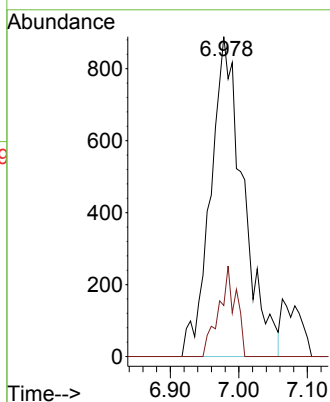
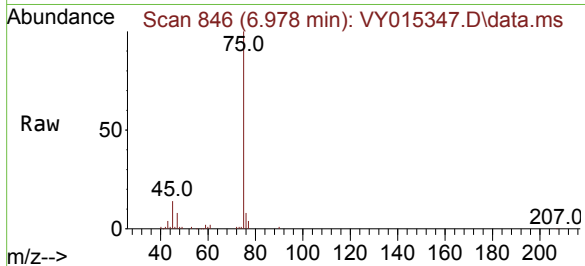




#25
2-Butanone
Concen: 2.510 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

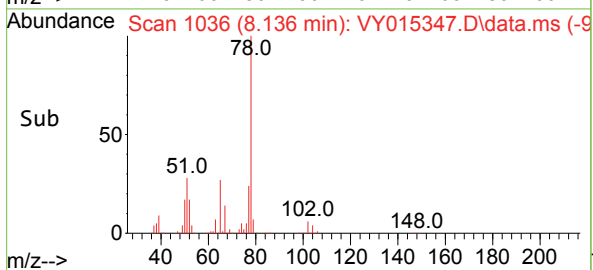
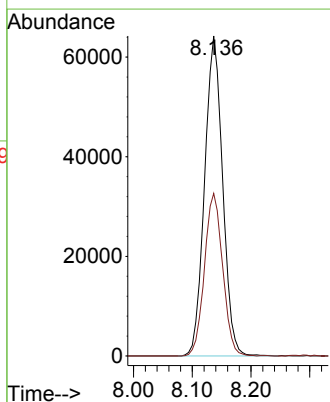
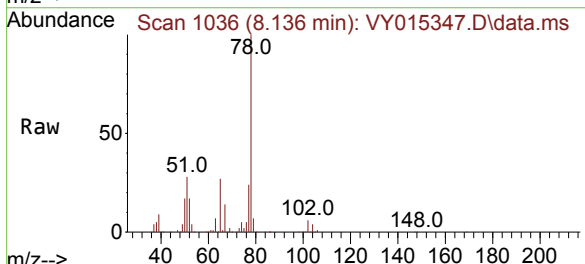
Instrument :
MSVOA_Y
ClientSampleId :

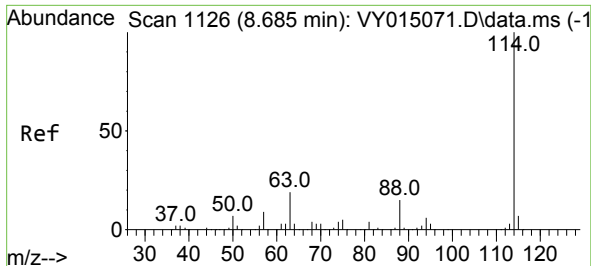
Tgt Ion: 43 Resp: 2960
Ion Ratio Lower Upper
43 100
72 16.0 20.5 30.7#



#33
1,2-Dichloroethane-d4
Concen: 53.758 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 65 Resp: 137078
Ion Ratio Lower Upper
65 100
67 51.1 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: VY015347.D

Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

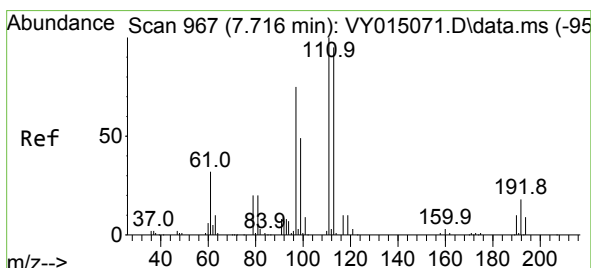
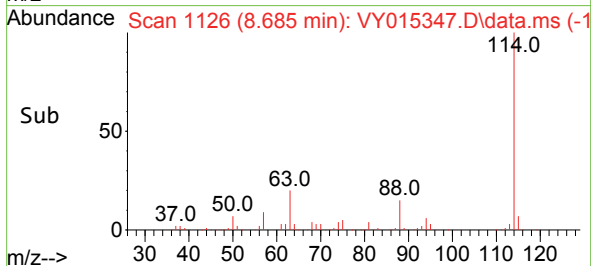
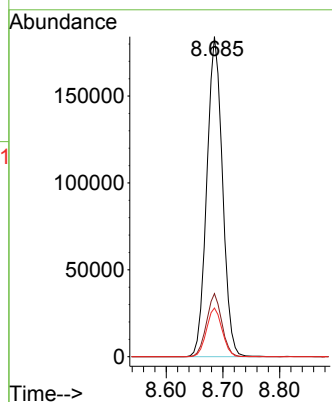
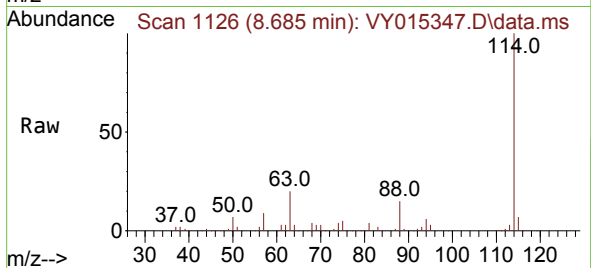
Tgt Ion:114 Resp: 353391

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.4

88 15.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.680 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.006 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

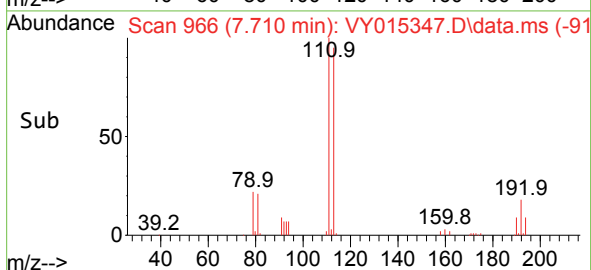
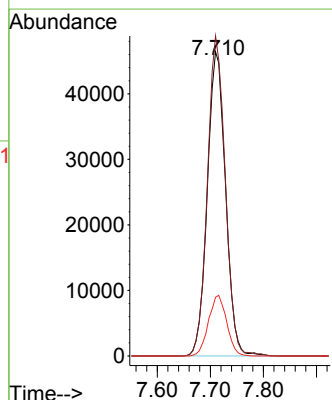
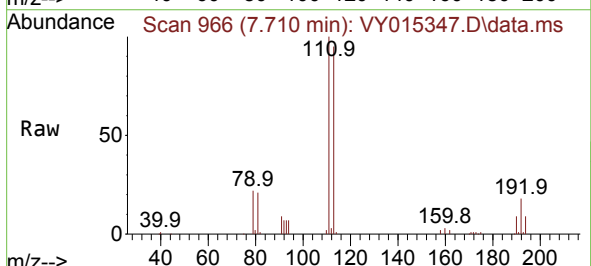
Tgt Ion:113 Resp: 110673

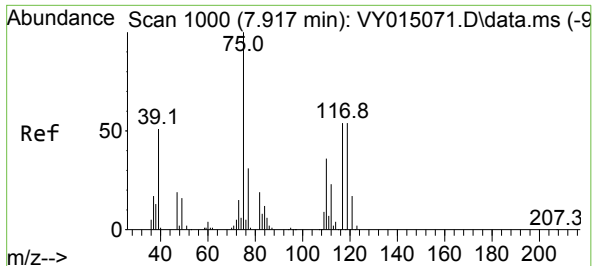
Ion Ratio Lower Upper

113 100

111 103.4 81.3 121.9

192 19.9 16.9 25.3





#36

1,1-Dichloropropene

Concen: 6.379 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.128 min

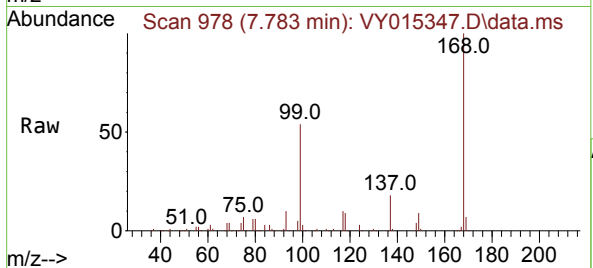
Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

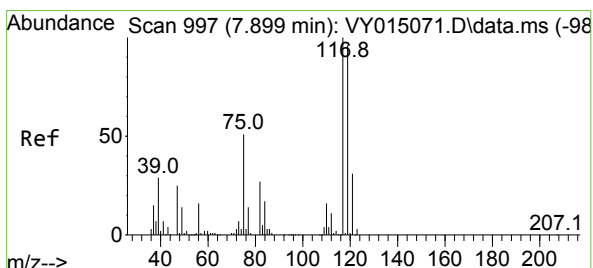
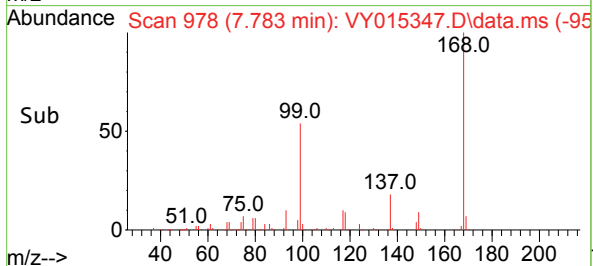
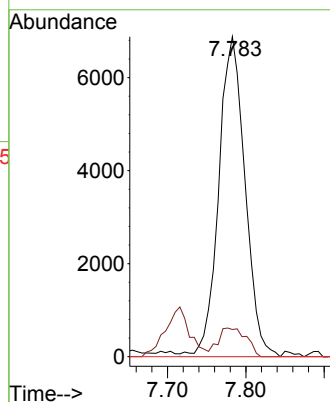
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 16045
Ion Ratio	Lower Upper
75	100
110	9.6 17.8 53.5#
77	0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 7.069 ug/l

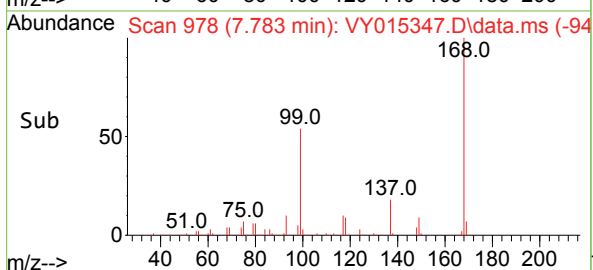
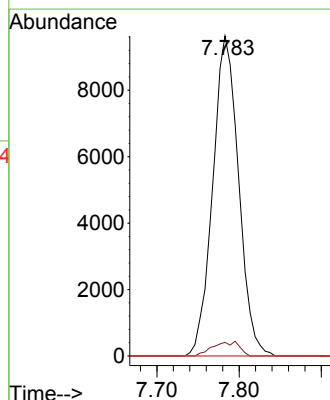
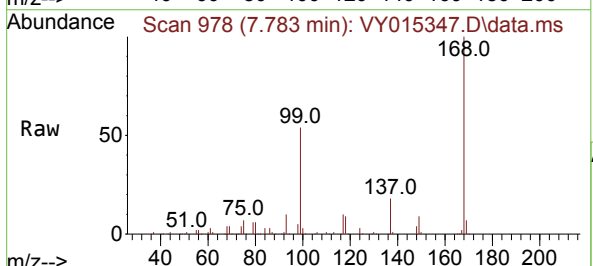
RT: 7.783 min Scan# 978

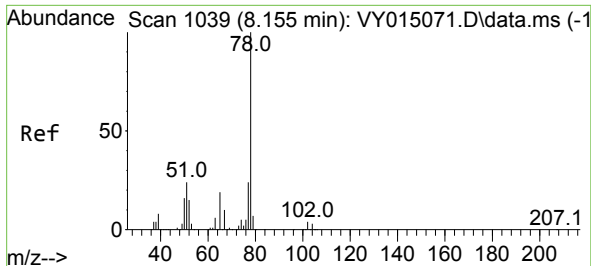
Delta R.T. -0.116 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Tgt Ion: 117	Resp: 21043
Ion Ratio	Lower Upper
117	100
119	4.3 76.4 114.6#
121	0.0 25.8 38.6#

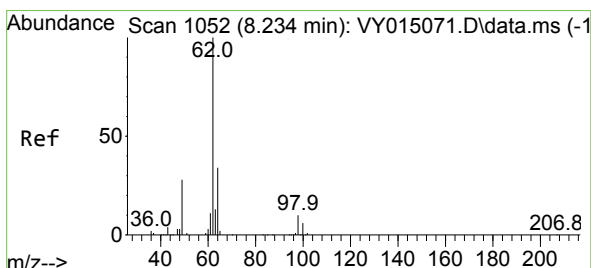
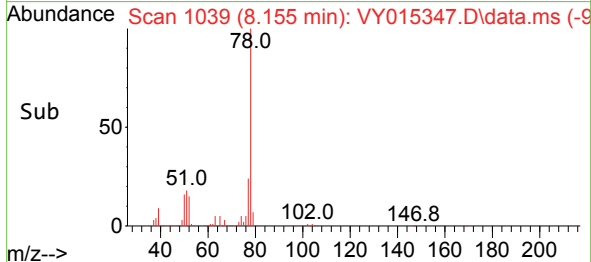
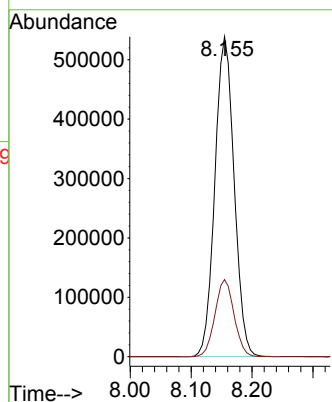
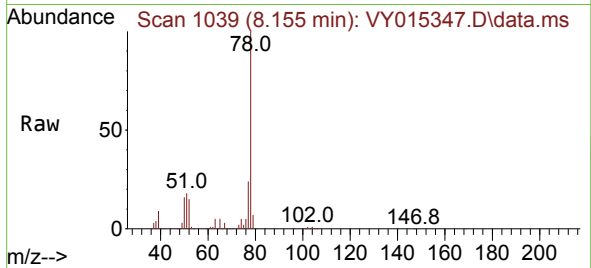




#40
Benzene
Concen: 155.546 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

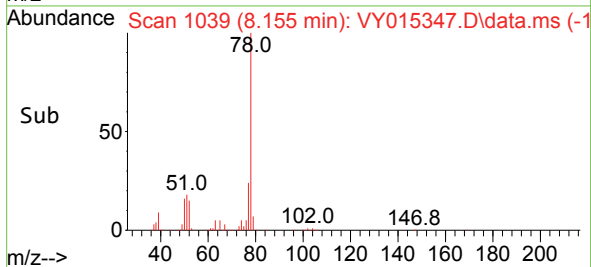
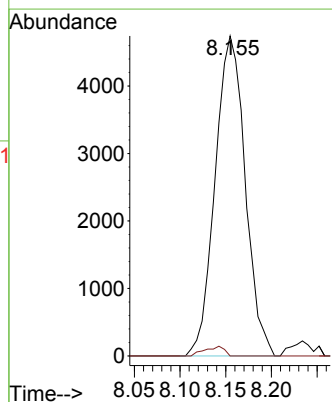
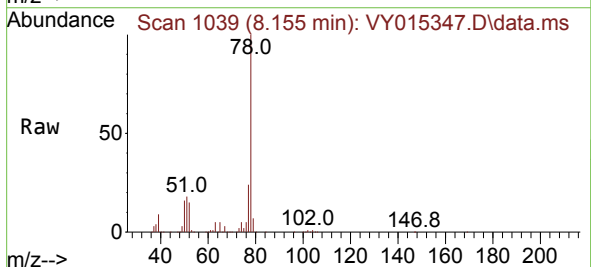
Instrument :
MSVOA_Y
ClientSampleId :

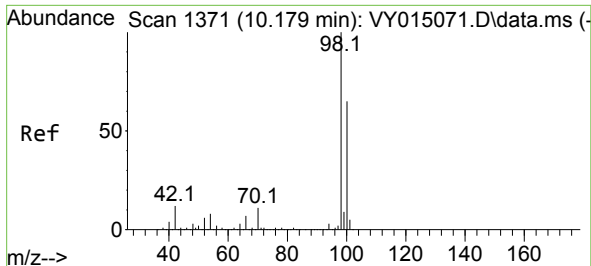
Tgt Ion: 78 Resp: 1182821
Ion Ratio Lower Upper
78 100
77 24.1 19.0 28.6



#42
1,2-Dichloroethane
Concen: 3.933 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.079 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 62 Resp: 10863
Ion Ratio Lower Upper
62 100
98 2.0 0.0 15.8

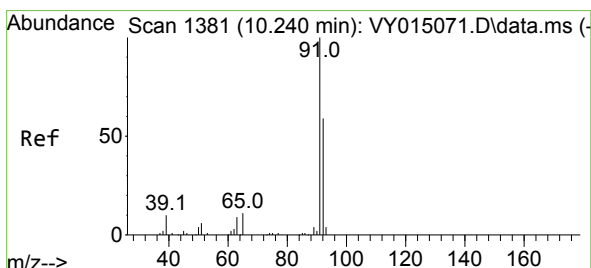
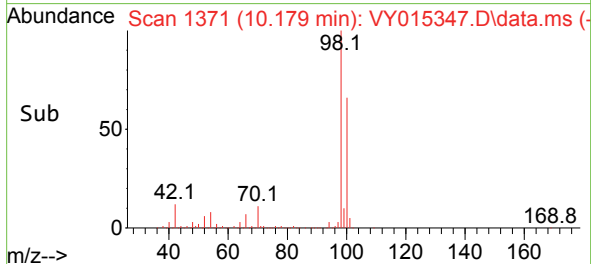
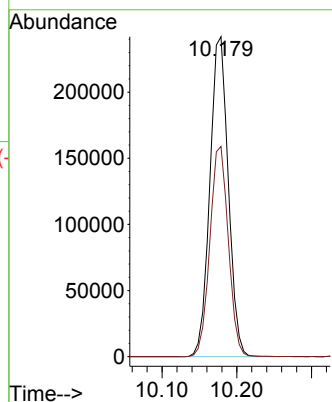
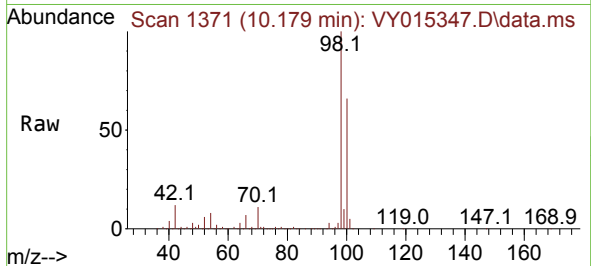




#50
Toluene-d8
Concen: 48.793 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

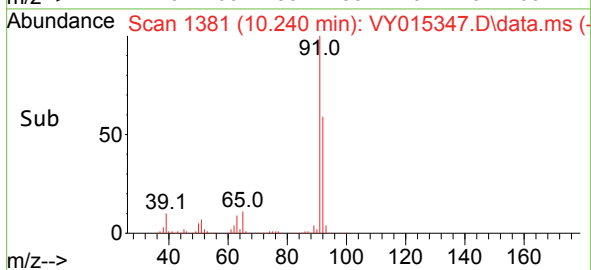
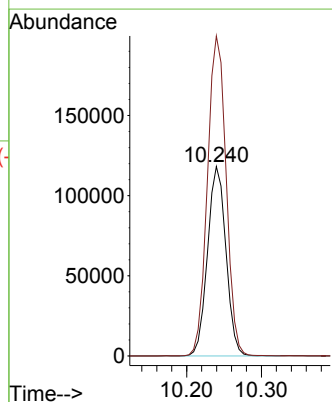
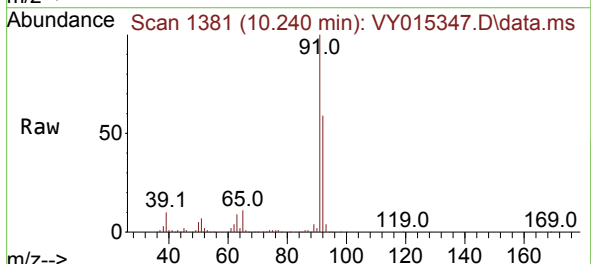
Instrument :
MSVOA_Y
ClientSampleId :

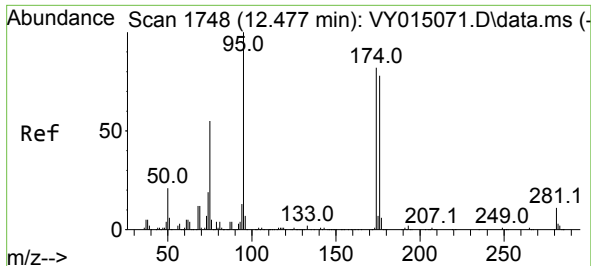
Tgt Ion: 98 Resp: 412944
Ion Ratio Lower Upper
98 100
100 65.9 50.1 75.1



#52
Toluene
Concen: 40.333 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 92 Resp: 202153
Ion Ratio Lower Upper
92 100
91 171.2 143.8 215.6

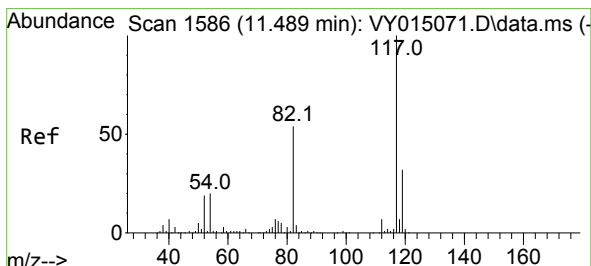
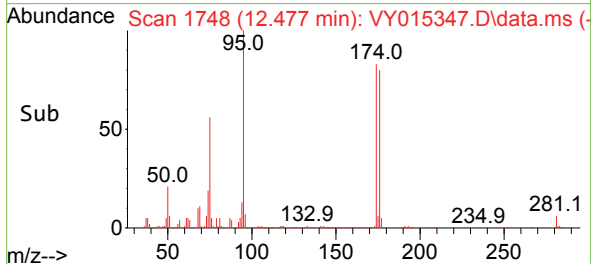
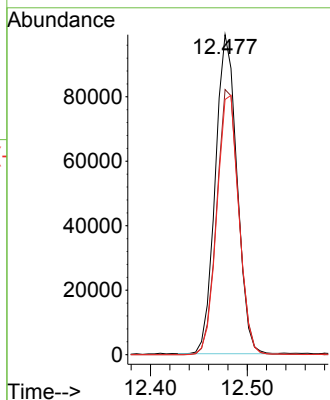
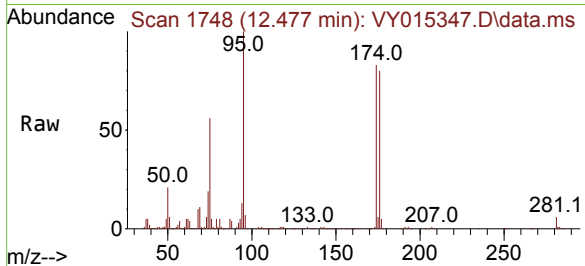




#62
4-Bromofluorobenzene
Concen: 49.794 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

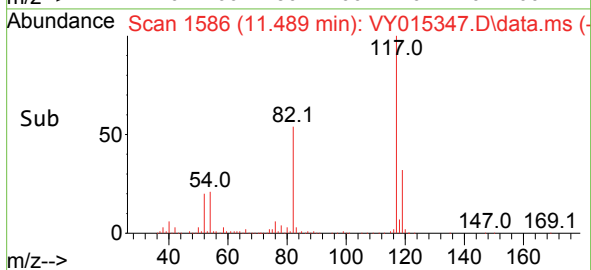
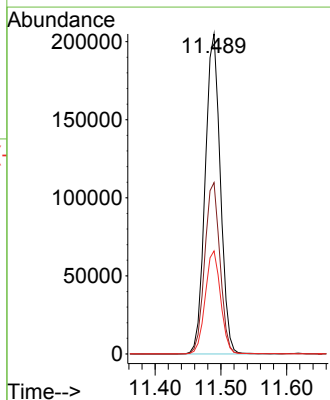
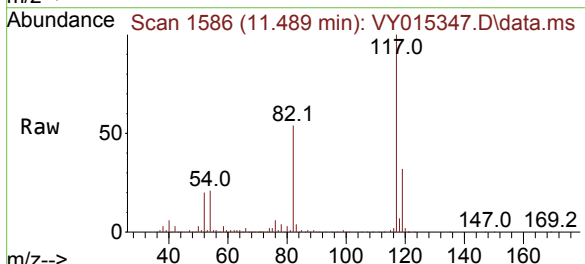
Instrument :
MSVOA_Y
ClientSampleId :

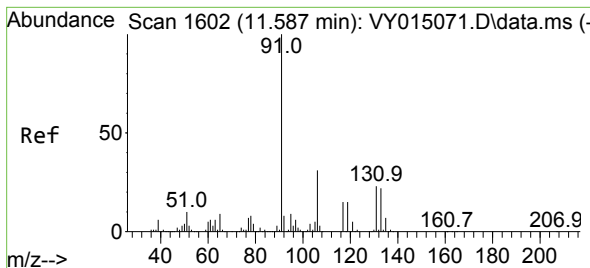
Tgt Ion: 95 Resp: 153923
Ion Ratio Lower Upper
95 100
174 84.5 0.0 178.2
176 82.5 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 117 Resp: 328871
Ion Ratio Lower Upper
117 100
82 53.6 43.4 65.0
119 32.2 26.3 39.5





#67

Ethyl Benzene

Concen: 27.185 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

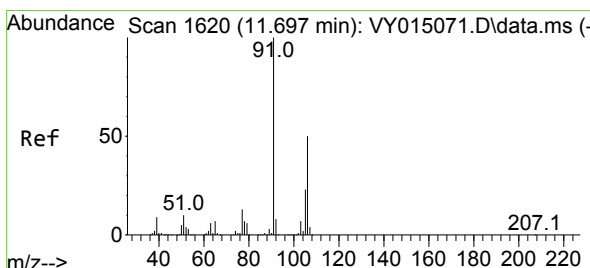
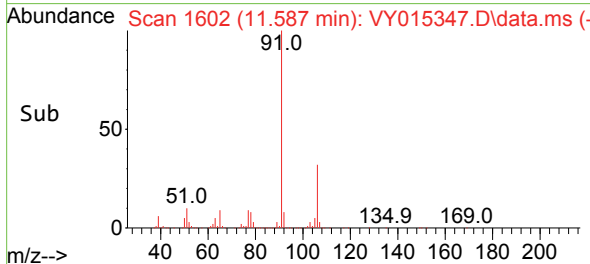
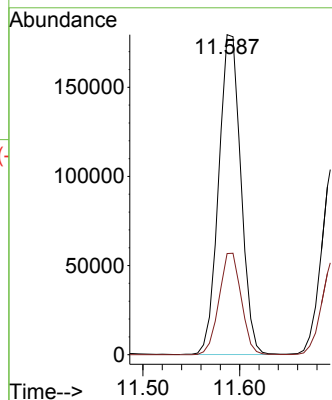
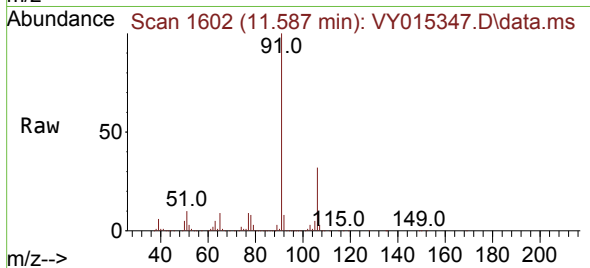
ClientSampleId :

Tgt Ion: 91 Resp: 285409

Ion Ratio Lower Upper

91 100

106 31.6 24.6 36.8



#68

m/p-Xylenes

Concen: 26.564 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VY015347.D

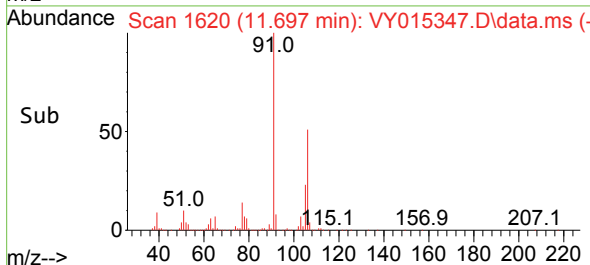
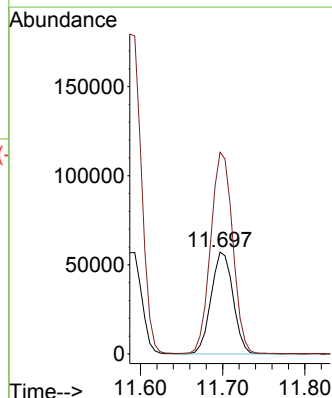
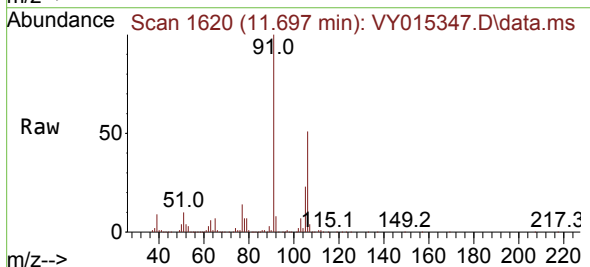
Acq: 25 Aug 2023 17:03

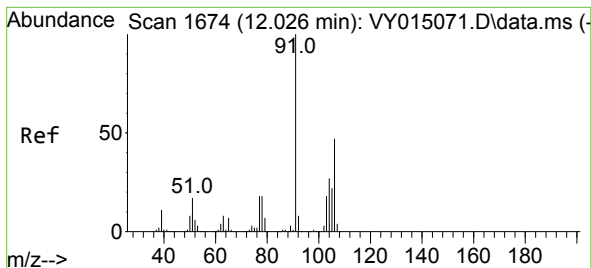
Tgt Ion: 106 Resp: 105921

Ion Ratio Lower Upper

106 100

91 198.8 166.1 249.1





#69

o-Xylene

Concen: 18.822 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

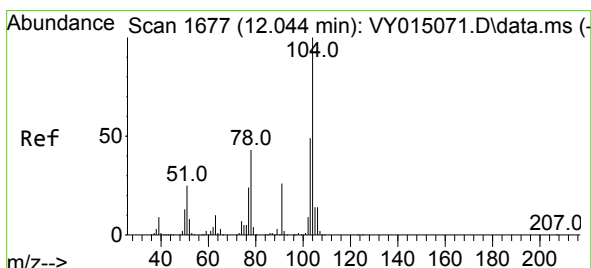
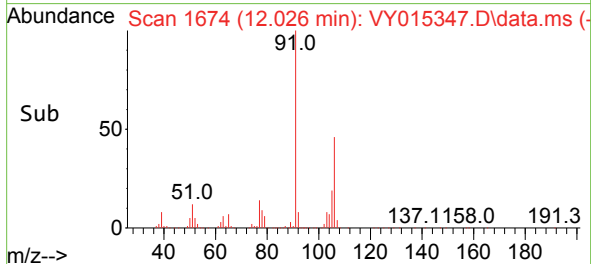
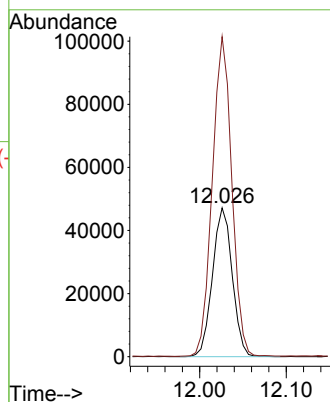
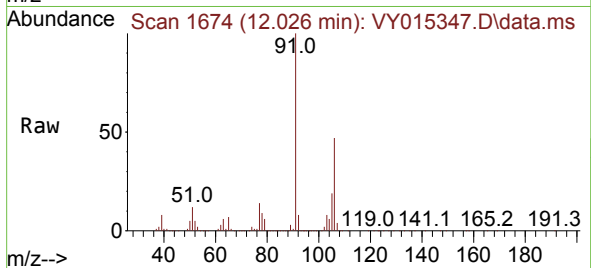
ClientSampleId :

Tgt Ion:106 Resp: 74766

Ion Ratio Lower Upper

106 100

91 211.8 108.1 324.3



#70

Styrene

Concen: 3.794 ug/l

RT: 12.044 min Scan# 1677

Delta R.T. 0.000 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

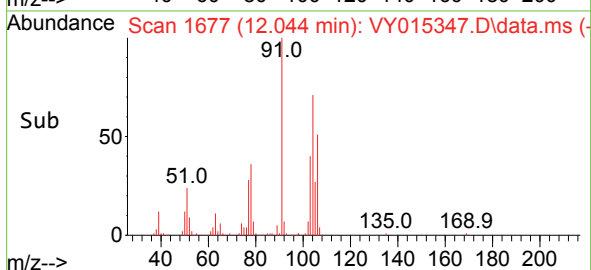
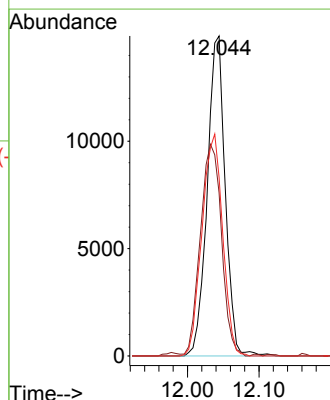
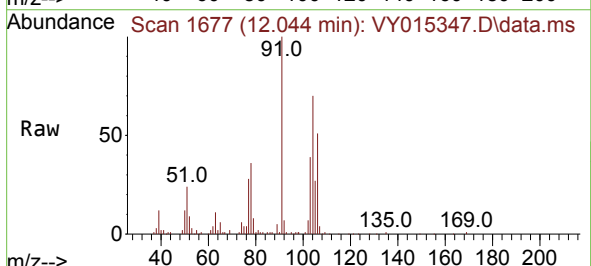
Tgt Ion:104 Resp: 26087

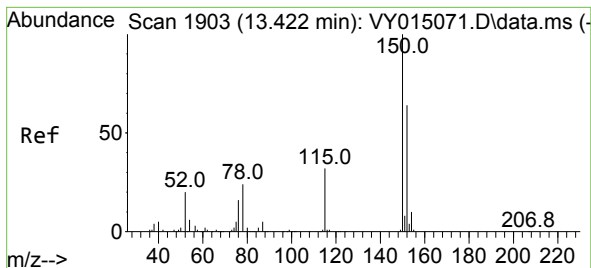
Ion Ratio Lower Upper

104 100

78 77.7 41.5 62.3#

103 79.6 44.6 67.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

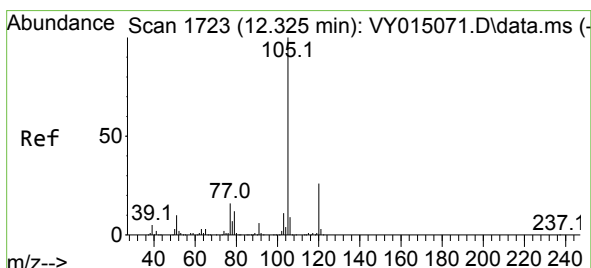
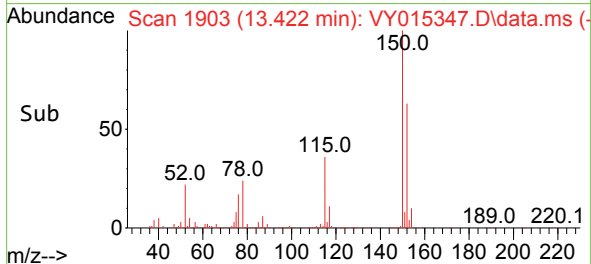
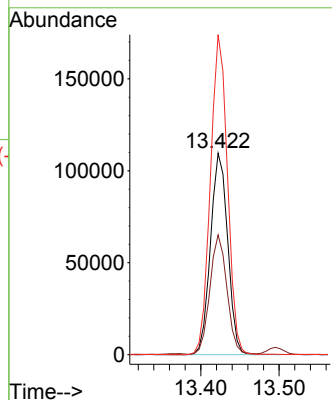
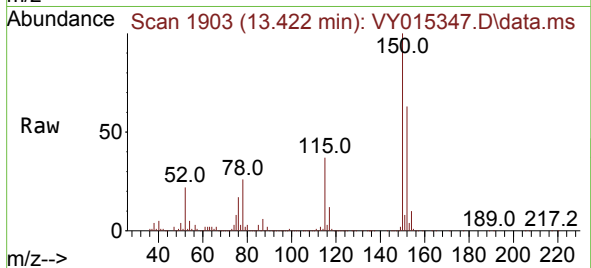
Tgt Ion:152 Resp: 167202

Ion Ratio Lower Upper

152 100

115 58.7 28.8 86.5

150 157.3 0.0 348.8



#73

Isopropylbenzene

Concen: 1.704 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. 0.000 min

Lab File: VY015347.D

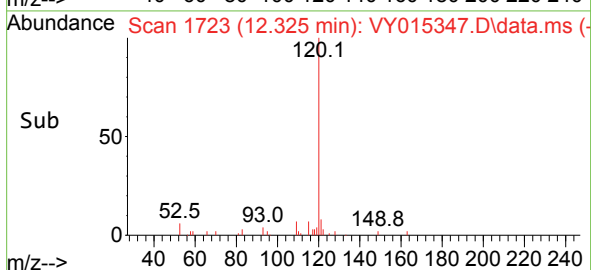
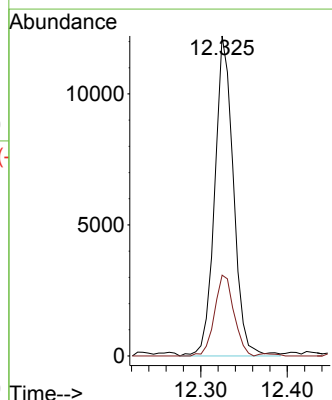
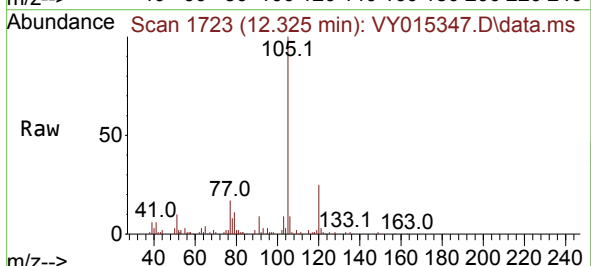
Acq: 25 Aug 2023 17:03

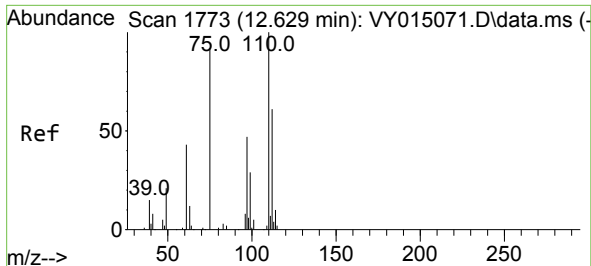
Tgt Ion:105 Resp: 18325

Ion Ratio Lower Upper

105 100

120 26.2 13.3 39.9

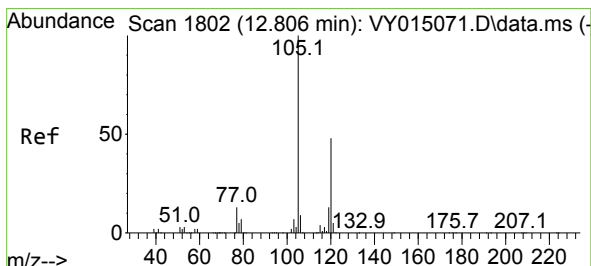
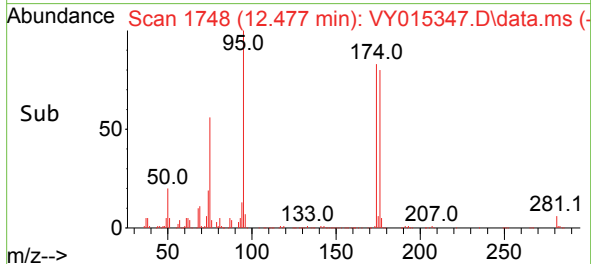
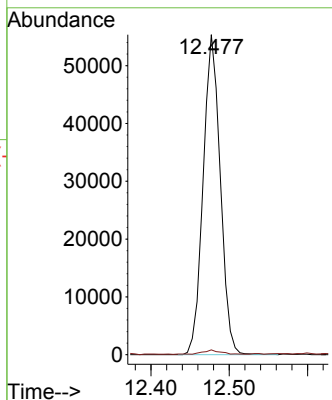
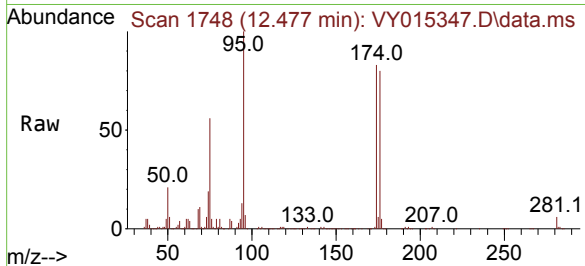




#76
 1,2,3-Trichloropropane
 Concen: 41.339 ug/l
 RT: 12.477 min Scan# 1773
 Delta R.T. -0.152 min
 Lab File: VY015347.D
 Acq: 25 Aug 2023 17:03

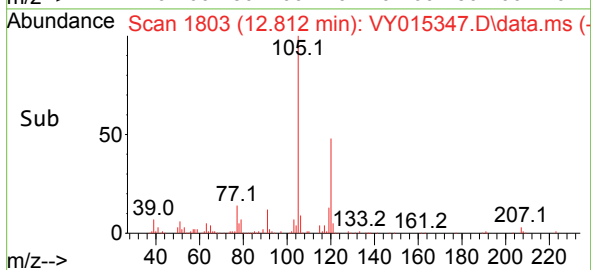
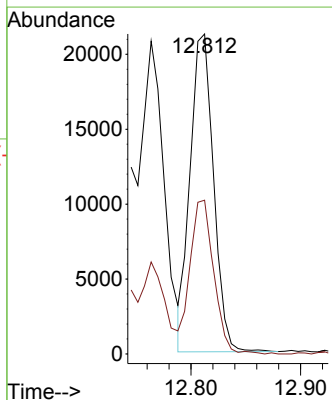
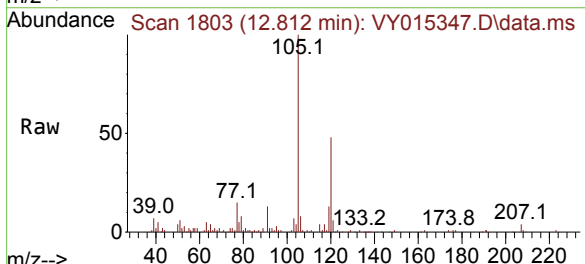
Instrument :
 MSVOA_Y
 ClientSampleId :

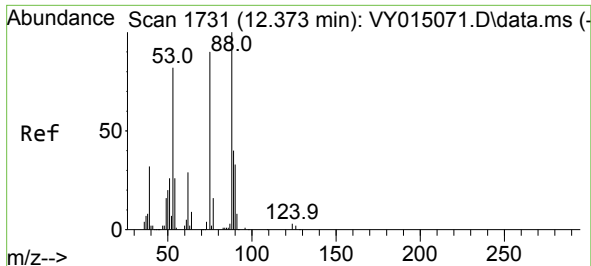
Tgt Ion: 75 Resp: 83975
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 3.511 ug/l
 RT: 12.812 min Scan# 1803
 Delta R.T. 0.000 min
 Lab File: VY015347.D
 Acq: 25 Aug 2023 17:03

Tgt Ion: 105 Resp: 31470
 Ion Ratio Lower Upper
 105 100
 120 49.1 23.9 71.7

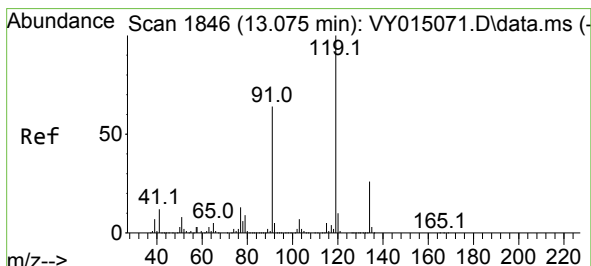
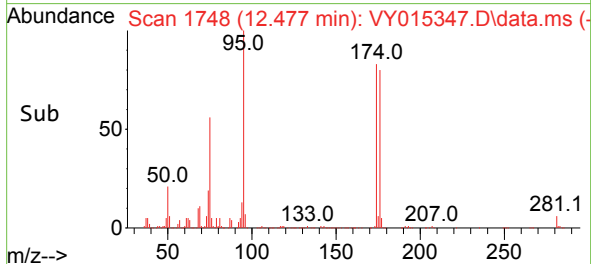
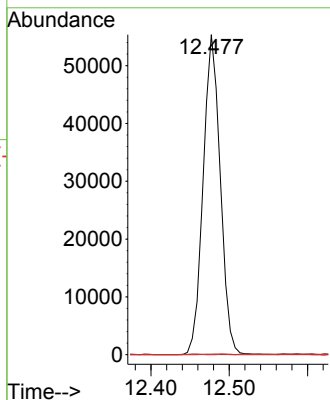
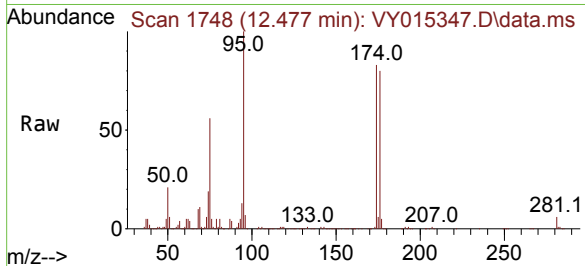




#81
trans-1,4-Dichloro-2-butene
Concen: 90.800 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

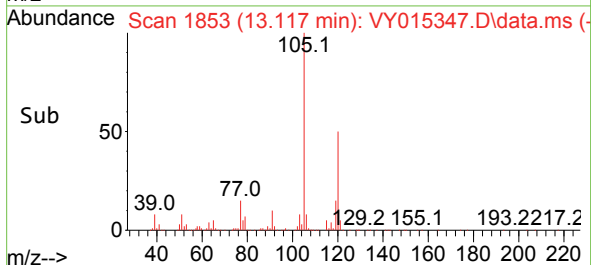
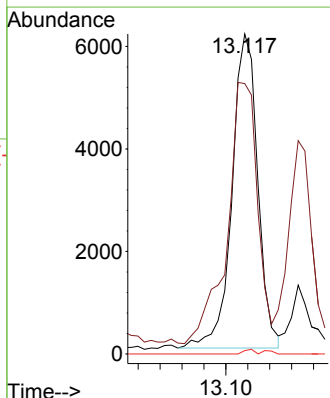
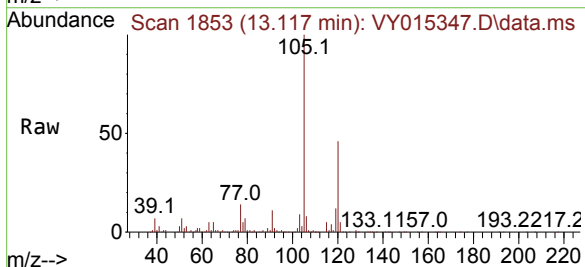
Instrument :
MSVOA_Y
ClientSampleId :

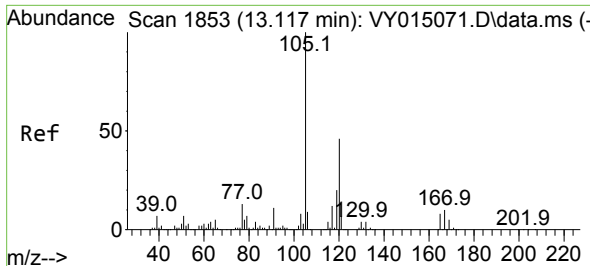
Tgt Ion: 75 Resp: 83975
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 0.1 37.4 56.0#



#83
tert-Butylbenzene
Concen: 1.214 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 119 Resp: 9954
Ion Ratio Lower Upper
119 100
91 97.7 32.9 98.6
134 0.6 13.0 38.9#

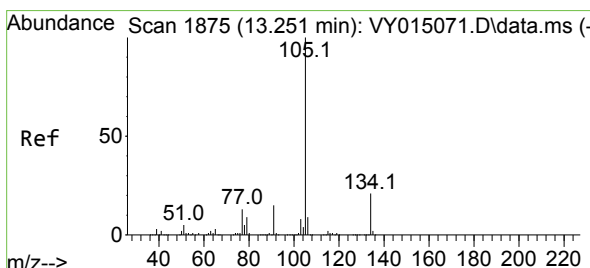
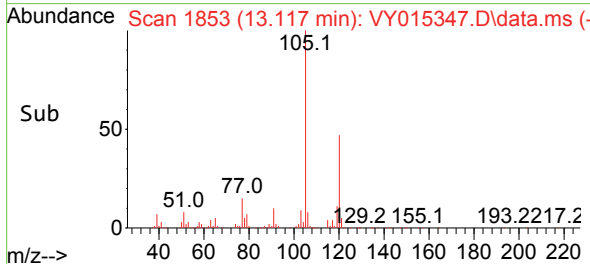
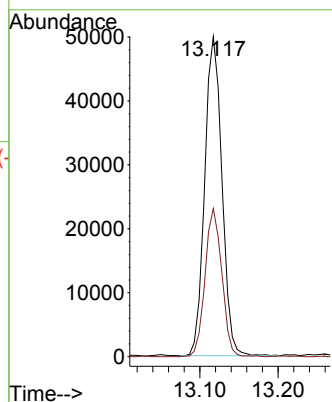
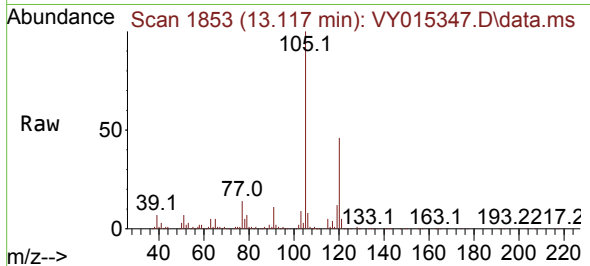




#84
1,2,4-Trimethylbenzene
Concen: 8.518 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

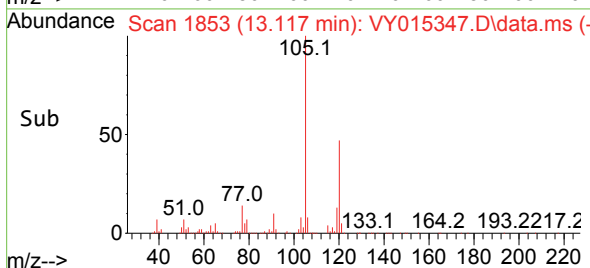
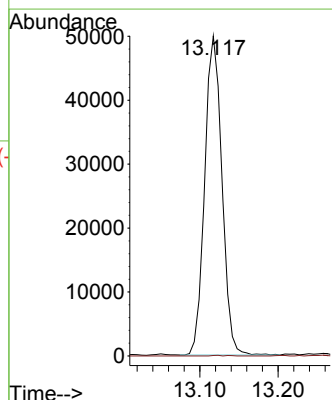
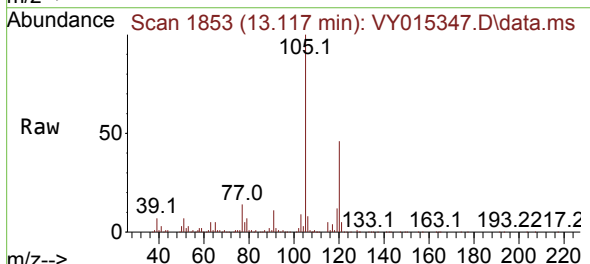
Instrument :
MSVOA_Y
ClientSampleId :

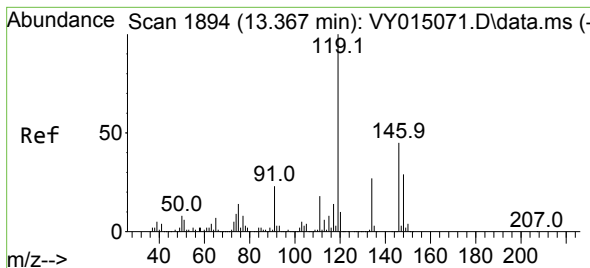
Tgt Ion:105 Resp: 76283
Ion Ratio Lower Upper
105 100
120 45.1 22.2 66.6



#85
sec-Butylbenzene
Concen: 6.351 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.134 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion:105 Resp: 76283
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 2.011 ug/l

RT: 13.337 min Scan# 119

Delta R.T. -0.030 min

Lab File: VY015347.D

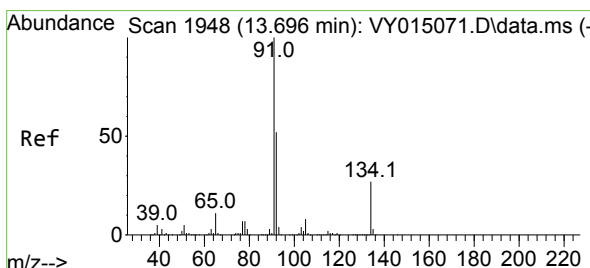
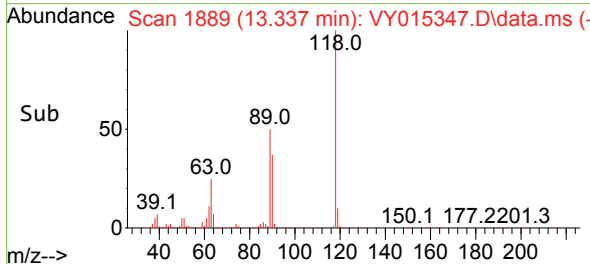
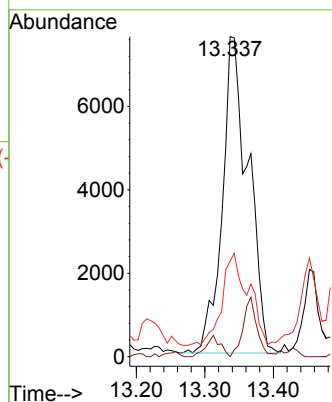
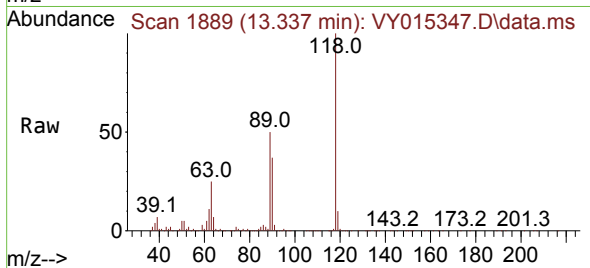
Acq: 25 Aug 2023 17:03

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:119	Resp:	20030
Ion Ratio	Lower	Upper
119	100	
134	0.0	13.3 39.8#
91	30.0	12.4 37.4



#89

n-Butylbenzene

Concen: 7.522 ug/l

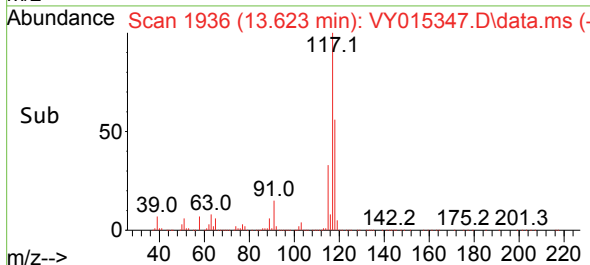
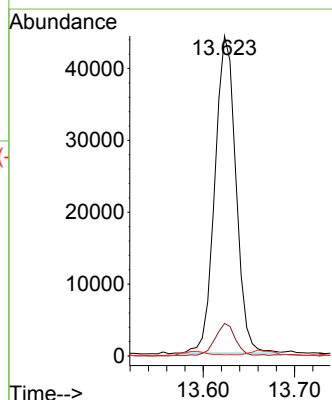
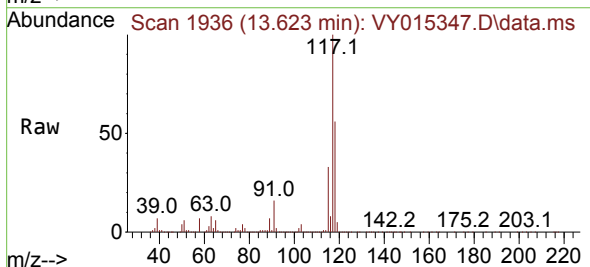
RT: 13.623 min Scan# 1936

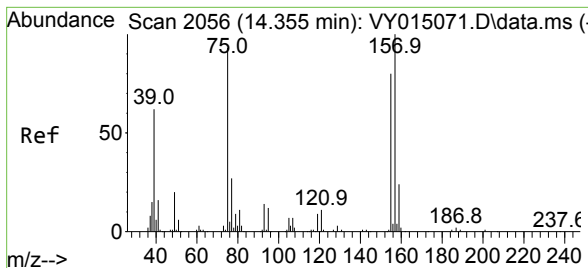
Delta R.T. -0.073 min

Lab File: VY015347.D

Acq: 25 Aug 2023 17:03

Tgt Ion: 91	Resp:	70624
Ion Ratio	Lower	Upper
91	100	
92	9.6	25.4 76.0#
134	0.0	12.6 37.6#

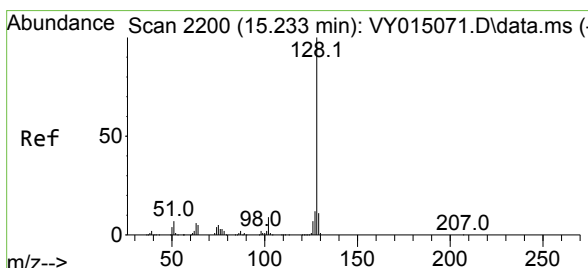
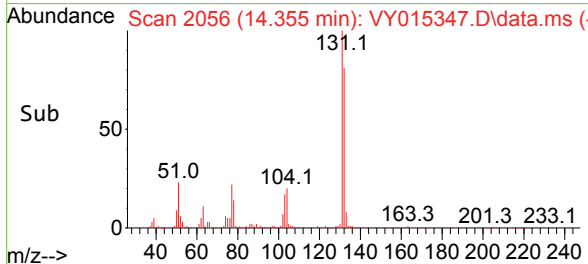
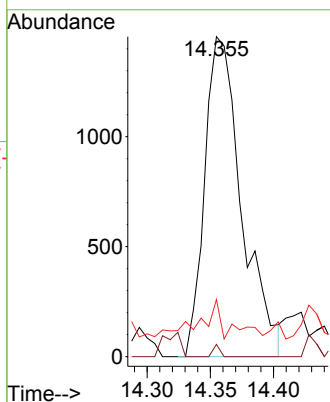
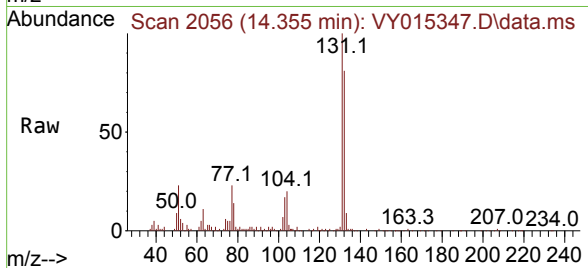




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.457 ug/l
RT: 14.355 min Scan# 2056
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 2960
Ion Ratio Lower Upper
75 100
155 0.7 41.5 124.6#
157 8.6 51.8 155.5#



#95
Naphthalene
Concen: 411.033 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015347.D
Acq: 25 Aug 2023 17:03

Tgt Ion: 128 Resp: 3192070
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 11.1 8.6 13.0

