

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102924\
 Data File : VY020063.D
 Acq On : 29 Oct 2024 15:59
 Operator : SY/MD
 Sample : P4578-03
 Misc : 7.80g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 30 01:26:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 05:44:48 2024
 Response via : Initial Calibration

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

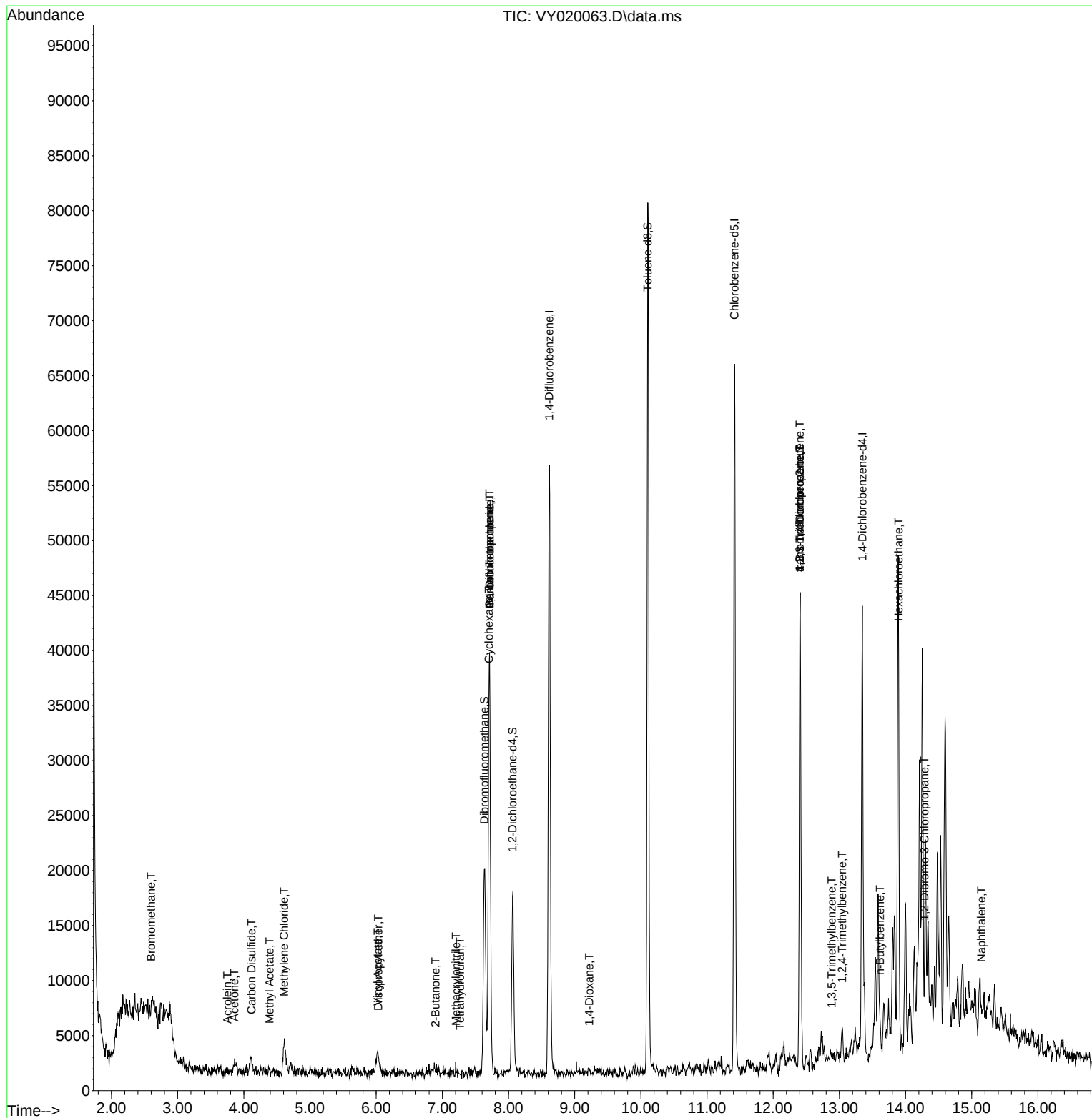
Internal Standards						
1) Pentafluorobenzene	7.713	168	25467	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	44048	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	31461	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	8551	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	12699	40.498	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.000%
35) Dibromofluoromethane	7.634	113	14014	48.213	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.420%
50) Toluene-d8	10.103	98	50490	47.038	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.080%
62) 4-Bromofluorobenzene	12.402	95	10871	28.029	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	56.060%
Target Compounds						
						Qvalue
5) Bromomethane	2.598	94	228	1.061	ug/l	# 3
11) Tert butyl alcohol	4.891	59	74	Below Cal	#	33
13) Acrolein	3.751	56	31	1.345	ug/l	# 1
16) Acetone	3.854	43	1927	23.607	ug/l	# 63
17) Carbon Disulfide	4.116	76	2758	3.766	ug/l	# 100
18) Methyl Acetate	4.391	43	903	5.135	ug/l	# 51
20) Methylene Chloride	4.610	84	1767	5.135	ug/l	# 85
22) Diisopropyl ether	6.031	45	3041	2.832	ug/l	# 64
23) Vinyl Acetate	6.025	43	1605	2.607	ug/l	# 67
25) 2-Butanone	6.896	43	280	2.563	ug/l	# 41
29) Tetrahydrofuran	7.268	42	140	2.244	ug/l	# 26
31) Cyclohexane	7.701	56	1001	1.911	ug/l	# 21
36) 1,1-Dichloropropene	7.713	75	2757	6.584	ug/l	# 45
38) Carbon Tetrachloride	7.713	117	3005	6.694	ug/l	# 13
41) Methacrylonitrile	7.207	41	148	1.252	ug/l	# 4
49) 1,4-Dioxane	9.219	88	272	140.226	ug/l	# 99
76) 1,2,3-Trichloropropane	12.402	75	6936	41.406	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.883	105	713	1.227	ug/l	# 71
81) trans-1,4-Dichloro-2-b...	12.402	75	6936	167.129	ug/l	# 16
84) 1,2,4-Trimethylbenzene	13.042	105	1748	3.035	ug/l	# 65
89) n-Butylbenzene	13.615	91	1192	1.934	ug/l	# 63
90) Hexachloroethane	13.895	117	1316	10.705	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.285	75	51	2.500	ug/l	# 1
95) Naphthalene	15.145	128	1520	5.307	ug/l	# 96

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

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Response via : Initial Calibration

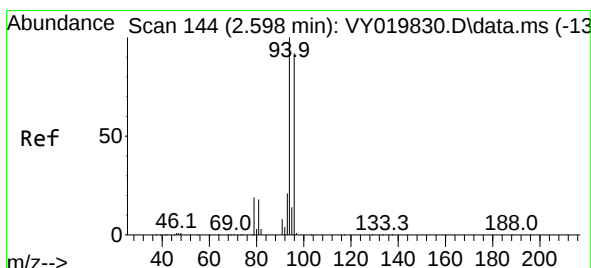
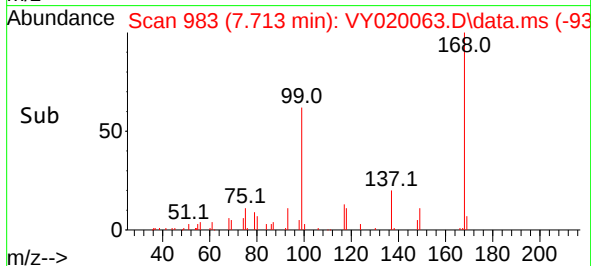
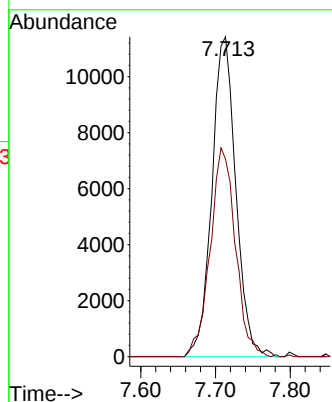
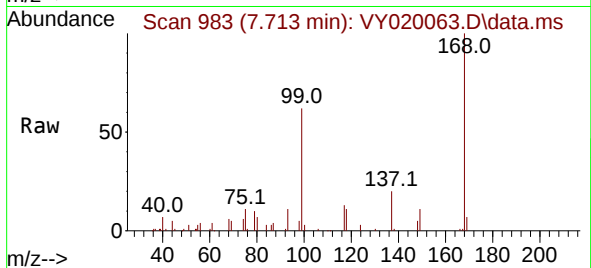




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

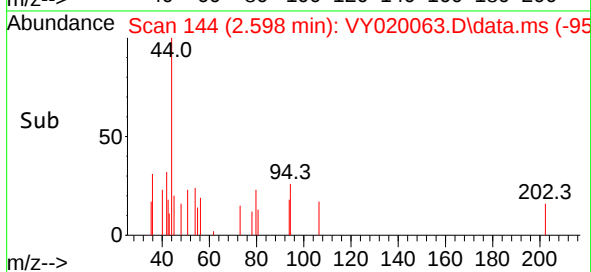
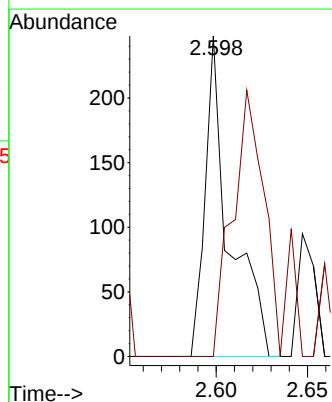
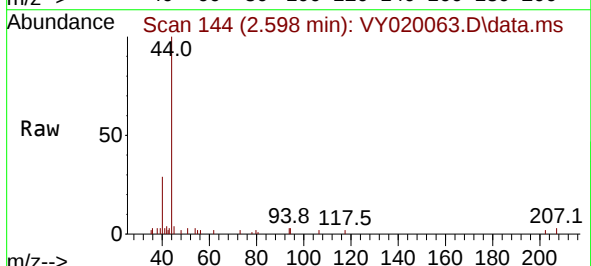
Instrument :
MSVOA_Y
ClientSampleId :

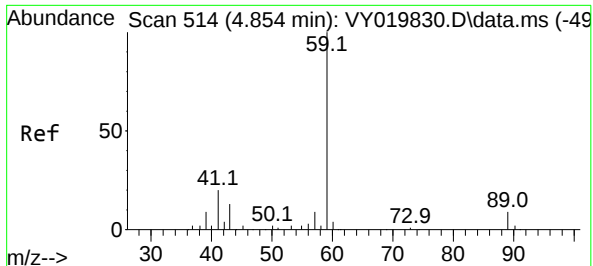
Tgt Ion:168 Resp: 25467
Ion Ratio Lower Upper
168 100
99 61.8 39.1 58.7#



#5
Bromomethane
Concen: 1.061 ug/l
RT: 2.598 min Scan# 144
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 94 Resp: 228
Ion Ratio Lower Upper
94 100
96 0.0 74.1 111.1#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.891 min Scan# 51

Delta R.T. 0.031 min

Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

Instrument :

MSVOA_Y

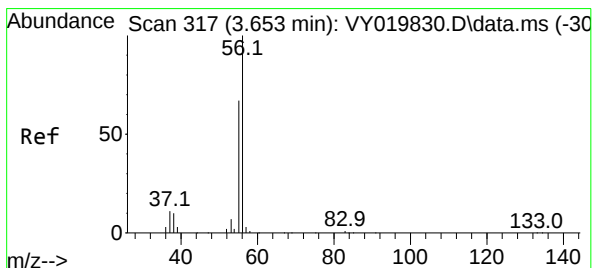
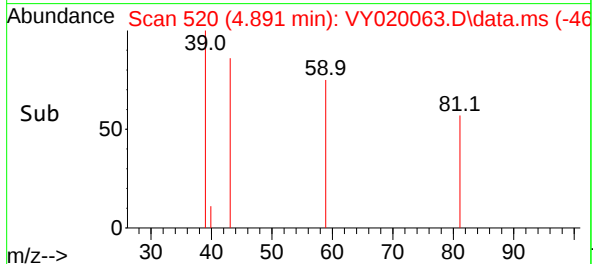
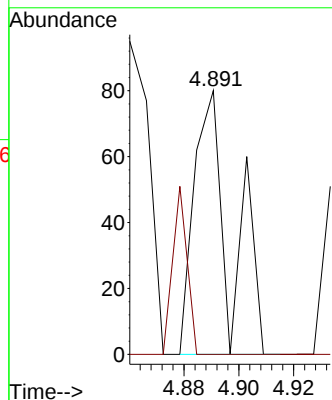
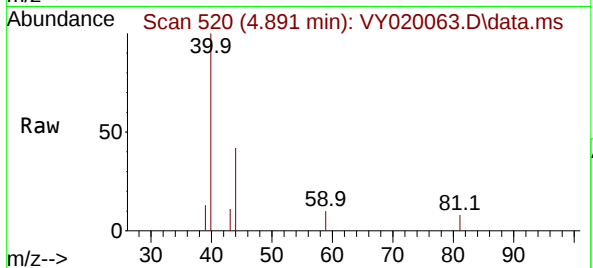
ClientSampleId :

Tgt Ion: 59 Resp: 74

Ion Ratio Lower Upper

59 100

57 25.7 3.0 4.6#



#13

Acrolein

Concen: 1.345 ug/l

RT: 3.751 min Scan# 333

Delta R.T. 0.098 min

Lab File: VY020063.D

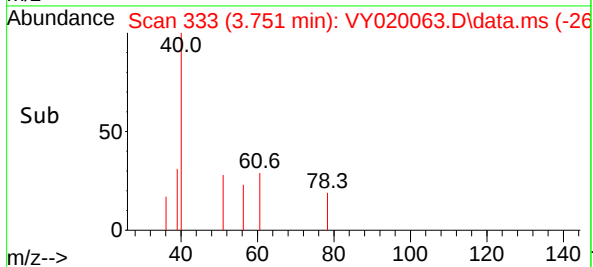
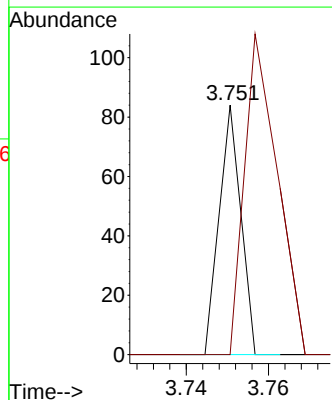
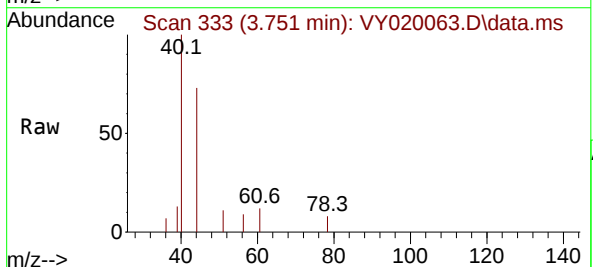
Acq: 29 Oct 2024 15:59

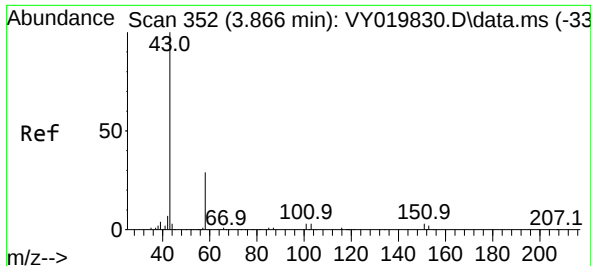
Tgt Ion: 56 Resp: 31

Ion Ratio Lower Upper

56 100

55 193.5 55.7 83.5#

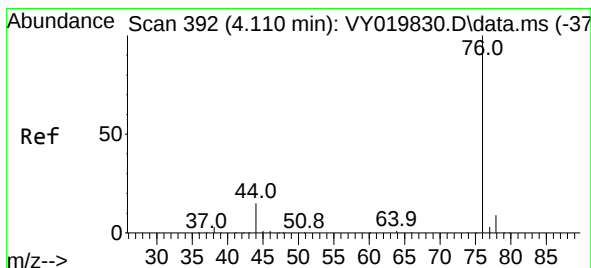
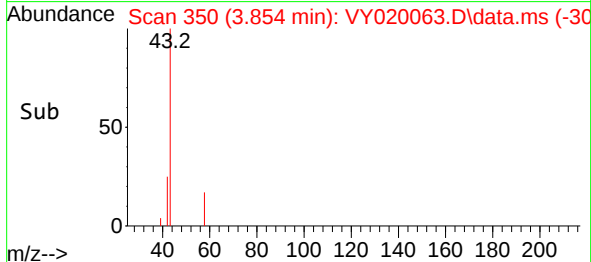
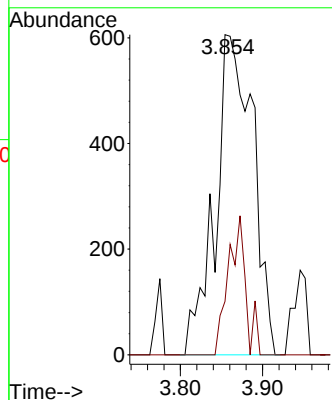
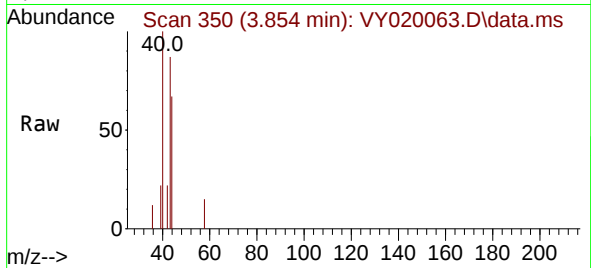




#16
Acetone
Concen: 23.607 ug/l
RT: 3.854 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

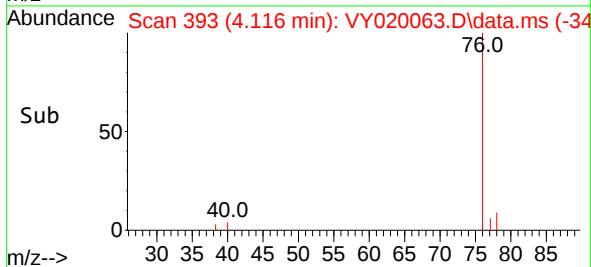
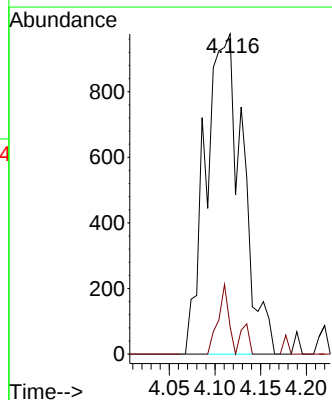
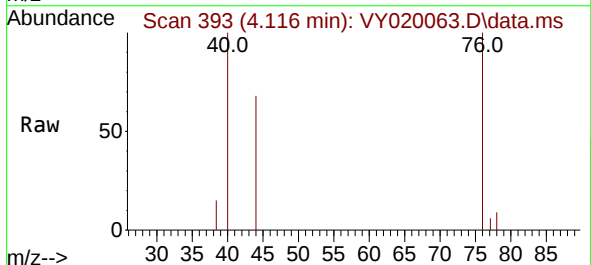
Instrument :
MSVOA_Y
ClientSampleId :

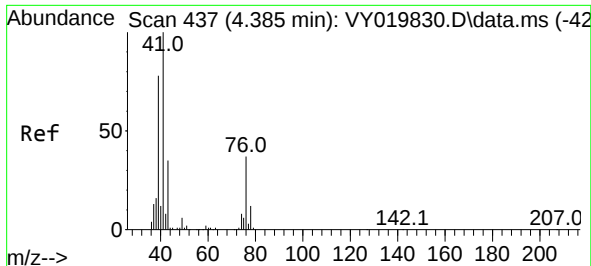
Tgt Ion: 43 Resp: 1927
Ion Ratio Lower Upper
43 100
58 16.7 31.7 47.5#



#17
Carbon Disulfide
Concen: 3.766 ug/l
RT: 4.116 min Scan# 393
Delta R.T. 0.013 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 76 Resp: 2758
Ion Ratio Lower Upper
76 100
78 8.5 6.8 10.2

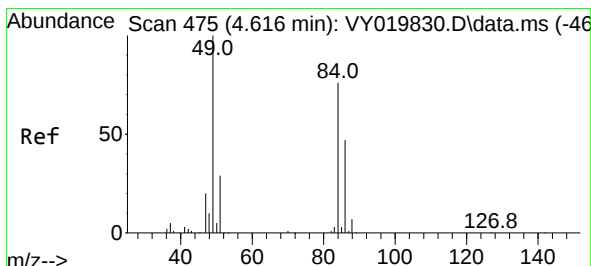
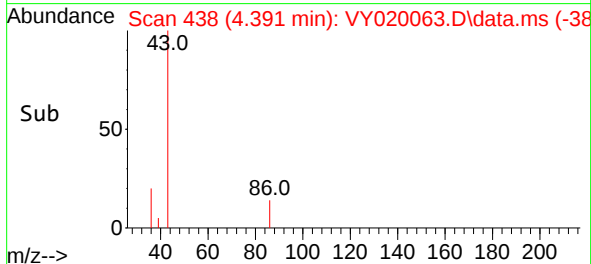
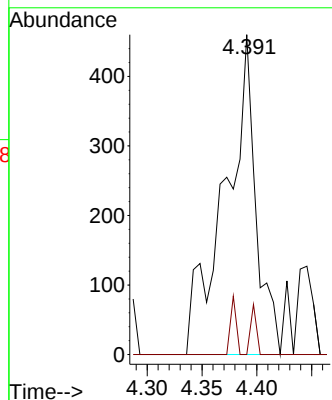
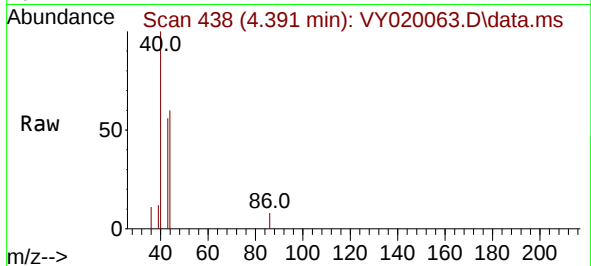




#18
Methyl Acetate
Concen: 5.135 ug/l
RT: 4.391 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

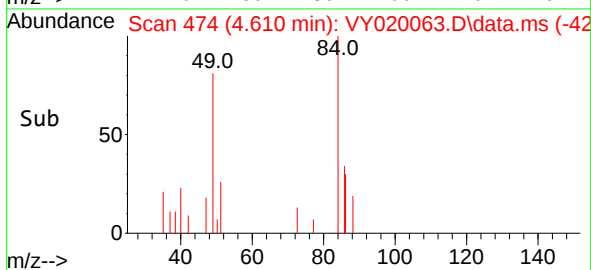
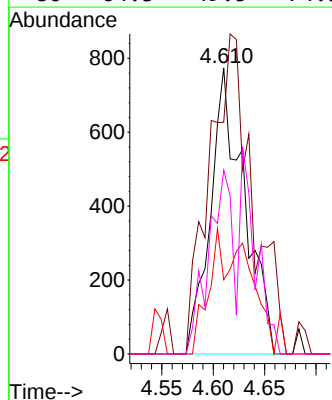
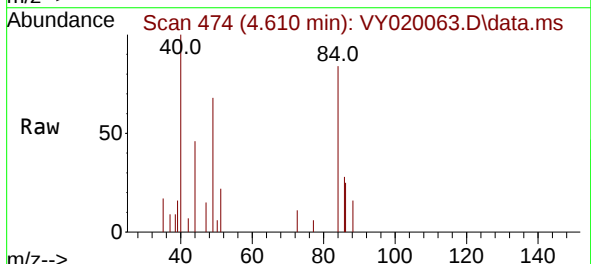
Instrument :
MSVOA_Y
ClientSampleId :

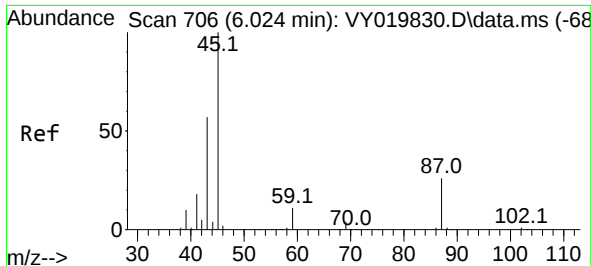
Tgt Ion: 43 Resp: 903
Ion Ratio Lower Upper
43 100
74 2.9 23.3 34.9#



#20
Methylene Chloride
Concen: 5.135 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

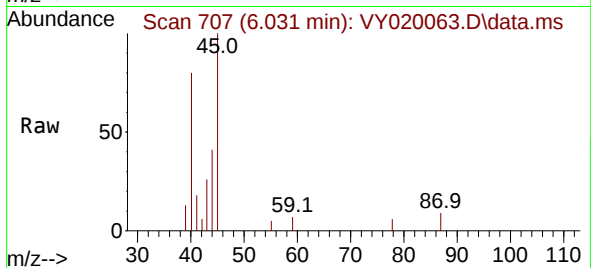
Tgt Ion: 84 Resp: 1767
Ion Ratio Lower Upper
84 100
49 81.0 84.4 126.6#
51 26.0 26.0 39.0#
86 64.3 49.5 74.3



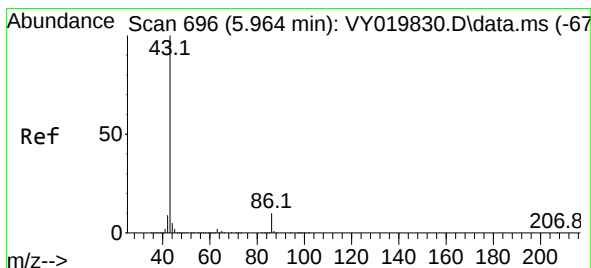
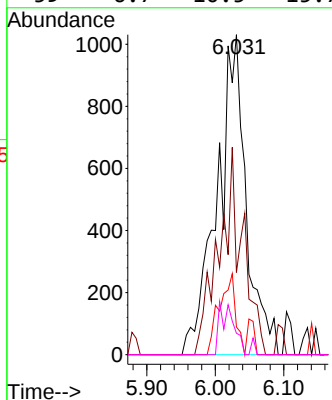
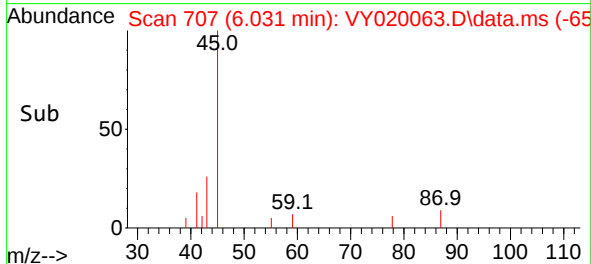


#22
Diisopropyl ether
Concen: 2.832 ug/l
RT: 6.031 min Scan# 706
Delta R.T. 0.013 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :

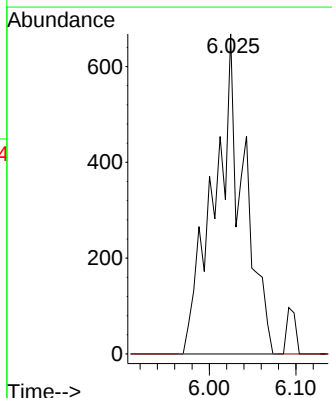
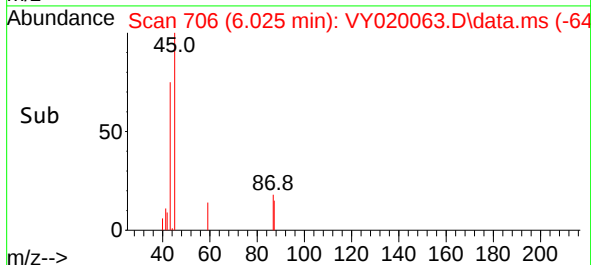
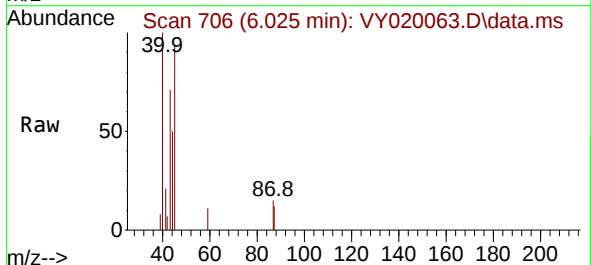


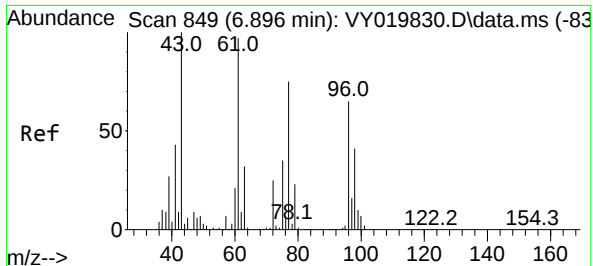
Tgt Ion:	45	Resp:	3041
Ion	Ratio	Lower	Upper
45	100		
43	25.7	42.2	63.2#
87	8.6	25.0	37.6#
59	6.7	10.5	15.7#



#23
Vinyl Acetate
Concen: 2.607 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.067 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:	43	Resp:	1605
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.6	16.0#

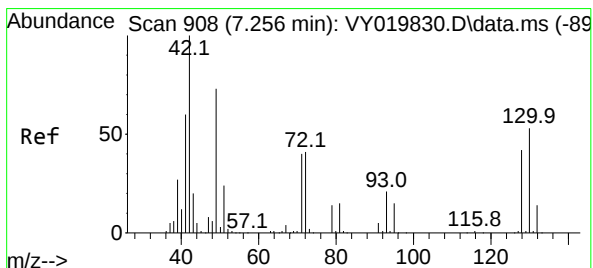
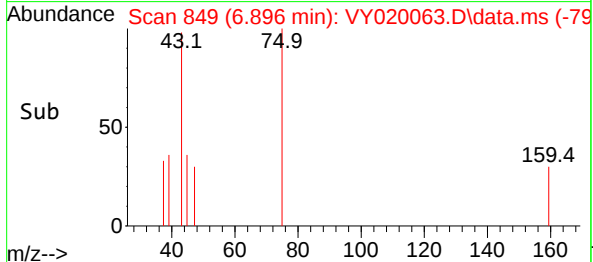
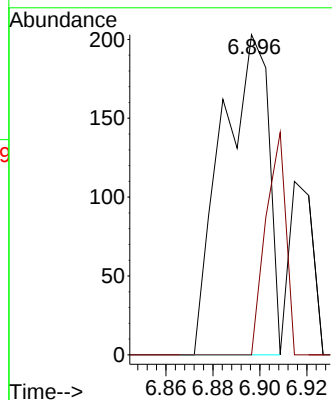
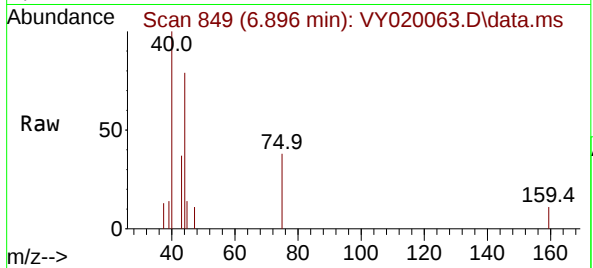




#25
2-Butanone
Concen: 2.563 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

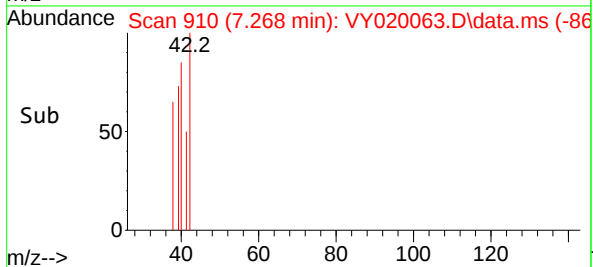
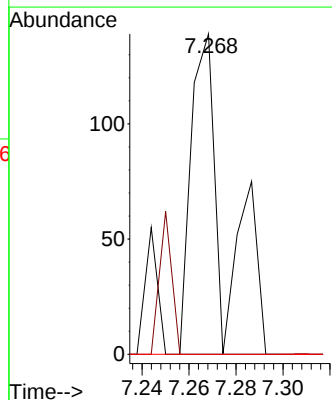
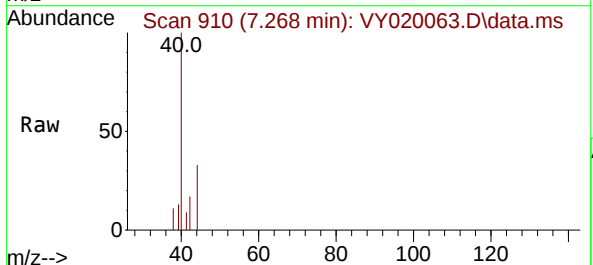
Instrument :
MSVOA_Y
ClientSampleId :

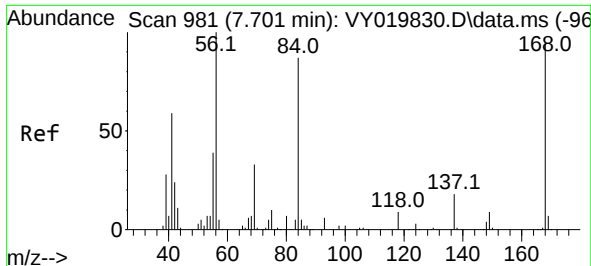
Tgt Ion: 43 Resp: 280
Ion Ratio Lower Upper
43 100
72 0.0 27.3 40.9#



#29
Tetrahydrofuran
Concen: 2.244 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

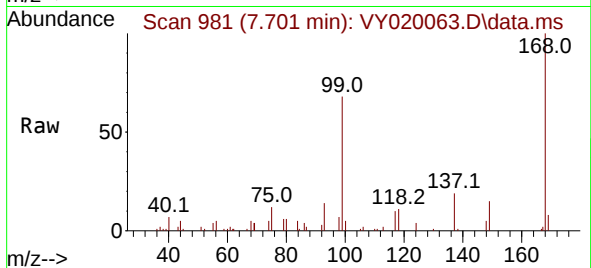
Tgt Ion: 42 Resp: 140
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.4#
71 0.0 40.8 61.2#



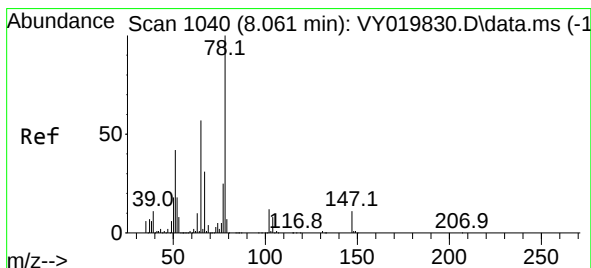
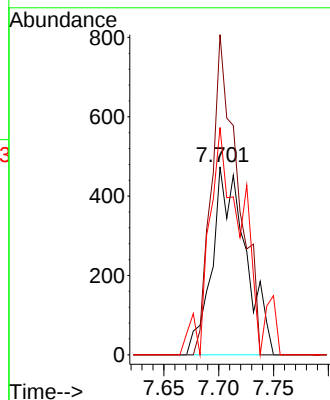
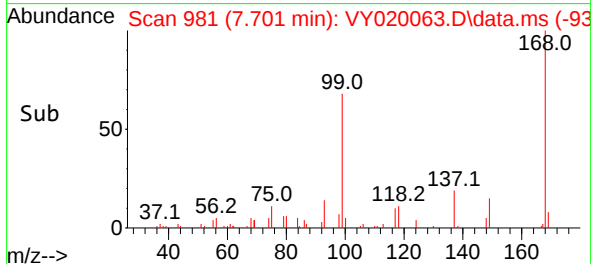


#31
Cyclohexane
Concen: 1.911 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Instrument :
MSVOA_Y
ClientSampleId :

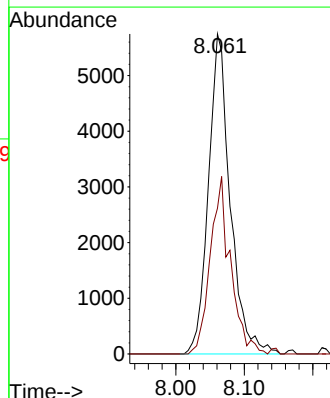
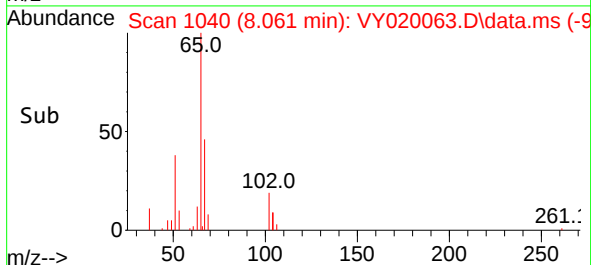
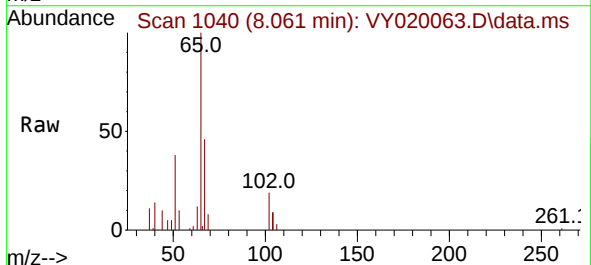


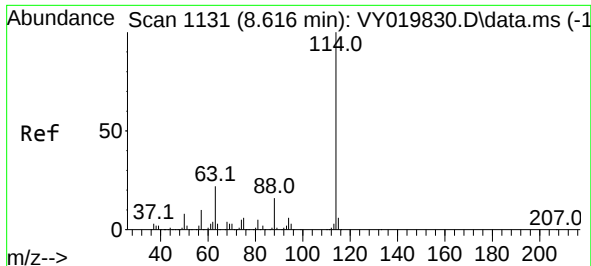
Tgt Ion: 56 Resp: 1001
Ion Ratio Lower Upper
56 100
69 170.3 28.7 43.1#
84 120.9 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 40.498 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 65 Resp: 12699
Ion Ratio Lower Upper
65 100
67 51.5 0.0 109.6

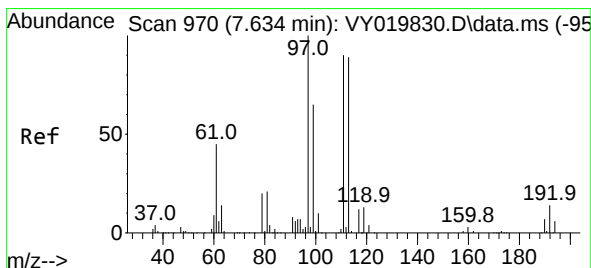
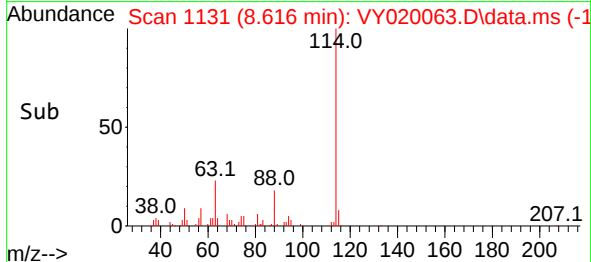
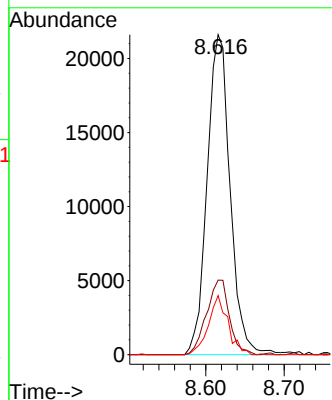
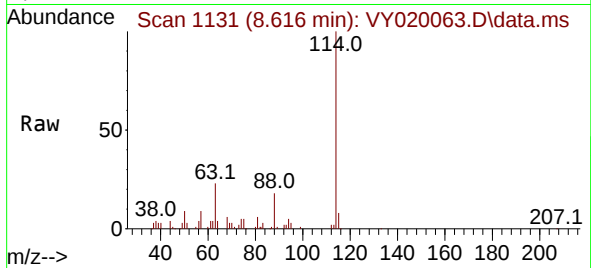




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

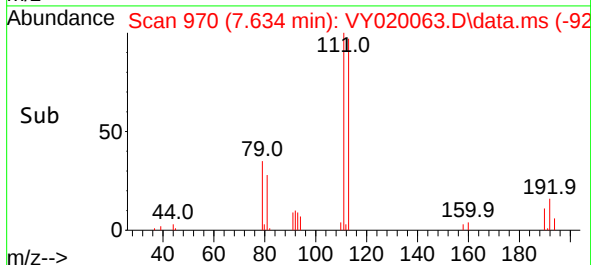
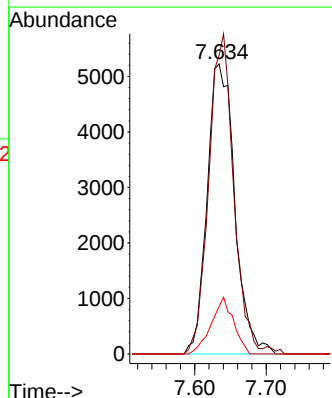
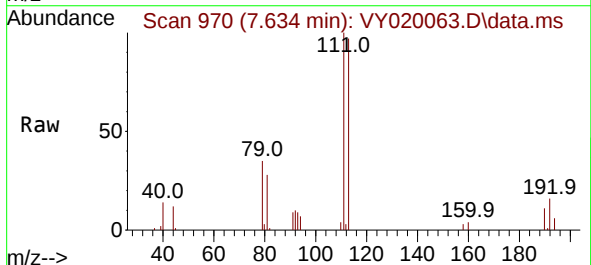
Instrument :
MSVOA_Y
ClientSampleId :

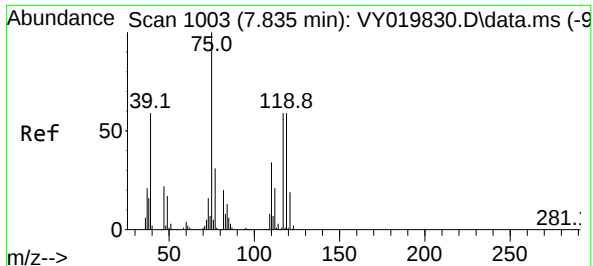
Tgt Ion:114 Resp: 44048
Ion Ratio Lower Upper
114 100
63 23.3 0.0 35.0
88 18.4 0.0 27.2



#35
Dibromofluoromethane
Concen: 48.213 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:113 Resp: 14014
Ion Ratio Lower Upper
113 100
111 98.9 82.2 123.4
192 15.8 15.9 23.9#





#36

1,1-Dichloropropene

Concen: 6.584 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

Instrument :

MSVOA_Y

ClientSampleId :

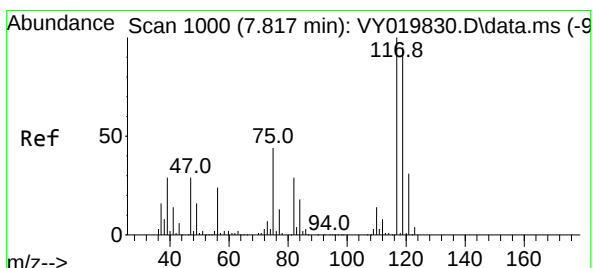
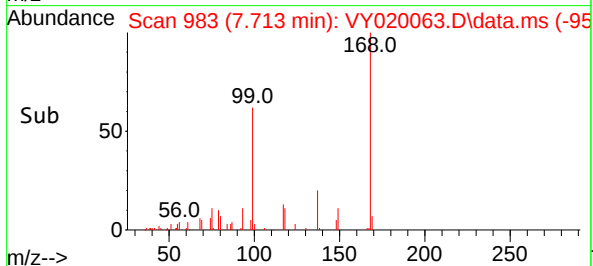
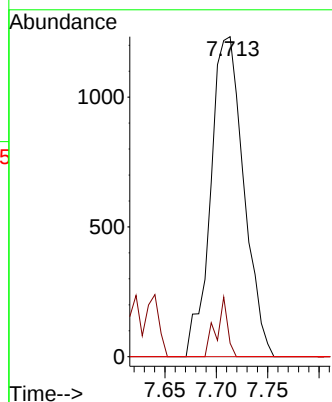
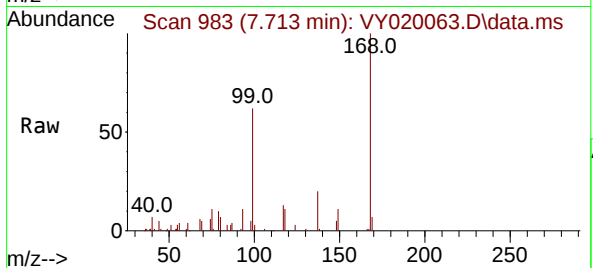
Tgt Ion: 75 Resp: 2757

Ion Ratio Lower Upper

75 100

110 6.3 19.0 57.0#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.694 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.103 min

Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

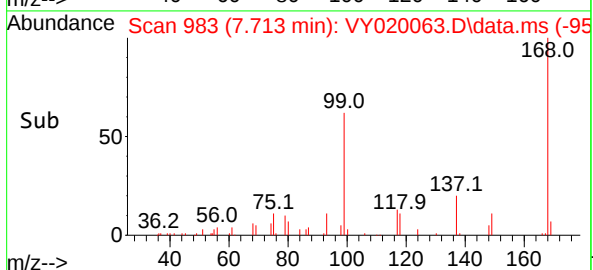
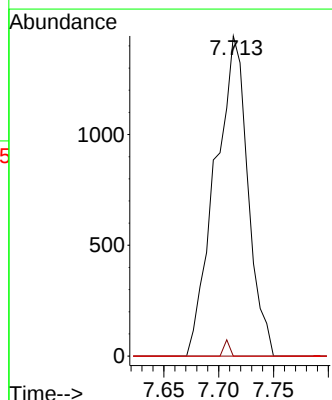
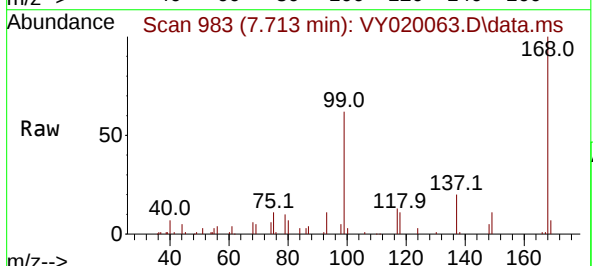
Tgt Ion: 117 Resp: 3005

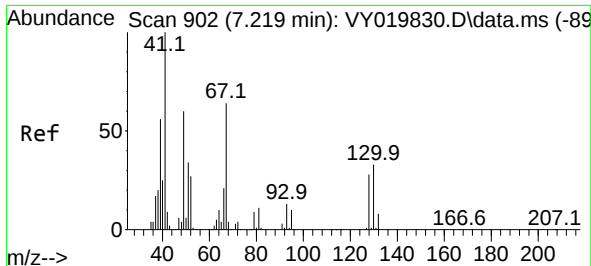
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.6#

121 0.0 24.0 36.0#

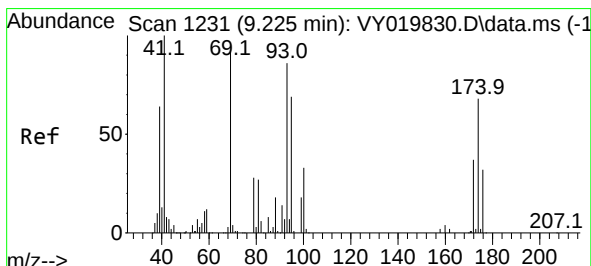
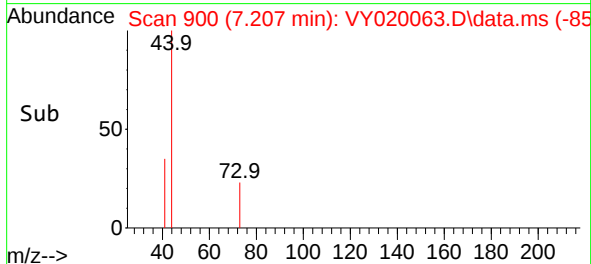
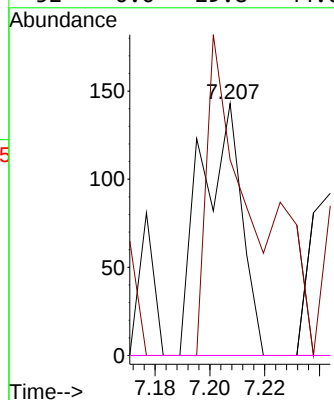
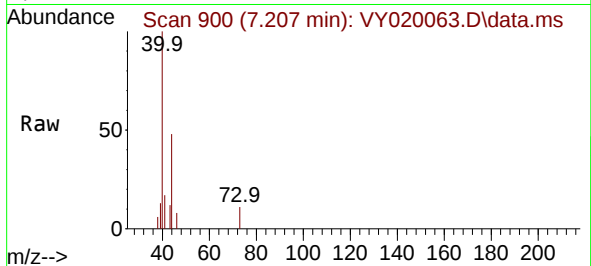




#41
Methacrylonitrile
Concen: 1.252 ug/l
RT: 7.207 min Scan# 902
Delta R.T. -0.012 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

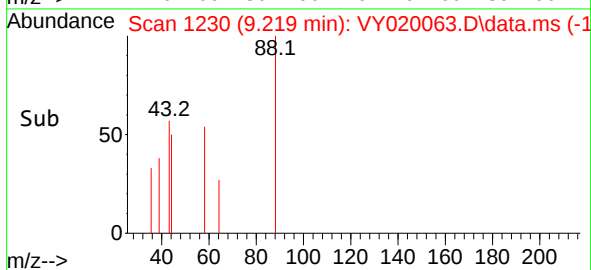
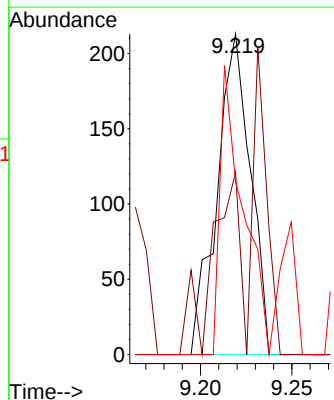
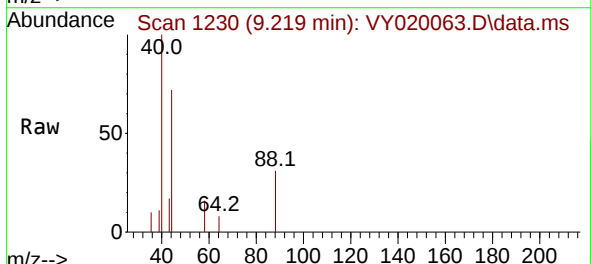
Instrument :
MSVOA_Y
ClientSampleId :

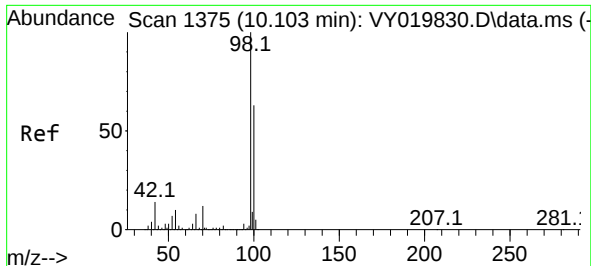
Tgt Ion:	41	Resp:	148
Ion	Ratio	Lower	Upper
41	100		
39	147.3	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



#49
1,4-Dioxane
Concen: 140.226 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.012 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion:	88	Resp:	272
Ion	Ratio	Lower	Upper
88	100		
43	47.8	0.0	0.0#
58	62.1	49.3	73.9

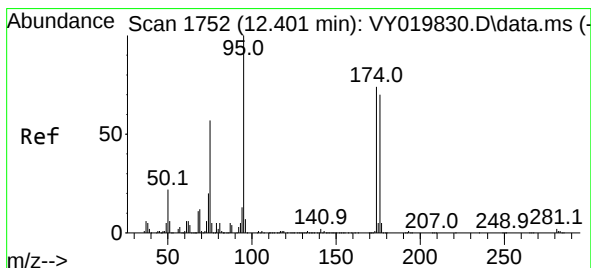
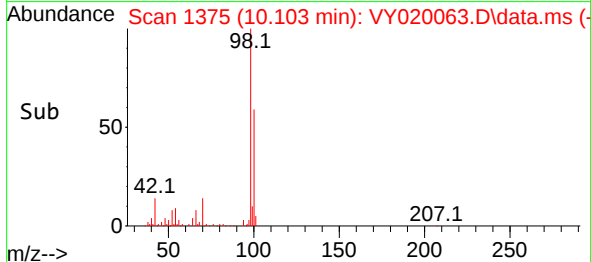
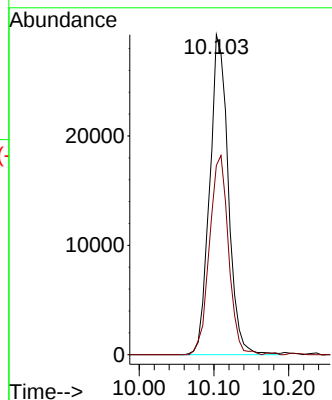
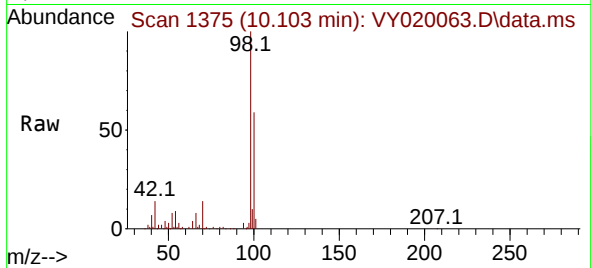




#50
Toluene-d8
Concen: 47.038 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

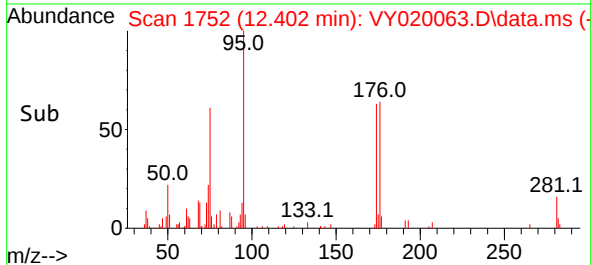
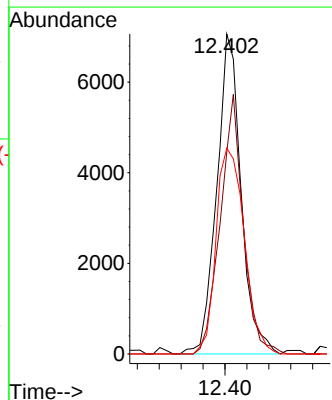
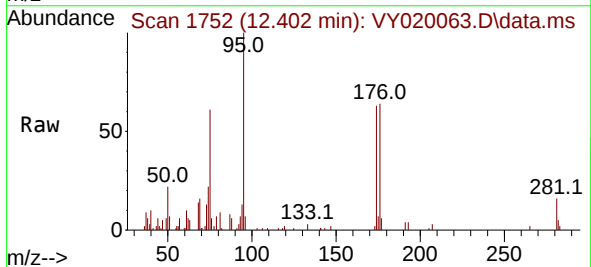
Instrument :
MSVOA_Y
ClientSampleId :

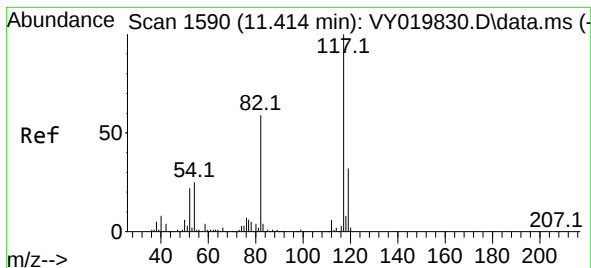
Tgt Ion: 98 Resp: 50490
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 28.029 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 95 Resp: 10871
Ion Ratio Lower Upper
95 100
174 76.5 0.0 175.6
176 74.6 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: VY020063.D

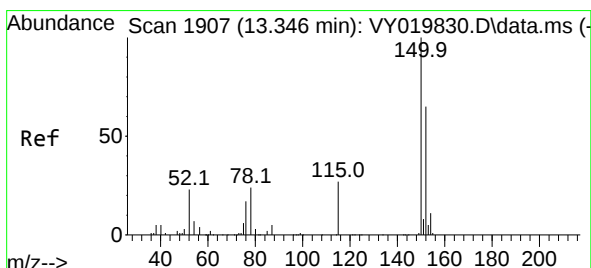
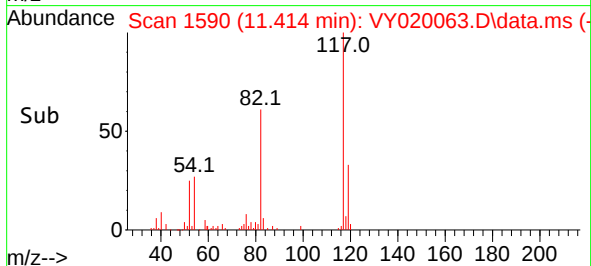
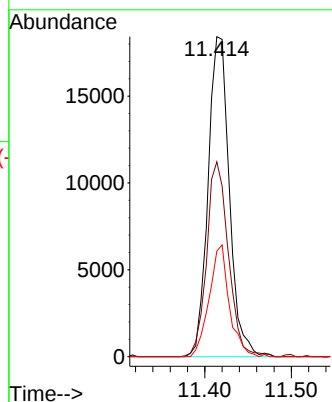
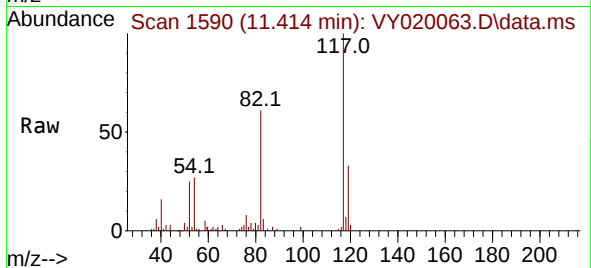
Acq: 29 Oct 2024 15:59

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	31461
Ion Ratio	Lower	Upper
117	100	
82	60.9	42.4 63.6
119	33.0	25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

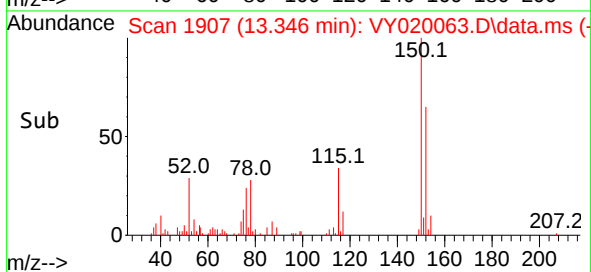
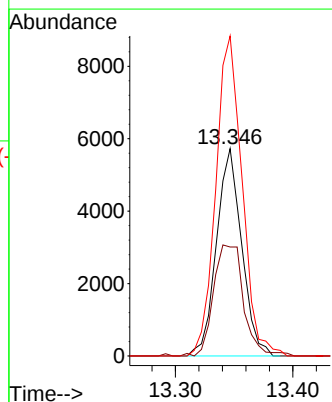
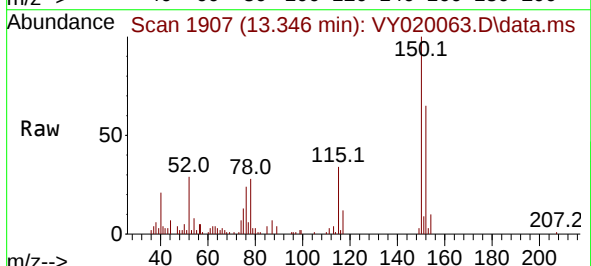
RT: 13.346 min Scan# 1907

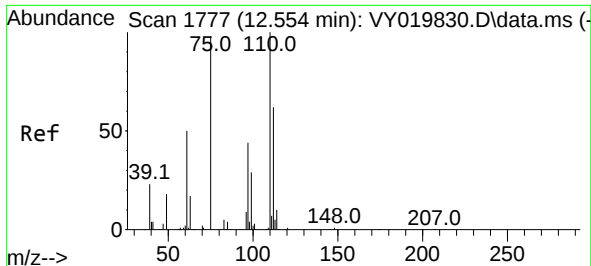
Delta R.T. 0.000 min

Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

Tgt Ion:152	Resp:	8551
Ion Ratio	Lower	Upper
152	100	
115	63.8	28.2 84.7
150	161.0	0.0 345.6

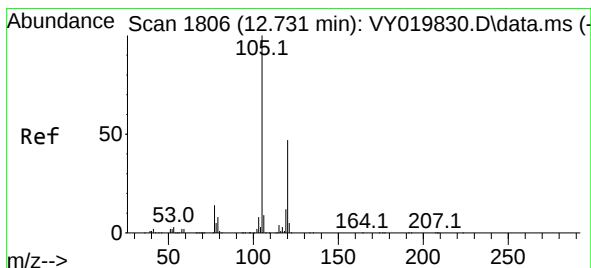
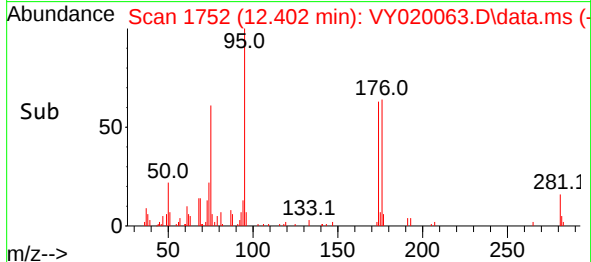
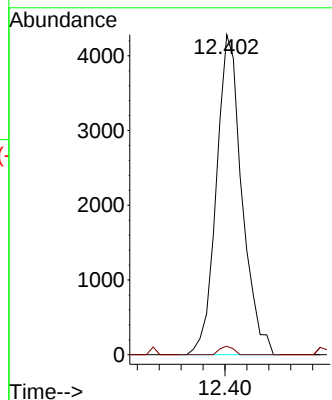
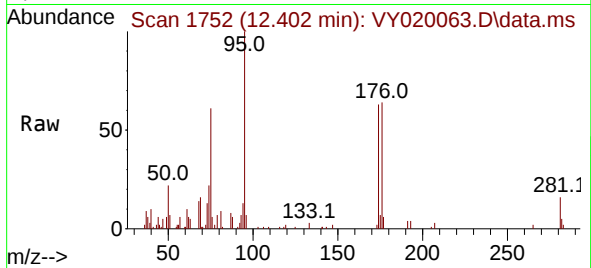




#76
1,2,3-Trichloropropane
Concen: 41.406 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.158 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

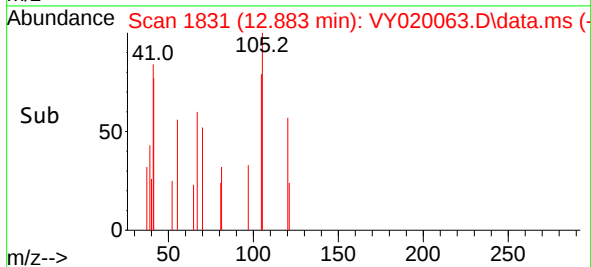
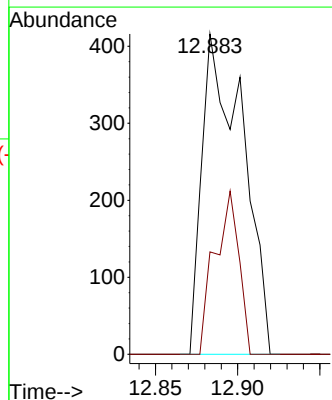
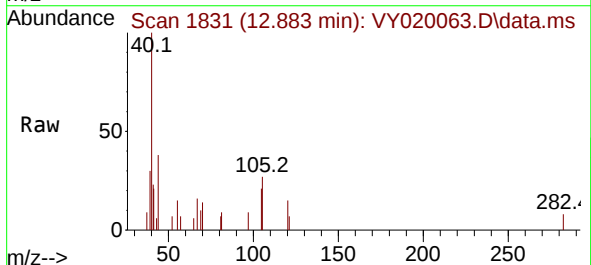
Instrument :
MSVOA_Y
ClientSampleId :

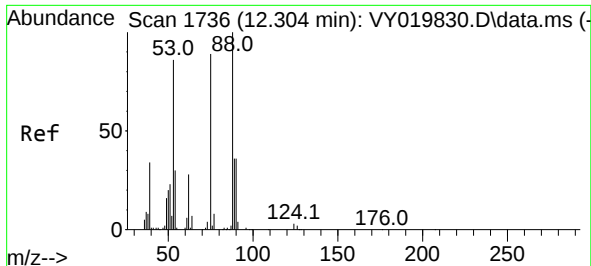
Tgt Ion: 75 Resp: 6936
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.227 ug/l
RT: 12.883 min Scan# 1831
Delta R.T. 0.147 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 105 Resp: 713
Ion Ratio Lower Upper
105 100
120 30.4 25.1 75.2

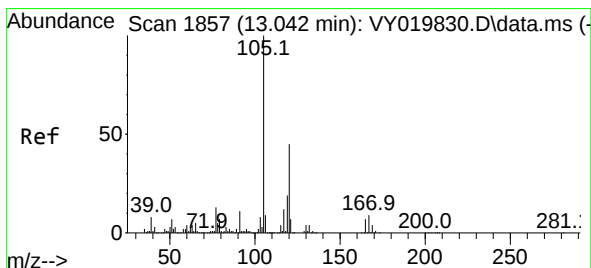
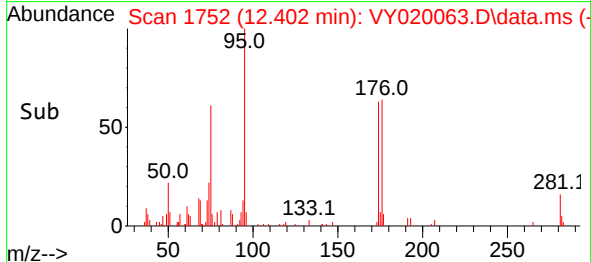
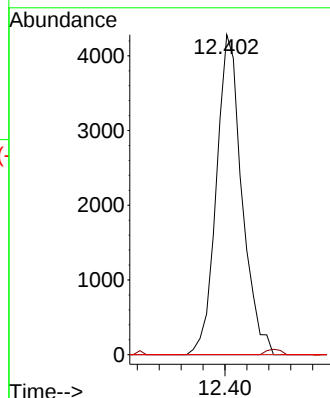
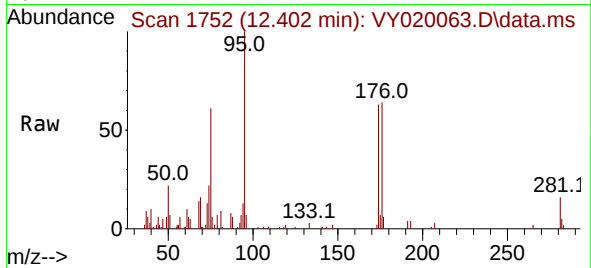




#81
trans-1,4-Dichloro-2-butene
Concen: 167.129 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

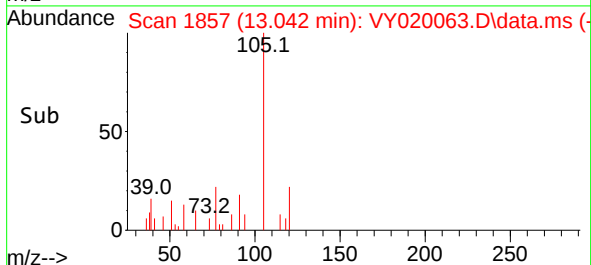
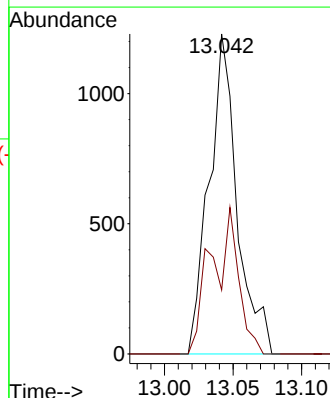
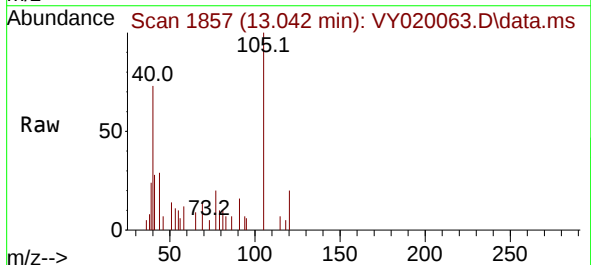
Instrument :
MSVOA_Y
ClientSampleId :

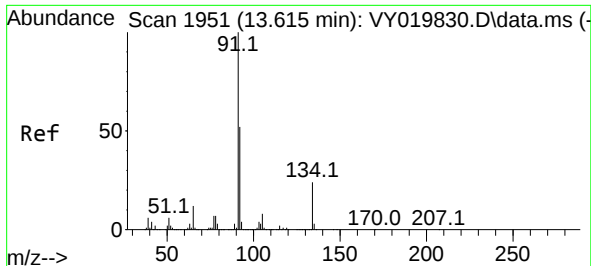
Tgt Ion: 75 Resp: 6936
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.0 35.8 53.6#



#84
1,2,4-Trimethylbenzene
Concen: 3.035 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 105 Resp: 1748
Ion Ratio Lower Upper
105 100
120 23.2 23.2 69.6

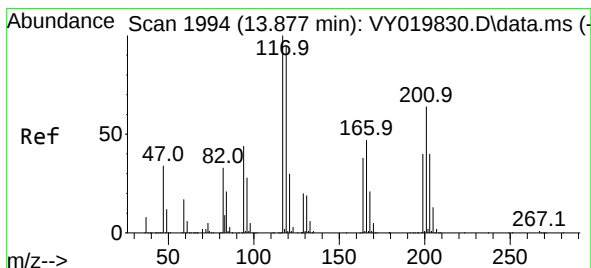
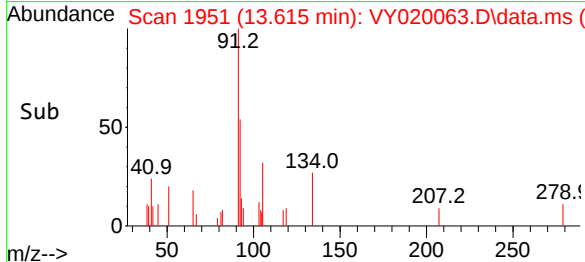
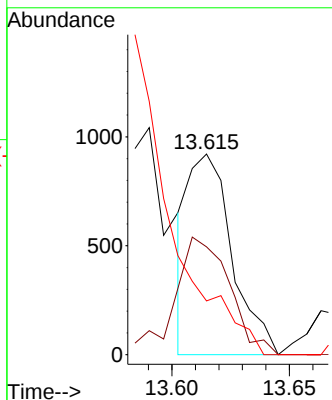
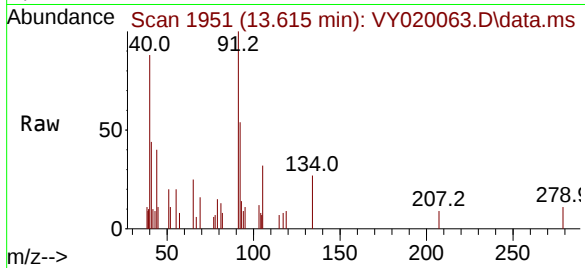




#89
n-Butylbenzene
Concen: 1.934 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

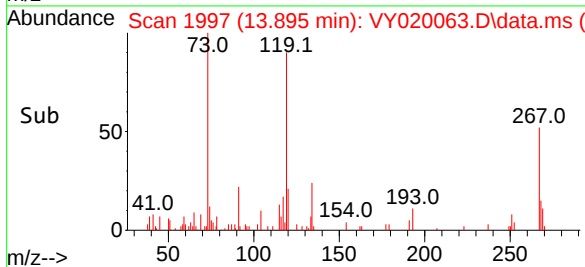
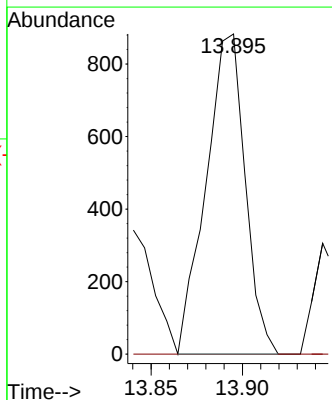
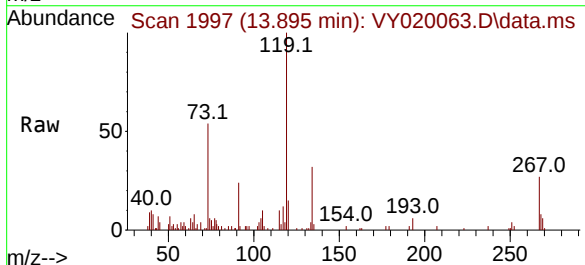
Instrument :
MSVOA_Y
ClientSampleId :

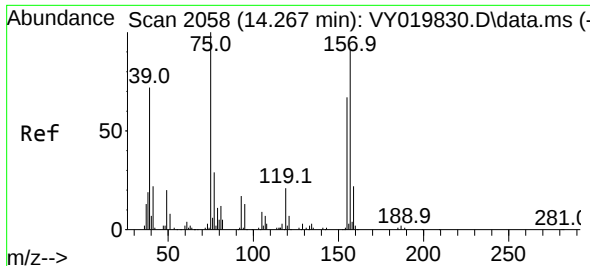
Tgt Ion: 91 Resp: 1192
Ion Ratio Lower Upper
91 100
92 74.9 26.6 79.7
134 0.0 12.9 38.7#



#90
Hexachloroethane
Concen: 10.705 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VY020063.D
Acq: 29 Oct 2024 15:59

Tgt Ion: 117 Resp: 1316
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.500 ug/l

RT: 14.285 min Scan# 2058

Delta R.T. 0.013 min

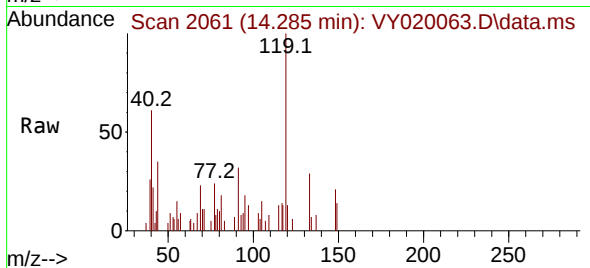
Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

Instrument :

MSVOA_Y

ClientSampleId :



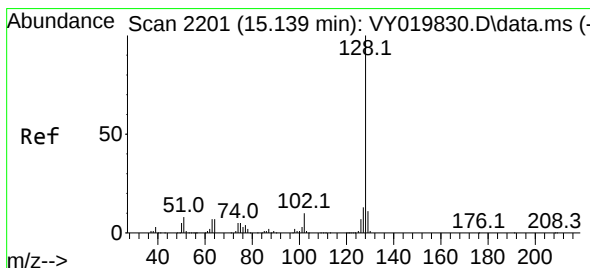
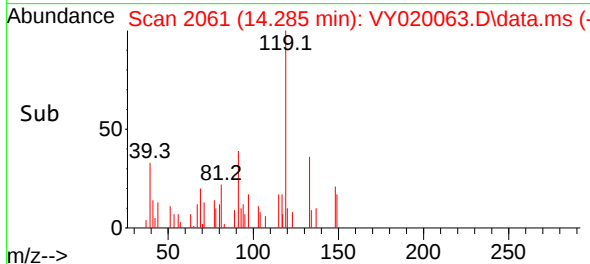
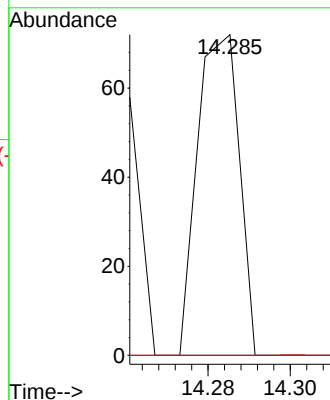
Tgt Ion: 75 Resp: 51

Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

157 0.0 62.7 188.2#



#95

Naphthalene

Concen: 5.307 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY020063.D

Acq: 29 Oct 2024 15:59

Tgt Ion:128 Resp: 1520

Ion Ratio Lower Upper

128 100

127 15.5 10.6 16.0

129 9.8 8.6 13.0

