

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040324\
 Data File : VY017829.D
 Acq On : 03 Apr 2024 12:12
 Operator : SY/MD
 Sample : P1954-03
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR21145

Quant Time: Apr 04 01:10:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032924S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 05:58:13 2024
 Response via : Initial Calibration

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

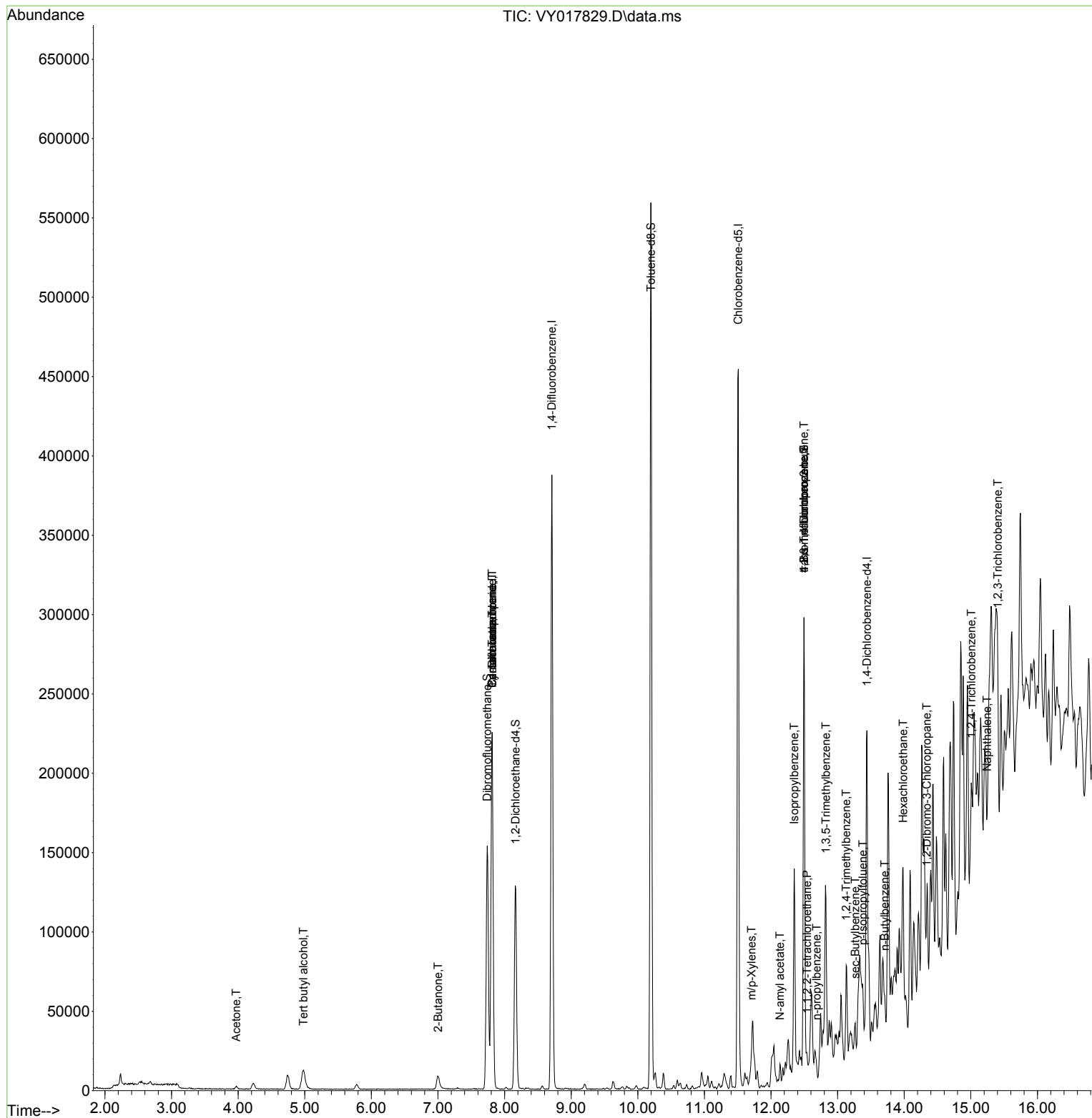
Internal Standards						
1) Pentafluorobenzene	7.813	168	182532	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.709	114	332874	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.508	117	253541	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.440	152	51331	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.167	65	101595	64.320	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 128.640%			
35) Dibromofluoromethane	7.740	113	110312	57.350	ug/l	0.02
Spiked Amount 50.000	Range 54 - 147		Recovery = 114.700%			
50) Toluene-d8	10.197	98	361710	50.342	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.680%			
62) 4-Bromofluorobenzene	12.495	95	79785	36.497	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 73.000%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.978	59	23303	197.838	ug/l #	81
16) Acetone	3.972	43	2604	7.976	ug/l	89
25) 2-Butanone	7.002	43	591	1.271	ug/l #	41
31) Cyclohexane	7.813	56	4117	1.480	ug/l #	1
36) 1,1-Dichloropropene	7.813	75	13345	4.755	ug/l #	46
38) Carbon Tetrachloride	7.813	117	16545	5.679	ug/l #	16
41) Methacrylonitrile	7.374	41	59	Below Cal	#	30
48) Methyl methacrylate	9.337	41	31	Below Cal	#	7
51) 4-Methyl-2-Pentanone	10.093	43	1096	Below Cal	#	82
56) Ethyl methacrylate	10.532	69	279	Below Cal	#	10
59) 2-Hexanone	10.886	43	30	Below Cal	#	19
68) m/p-Xylenes	11.709	106	6502	1.918	ug/l	87
69) o-Xylene	12.044	106	4594	Below Cal		99
70) Styrene	12.056	104	664	Below Cal	#	1
73) Isopropylbenzene	12.349	105	6668	1.854	ug/l	79
74) N-amyl acetate	12.136	43	2336	3.406	ug/l #	71
75) 1,1,2,2-Tetrachloroethane	12.544	83	633	1.017	ug/l #	70
76) 1,2,3-Trichloropropane	12.495	75	43375	92.730	ug/l #	100
78) n-propylbenzene	12.684	91	5409	1.232	ug/l	92
80) 1,3,5-Trimethylbenzene	12.824	105	12305	4.383	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.495	75	43375	157.545	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.129	105	30822	11.023	ug/l	100
85) sec-Butylbenzene	13.263	105	4857	1.268	ug/l	83
86) p-Isopropyltoluene	13.379	119	13268	4.143	ug/l	96
89) n-Butylbenzene	13.708	91	5493	1.865	ug/l #	69
90) Hexachloroethane	13.983	117	3245	5.096	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.336	75	390	4.638	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.007	180	1201	1.556	ug/l #	1
95) Naphthalene	15.245	128	7425	7.670	ug/l #	87
96) 1,2,3-Trichlorobenzene	15.403	180	6215	9.533	ug/l #	17

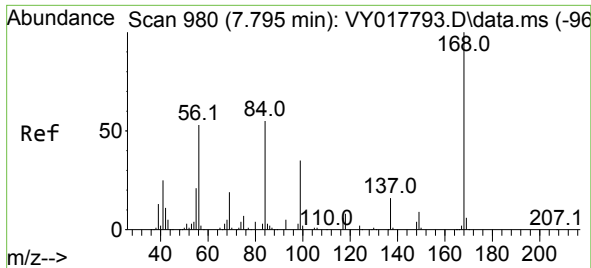
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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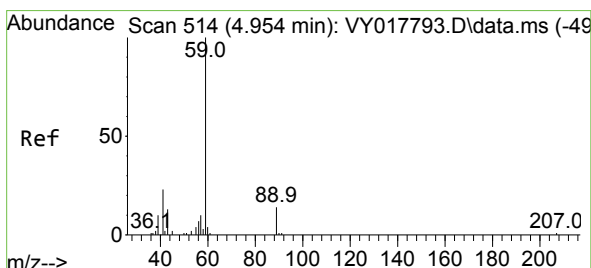
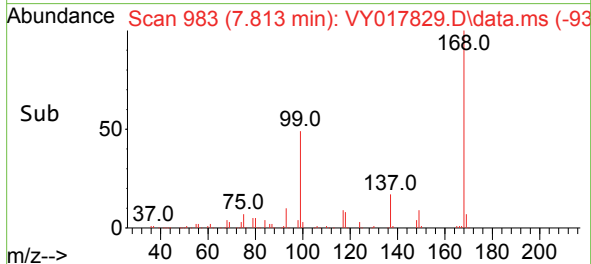
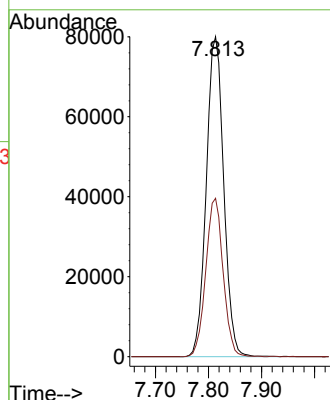
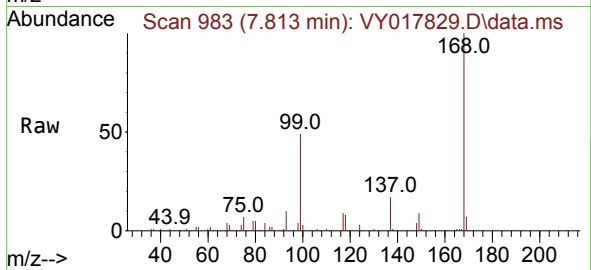




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

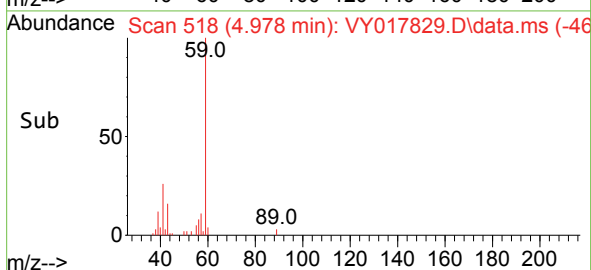
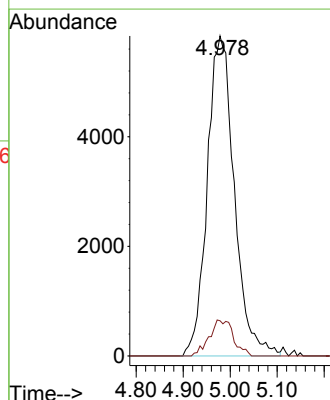
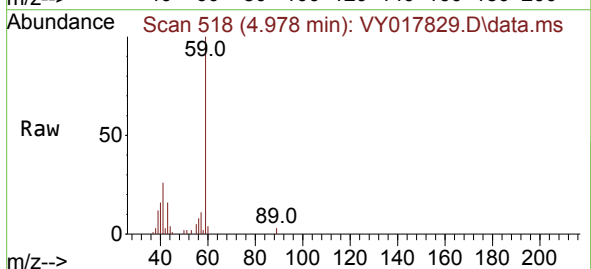
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

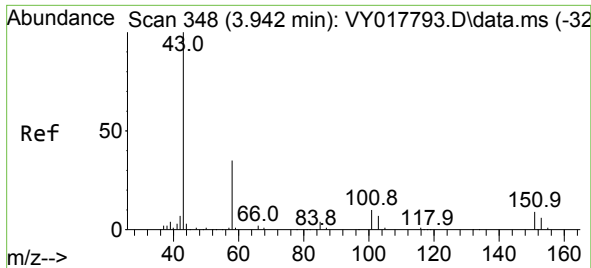
Tgt Ion:168 Resp: 182532
Ion Ratio Lower Upper
168 100
99 49.5 39.1 58.7



#11
Tert butyl alcohol
Concen: 197.838 ug/l
RT: 4.978 min Scan# 518
Delta R.T. 0.024 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 59 Resp: 23303
Ion Ratio Lower Upper
59 100
57 10.0 3.0 4.6#





#16

Acetone

Concen: 7.976 ug/l

RT: 3.972 min Scan# 31

Delta R.T. 0.030 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

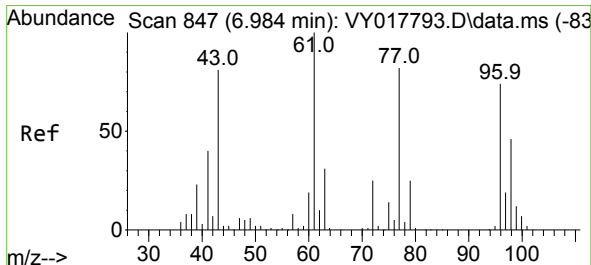
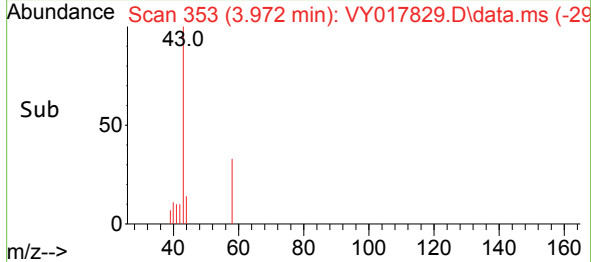
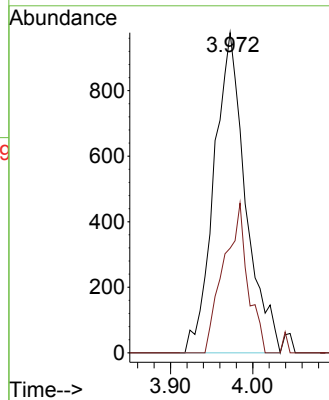
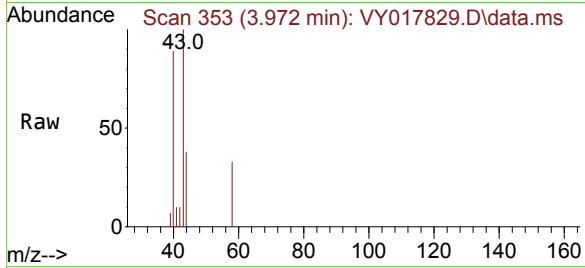
RBR21145

Tgt Ion: 43 Resp: 2604

Ion Ratio Lower Upper

43 100

58 32.7 31.7 47.5



#25

2-Butanone

Concen: 1.271 ug/l

RT: 7.002 min Scan# 850

Delta R.T. 0.018 min

Lab File: VY017829.D

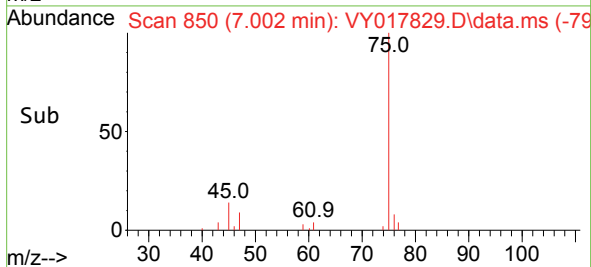
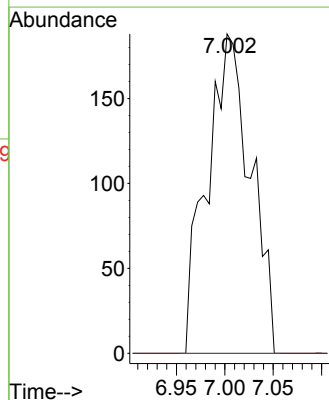
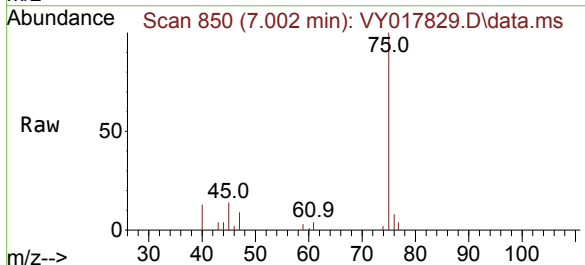
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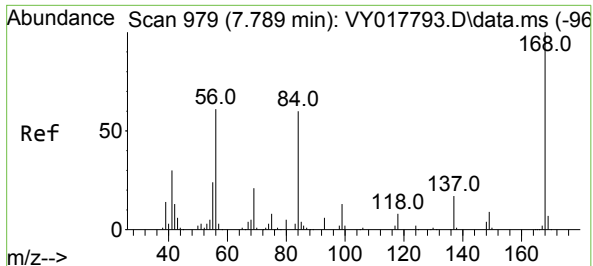
Tgt Ion: 43 Resp: 591

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#

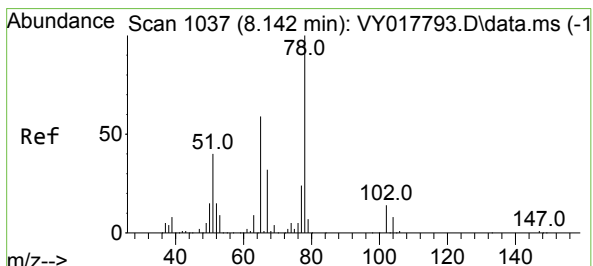
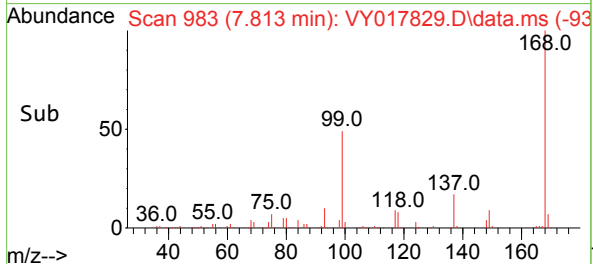
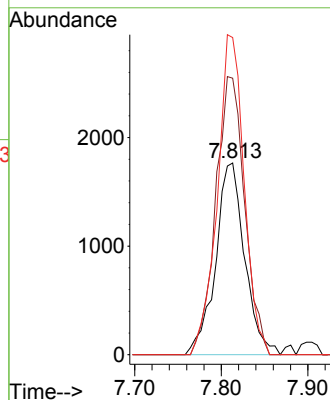
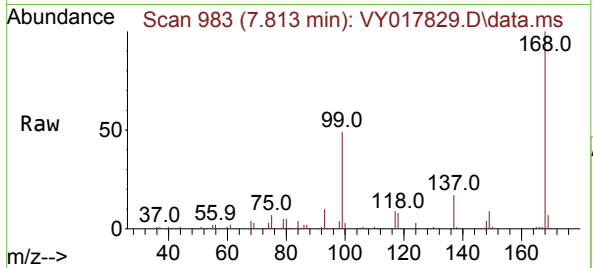




#31
Cyclohexane
Concen: 1.480 ug/l
RT: 7.813 min Scan# 91
Delta R.T. 0.024 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

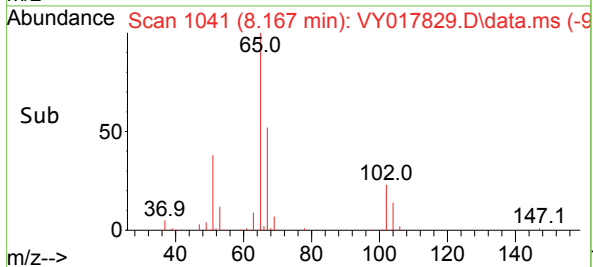
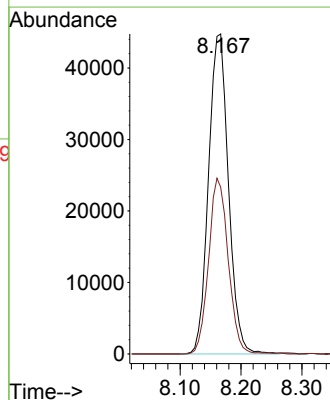
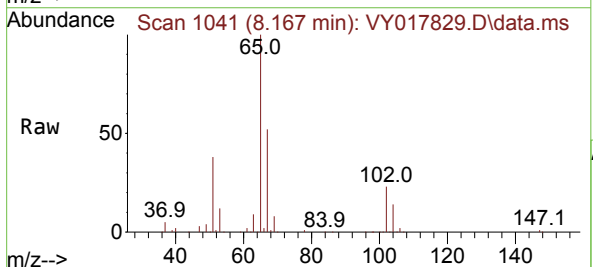
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

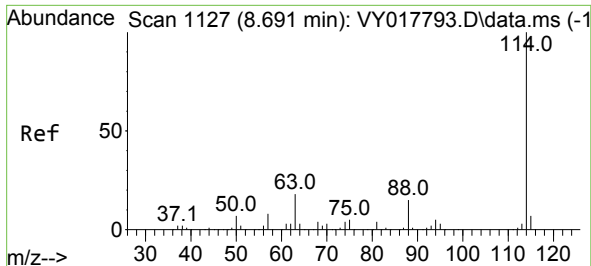
Tgt Ion: 56 Resp: 4117
Ion Ratio Lower Upper
56 100
69 144.2 28.7 43.1#
84 165.5 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 64.320 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.024 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 65 Resp: 101595
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.709 min Scan# 1127

Delta R.T. 0.018 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

RBR21145

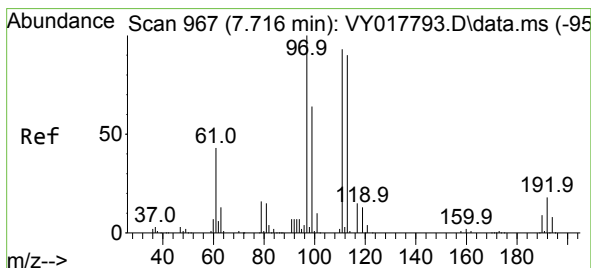
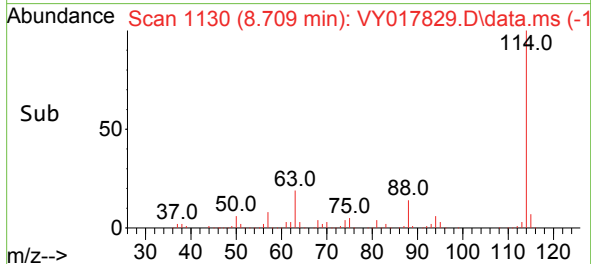
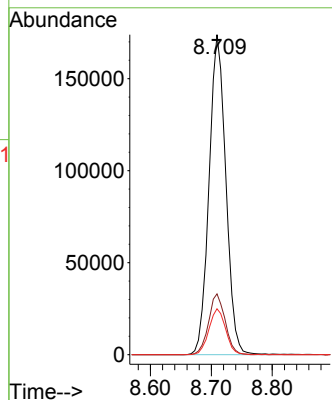
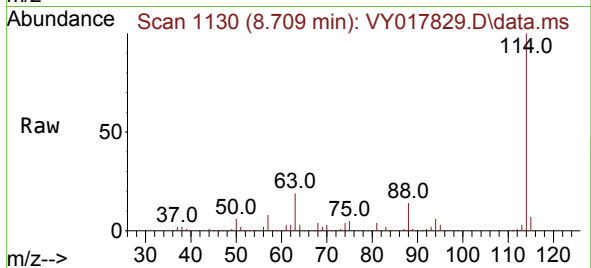
Tgt Ion:114 Resp: 332874

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.0

88 14.4 0.0 27.2



#35

Dibromofluoromethane

Concen: 57.350 ug/l

RT: 7.740 min Scan# 971

Delta R.T. 0.024 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

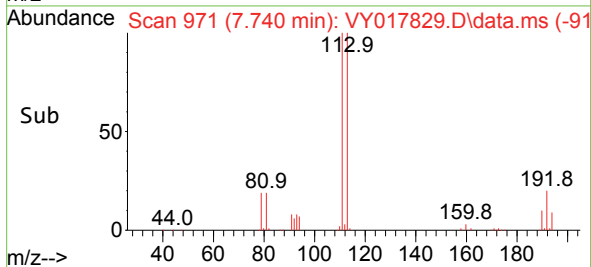
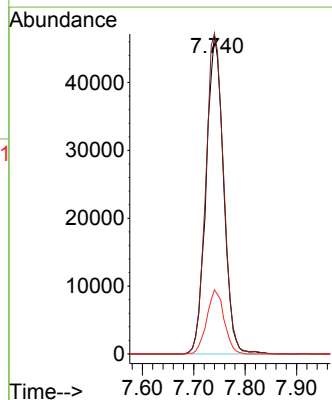
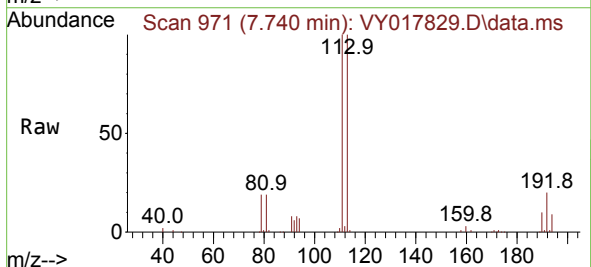
Tgt Ion:113 Resp: 110312

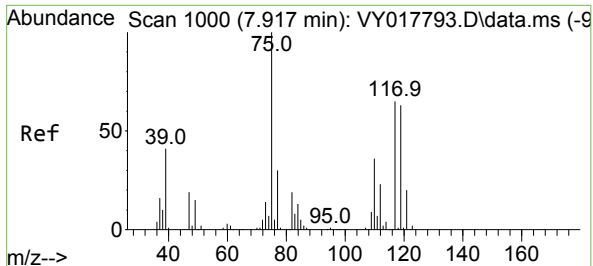
Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

192 20.1 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.755 ug/l

RT: 7.813 min Scan# 9

Delta R.T. -0.104 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

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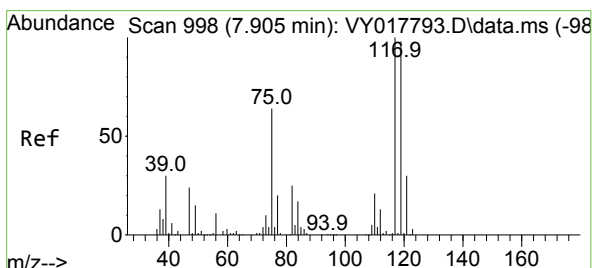
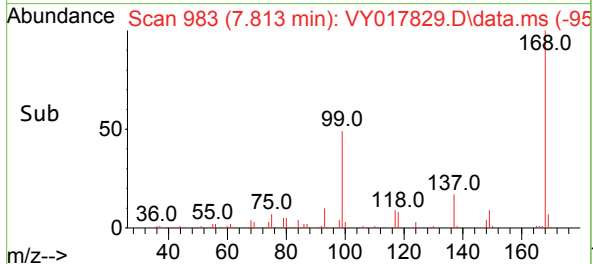
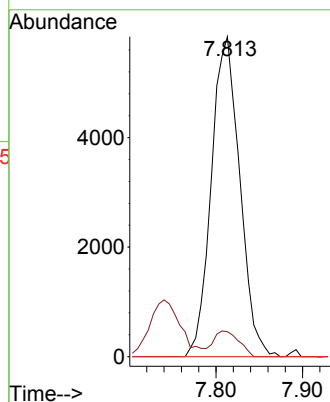
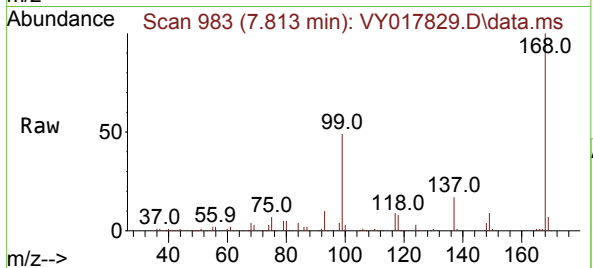
Tgt Ion: 75 Resp: 13345

Ion Ratio Lower Upper

75 100

110 7.0 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 5.679 ug/l

RT: 7.813 min Scan# 983

Delta R.T. -0.092 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

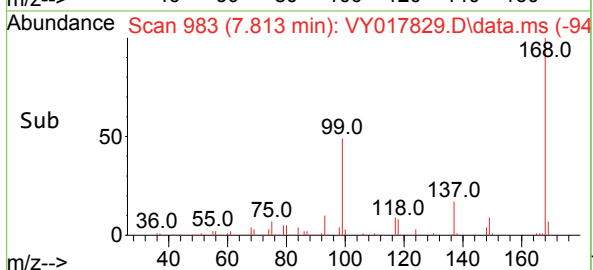
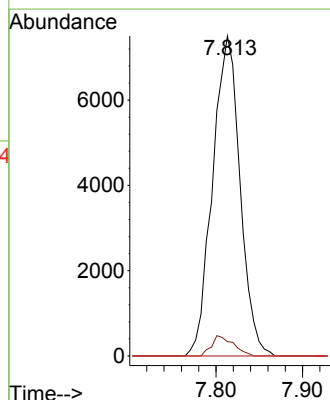
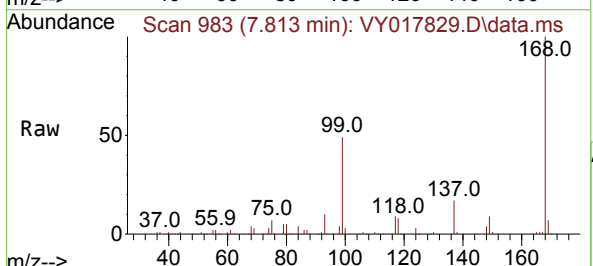
Tgt Ion:117 Resp: 16545

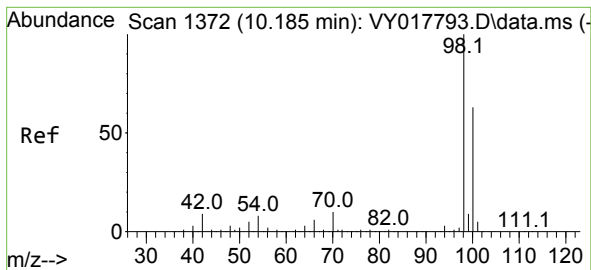
Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

121 0.0 24.0 36.0#

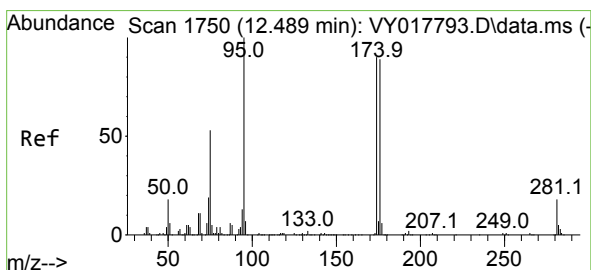
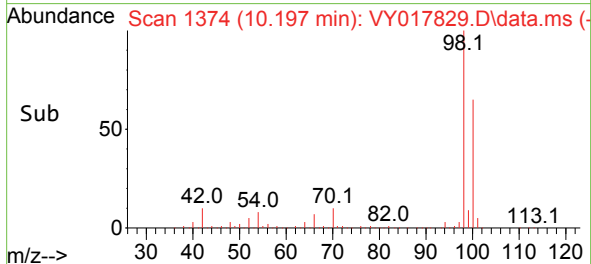
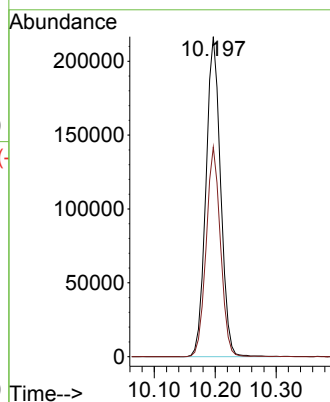
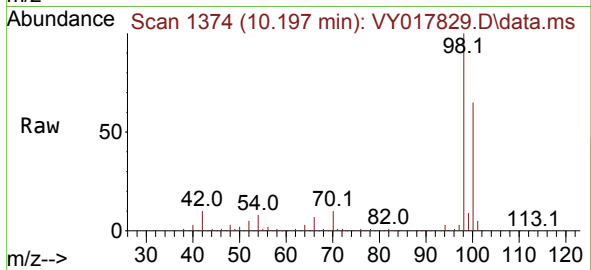




#50
Toluene-d8
Concen: 50.342 ug/l
RT: 10.197 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

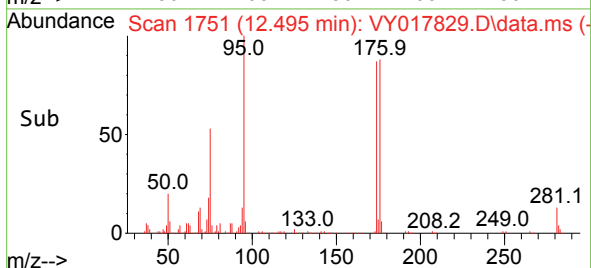
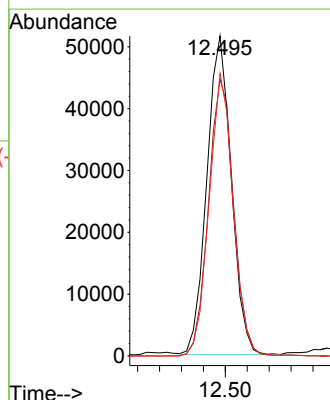
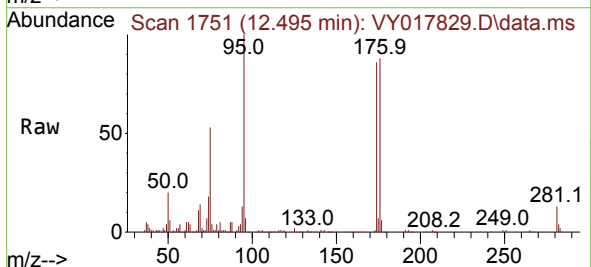
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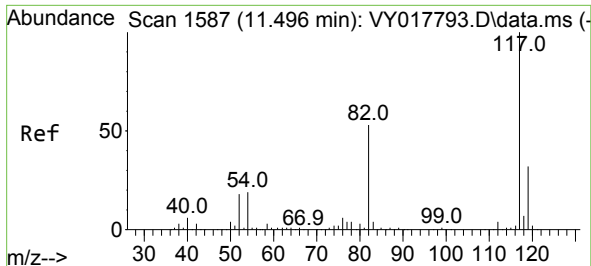
Tgt Ion: 98 Resp: 361710
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 36.497 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.006 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 95 Resp: 79785
Ion Ratio Lower Upper
95 100
174 89.8 0.0 175.6
176 87.0 0.0 171.4

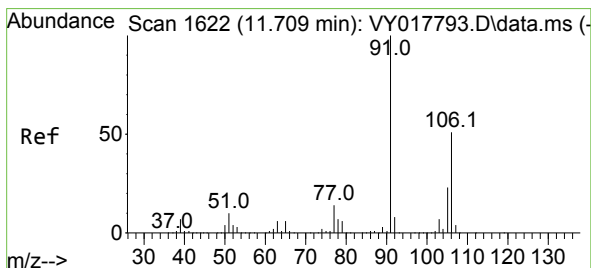
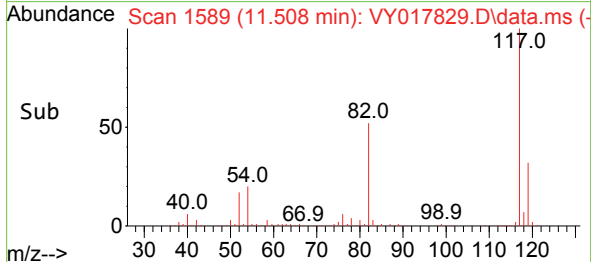
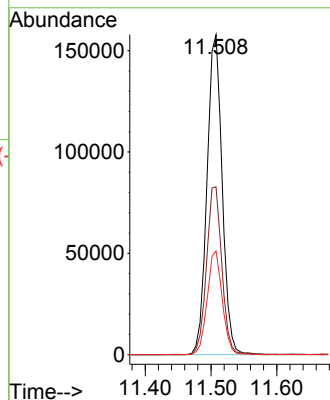
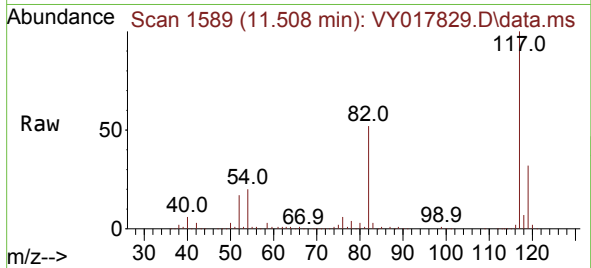




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.508 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

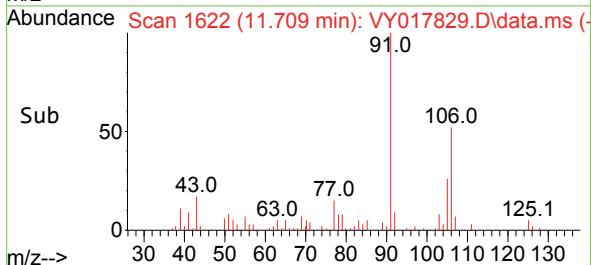
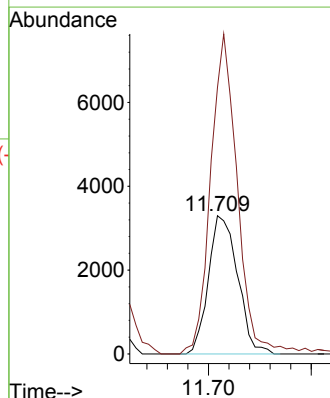
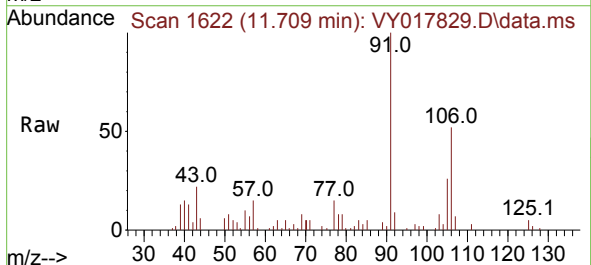
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

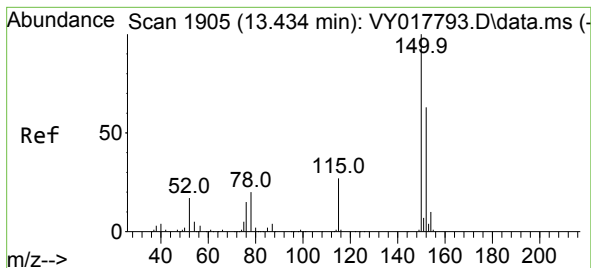
Tgt Ion:117 Resp: 253541
Ion Ratio Lower Upper
117 100
82 52.4 42.4 63.6
119 32.4 25.9 38.9



#68
m/p-Xylenes
Concen: 1.918 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. -0.000 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion:106 Resp: 6502
Ion Ratio Lower Upper
106 100
91 214.3 156.0 234.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.440 min Scan# 1905

Delta R.T. 0.006 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

RBR21145

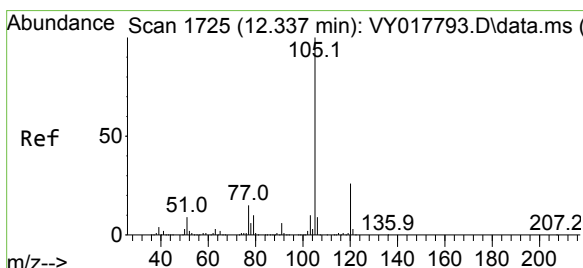
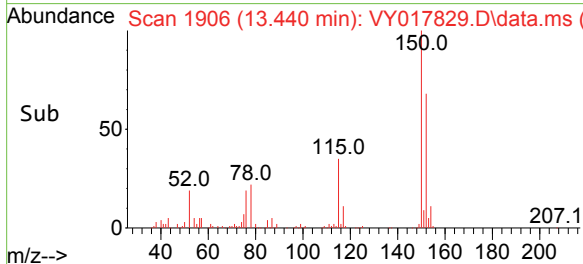
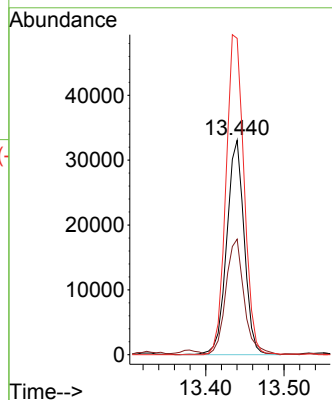
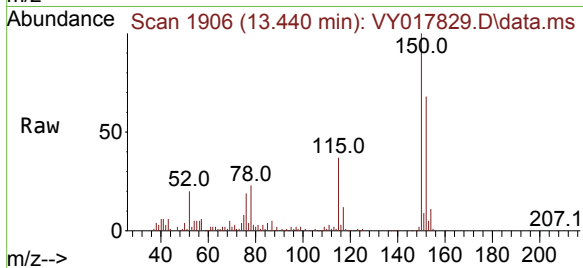
Tgt Ion:152 Resp: 51331

Ion Ratio Lower Upper

152 100

115 56.7 28.2 84.7

150 154.3 0.0 345.6



#73

Isopropylbenzene

Concen: 1.854 ug/l

RT: 12.349 min Scan# 1727

Delta R.T. 0.012 min

Lab File: VY017829.D

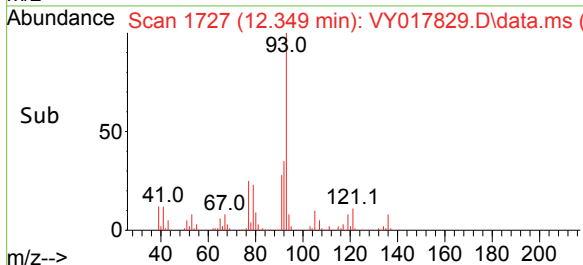
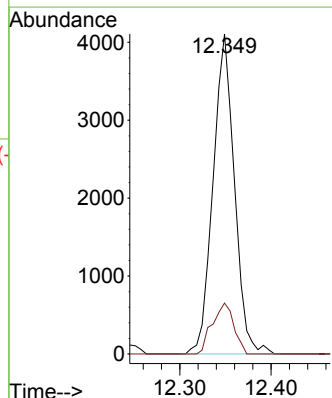
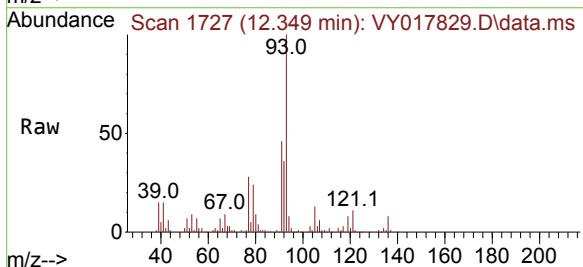
Acq: 03 Apr 2024 12:12

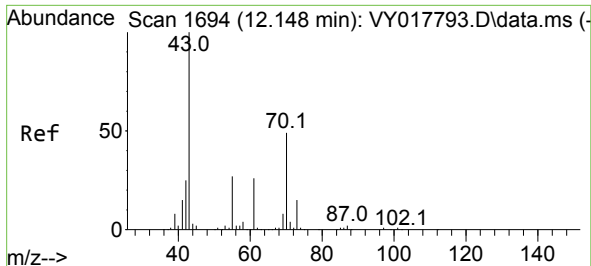
Tgt Ion:105 Resp: 6668

Ion Ratio Lower Upper

105 100

120 16.1 13.4 40.1

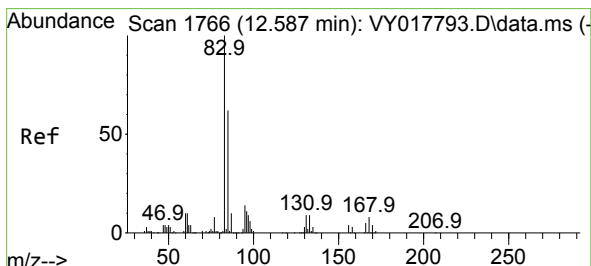
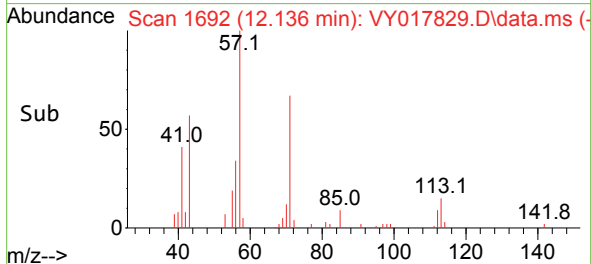
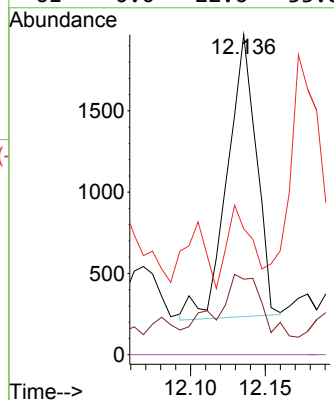
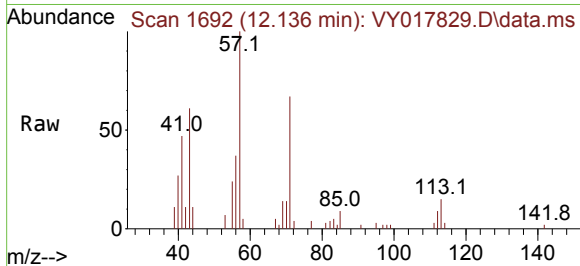




#74
N-ethyl acetate
Concen: 3.406 ug/l
RT: 12.136 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

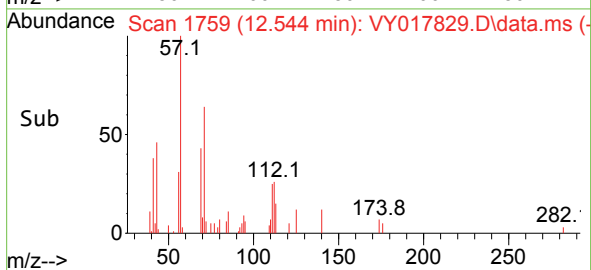
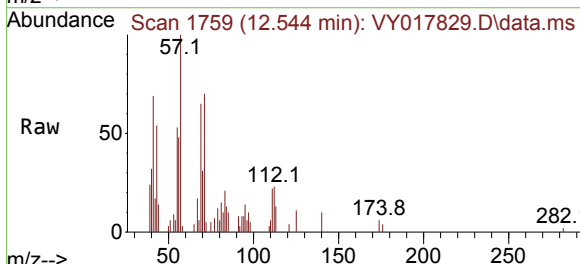
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

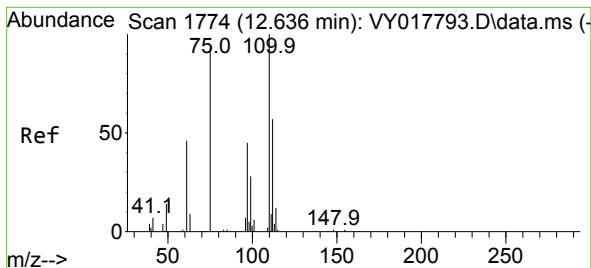
Tgt Ion: 43	Resp: 2336
Ion Ratio	Lower Upper
43 100	
70 33.4	41.4 62.2#
55 24.3	23.3 34.9
61 0.0	22.6 33.8#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.017 ug/l
RT: 12.544 min Scan# 1759
Delta R.T. -0.043 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 83	Resp: 633		
Ion Ratio	Lower	Upper	
83 100			
131 0.0	5.0	14.9#	
85 87.7	32.0	96.0	

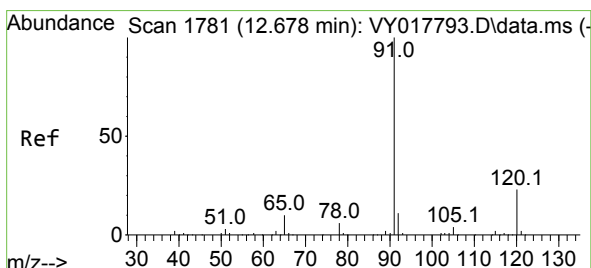
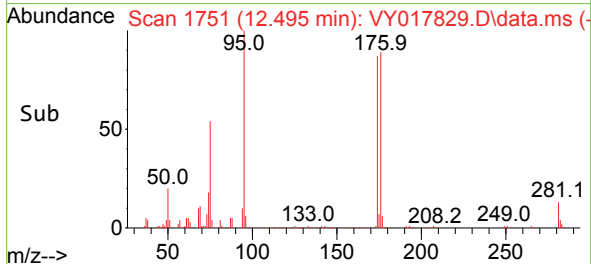
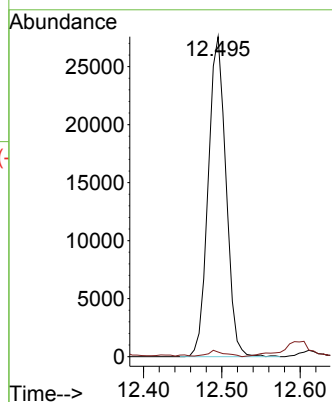
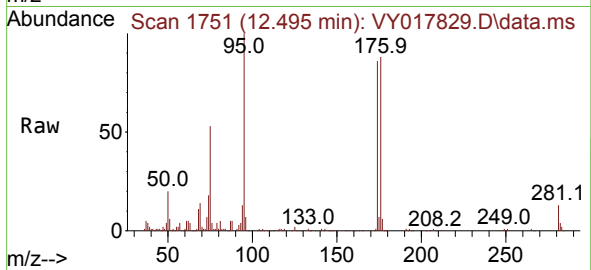




#76
1,2,3-Trichloropropane
Concen: 92.730 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. -0.140 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

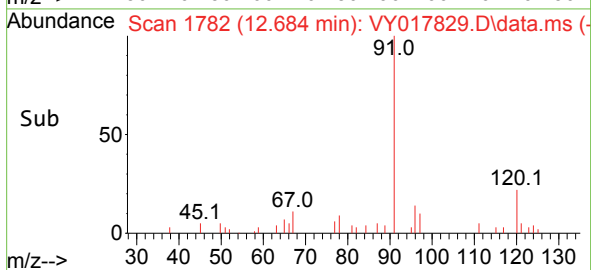
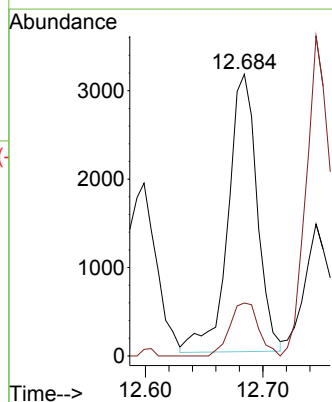
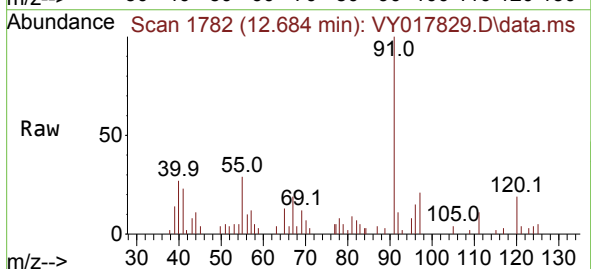
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

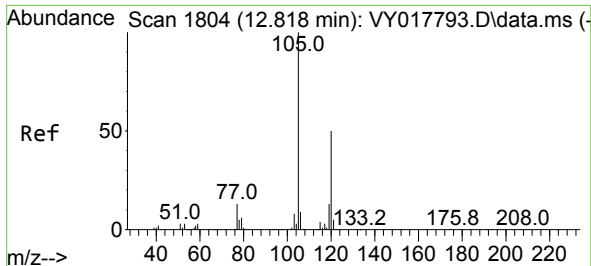
Tgt Ion: 75 Resp: 43375
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#78
n-propylbenzene
Concen: 1.232 ug/l
RT: 12.684 min Scan# 1782
Delta R.T. 0.006 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 91 Resp: 5409
Ion Ratio Lower Upper
91 100
120 18.9 11.5 34.4

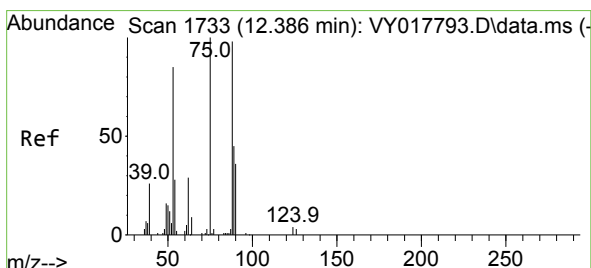
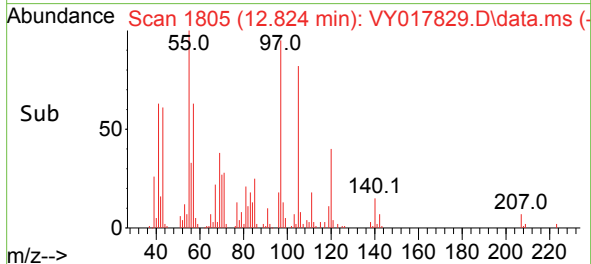
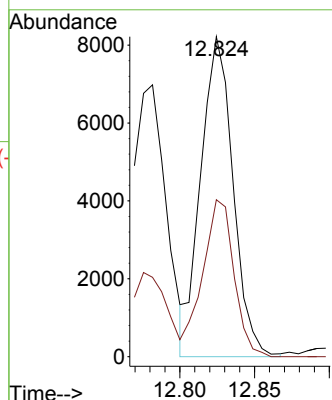
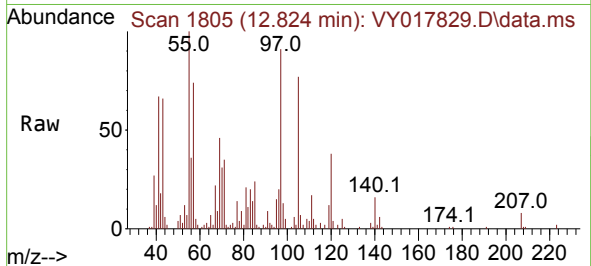




#80
1,3,5-Trimethylbenzene
Concen: 4.383 ug/l
RT: 12.824 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

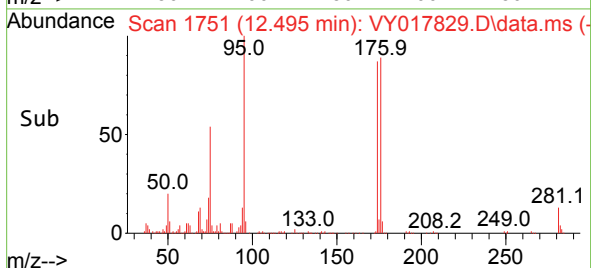
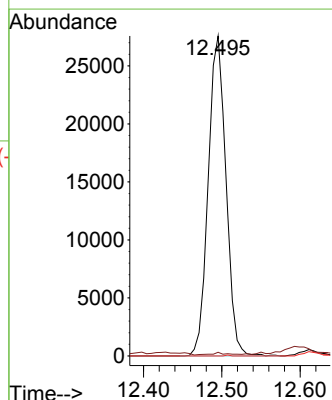
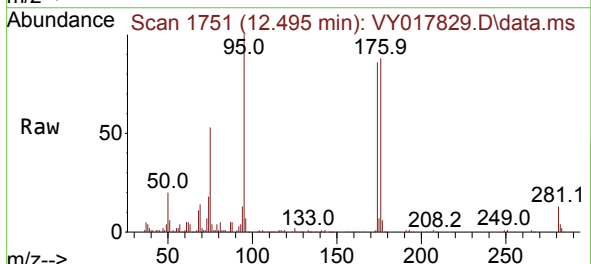
Instrument :
MSVOA_Y
ClientSampleId :
RBR21145

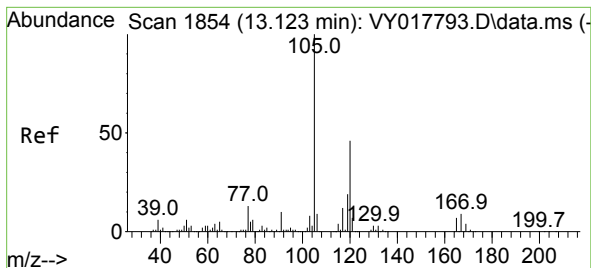
Tgt Ion:105 Resp: 12305
Ion Ratio Lower Upper
105 100
120 47.8 25.1 75.2



#81
trans-1,4-Dichloro-2-butene
Concen: 157.545 ug/l
RT: 12.495 min Scan# 1751
Delta R.T. 0.109 min
Lab File: VY017829.D
Acq: 03 Apr 2024 12:12

Tgt Ion: 75 Resp: 43375
Ion Ratio Lower Upper
75 100
53 0.4 66.8 100.2#
89 0.1 35.8 53.6#





#84

1,2,4-Trimethylbenzene

Concen: 11.023 ug/l

RT: 13.129 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

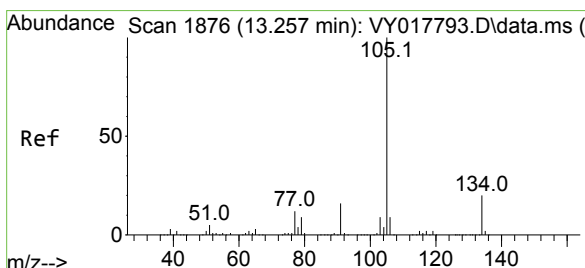
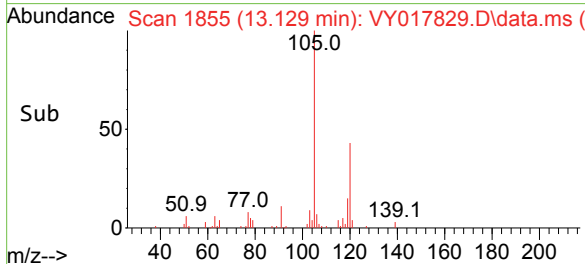
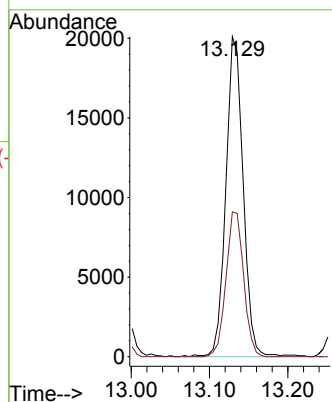
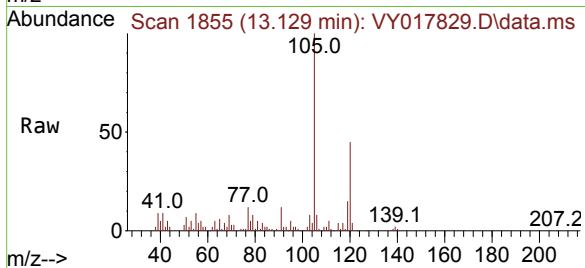
RBR21145

Tgt Ion:105 Resp: 30822

Ion Ratio Lower Upper

105 100

120 46.3 23.2 69.6



#85

sec-Butylbenzene

Concen: 1.268 ug/l

RT: 13.263 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VY017829.D

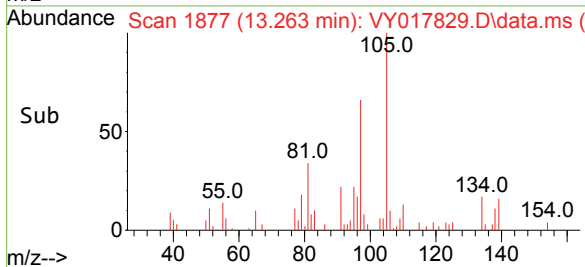
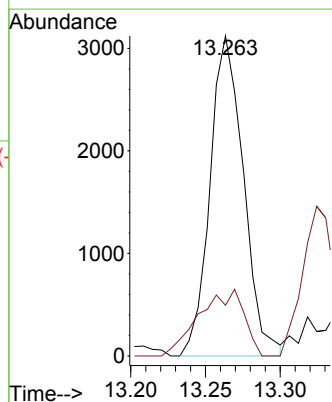
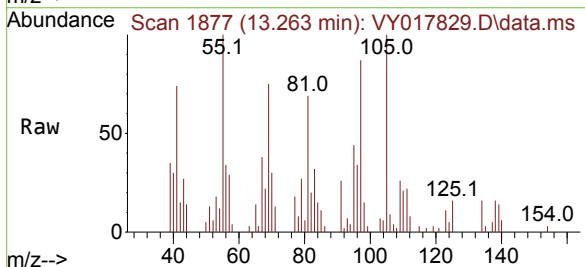
Acq: 03 Apr 2024 12:12

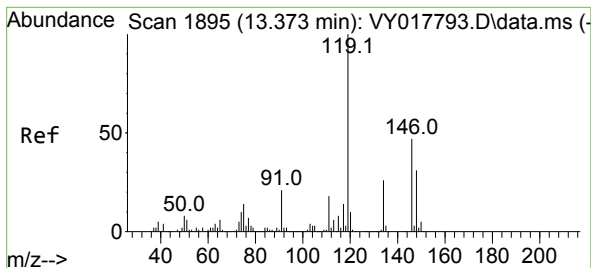
Tgt Ion:105 Resp: 4857

Ion Ratio Lower Upper

105 100

134 27.7 10.1 30.1





#86

p-Isopropyltoluene

Concen: 4.143 ug/l

RT: 13.379 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

RBR21145

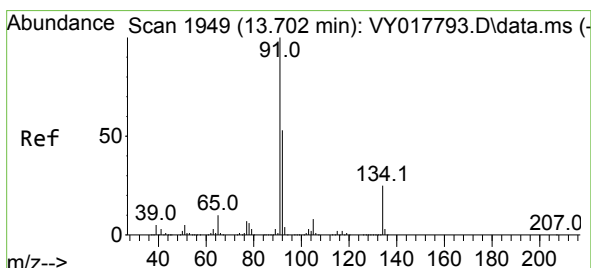
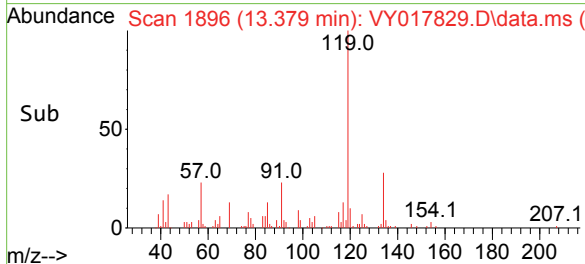
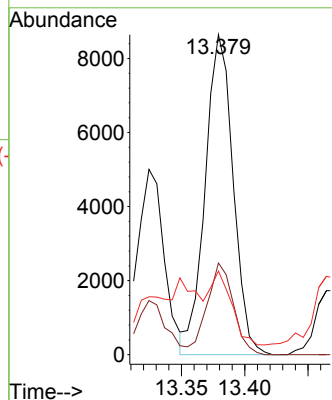
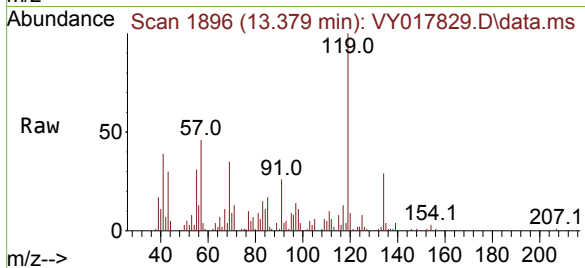
Tgt Ion:119 Resp: 13268

Ion Ratio Lower Upper

119 100

134 26.9 13.1 39.3

91 17.8 10.7 32.1



#89

n-Butylbenzene

Concen: 1.865 ug/l

RT: 13.708 min Scan# 1950

Delta R.T. 0.006 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

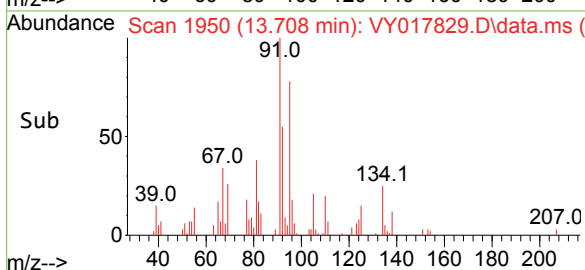
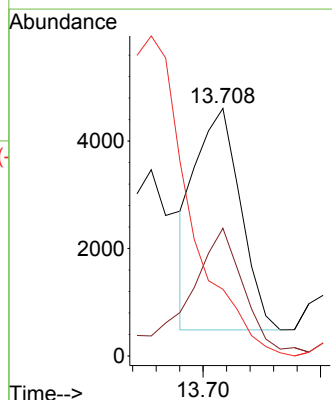
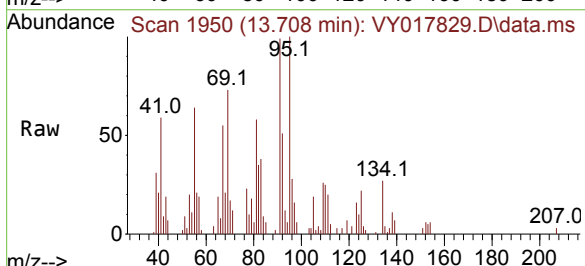
Tgt Ion: 91 Resp: 5493

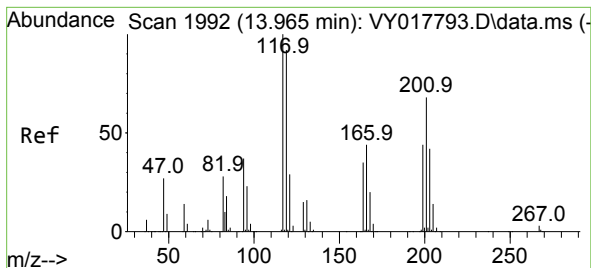
Ion Ratio Lower Upper

91 100

92 68.1 26.6 79.7

134 0.0 12.9 38.7#





#90

Hexachloroethane

Concen: 5.096 ug/l

RT: 13.983 min Scan# 1995

Delta R.T. 0.018 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

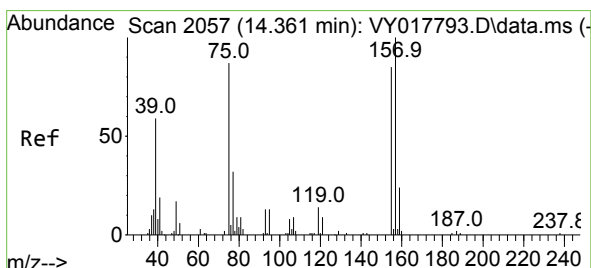
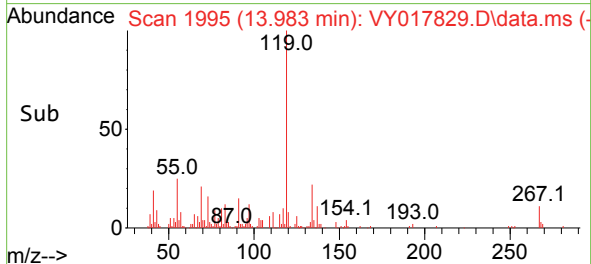
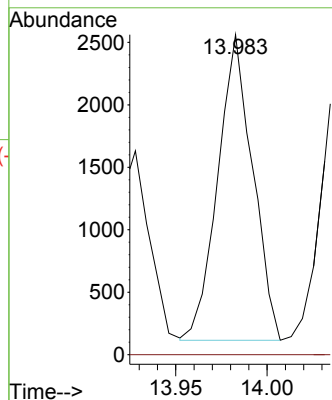
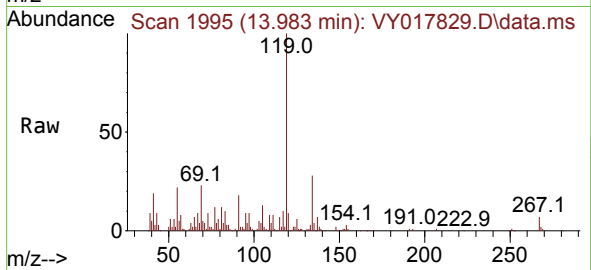
RBR21145

Tgt Ion:117 Resp: 3245

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.638 ug/l

RT: 14.336 min Scan# 2053

Delta R.T. -0.025 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

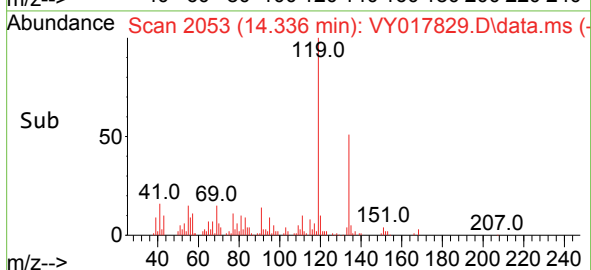
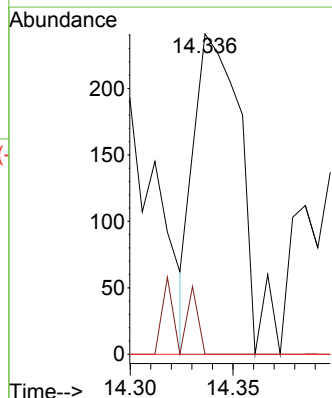
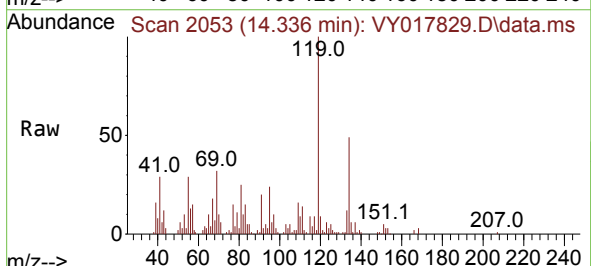
Tgt Ion: 75 Resp: 390

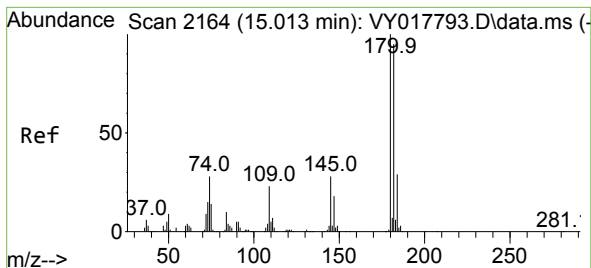
Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

157 0.0 62.7 188.2#





#93

1,2,4-Trichlorobenzene

Concen: 1.556 ug/l

RT: 15.007 min Scan# 2163

Delta R.T. -0.006 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

Instrument :

MSVOA_Y

ClientSampleId :

RBR21145

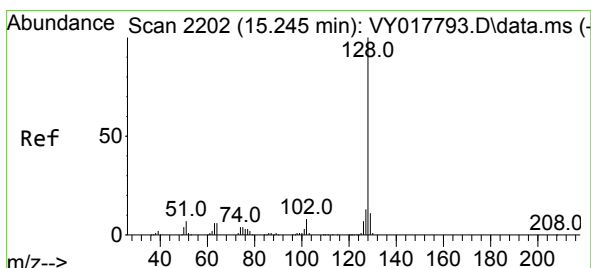
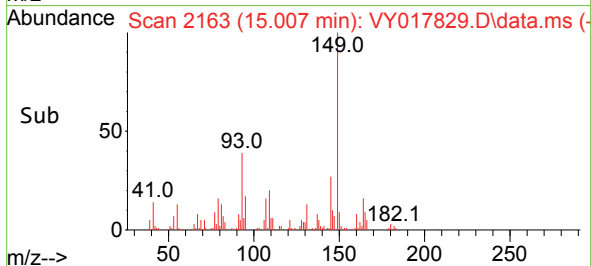
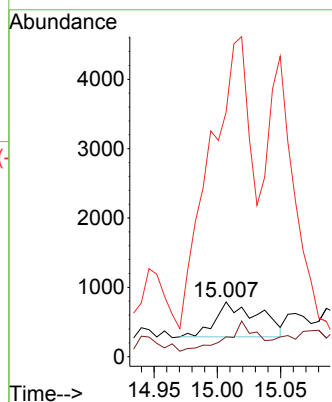
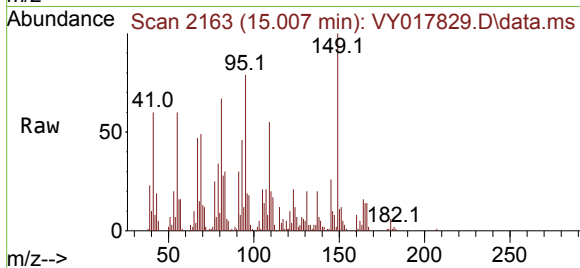
Tgt Ion:180 Resp: 1201

Ion Ratio Lower Upper

180 100

182 48.8 47.9 143.8

145 902.5 14.2 42.6#



#95

Naphthalene

Concen: 7.670 ug/l

RT: 15.245 min Scan# 2202

Delta R.T. -0.000 min

Lab File: VY017829.D

Acq: 03 Apr 2024 12:12

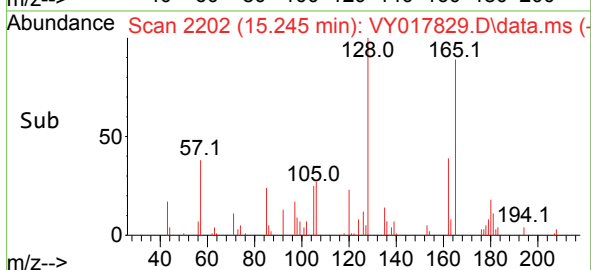
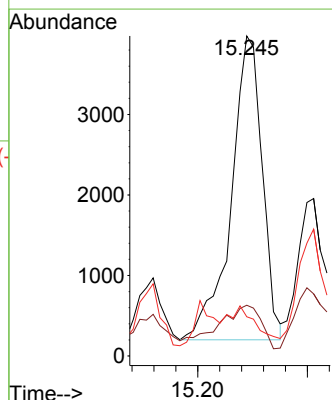
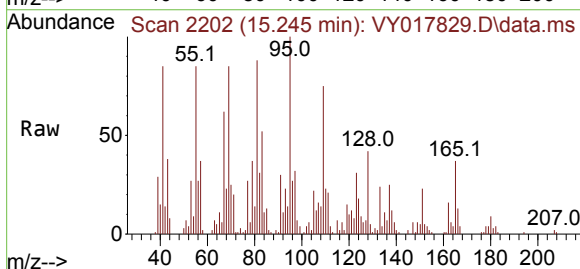
Tgt Ion:128 Resp: 7425

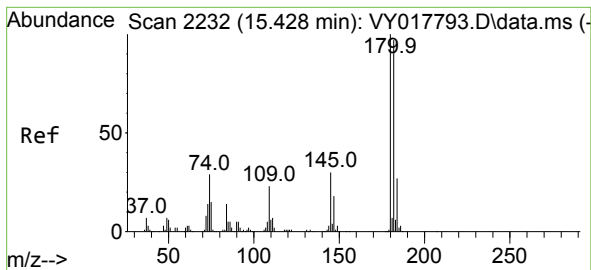
Ion Ratio Lower Upper

128 100

127 20.2 10.6 16.0#

129 8.2 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 9.533 ug/l
 RT: 15.403 min Scan# 21
 Delta R.T. -0.025 min
 Lab File: VY017829.D
 Acq: 03 Apr 2024 12:12

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR21145

Tgt Ion:180 Resp: 6215
 Ion Ratio Lower Upper
 180 100
 182 6.8 47.6 142.9#
 145 63.0 15.4 46.1#

