

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091324\
 Data File : VY019545.D
 Acq On : 13 Sep 2024 17:32
 Operator : SY/MD
 Sample : P3985-01
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3

Quant Time: Sep 13 23:35:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

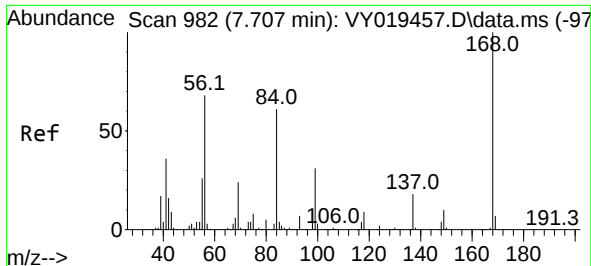
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.701	168	163587	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	280961	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	214428	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	71330	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	77730	51.314	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.620%	
35) Dibromofluoromethane	7.628	113	82872	52.023	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.040%	
50) Toluene-d8	10.103	98	318255	54.014	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 108.020%	
62) 4-Bromofluorobenzene	12.401	95	89594	39.546	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 79.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.873	85	53	Below Cal	#	43
11) Tert butyl alcohol	4.854	59	639	5.224	ug/l	# 88
13) Acrolein	3.647	56	94	Below Cal	#	15
16) Acetone	3.854	43	21434	59.395	ug/l	# 79
20) Methylene Chloride	4.610	84	3916	2.379	ug/l	96
25) 2-Butanone	6.878	43	8415	16.395	ug/l	# 73
26) 2,2-Dichloropropane	6.884	77	2874	1.062	ug/l	# 51
31) Cyclohexane	7.707	56	4492	1.657	ug/l	# 37
36) 1,1-Dichloropropene	7.701	75	14213	6.557	ug/l	# 48
38) Carbon Tetrachloride	7.695	117	17932	7.336	ug/l	# 17
40) Benzene	8.073	78	1102300	165.105	ug/l	99
42) 1,2-Dichloroethane	8.067	62	9945	5.536	ug/l	72
51) 4-Methyl-2-Pentanone	10.006	43	1299	1.107	ug/l	# 81
52) Toluene	10.170	92	12892	3.002	ug/l	91
67) Ethyl Benzene	11.517	91	282143	37.646	ug/l	100
68) m/p-Xylenes	11.621	106	102914	36.316	ug/l	94
69) o-Xylene	11.950	106	83405	30.094	ug/l	92
73) Isopropylbenzene	12.255	105	16537	3.196	ug/l	98
76) 1,2,3-Trichloropropane	12.401	75	48144	72.010	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.731	105	19062	4.531	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.401	75	48144	138.239	ug/l	# 16
84) 1,2,4-Trimethylbenzene	13.042	105	16518	3.967	ug/l	96
85) sec-Butylbenzene	13.042	105	16518	2.986	ug/l	# 56
89) n-Butylbenzene	13.541	91	7950	1.837	ug/l	# 42

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
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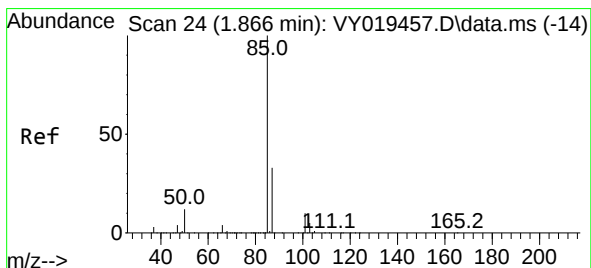
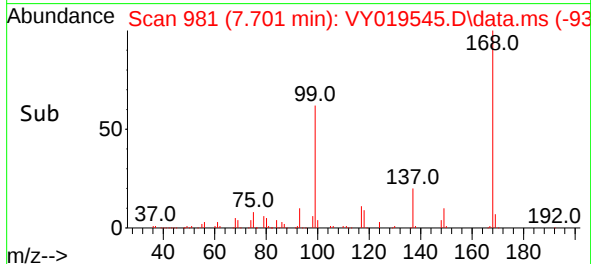
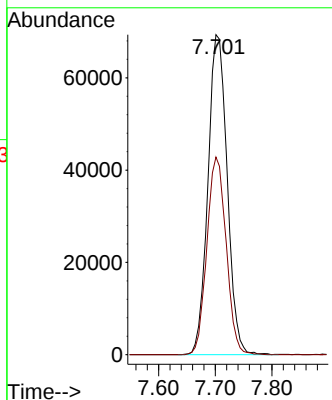
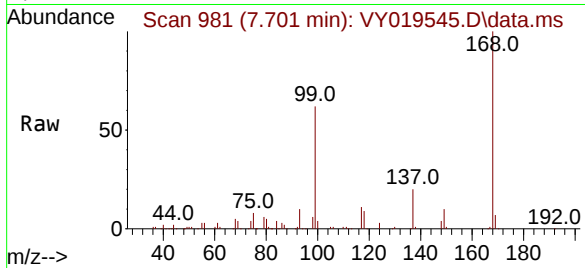




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

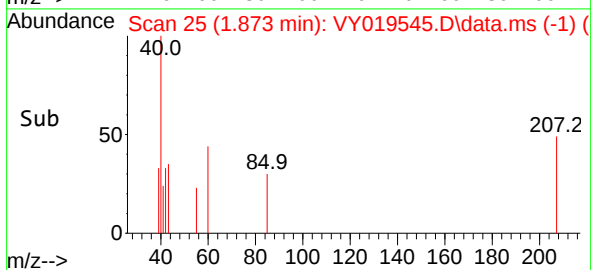
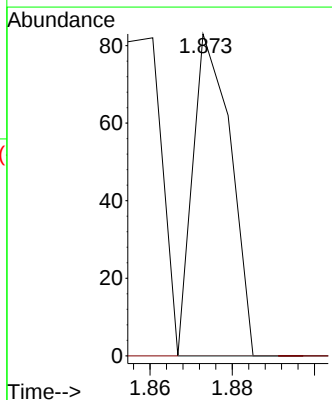
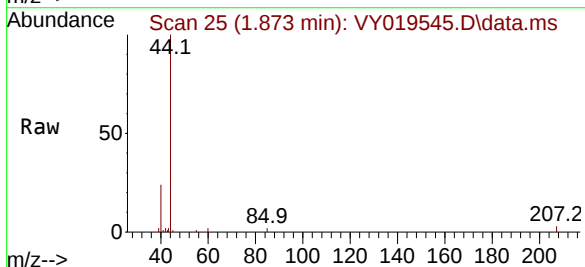
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

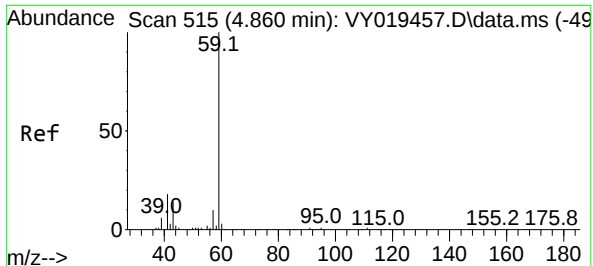
Tgt Ion:168 Resp: 163587
Ion Ratio Lower Upper
168 100
99 61.7 39.1 58.7#



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.873 min Scan# 25
Delta R.T. 0.007 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion: 85 Resp: 53
Ion Ratio Lower Upper
85 100
87 0.0 16.0 48.0#





#11

Tert butyl alcohol

Concen: 5.224 ug/l

RT: 4.854 min Scan# 515

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

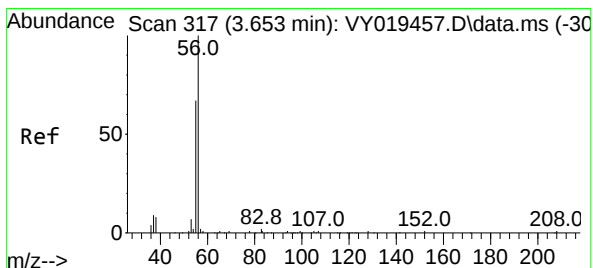
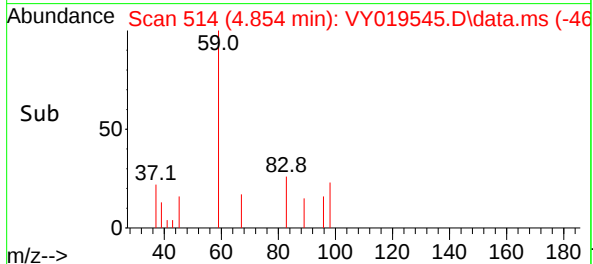
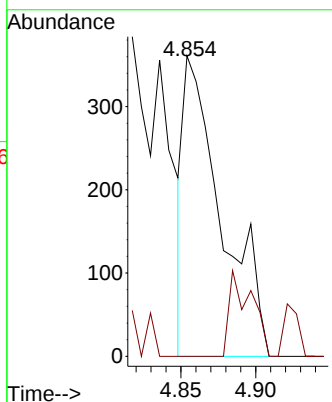
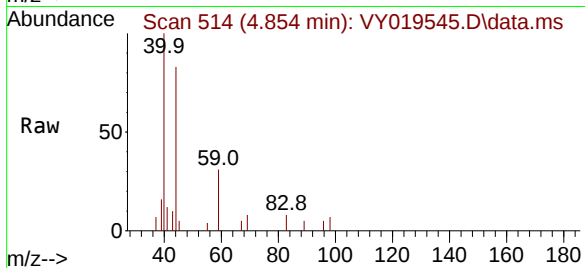
TP-3

Tgt Ion: 59 Resp: 639

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.647 min Scan# 316

Delta R.T. -0.006 min

Lab File: VY019545.D

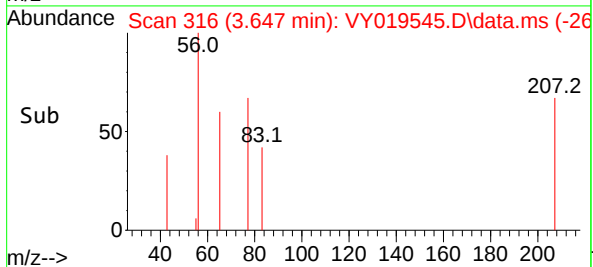
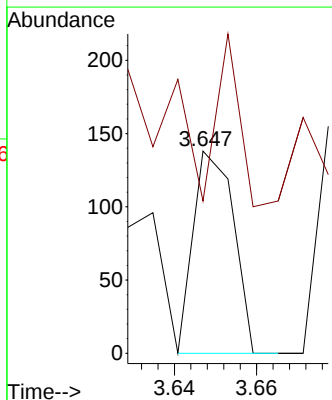
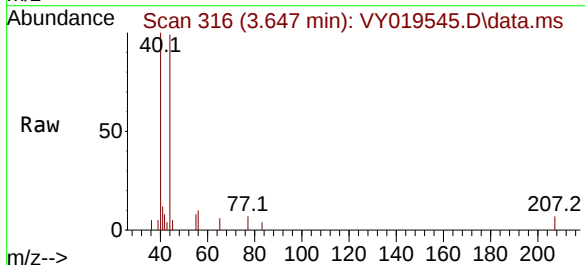
Acq: 13 Sep 2024 17:32

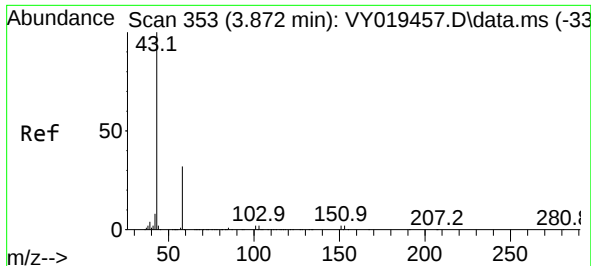
Tgt Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#





#16

Acetone

Concen: 59.395 ug/l

RT: 3.854 min Scan# 3

Delta R.T. -0.018 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

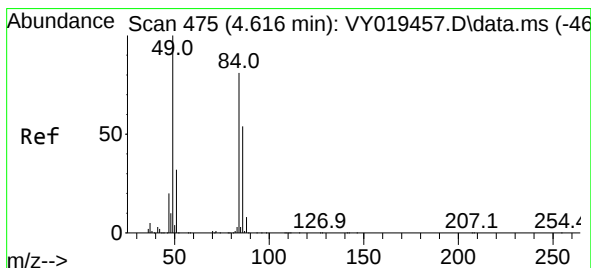
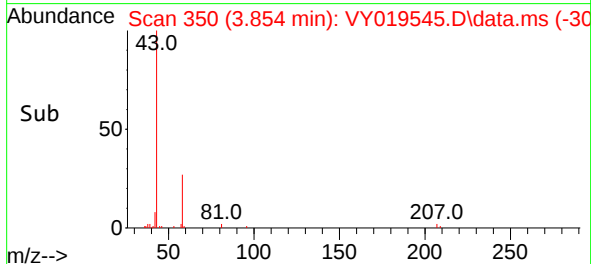
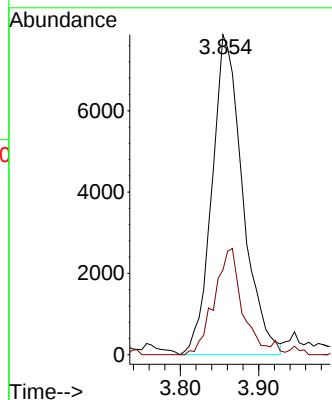
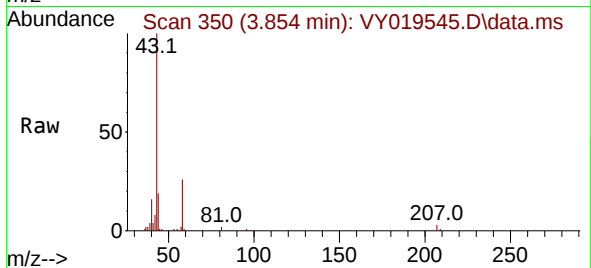
TP-3

Tgt Ion: 43 Resp: 21434

Ion Ratio Lower Upper

43 100

58 26.4 31.7 47.5#



#20

Methylene Chloride

Concen: 2.379 ug/l

RT: 4.610 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Tgt Ion: 84 Resp: 3916

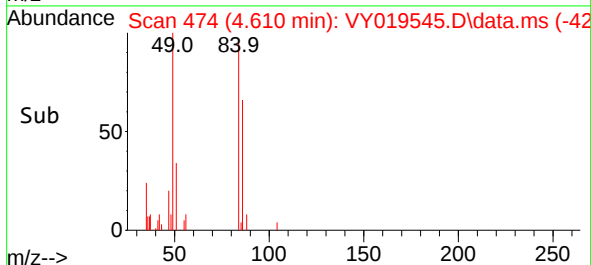
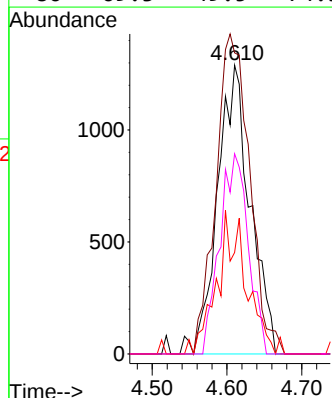
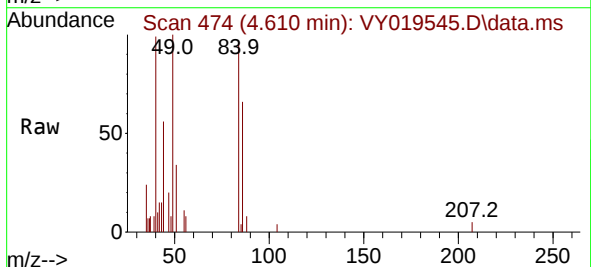
Ion Ratio Lower Upper

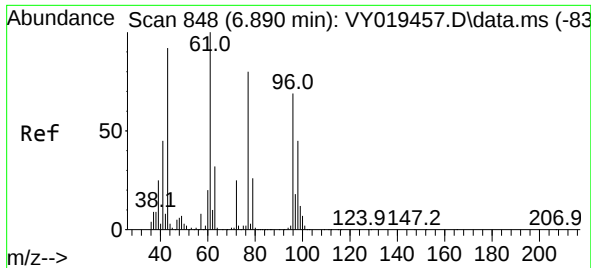
84 100

49 104.3 84.4 126.6

51 35.1 26.0 39.0

86 69.3 49.5 74.3

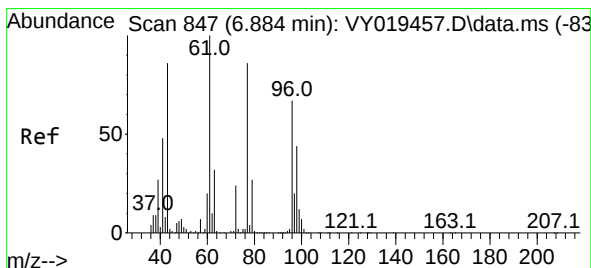
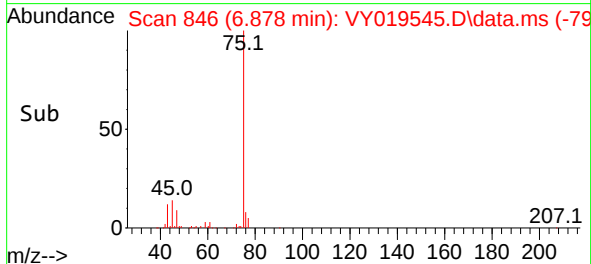
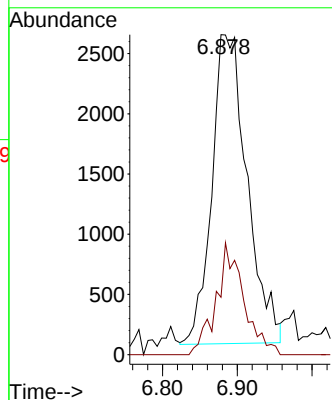
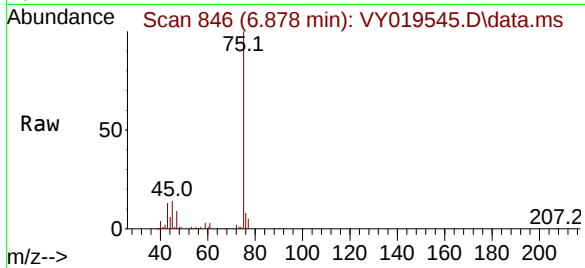




#25
2-Butanone
Concen: 16.395 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.012 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

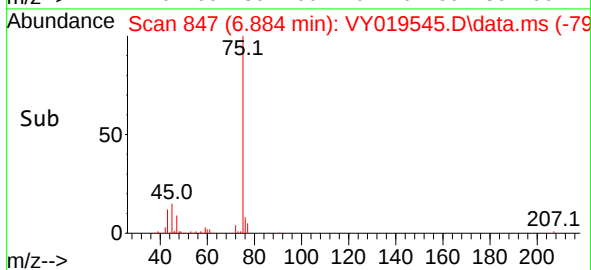
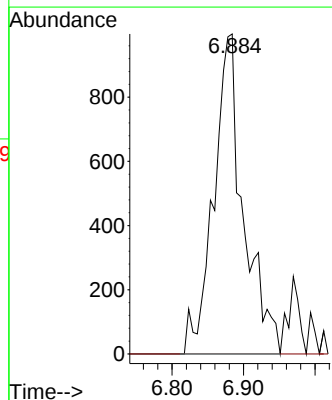
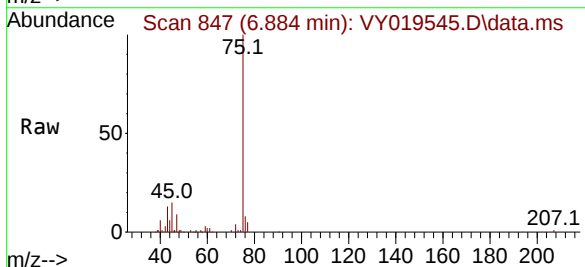
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

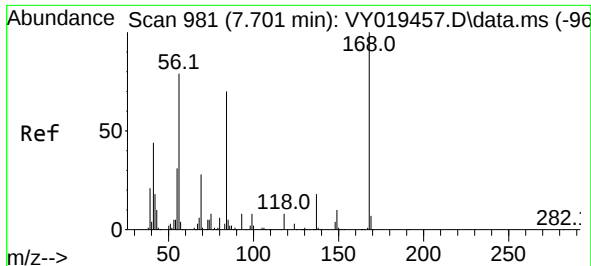
Tgt Ion: 43 Resp: 8415
Ion Ratio Lower Upper
43 100
72 18.7 27.3 40.9#



#26
2,2-Dichloropropane
Concen: 1.062 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion: 77 Resp: 2874
Ion Ratio Lower Upper
77 100
97 0.0 12.0 36.1#

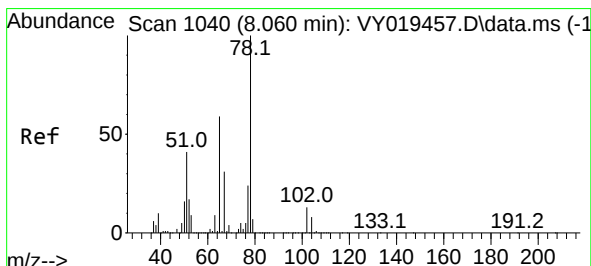
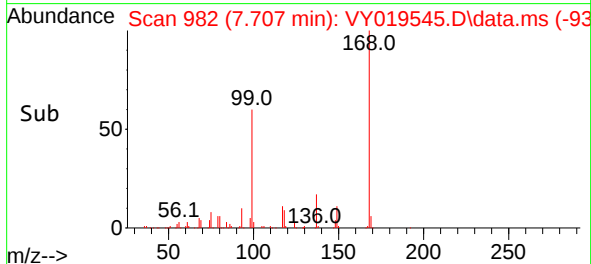
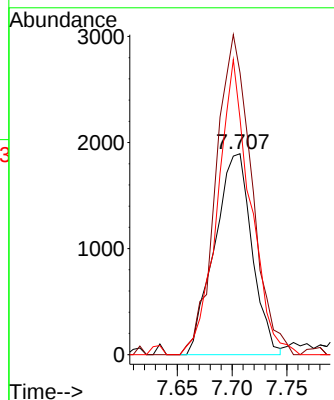
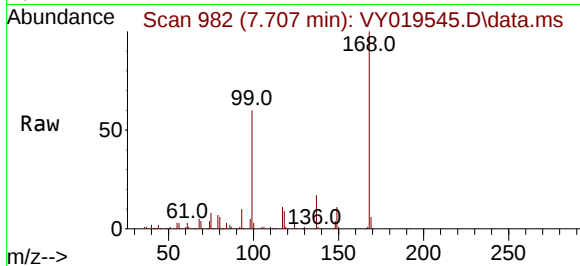




#31
Cyclohexane
Concen: 1.657 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

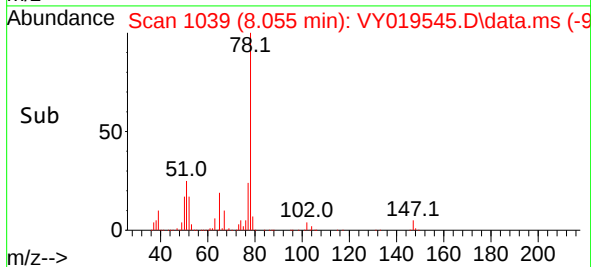
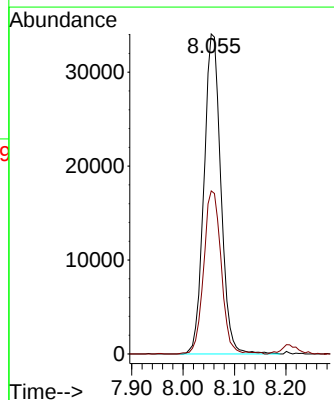
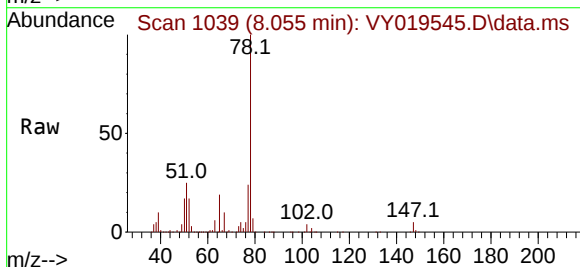
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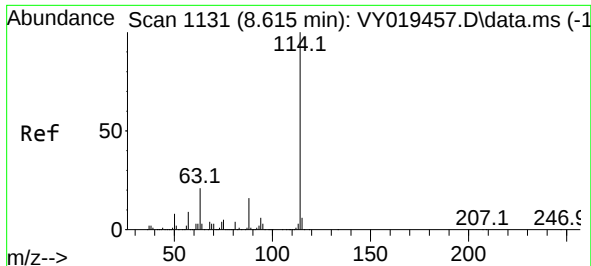
Tgt Ion: 56 Resp: 4492
Ion Ratio Lower Upper
56 100
69 140.2 28.7 43.1#
84 117.5 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 51.314 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion: 65 Resp: 77730
Ion Ratio Lower Upper
65 100
67 52.8 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

TP-3

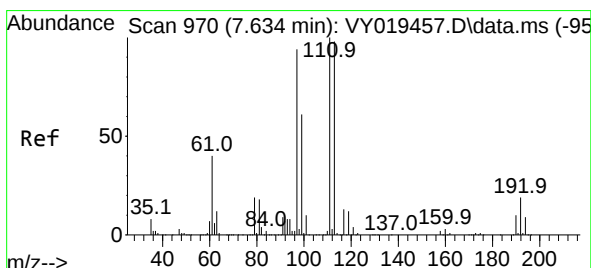
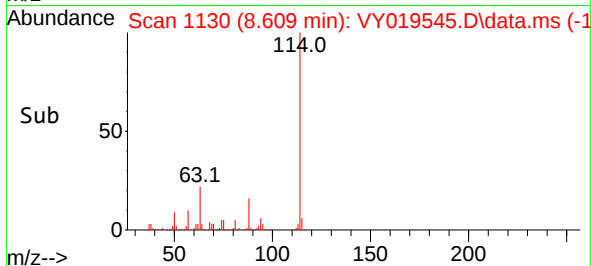
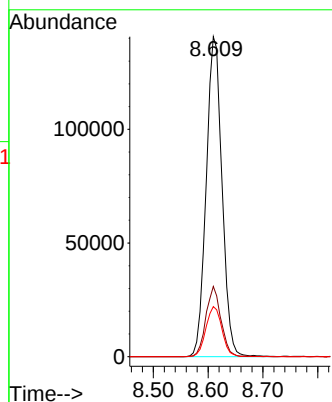
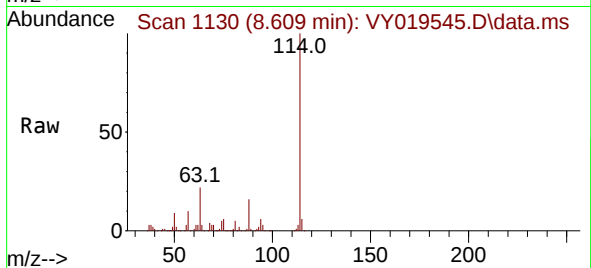
Tgt Ion:114 Resp: 280961

Ion Ratio Lower Upper

114 100

63 22.0 0.0 35.0

88 15.7 0.0 27.2



#35

Dibromofluoromethane

Concen: 52.023 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

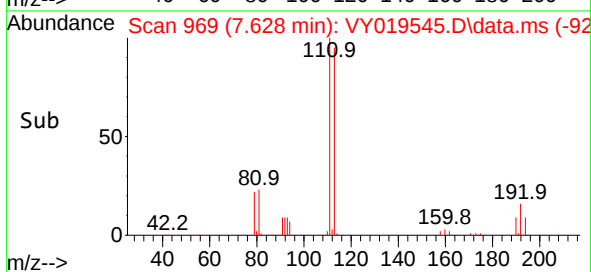
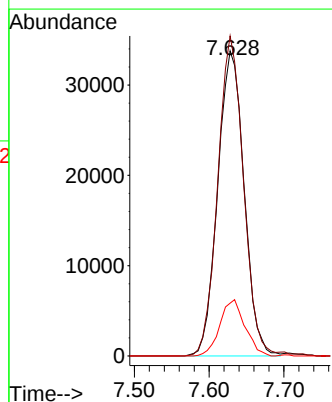
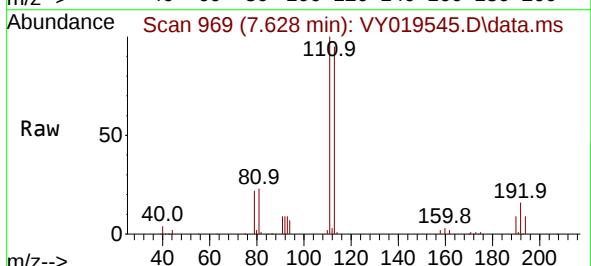
Tgt Ion:113 Resp: 82872

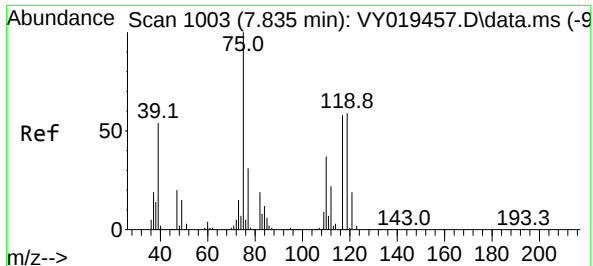
Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

192 17.6 15.9 23.9





#36

1,1-Dichloropropene

Concen: 6.557 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

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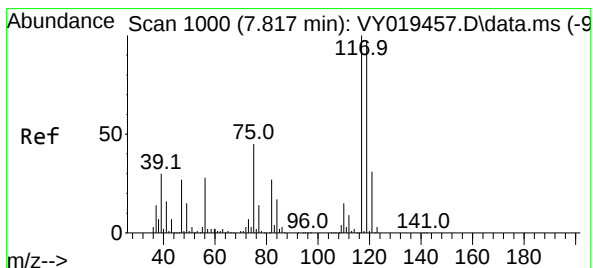
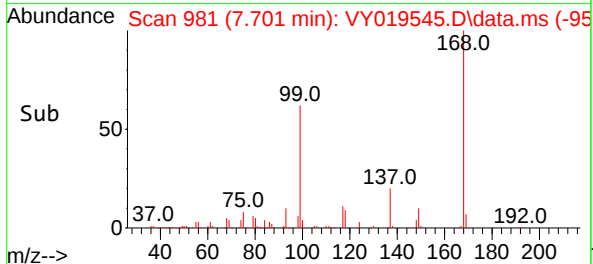
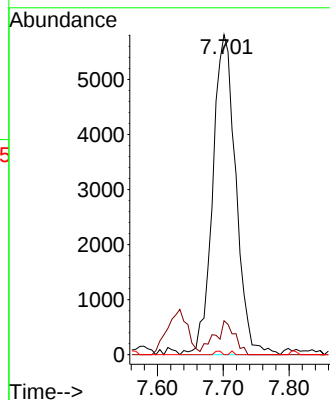
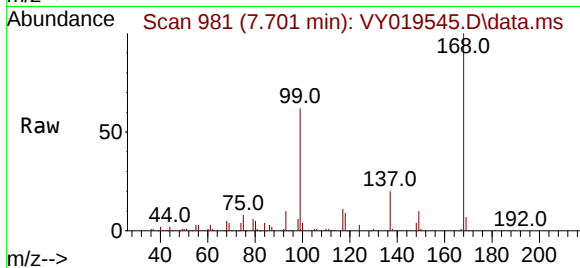
Tgt Ion: 75 Resp: 14213

Ion Ratio Lower Upper

75 100

110 9.2 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 7.336 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.122 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

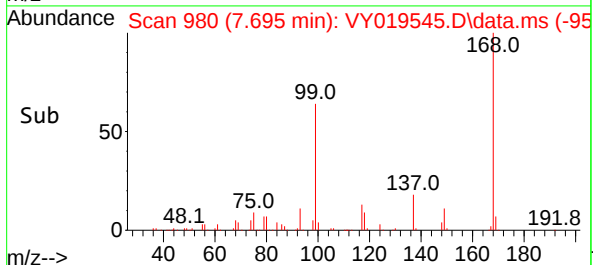
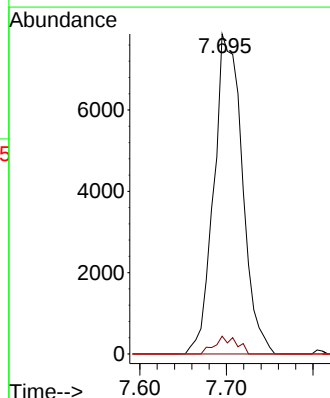
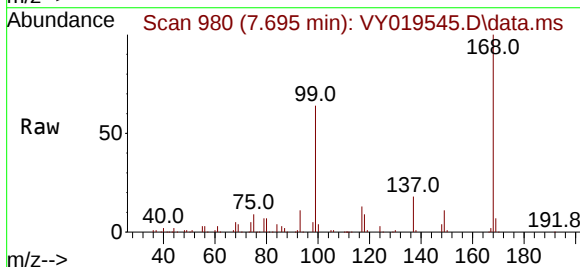
Tgt Ion: 117 Resp: 17932

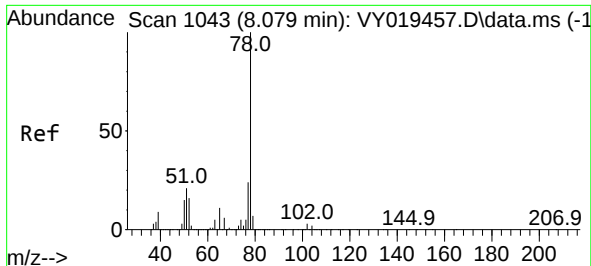
Ion Ratio Lower Upper

117 100

119 5.6 75.8 113.6#

121 0.0 24.0 36.0#

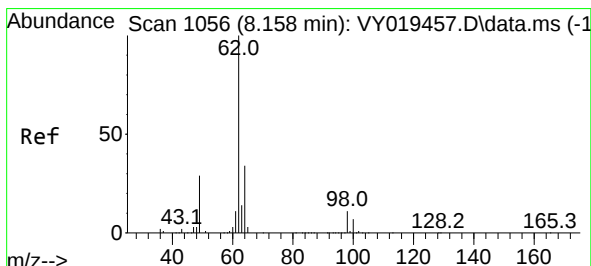
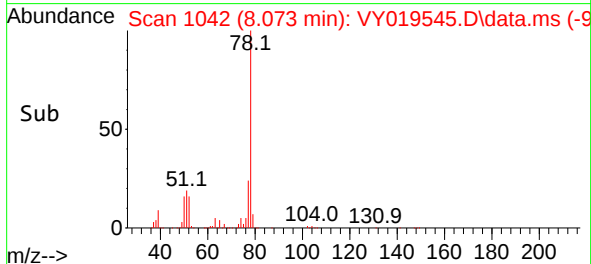
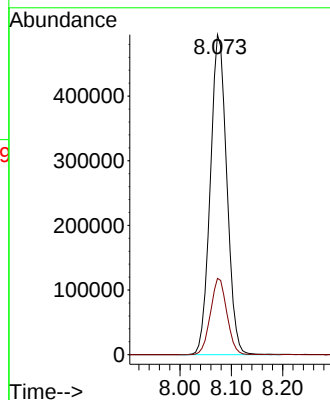
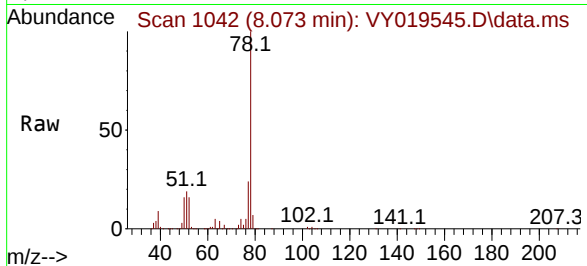




#40
Benzene
Concen: 165.105 ug/l
RT: 8.073 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

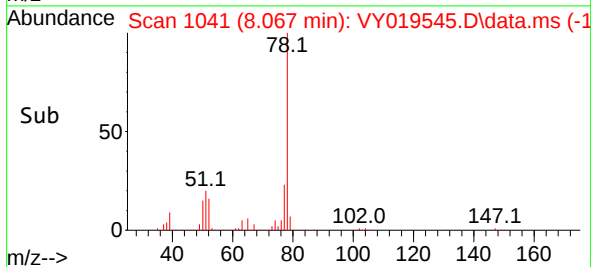
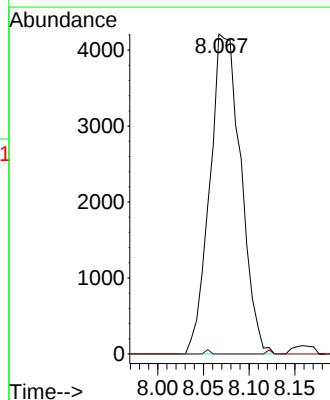
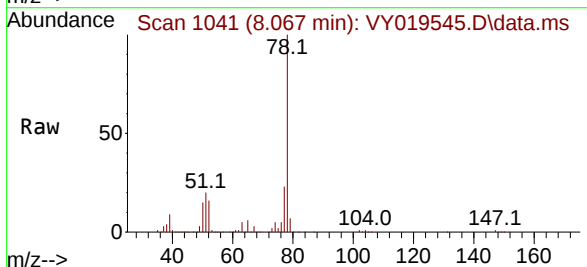
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

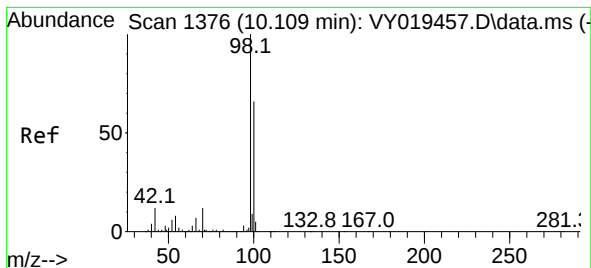
Tgt Ion: 78 Resp: 1102300
Ion Ratio Lower Upper
78 100
77 23.9 19.5 29.3



#42
1,2-Dichloroethane
Concen: 5.536 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.091 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion: 62 Resp: 9945
Ion Ratio Lower Upper
62 100
98 0.2 0.0 22.0





#50

Toluene-d8

Concen: 54.014 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

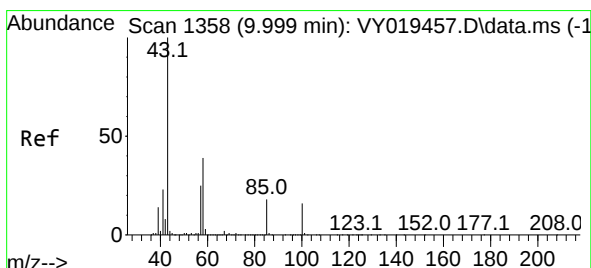
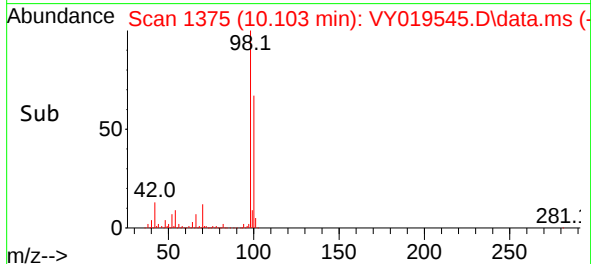
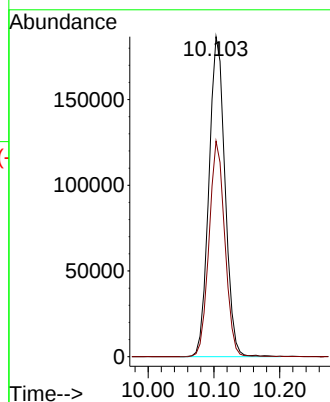
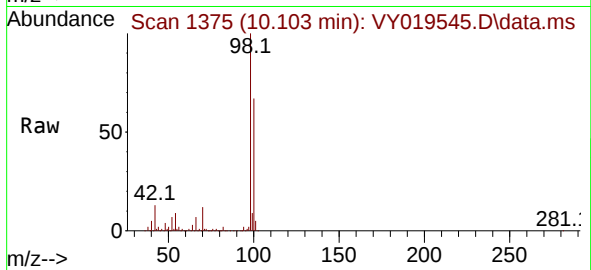
TP-3

Tgt Ion: 98 Resp: 318255

Ion Ratio Lower Upper

98 100

100 66.0 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 1.107 ug/l

RT: 10.006 min Scan# 1359

Delta R.T. 0.006 min

Lab File: VY019545.D

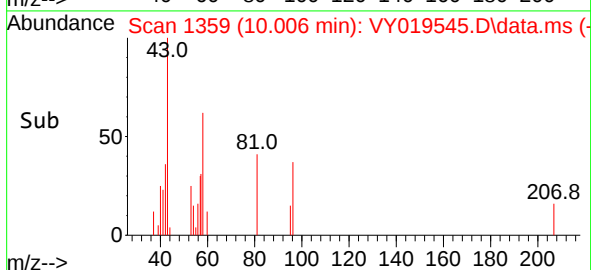
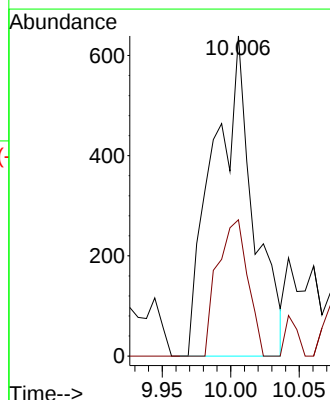
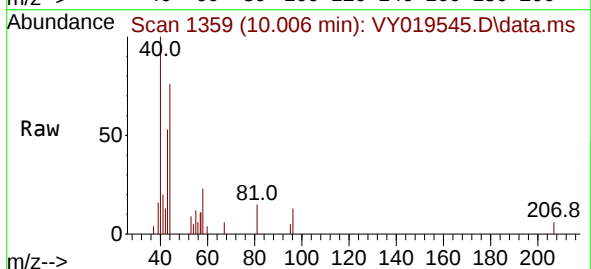
Acq: 13 Sep 2024 17:32

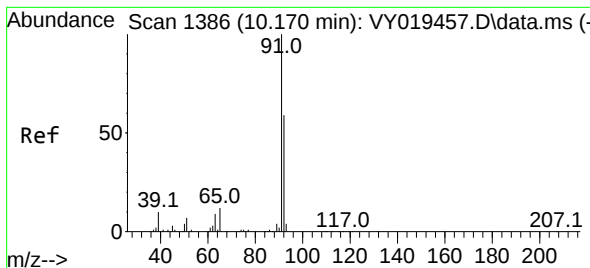
Tgt Ion: 43 Resp: 1299

Ion Ratio Lower Upper

43 100

58 32.2 35.7 53.5#





#52

Toluene

Concen: 3.002 ug/l

RT: 10.170 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

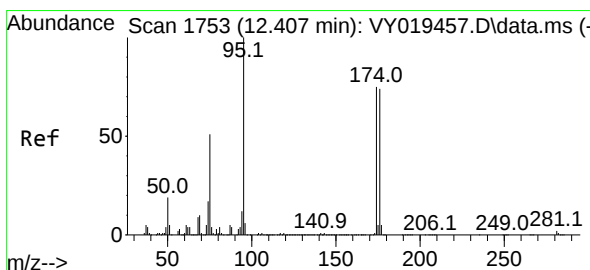
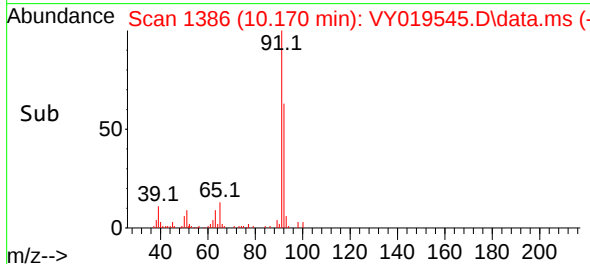
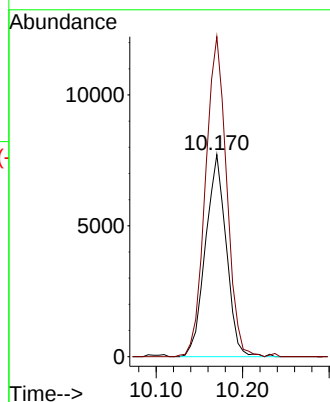
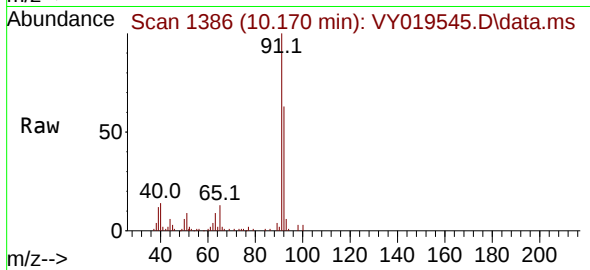
TP-3

Tgt Ion: 92 Resp: 12892

Ion Ratio Lower Upper

92 100

91 160.9 139.0 208.6



#62

4-Bromofluorobenzene

Concen: 39.546 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

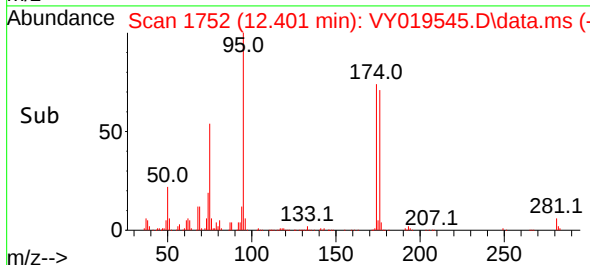
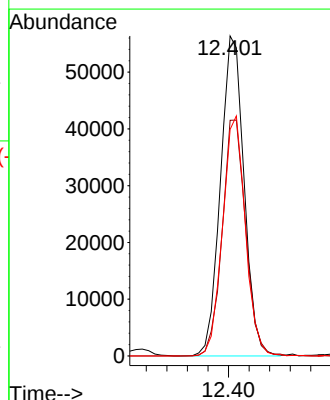
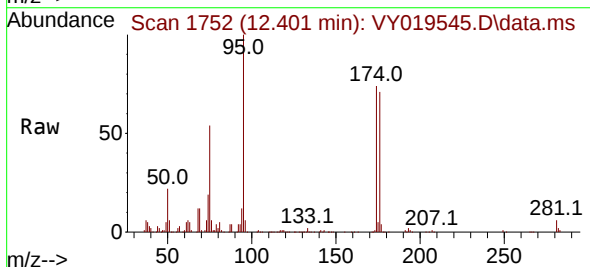
Tgt Ion: 95 Resp: 89594

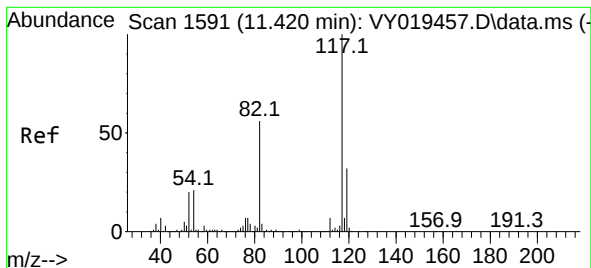
Ion Ratio Lower Upper

95 100

174 73.6 0.0 175.6

176 72.5 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

TP-3

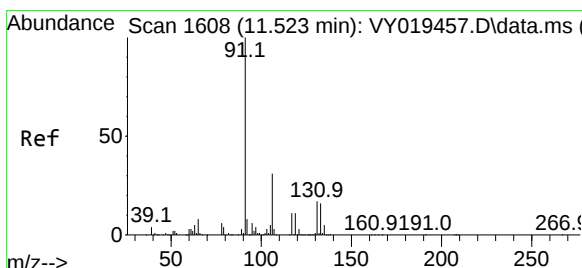
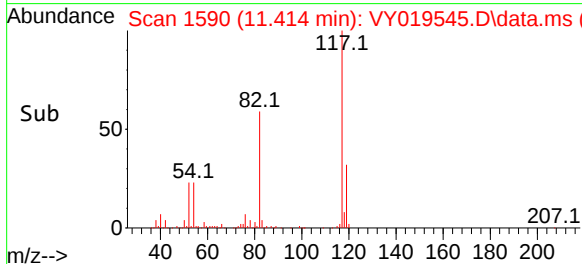
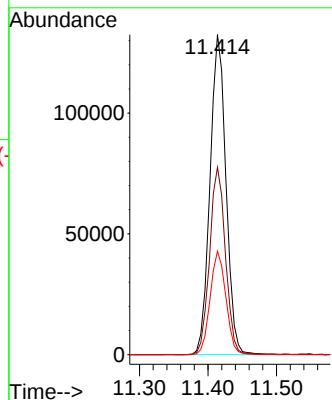
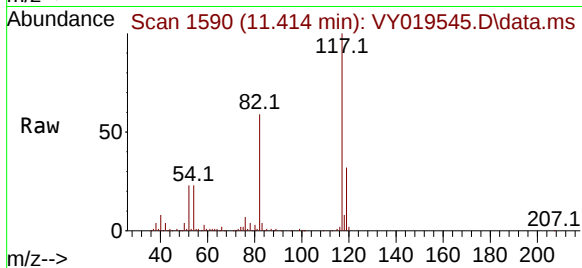
Tgt Ion:117 Resp: 214428

Ion Ratio Lower Upper

117 100

82 58.5 42.4 63.6

119 32.3 25.9 38.9



#67

Ethyl Benzene

Concen: 37.646 ug/l

RT: 11.517 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019545.D

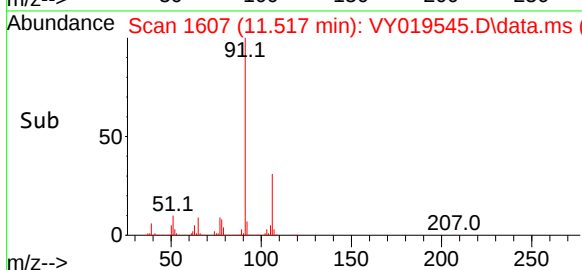
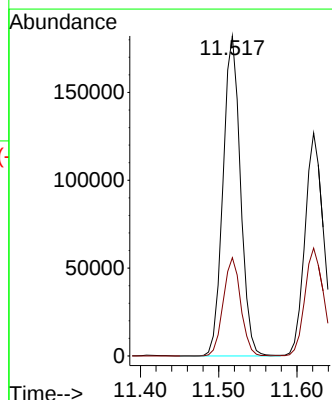
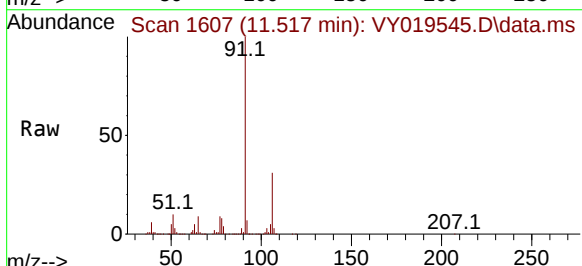
Acq: 13 Sep 2024 17:32

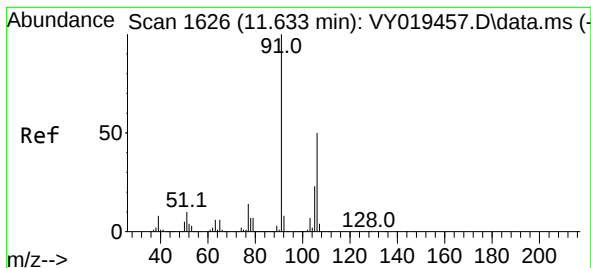
Tgt Ion: 91 Resp: 282143

Ion Ratio Lower Upper

91 100

106 30.7 24.5 36.7

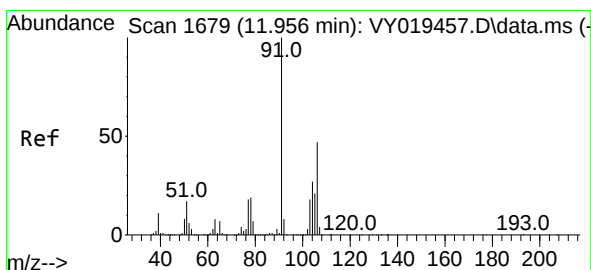
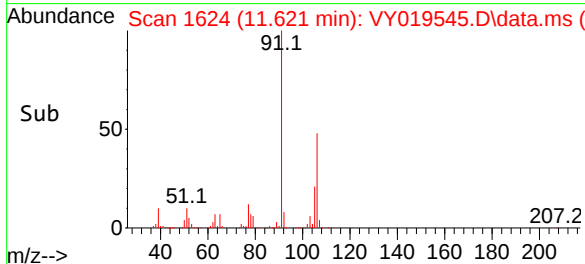
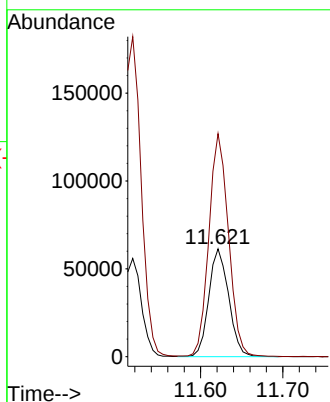
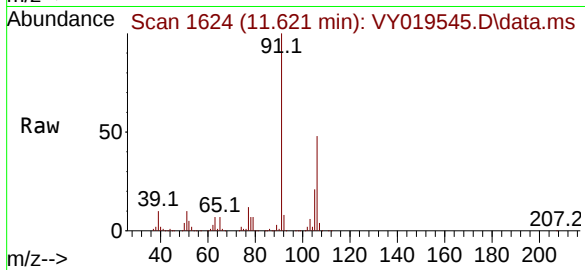




#68
m/p-Xylenes
Concen: 36.316 ug/l
RT: 11.621 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

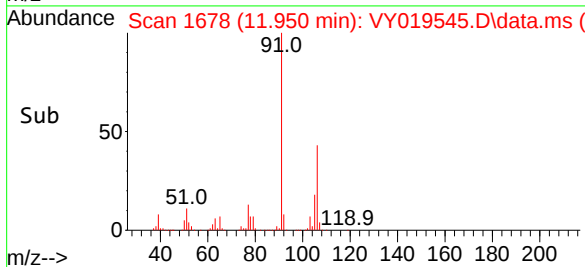
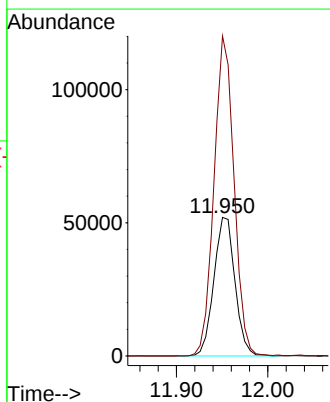
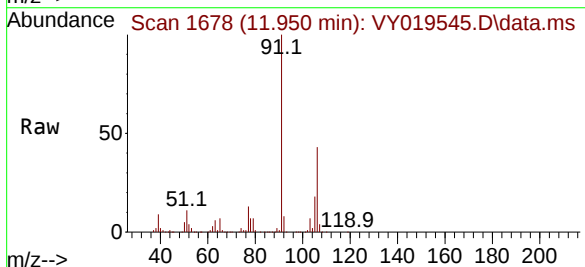
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

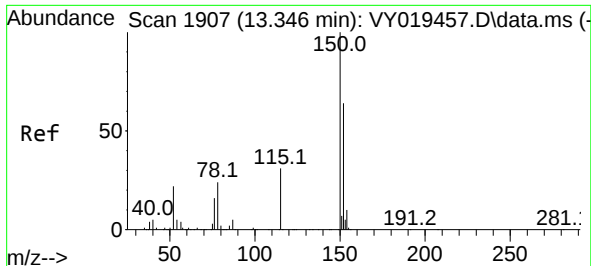
Tgt Ion:106 Resp: 102914
Ion Ratio Lower Upper
106 100
91 203.7 156.0 234.0



#69
o-Xylene
Concen: 30.094 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion:106 Resp: 83405
Ion Ratio Lower Upper
106 100
91 219.8 103.6 310.8

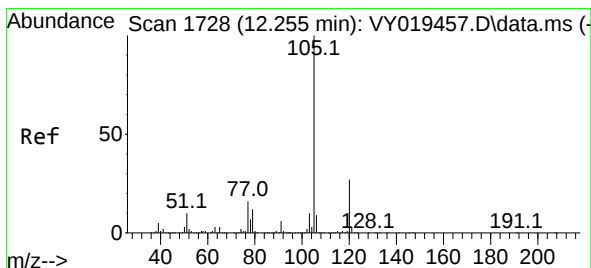
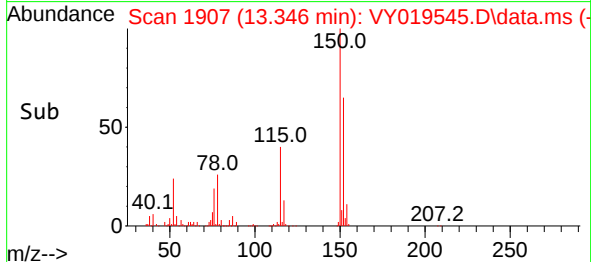
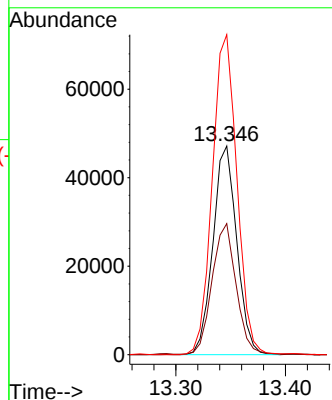
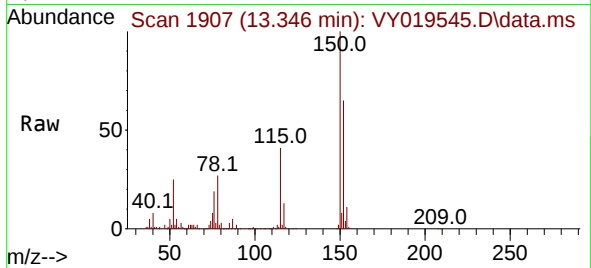




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

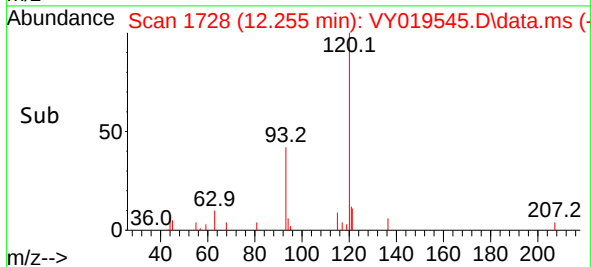
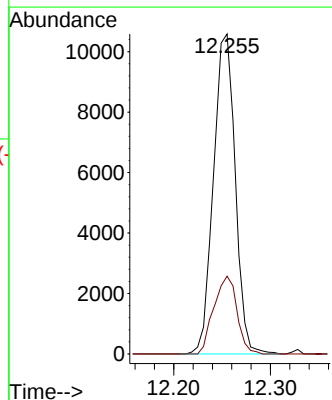
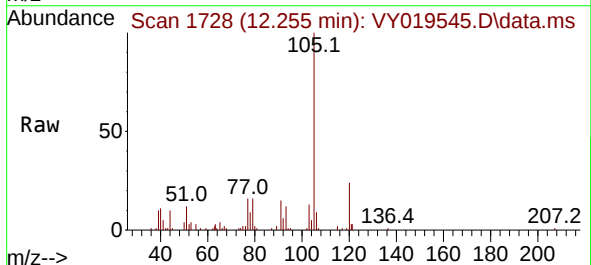
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

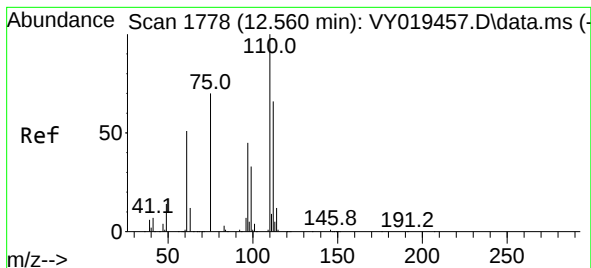
Tgt Ion:152 Resp: 71330
Ion Ratio Lower Upper
152 100
115 63.8 28.2 84.7
150 158.1 0.0 345.6



#73
Isopropylbenzene
Concen: 3.196 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion:105 Resp: 16537
Ion Ratio Lower Upper
105 100
120 25.9 13.4 40.1





#76

1,2,3-Trichloropropane

Concen: 72.010 ug/l

RT: 12.401 min Scan# 11

Delta R.T. -0.158 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

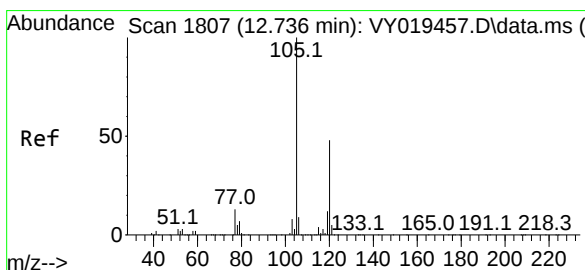
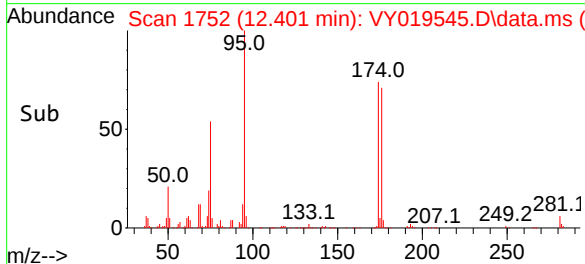
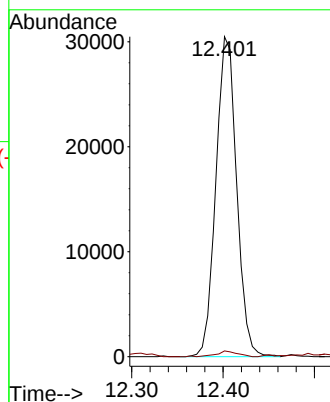
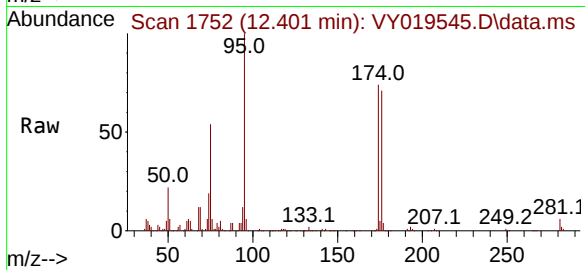
TP-3

Tgt Ion: 75 Resp: 48144

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 4.531 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. -0.006 min

Lab File: VY019545.D

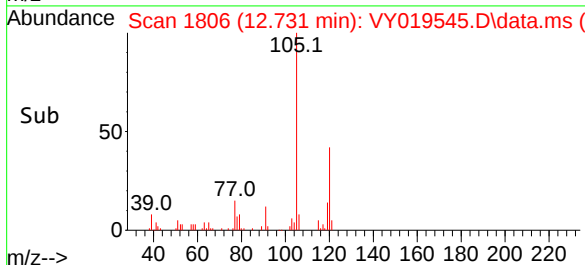
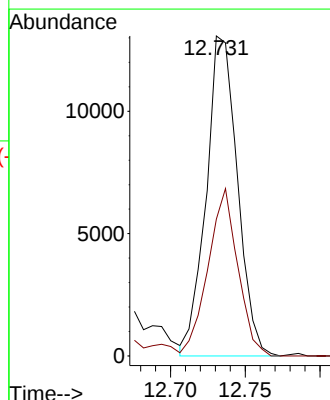
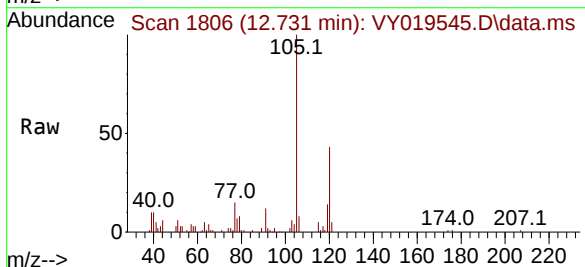
Acq: 13 Sep 2024 17:32

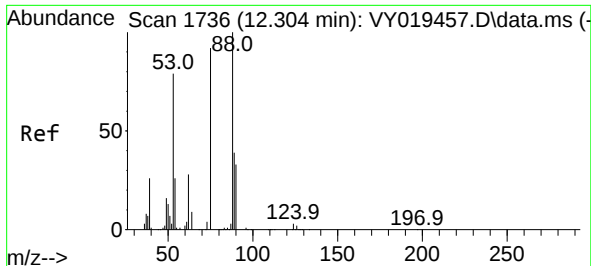
Tgt Ion:105 Resp: 19062

Ion Ratio Lower Upper

105 100

120 49.7 25.1 75.2

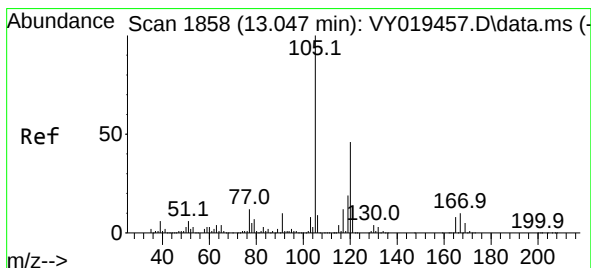
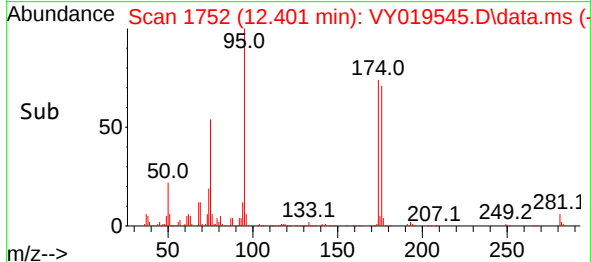
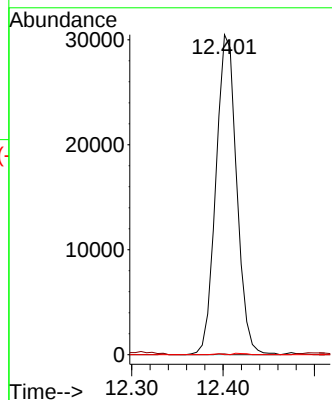
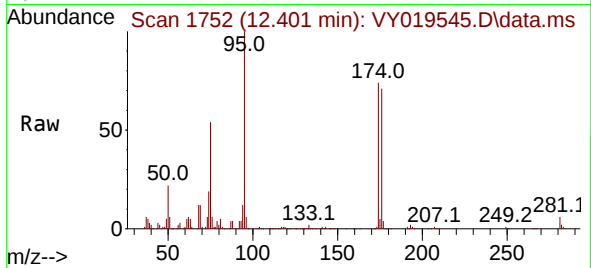




#81
trans-1,4-Dichloro-2-butene
Concen: 138.239 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

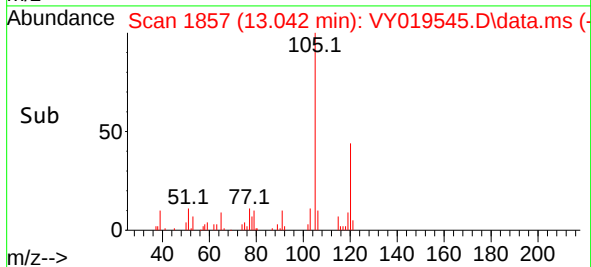
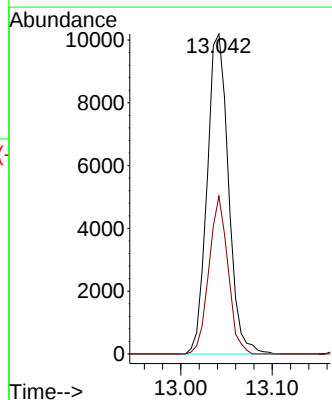
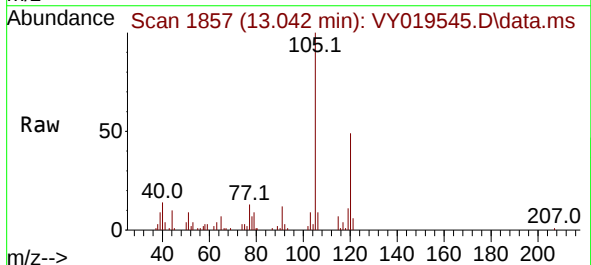
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

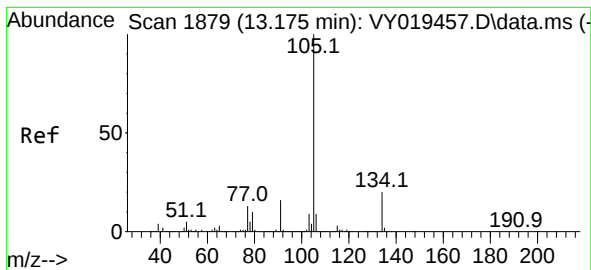
Tgt Ion: 75 Resp: 48144
Ion Ratio Lower Upper
75 100
53 0.1 66.8 100.2#
89 0.1 35.8 53.6#



#84
1,2,4-Trimethylbenzene
Concen: 3.967 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019545.D
Acq: 13 Sep 2024 17:32

Tgt Ion:105 Resp: 16518
Ion Ratio Lower Upper
105 100
120 43.8 23.2 69.6





#85

sec-Butylbenzene

Concen: 2.986 ug/l

RT: 13.042 min Scan# 1879

Delta R.T. -0.134 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Instrument :

MSVOA_Y

ClientSampleId :

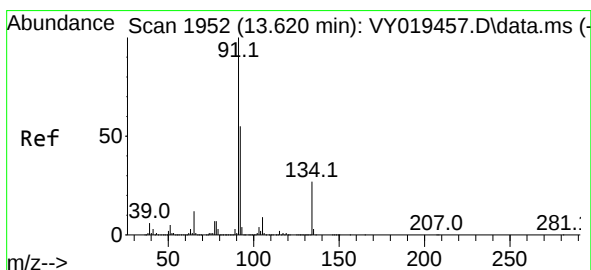
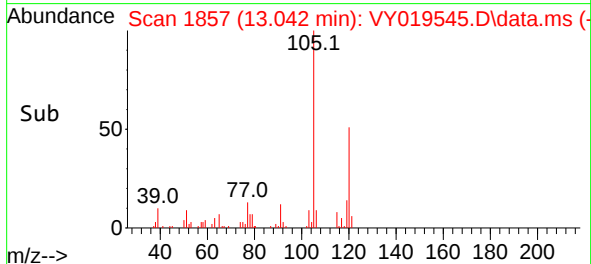
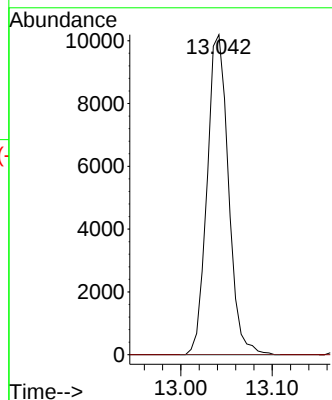
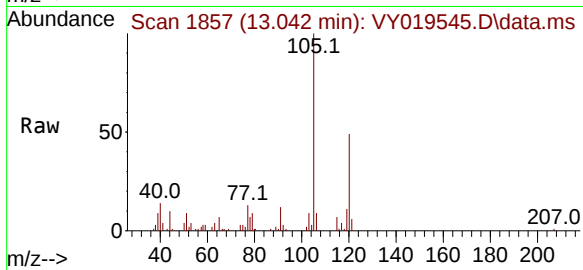
TP-3

Tgt Ion:105 Resp: 16518

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#89

n-Butylbenzene

Concen: 1.837 ug/l

RT: 13.541 min Scan# 1939

Delta R.T. -0.079 min

Lab File: VY019545.D

Acq: 13 Sep 2024 17:32

Tgt Ion: 91 Resp: 7950

Ion Ratio Lower Upper

91 100

92 9.5 26.6 79.7#

134 0.0 12.9 38.7#

