

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052924\
 Data File : VY018396.D
 Acq On : 29 May 2024 13:52
 Operator : SY/MD
 Sample : P2610-01
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: May 30 04:03:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052224S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 23 01:40:36 2024
 Response via : Initial Calibration

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

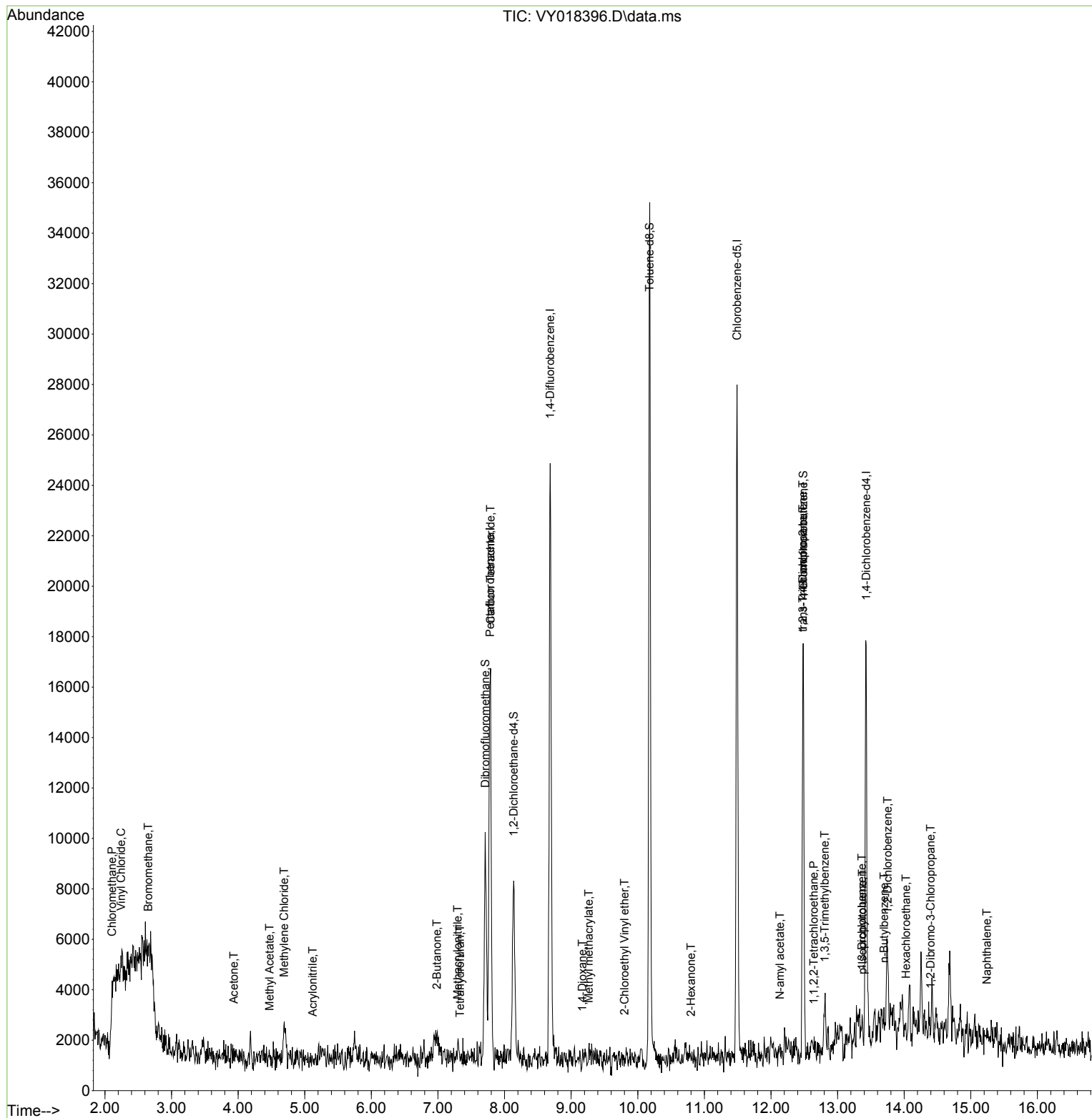
Internal Standards						
1) Pentafluorobenzene	7.783	168	11507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	20550	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	14923	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	3747	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	5508	50.523	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.040%			
35) Dibromofluoromethane	7.710	113	5951	49.659	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.320%			
50) Toluene-d8	10.179	98	22517	48.193	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.380%			
62) 4-Bromofluorobenzene	12.483	95	5228	36.213	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.420%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	508	3.183	ug/l #	75
4) Vinyl Chloride	2.241	62	185	1.036	ug/l #	42
5) Bromomethane	2.650	94	422	3.306	ug/l	85
11) Tert butyl alcohol	4.948	59	25	Below Cal	#	88
13) Acrolein	3.698	56	27	Below Cal	#	1
15) Acrylonitrile	5.119	53	45	1.626	ug/l #	1
16) Acetone	3.936	43	359	16.011	ug/l #	87
18) Methyl Acetate	4.473	43	123	2.070	ug/l #	85
20) Methylene Chloride	4.692	84	947	2.762	ug/l #	73
25) 2-Butanone	6.984	43	72	2.026	ug/l #	41
29) Tetrahydrofuran	7.332	42	54	2.309	ug/l #	26
38) Carbon Tetrachloride	7.789	117	1517	8.522	ug/l #	13
41) Methacrylonitrile	7.295	41	197	4.747	ug/l #	63
48) Methyl methacrylate	9.264	41	204	2.780	ug/l #	29
49) 1,4-Dioxane	9.167	88	21	23.149	ug/l #	20
58) 2-Chloroethyl Vinyl ether	9.801	63	58	1.010	ug/l #	45
59) 2-Hexanone	10.801	43	67	1.189	ug/l	69
74) N-amyl acetate	12.136	43	105	1.528	ug/l #	2
75) 1,1,2,2-Tetrachloroethane	12.642	83	92	1.833	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	3088	91.694	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.806	105	481	2.078	ug/l	73
81) trans-1,4-Dichloro-2-b...	12.477	75	3088	188.660	ug/l #	17
86) p-Isopropyltoluene	13.373	119	330	1.275	ug/l #	64
87) 1,3-Dichlorobenzene	13.367	146	188	1.480	ug/l #	25
89) n-Butylbenzene	13.697	91	357	1.468	ug/l #	50
90) Hexachloroethane	14.026	117	226	4.729	ug/l #	12
91) 1,2-Dichlorobenzene	13.751	146	222	2.014	ug/l #	49
92) 1,2-Dibromo-3-Chloropr...	14.398	75	49	7.119	ug/l #	1
95) Naphthalene	15.239	128	227	1.839	ug/l #	69

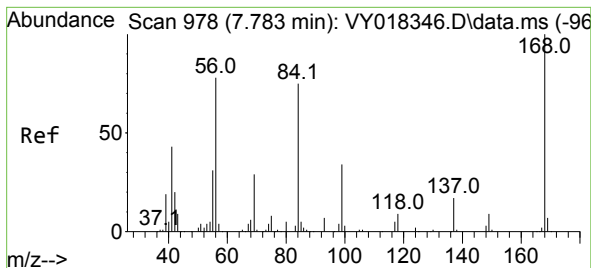
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052924\
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Quant Title : SW846 8260
QLast Update : Thu May 23 01:40:36 2024
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: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

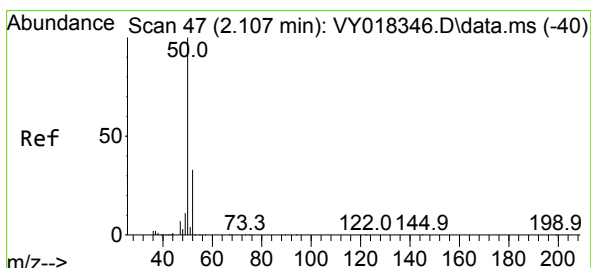
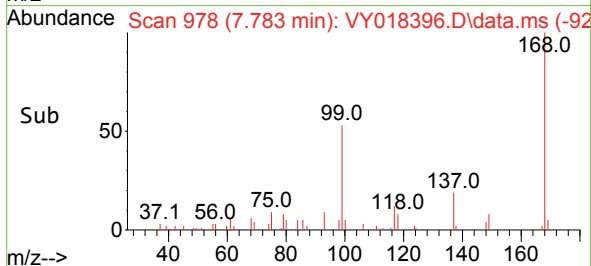
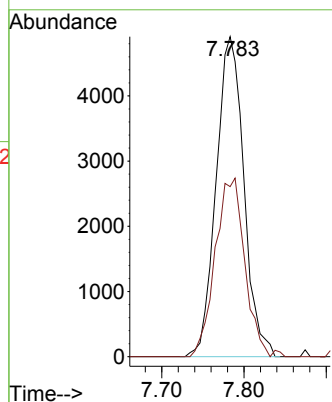
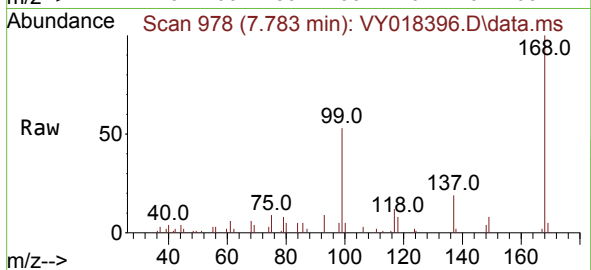
ClientSampleId :

Tgt Ion:168 Resp: 11507

Ion Ratio Lower Upper

168 100

99 53.2 39.1 58.7



#3

Chloromethane

Concen: 3.183 ug/l

RT: 2.107 min Scan# 47

Delta R.T. 0.000 min

Lab File: VY018396.D

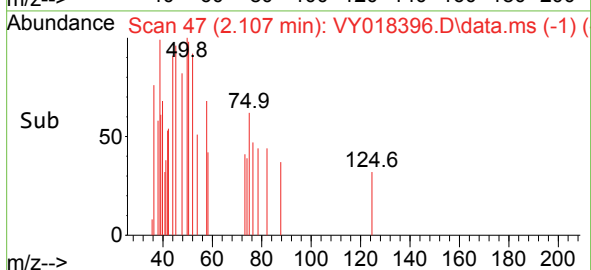
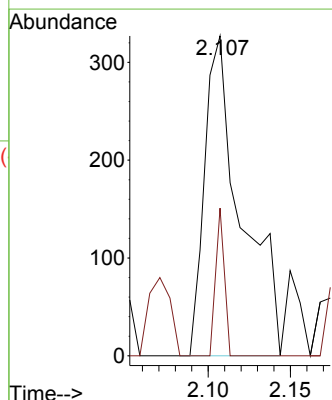
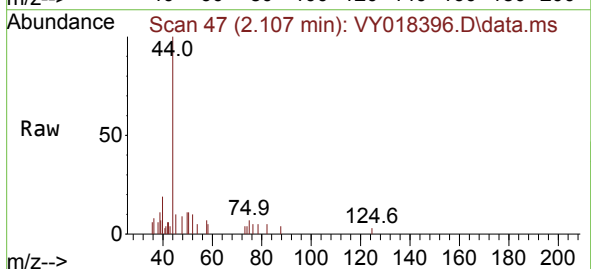
Acq: 29 May 2024 13:52

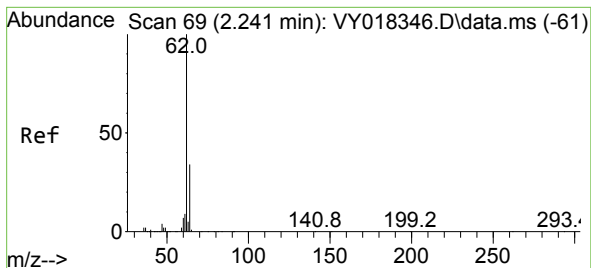
Tgt Ion: 50 Resp: 508

Ion Ratio Lower Upper

50 100

52 46.2 25.6 38.4#





#4

Vinyl Chloride

Concen: 1.036 ug/l

RT: 2.241 min Scan# 69

Delta R.T. 0.000 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

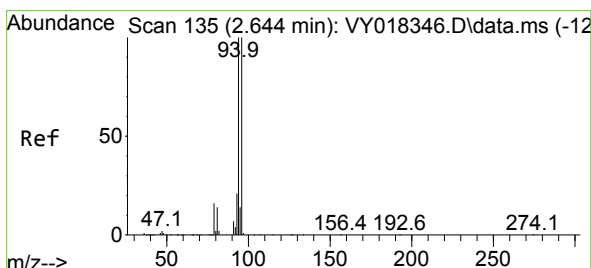
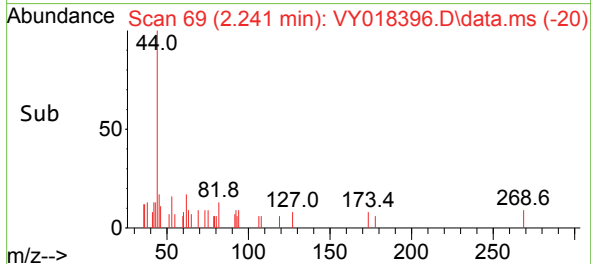
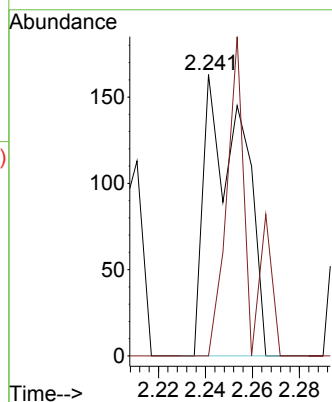
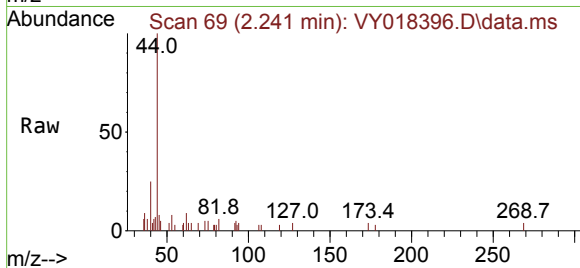
ClientSampleId :

Tgt Ion: 62 Resp: 185

Ion Ratio Lower Upper

62 100

64 0.0 26.1 39.1#



#5

Bromomethane

Concen: 3.306 ug/l

RT: 2.650 min Scan# 136

Delta R.T. 0.006 min

Lab File: VY018396.D

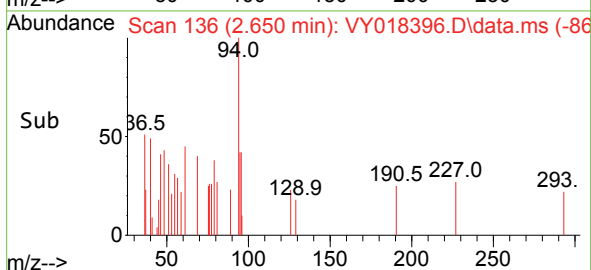
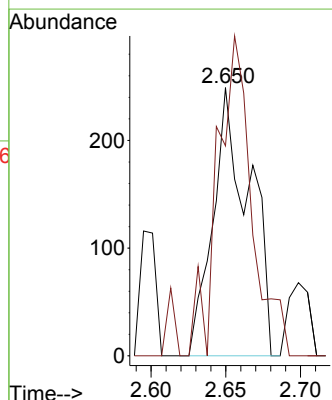
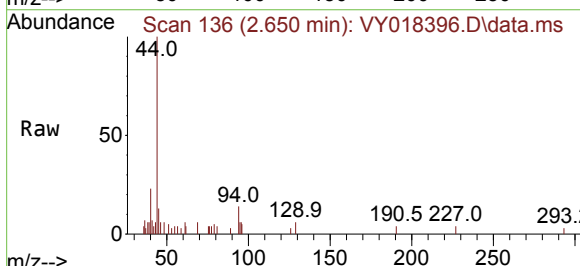
Acq: 29 May 2024 13:52

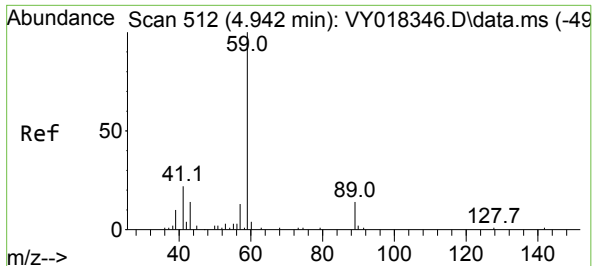
Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 78.3 74.1 111.1





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.948 min Scan# 51

Delta R.T. 0.006 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

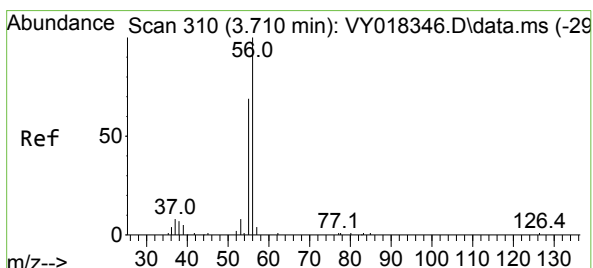
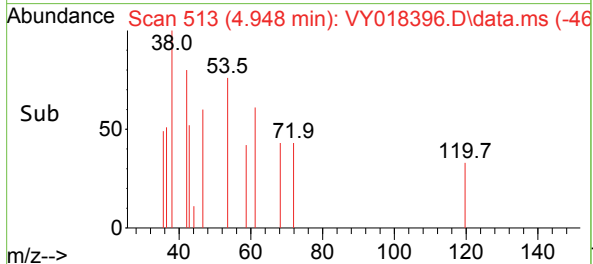
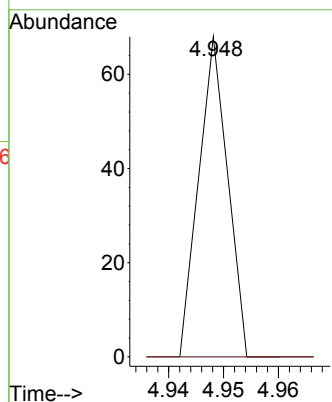
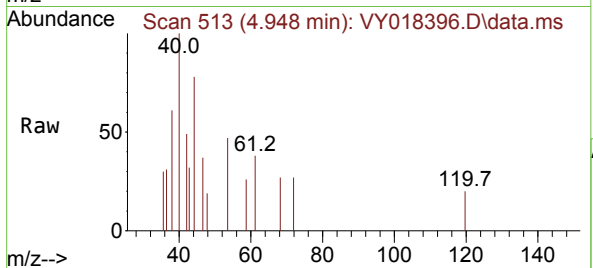
ClientSampleId :

Tgt Ion: 59 Resp: 25

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.6#



#13

Acrolein

Concen: Below Cal

RT: 3.698 min Scan# 308

Delta R.T. -0.012 min

Lab File: VY018396.D

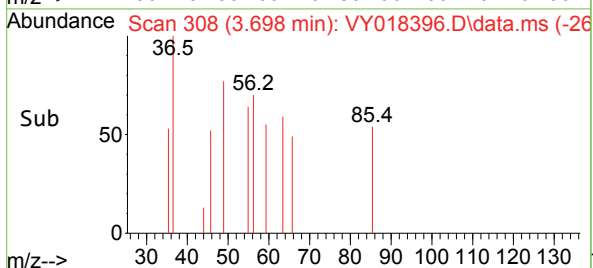
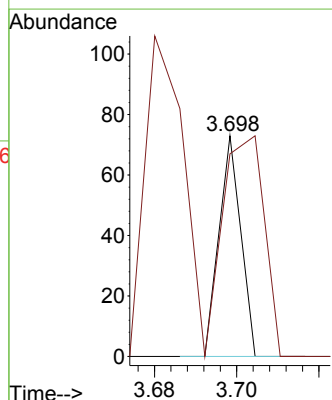
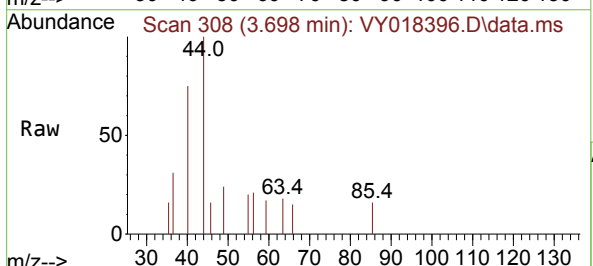
Acq: 29 May 2024 13:52

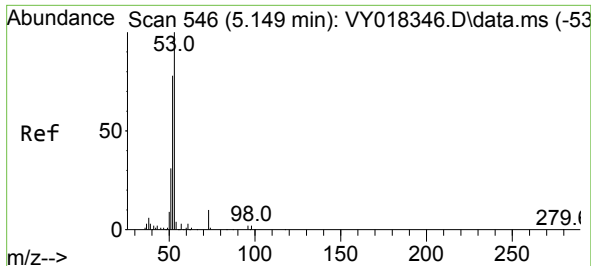
Tgt Ion: 56 Resp: 27

Ion Ratio Lower Upper

56 100

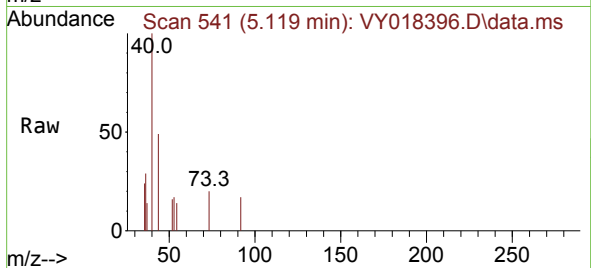
55 188.9 55.7 83.5#



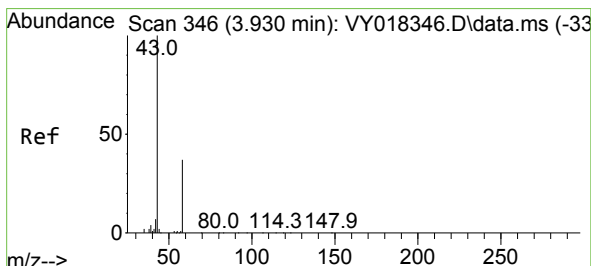
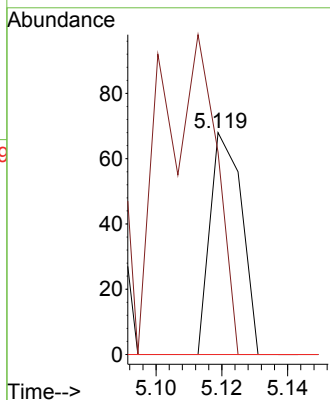
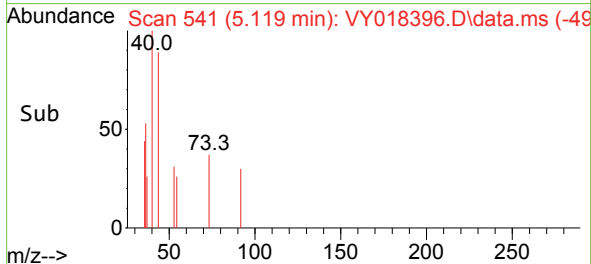


#15
Acrylonitrile
Concen: 1.626 ug/l
RT: 5.119 min Scan# 546
Delta R.T. -0.030 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Instrument :
MSVOA_Y
ClientSampleId :

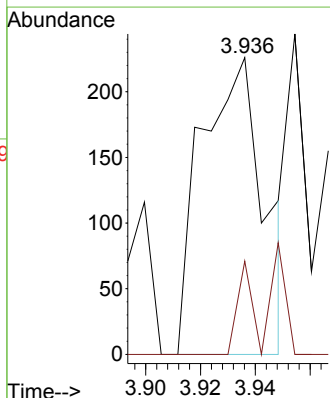
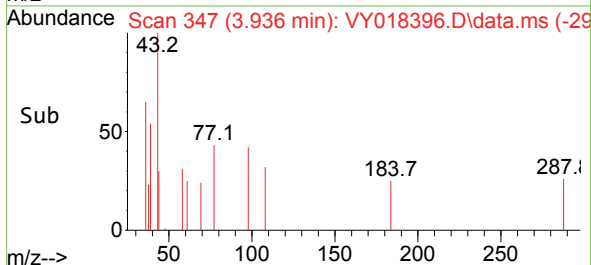
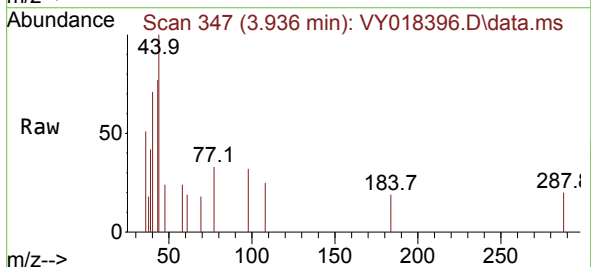


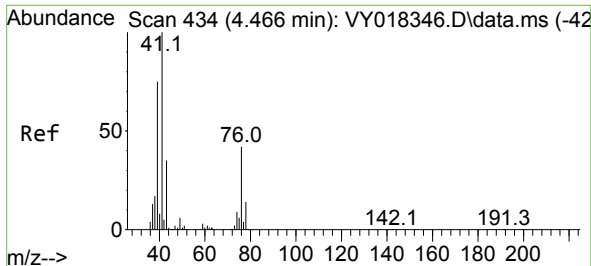
Tgt Ion: 53 Resp: 45
Ion Ratio Lower Upper
53 100
52 248.9 64.7 97.1#
51 0.0 28.4 42.6#



#16
Acetone
Concen: 16.011 ug/l
RT: 3.936 min Scan# 347
Delta R.T. 0.006 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Tgt Ion: 43 Resp: 359
Ion Ratio Lower Upper
43 100
58 31.4 31.7 47.5#





#18

Methyl Acetate

Concen: 2.070 ug/l

RT: 4.473 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

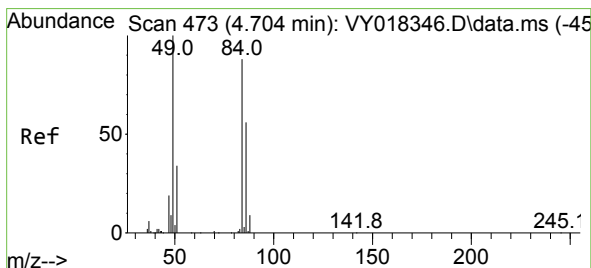
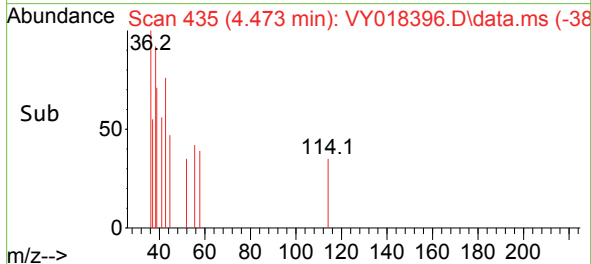
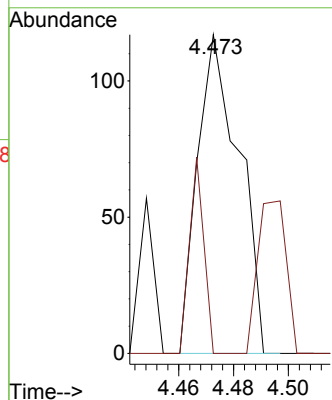
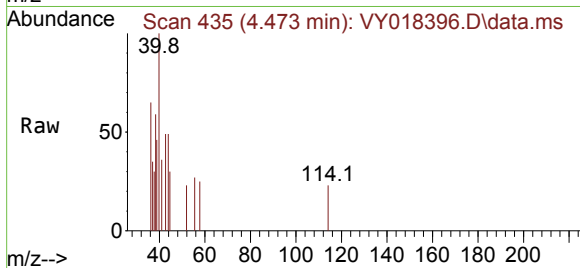
ClientSampleId :

Tgt Ion: 43 Resp: 123

Ion Ratio Lower Upper

43 100

74 21.1 23.3 34.9#



#20

Methylene Chloride

Concen: 2.762 ug/l

RT: 4.692 min Scan# 471

Delta R.T. -0.012 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Tgt Ion: 84 Resp: 947

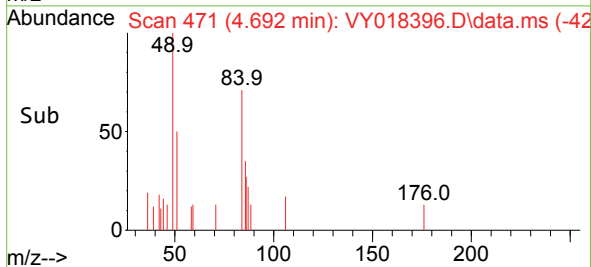
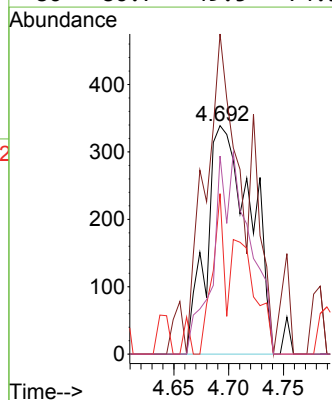
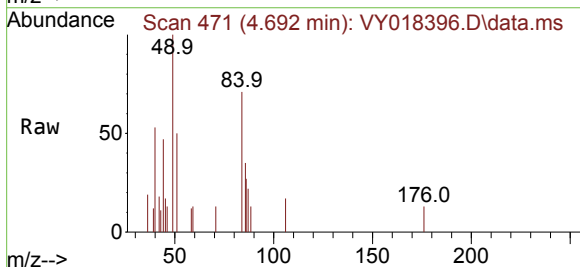
Ion Ratio Lower Upper

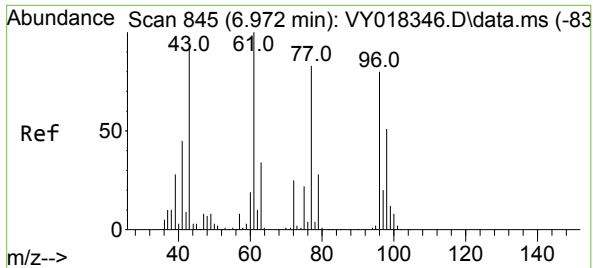
84 100

49 118.3 84.4 126.6

51 70.2 26.0 39.0#

86 86.7 49.5 74.3#





#25

2-Butanone

Concen: 2.026 ug/l

RT: 6.984 min Scan# 845

Delta R.T. 0.012 min

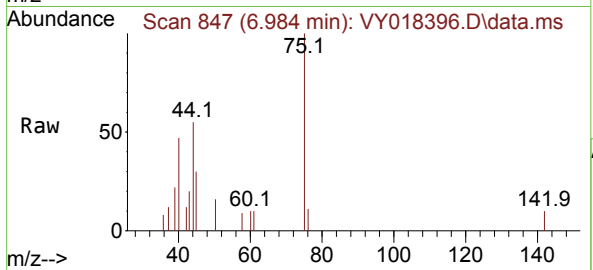
Lab File: VY018396.D

Acq: 29 May 2024 13:52

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ClientSampleId :

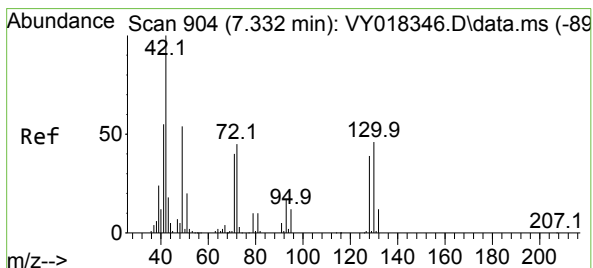
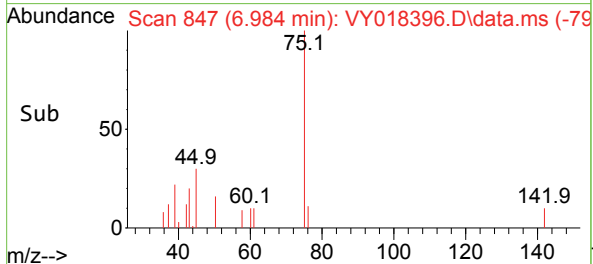
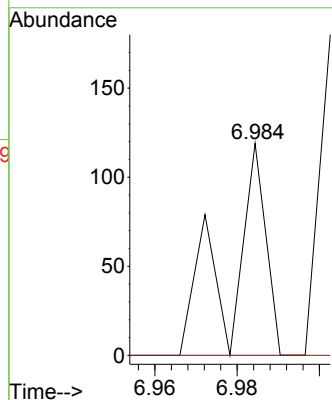


Tgt Ion: 43 Resp: 72

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#29

Tetrahydrofuran

Concen: 2.309 ug/l

RT: 7.332 min Scan# 904

Delta R.T. 0.000 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

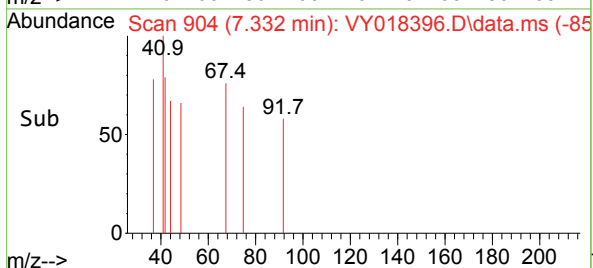
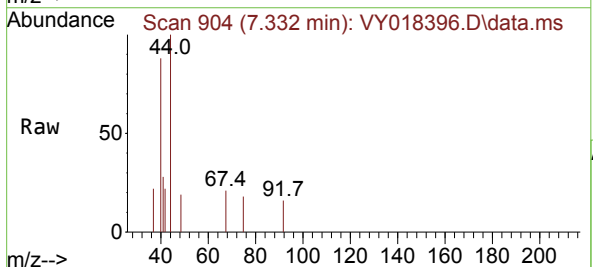
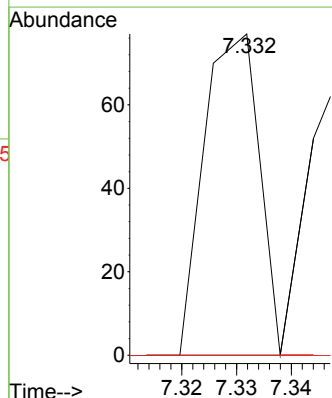
Tgt Ion: 42 Resp: 54

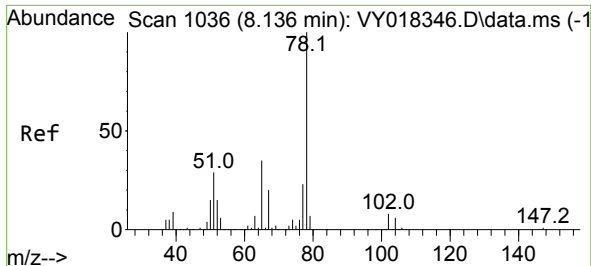
Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

71 0.0 40.8 61.2#

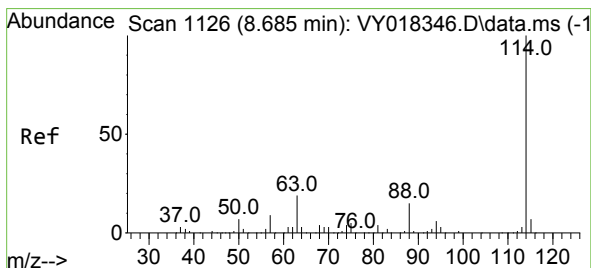
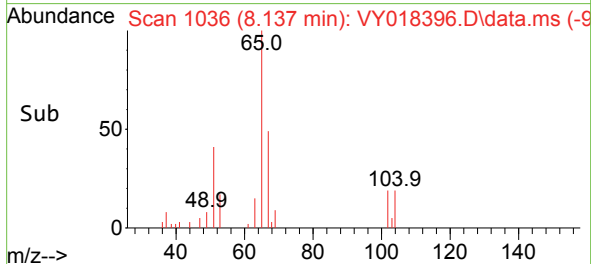
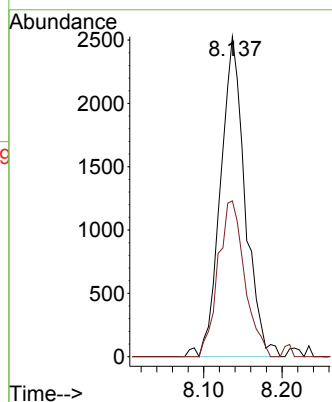
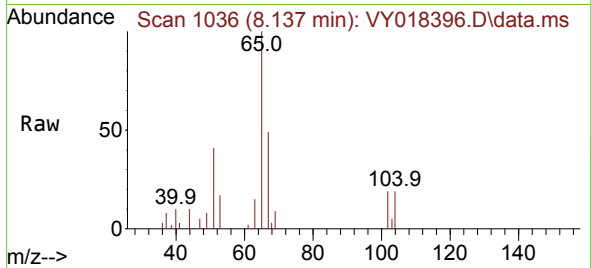




#33
 1,2-Dichloroethane-d4
 Concen: 50.523 ug/l
 RT: 8.137 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY018396.D
 Acq: 29 May 2024 13:52

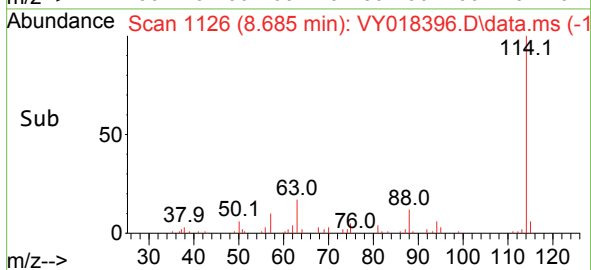
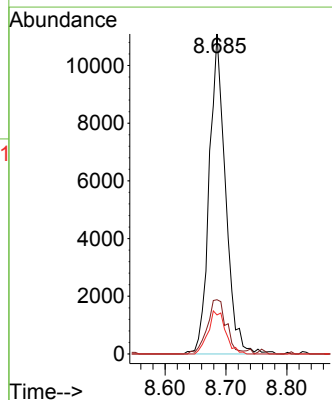
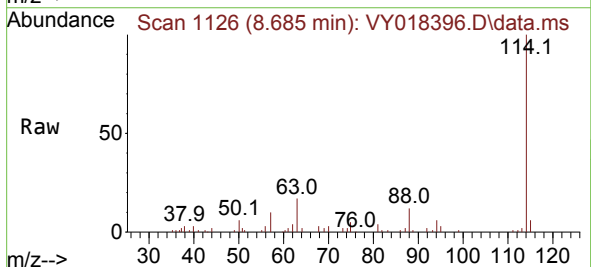
Instrument :
 MSVOA_Y
 ClientSampleId :

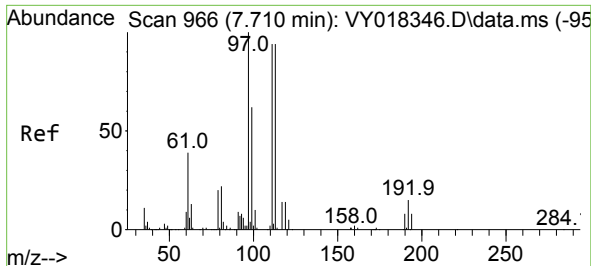
Tgt Ion: 65 Resp: 5508
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY018396.D
 Acq: 29 May 2024 13:52

Tgt Ion: 114 Resp: 20550
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 35.0
 88 12.2 0.0 27.2





#35

Dibromofluoromethane

Concen: 49.659 ug/l

RT: 7.710 min Scan# 9

Delta R.T. 0.000 min

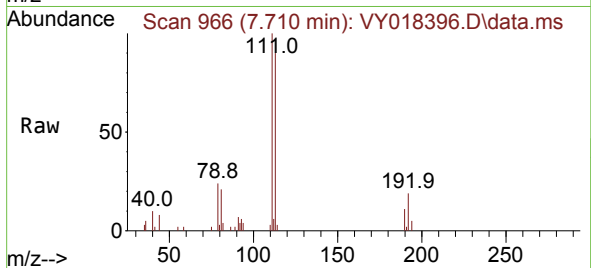
Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :



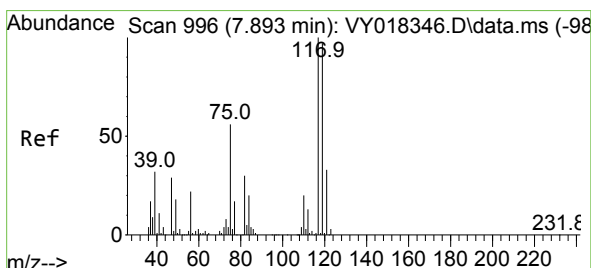
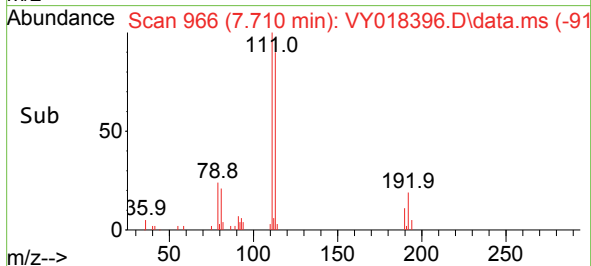
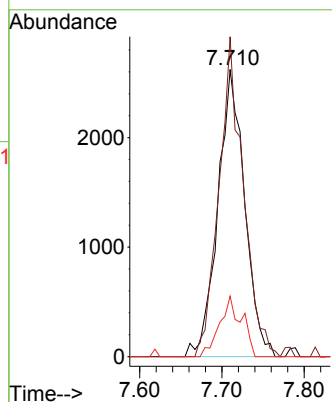
Tgt Ion:113 Resp: 5951

Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

192 17.3 15.9 23.9



#38

Carbon Tetrachloride

Concen: 8.522 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.103 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

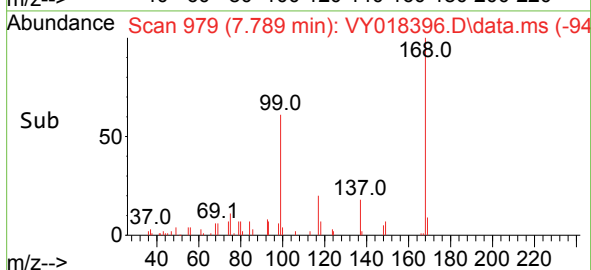
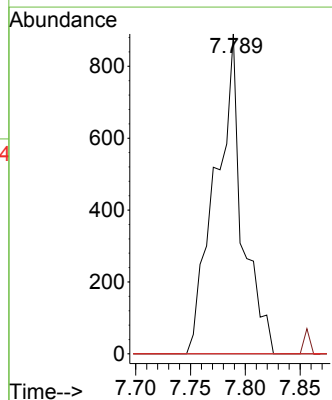
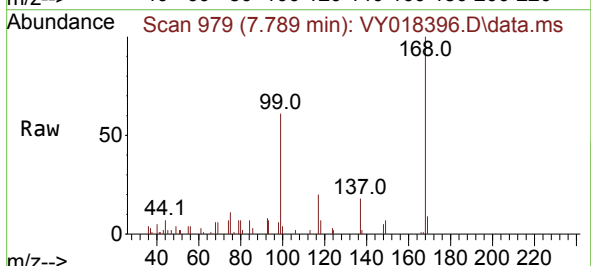
Tgt Ion:117 Resp: 1517

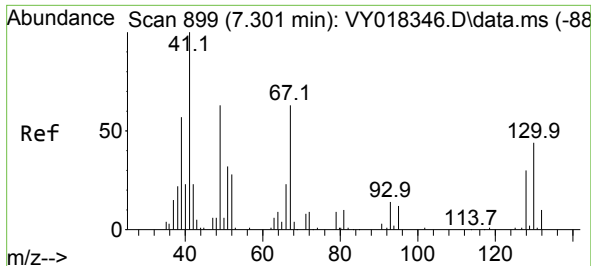
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

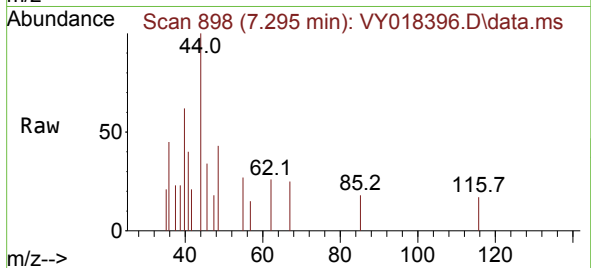
121 0.0 24.0 36.0#



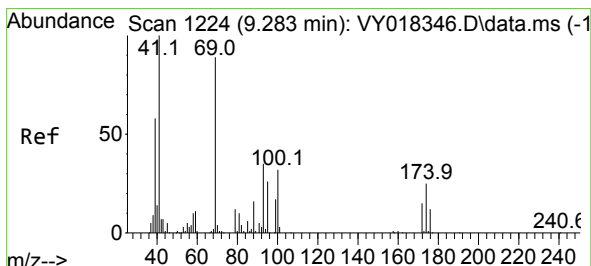
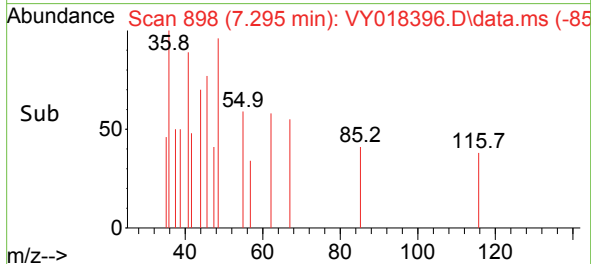
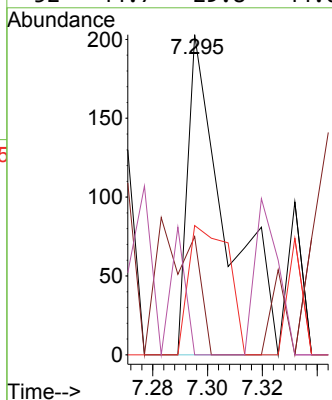


#41
Methacrylonitrile
Concen: 4.747 ug/l
RT: 7.295 min Scan# 899
Delta R.T. -0.006 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Instrument :
MSVOA_Y
ClientSampleId :

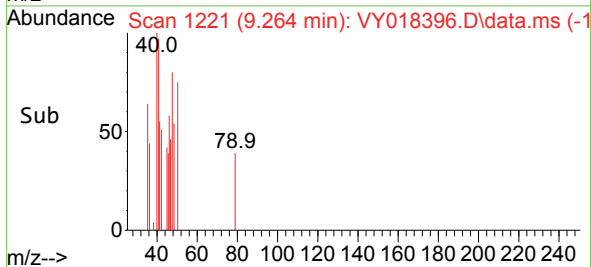
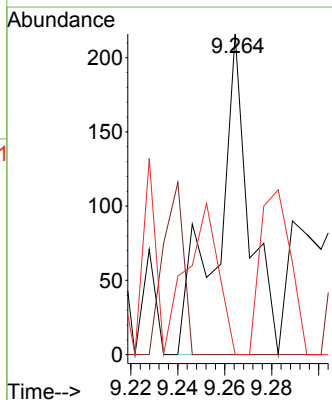
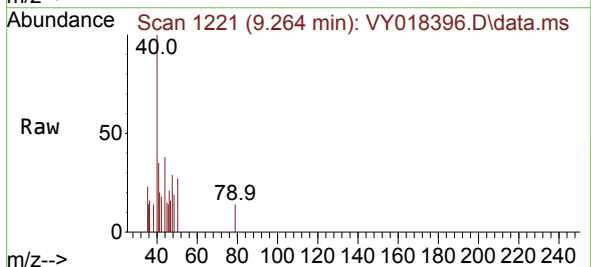


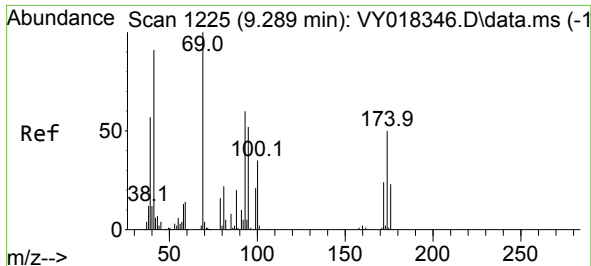
Tgt Ion:	41	Resp:	197
Ion	Ratio	Lower	Upper
41	100		
39	39.6	48.0	72.0#
67	42.1	75.1	112.7#
52	44.7	29.8	44.6#



#48
Methyl methacrylate
Concen: 2.780 ug/l
RT: 9.264 min Scan# 1221
Delta R.T. -0.018 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Tgt Ion:	41	Resp:	204
Ion	Ratio	Lower	Upper
41	100		
69	0.0	84.1	126.1#
39	47.5	43.6	65.4





#49

1,4-Dioxane

Concen: 23.149 ug/l

RT: 9.167 min Scan# 11

Delta R.T. -0.122 min

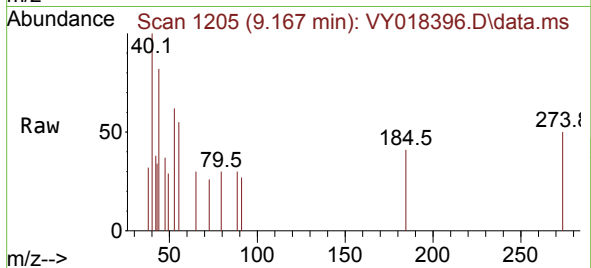
Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :



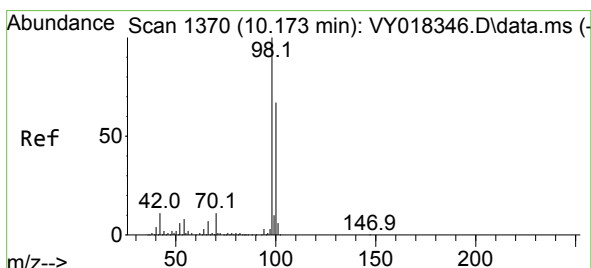
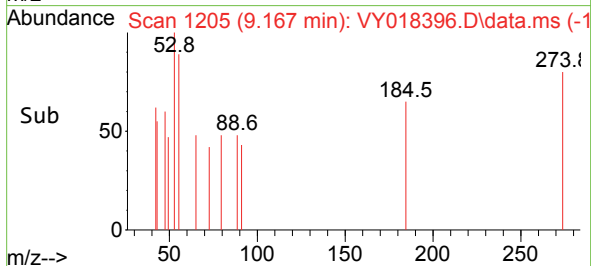
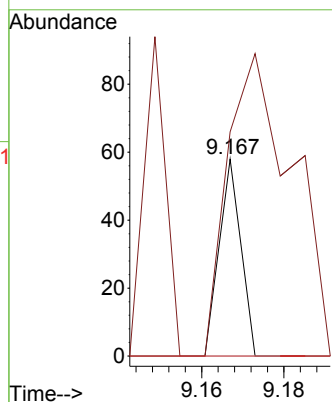
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 466.7 0.0 0.0#

58 0.0 49.3 73.9#



#50

Toluene-d8

Concen: 48.193 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.006 min

Lab File: VY018396.D

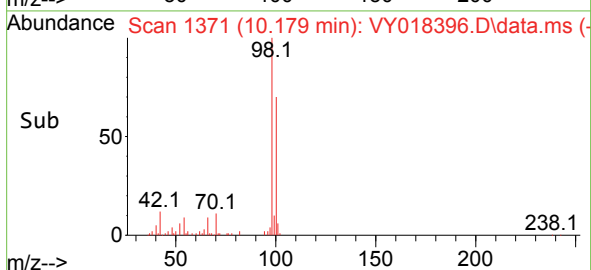
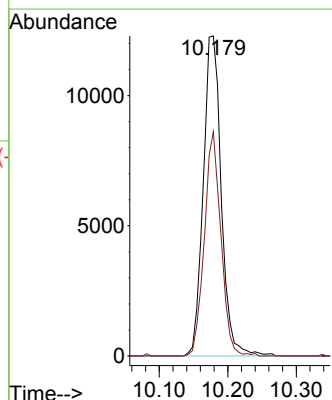
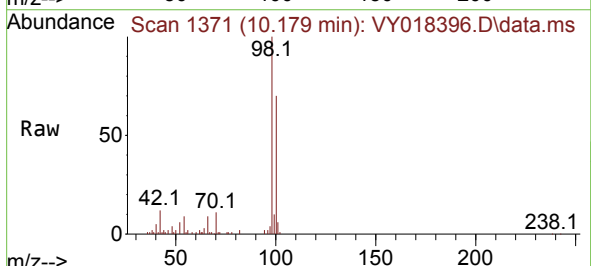
Acq: 29 May 2024 13:52

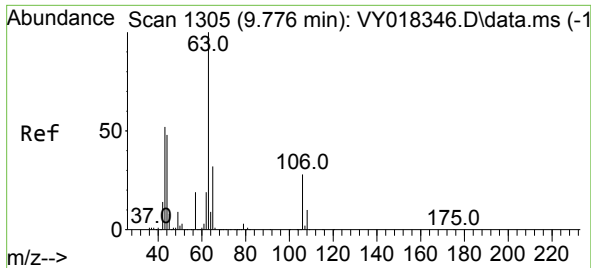
Tgt Ion: 98 Resp: 22517

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0

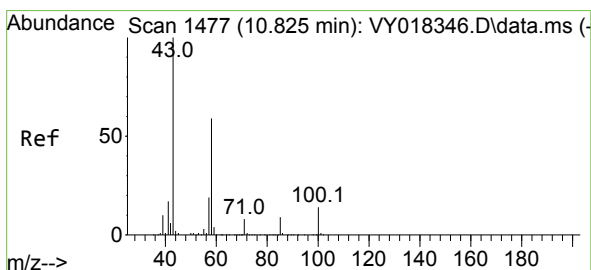
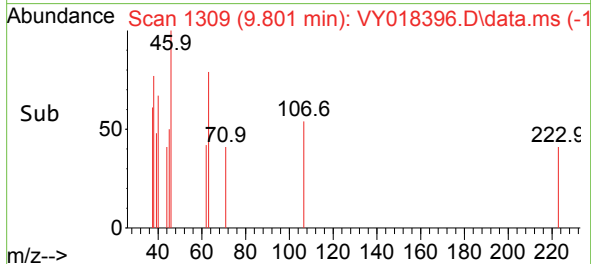
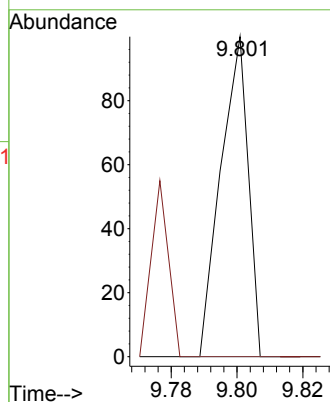
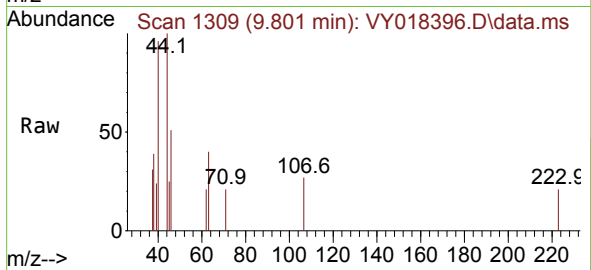




#58
2-Chloroethyl Vinyl ether
Concen: 1.010 ug/l
RT: 9.801 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

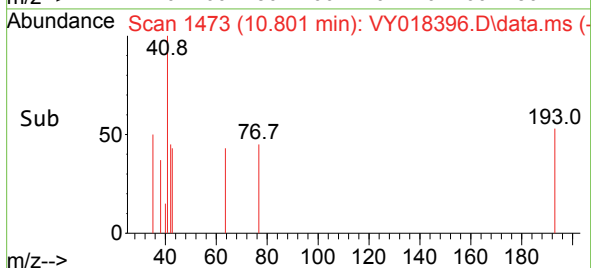
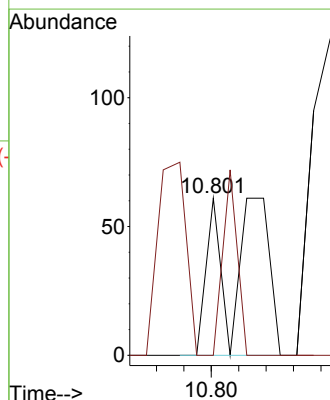
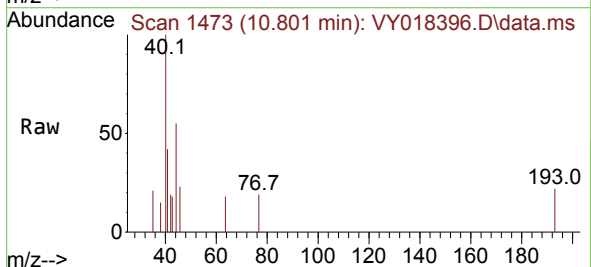
Instrument :
MSVOA_Y
ClientSampleId :

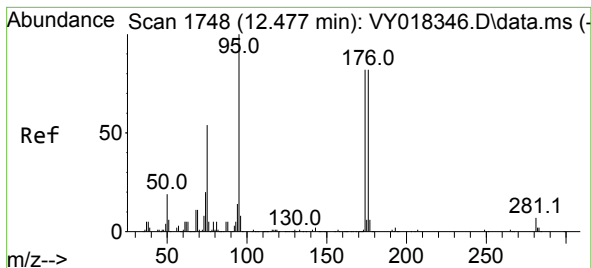
Tgt Ion: 63 Resp: 58
Ion Ratio Lower Upper
63 100
106 0.0 23.7 35.5#



#59
2-Hexanone
Concen: 1.189 ug/l
RT: 10.801 min Scan# 1473
Delta R.T. -0.024 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
58 38.8 31.4 94.0





#62

4-Bromofluorobenzene

Concen: 36.213 ug/l

RT: 12.483 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :

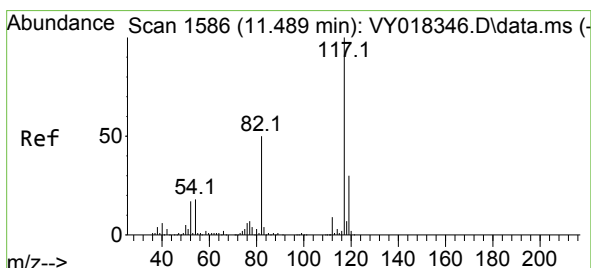
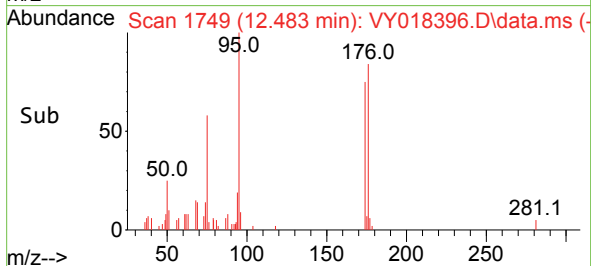
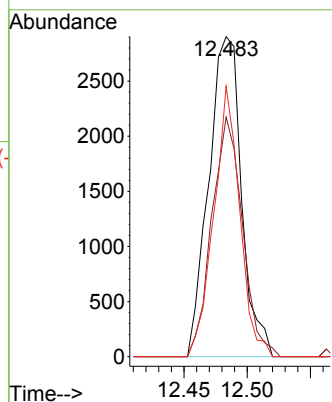
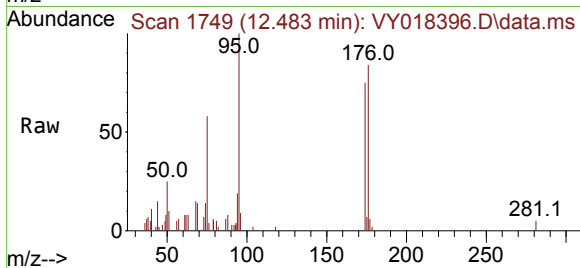
Tgt Ion: 95 Resp: 5228

Ion Ratio Lower Upper

95 100

174 69.9 0.0 175.6

176 66.9 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

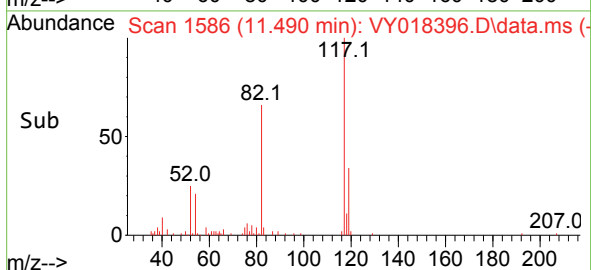
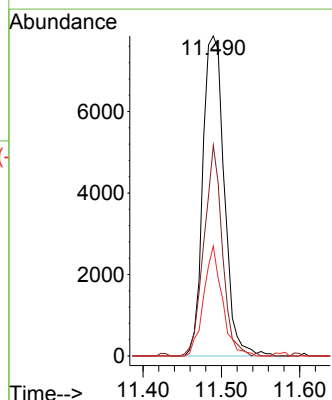
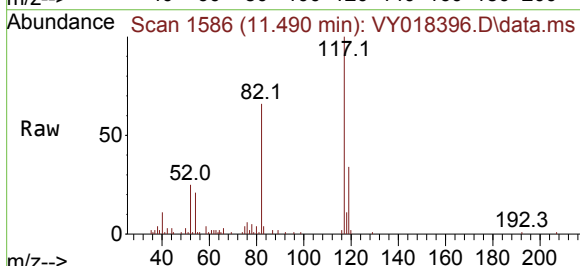
Tgt Ion: 117 Resp: 14923

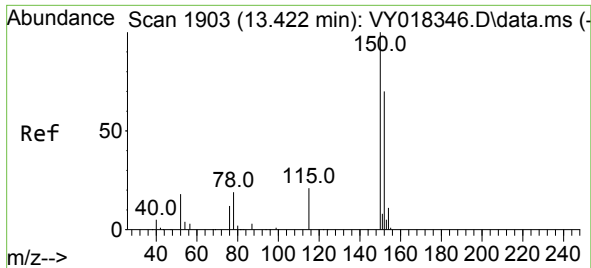
Ion Ratio Lower Upper

117 100

82 65.8 42.4 63.6#

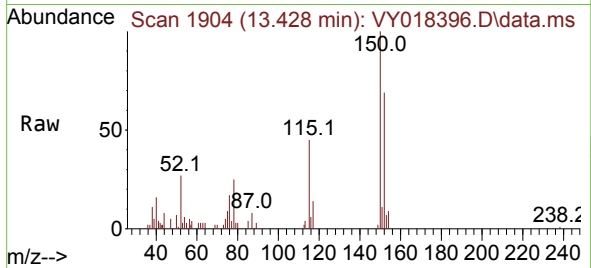
119 34.4 25.9 38.9



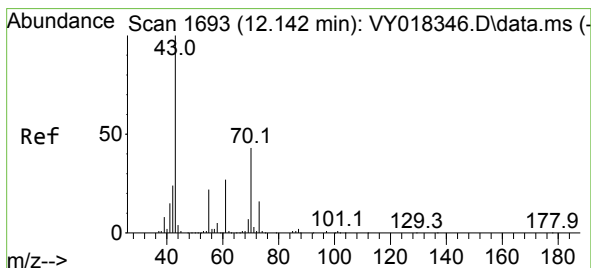
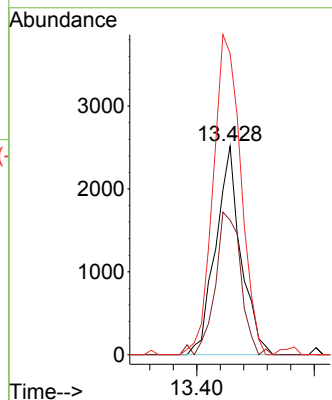
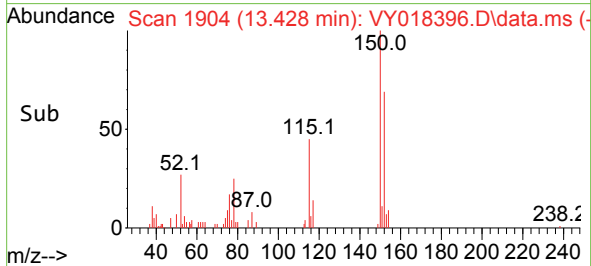


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1903
 Delta R.T. 0.006 min
 Lab File: VY018396.D
 Acq: 29 May 2024 13:52

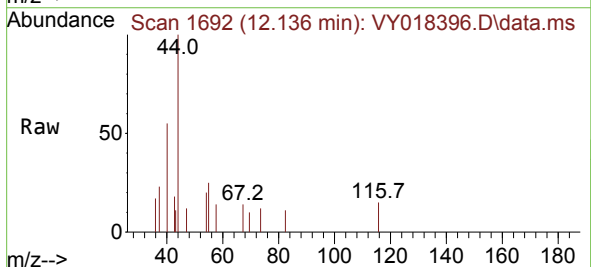
Instrument :
 MSVOA_Y
 ClientSampleId :



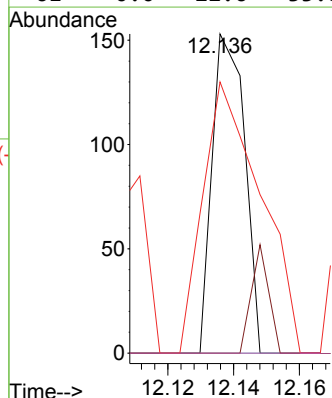
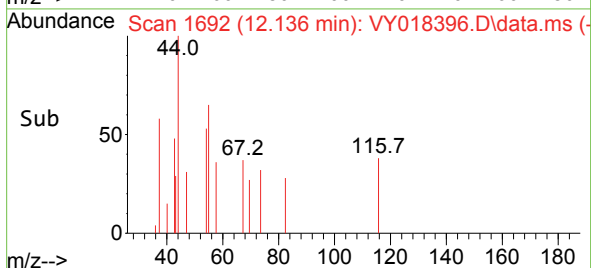
Tgt Ion:152 Resp: 3747
 Ion Ratio Lower Upper
 152 100
 115 69.6 28.2 84.7
 150 168.3 0.0 345.6

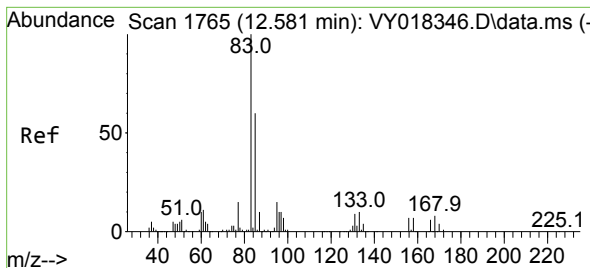


#74
 N-ethyl acetate
 Concen: 1.528 ug/l
 RT: 12.136 min Scan# 1692
 Delta R.T. -0.006 min
 Lab File: VY018396.D
 Acq: 29 May 2024 13:52



Tgt Ion: 43 Resp: 105
 Ion Ratio Lower Upper
 43 100
 70 18.1 41.4 62.2#
 55 151.4 23.3 34.9#
 61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 1.833 ug/l

RT: 12.642 min Scan# 1

Delta R.T. 0.061 min

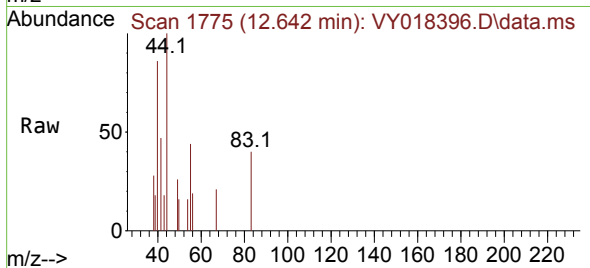
Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :



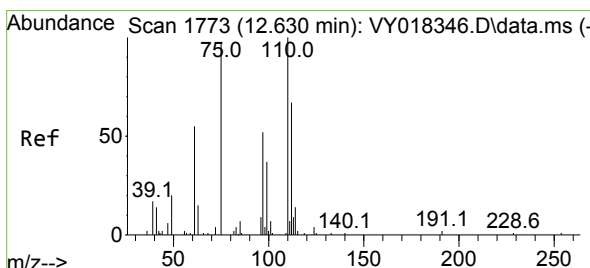
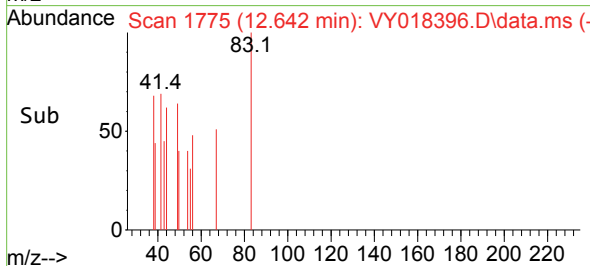
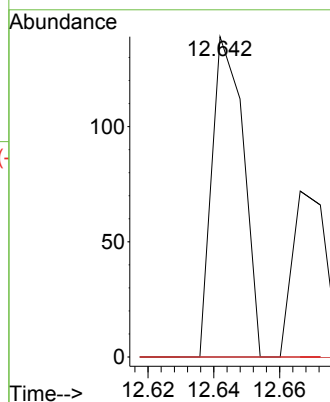
Tgt Ion: 83 Resp: 92

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 91.694 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.152 min

Lab File: VY018396.D

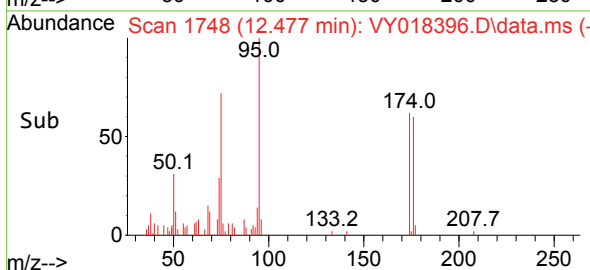
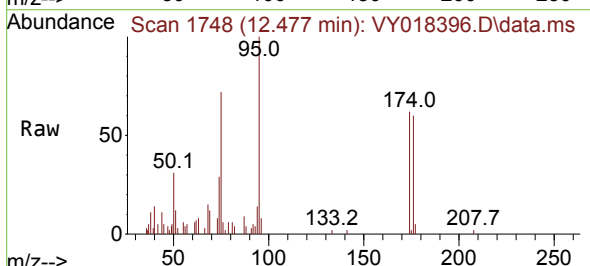
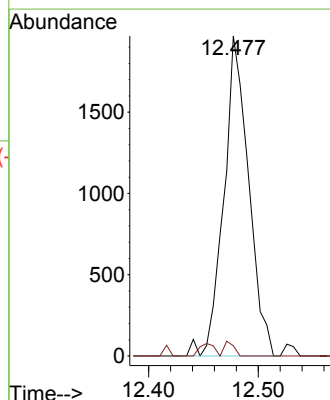
Acq: 29 May 2024 13:52

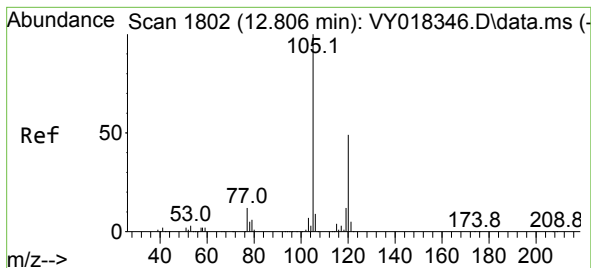
Tgt Ion: 75 Resp: 3088

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 2.078 ug/l

RT: 12.806 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

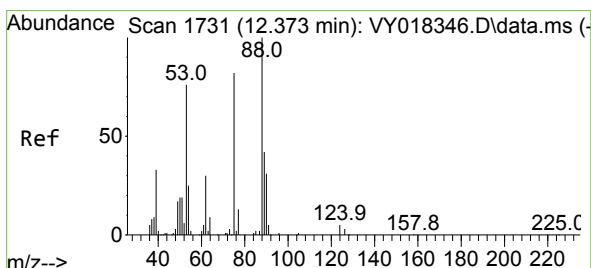
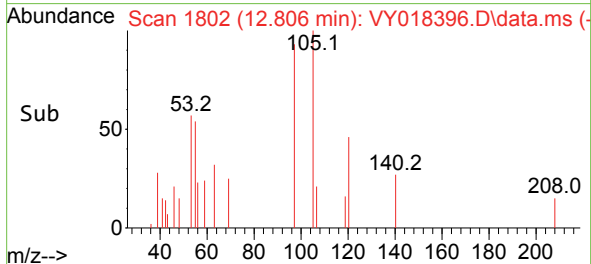
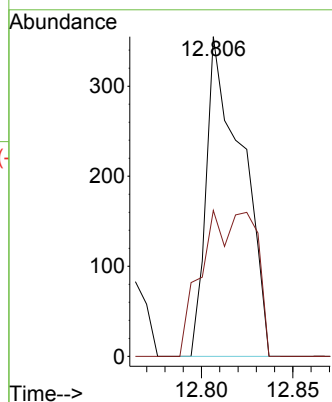
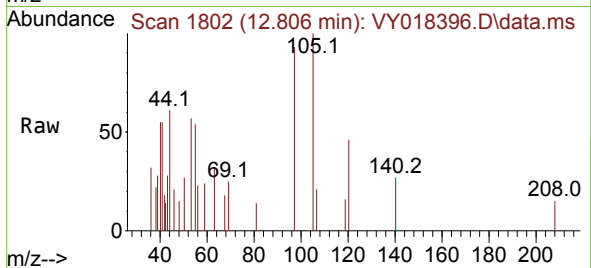
ClientSampleId :

Tgt Ion:105 Resp: 481

Ion Ratio Lower Upper

105 100

120 69.0 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 188.660 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

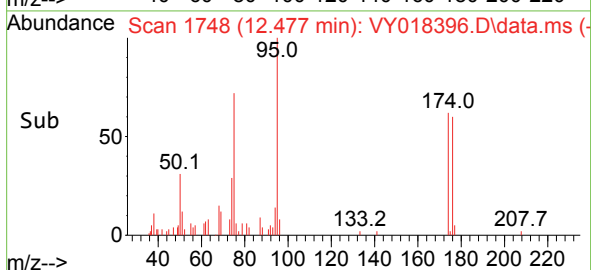
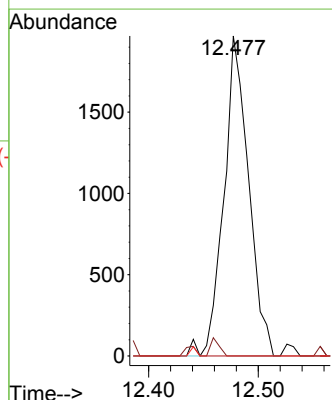
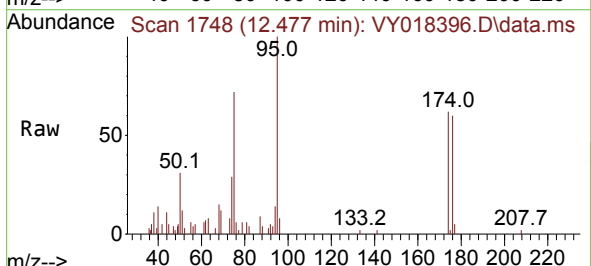
Tgt Ion: 75 Resp: 3088

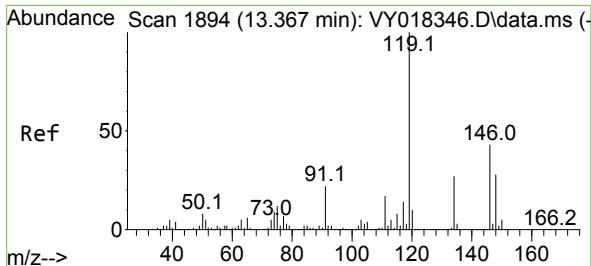
Ion Ratio Lower Upper

75 100

53 2.0 66.8 100.2#

89 0.0 35.8 53.6#

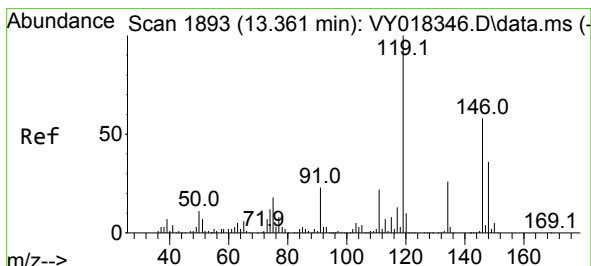
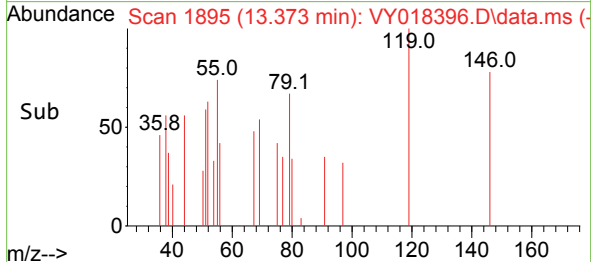
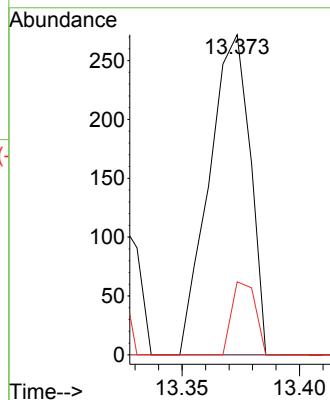
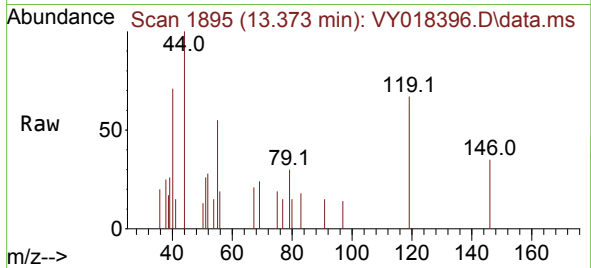




#86
p-Isopropyltoluene
Concen: 1.275 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.006 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

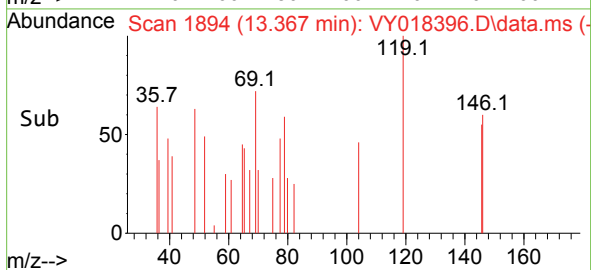
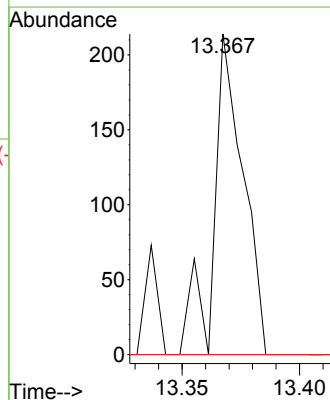
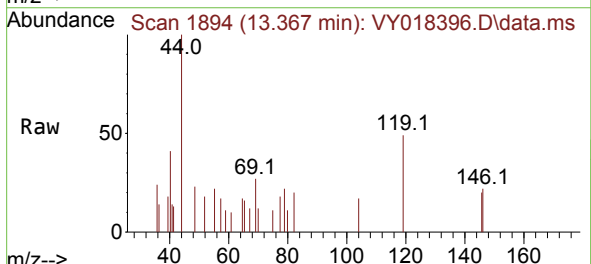
Instrument :
MSVOA_Y
ClientSampleId :

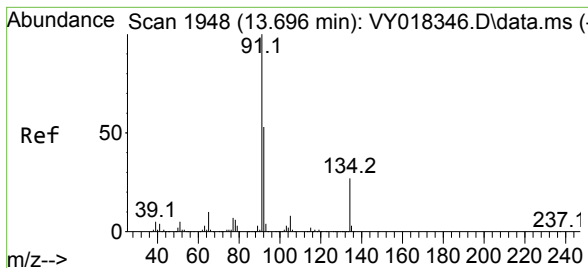
Tgt Ion:119 Resp: 330
Ion Ratio Lower Upper
119 100
134 0.0 13.1 39.3#
91 13.3 10.7 32.1



#87
1,3-Dichlorobenzene
Concen: 1.480 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.006 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Tgt Ion:146 Resp: 188
Ion Ratio Lower Upper
146 100
111 0.0 19.0 57.0#
148 0.0 31.7 95.1#





#89

n-Butylbenzene

Concen: 1.468 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :

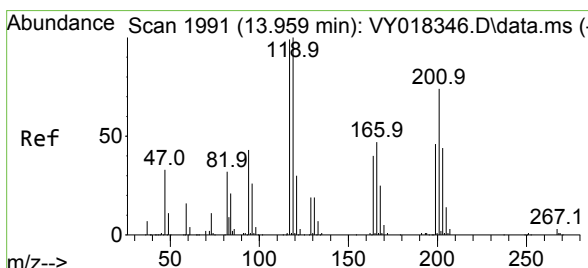
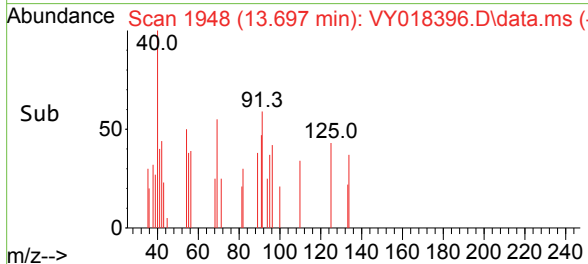
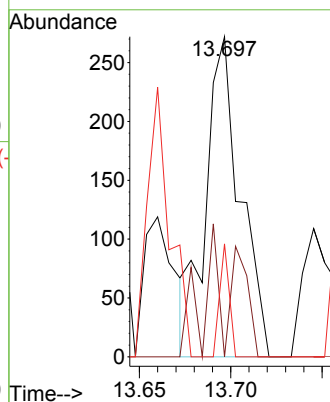
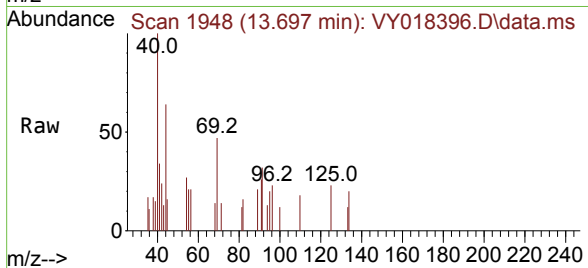
Tgt Ion: 91 Resp: 357

Ion Ratio Lower Upper

91 100

92 11.5 26.6 79.7#

134 9.8 12.9 38.7#



#90

Hexachloroethane

Concen: 4.729 ug/l

RT: 14.026 min Scan# 2002

Delta R.T. 0.067 min

Lab File: VY018396.D

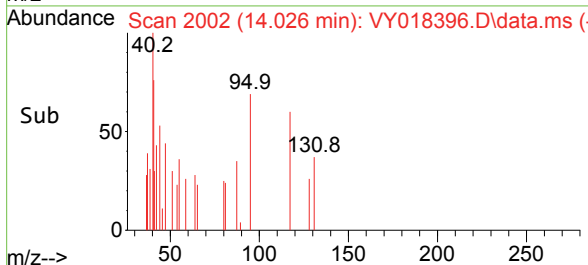
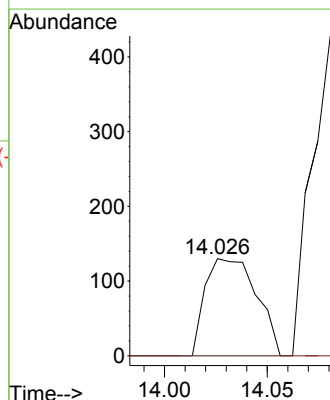
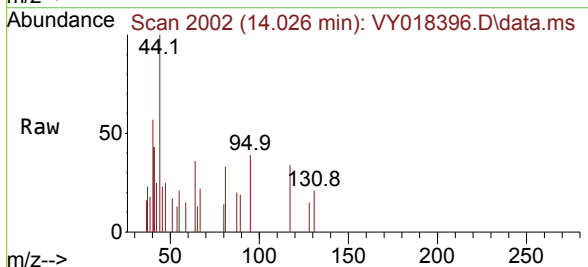
Acq: 29 May 2024 13:52

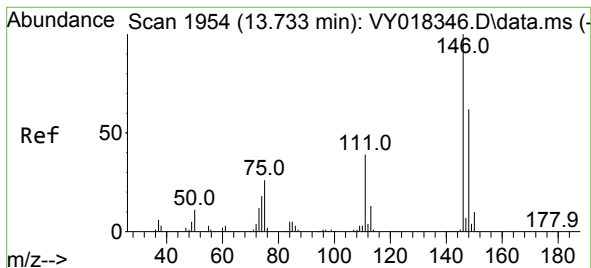
Tgt Ion: 117 Resp: 226

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.2#





#91

1,2-Dichlorobenzene

Concen: 2.014 ug/l

RT: 13.751 min Scan# 1954

Delta R.T. 0.018 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

Instrument :

MSVOA_Y

ClientSampleId :

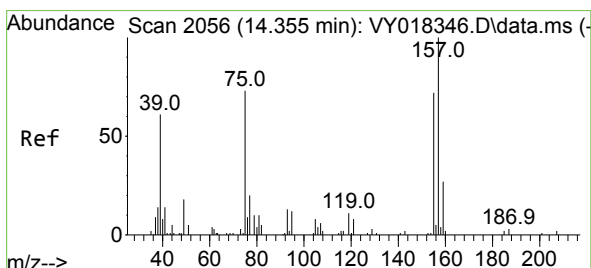
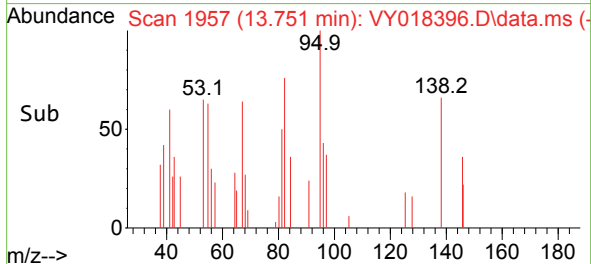
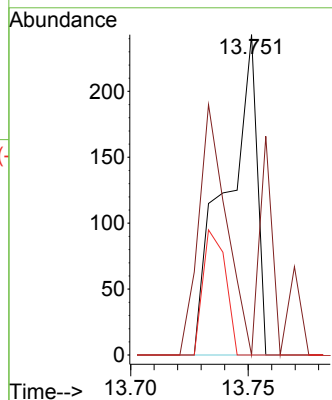
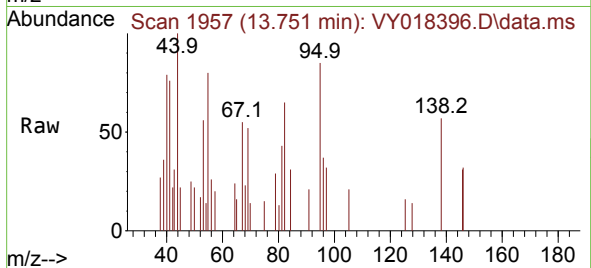
Tgt Ion:146 Resp: 222

Ion Ratio Lower Upper

146 100

111 38.3 19.9 59.7

148 0.0 31.8 95.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.119 ug/l

RT: 14.398 min Scan# 2063

Delta R.T. 0.043 min

Lab File: VY018396.D

Acq: 29 May 2024 13:52

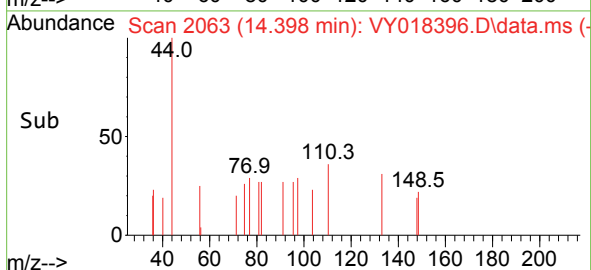
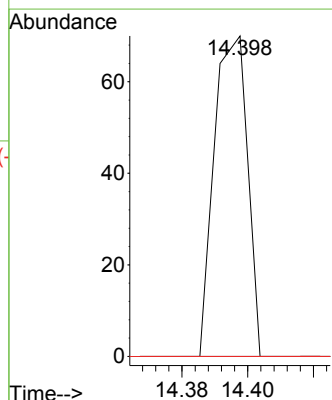
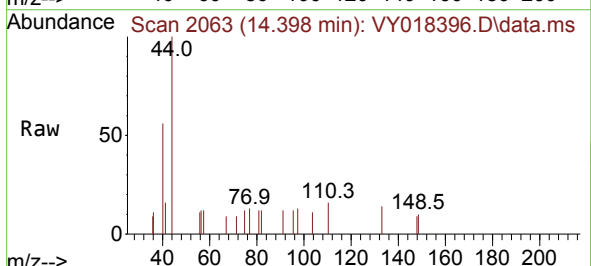
Tgt Ion: 75 Resp: 49

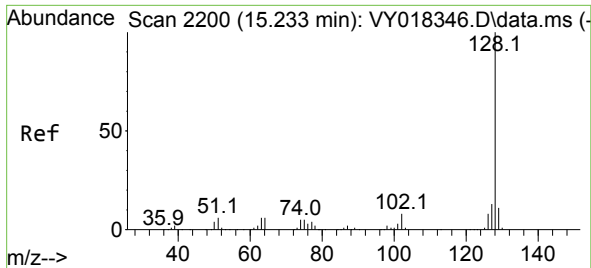
Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

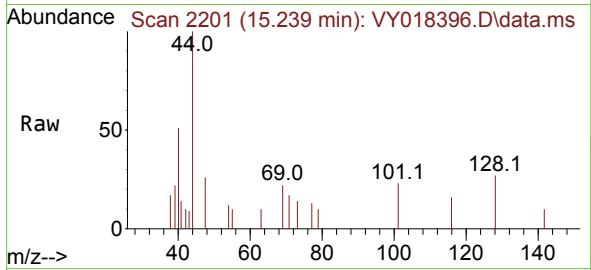
157 0.0 62.7 188.2#





#95
Naphthalene
Concen: 1.839 ug/l
RT: 15.239 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY018396.D
Acq: 29 May 2024 13:52

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:	128	Resp:	227
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	13.0#

