

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081523\
 Data File : VY015101.D
 Acq On : 15 Aug 2023 14:20
 Operator : SY/MD
 Sample : 03961-03
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 15 15:23:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

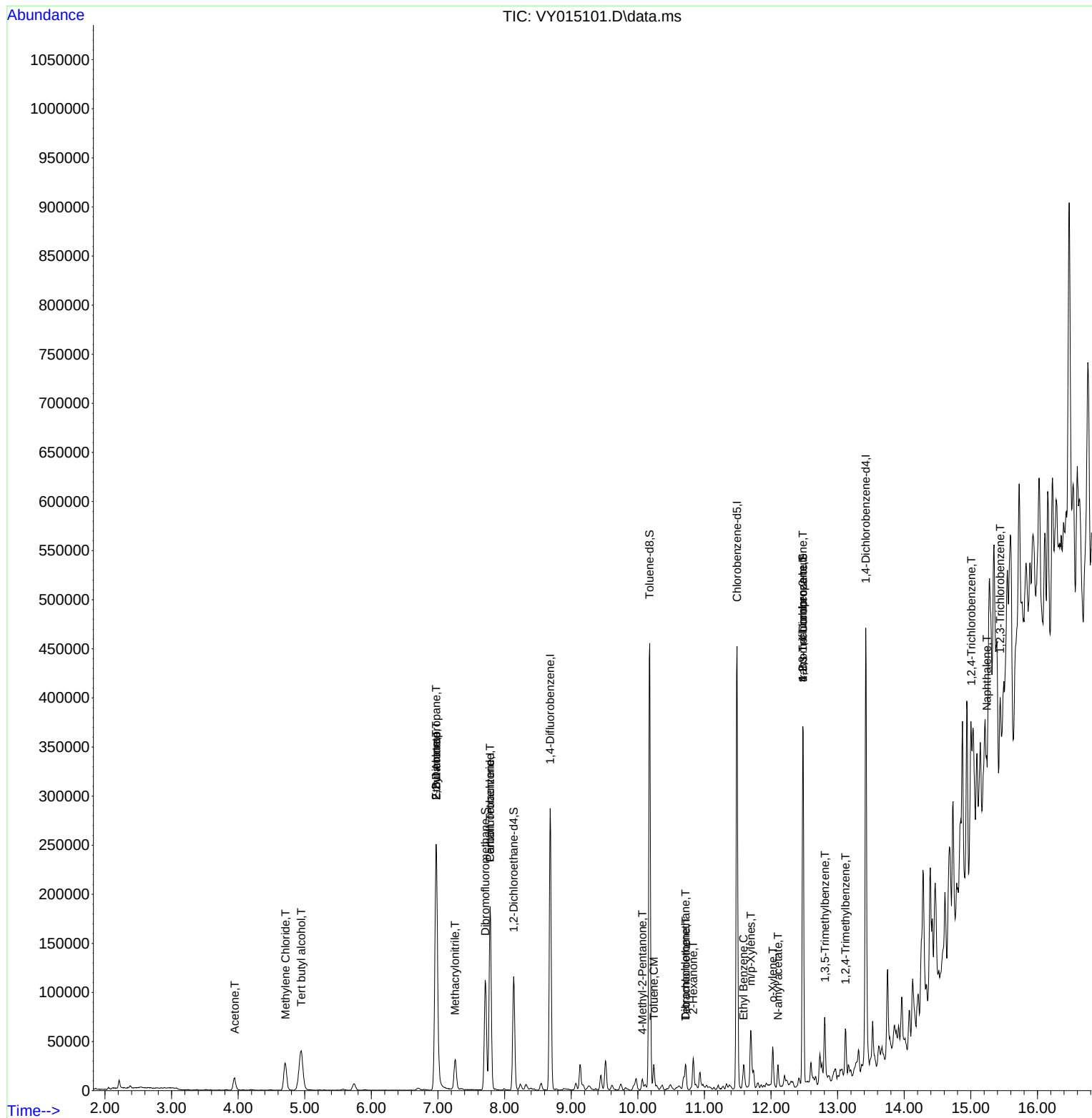
Internal Standards						
1) Pentafluorobenzene	7.783	168	146171	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	248024	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	242907	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	116332	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	89612	51.071	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 102.140%	
35) Dibromofluoromethane	7.710	113	78799	49.384	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.760%	
50) Toluene-d8	10.179	98	300019	50.510	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.020%	
62) 4-Bromofluorobenzene	12.477	95	109371	50.413	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 100.820%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.906	85	47	Below Cal	#	43
3) Chloromethane	2.107	50	524	Below Cal	#	73
5) Bromomethane	2.644	94	99	Below Cal		83
11) Tert butyl alcohol	4.948	59	82165	286.810	ug/l #	83
13) Acrolein	3.723	56	22	Below Cal	#	1
16) Acetone	3.948	43	22520	39.287	ug/l	99
20) Methylene Chloride	4.710	84	21546	12.431	ug/l	88
25) 2-Butanone	6.972	43	25621	31.568	ug/l	90
26) 2,2-Dichloropropane	6.972	77	16750	7.132	ug/l #	54
31) Cyclohexane	7.783	56	3295	Below Cal	#	14
37) Ethyl Acetate	6.972	43	25621	15.571	ug/l #	46
38) Carbon Tetrachloride	7.783	117	14314	6.851	ug/l #	16
41) Methacrylonitrile	7.259	41	15710	18.516	ug/l #	39
51) 4-Methyl-2-Pentanone	10.069	43	7117	4.098	ug/l #	87
52) Toluene	10.240	92	10101	2.871	ug/l	92
59) 2-Hexanone	10.831	43	17050	13.266	ug/l	95
60) Dibromochloromethane	10.715	129	3079	1.788	ug/l #	11
64) Tetrachloroethene	10.721	164	3289	1.943	ug/l	96
67) Ethyl Benzene	11.587	91	14003	1.806	ug/l	96
68) m/p-Xylenes	11.697	106	17239	5.853	ug/l	97
69) o-Xylene	12.026	106	9669	3.296	ug/l	95
74) N-amyl acetate	12.105	43	14332	5.306	ug/l #	52
76) 1,2,3-Trichloropropane	12.477	75	60124	42.540	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	7726	1.239	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	60124	93.439	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	24604	3.949	ug/l	97
93) 1,2,4-Trichlorobenzene	15.007	180	2993	1.380	ug/l #	1
95) Naphthalene	15.239	128	14908	2.759	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.440	180	3610	1.843	ug/l #	13

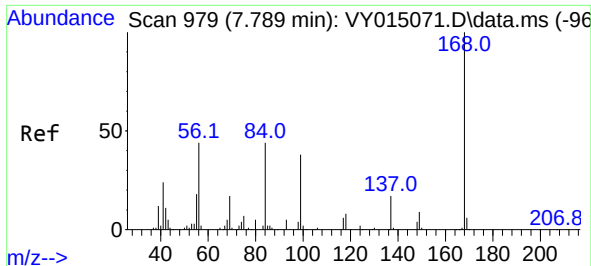
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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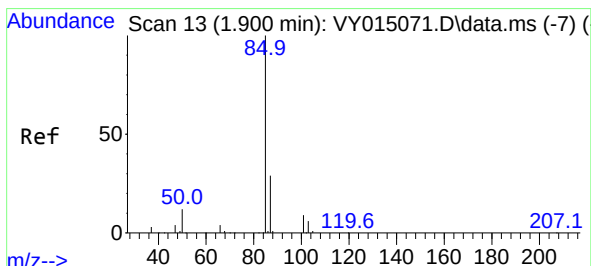
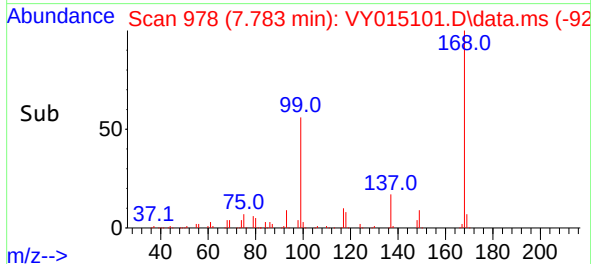
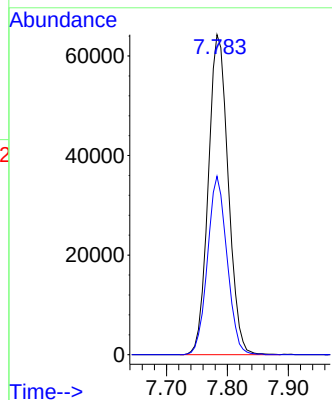
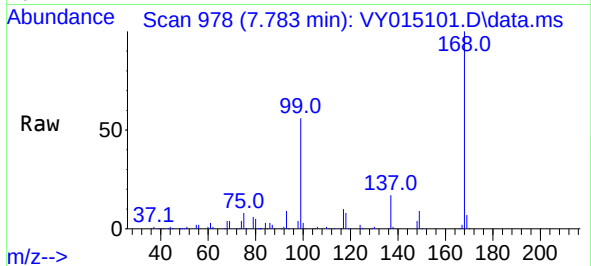




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

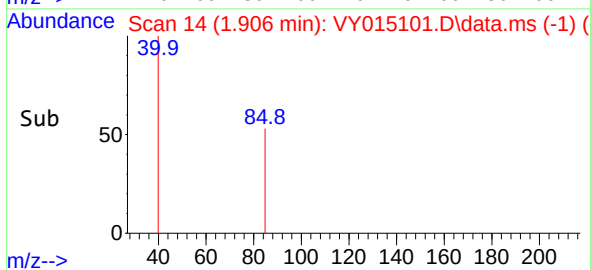
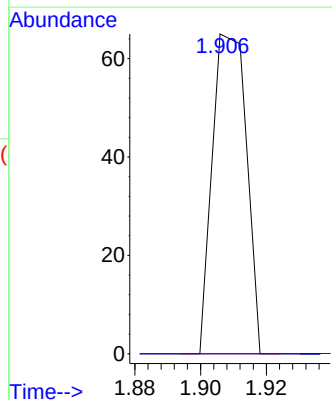
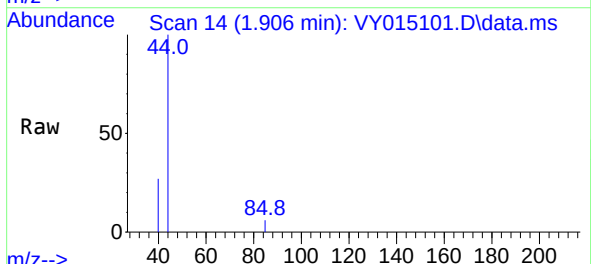
Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:168 Resp: 146171
Ion Ratio Lower Upper
168 100
99 55.8 43.4 65.0

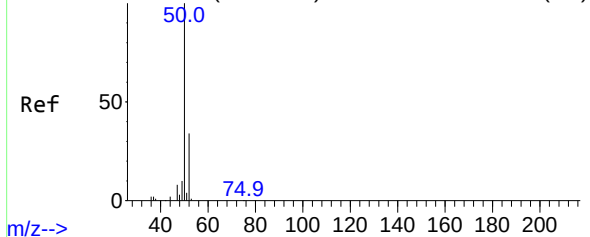


#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 85 Resp: 47
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#



Abundance Scan 48 (2.113 min): VY015071.D\data.ms (-41)



#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY015101.D

Acq: 15 Aug 2023 14:20

Instrument :

MSVOA_Y

ClientSampleId :

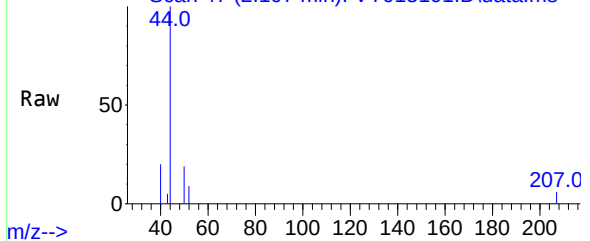
Tgt Ion: 50 Resp: 524

Ion Ratio Lower Upper

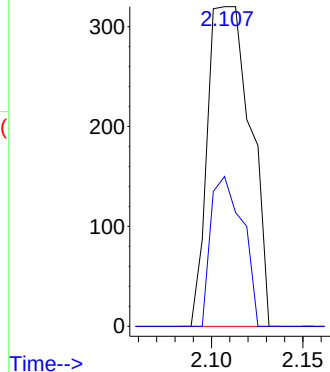
50 100

52 46.9 25.4 38.2#

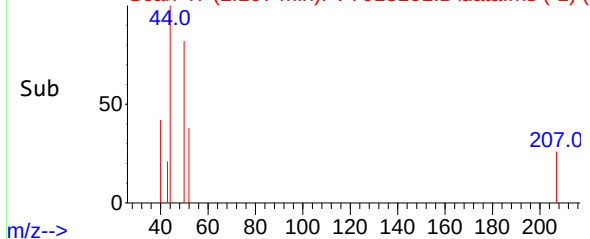
Abundance Scan 47 (2.107 min): VY015101.D\data.ms



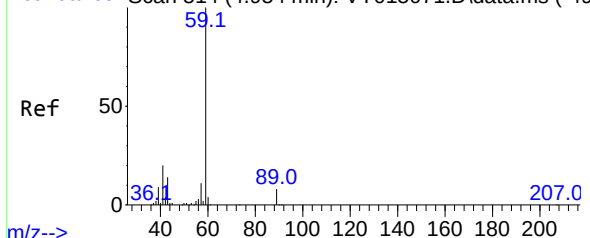
Abundance



Abundance Scan 47 (2.107 min): VY015101.D\data.ms (-1)



Abundance Scan 514 (4.954 min): VY015071.D\data.ms (-49)



#11

Tert butyl alcohol

Concen: 286.810 ug/l

RT: 4.948 min Scan# 513

Delta R.T. 0.000 min

Lab File: VY015101.D

Acq: 15 Aug 2023 14:20

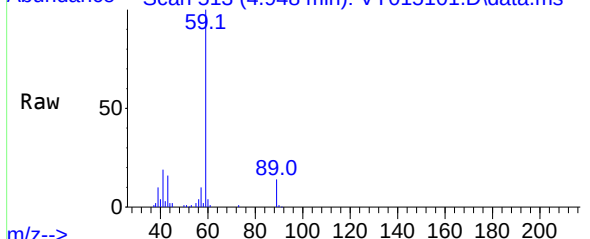
Tgt Ion: 59 Resp: 82165

Ion Ratio Lower Upper

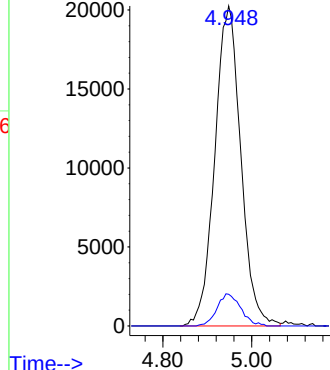
59 100

57 9.2 3.0 4.4#

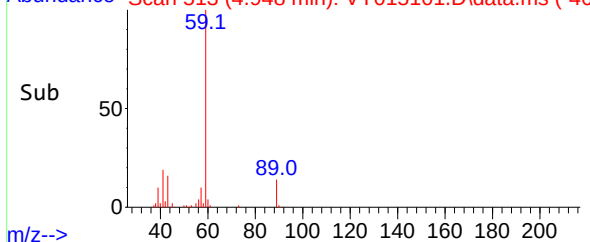
Abundance Scan 513 (4.948 min): VY015101.D\data.ms

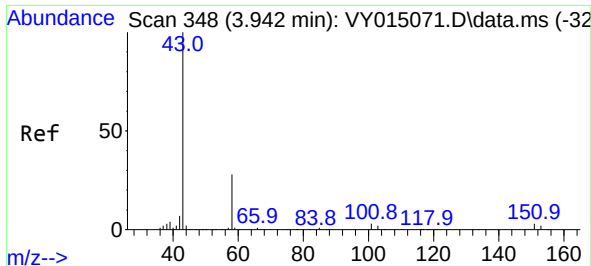


Abundance



Abundance Scan 513 (4.948 min): VY015101.D\data.ms (-46)

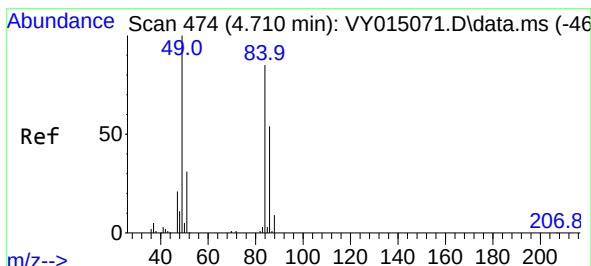
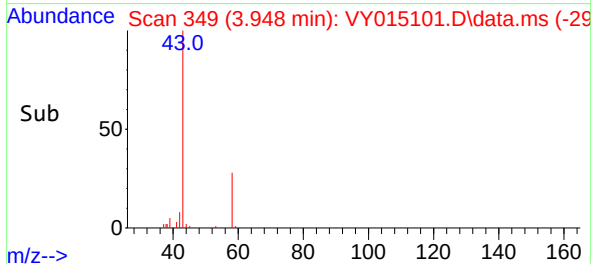
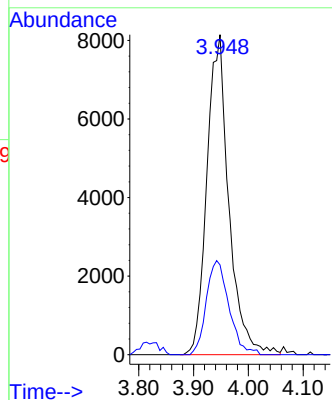
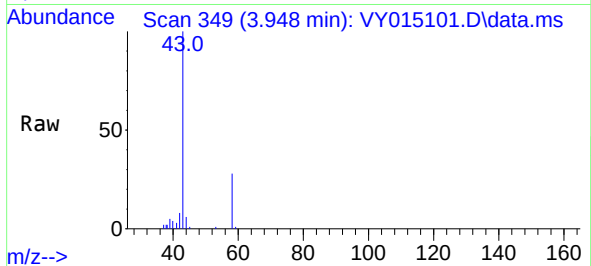




#16
Acetone
Concen: 39.287 ug/l
RT: 3.948 min Scan# 348
Delta R.T. 0.006 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

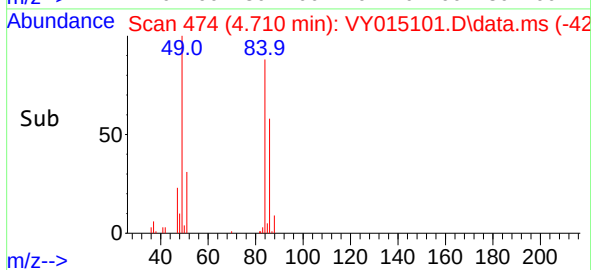
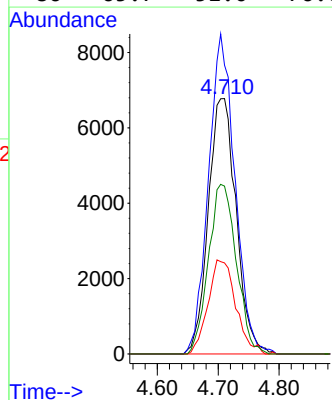
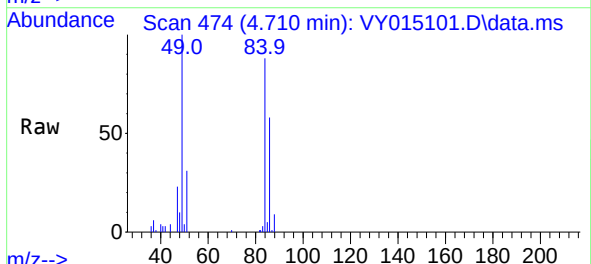
Instrument :
MSVOA_Y
ClientSampleId :

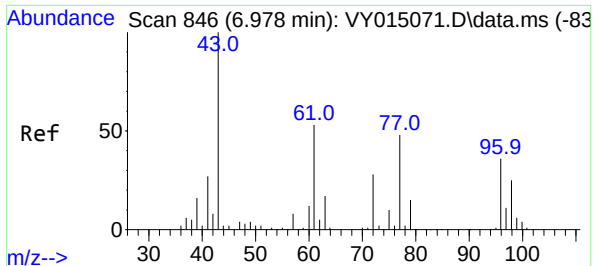
Tgt Ion: 43 Resp: 22520
Ion Ratio Lower Upper
43 100
58 28.1 22.7 34.1



#20
Methylene Chloride
Concen: 12.431 ug/l
RT: 4.710 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 84 Resp: 21546
Ion Ratio Lower Upper
84 100
49 113.1 106.9 160.3
51 35.6 33.2 49.8
86 65.7 51.0 76.6





#25

2-Butanone

Concen: 31.568 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.006 min

Lab File: VY015101.D

Acq: 15 Aug 2023 14:20

Instrument :

MSVOA_Y

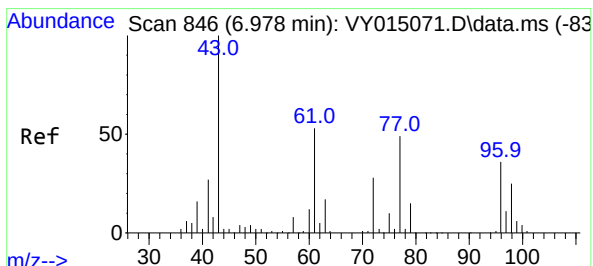
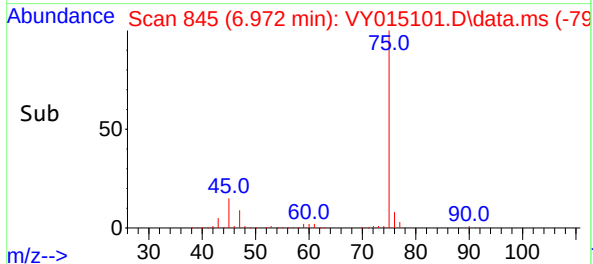
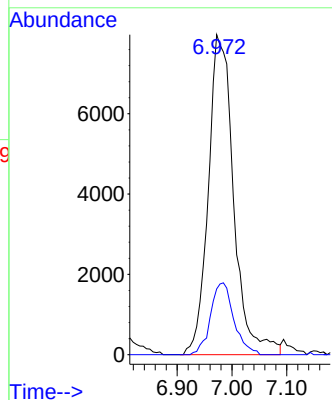
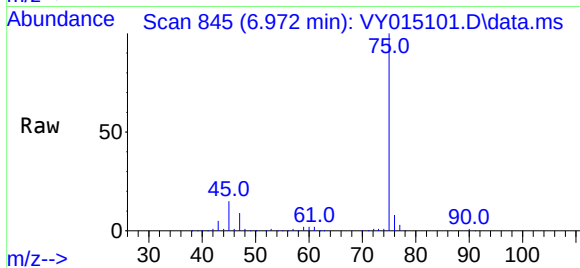
ClientSampleId :

Tgt Ion: 43 Resp: 25621

Ion Ratio Lower Upper

43 100

72 20.5 20.5 30.7



#26

2,2-Dichloropropane

Concen: 7.132 ug/l

RT: 6.972 min Scan# 845

Delta R.T. 0.000 min

Lab File: VY015101.D

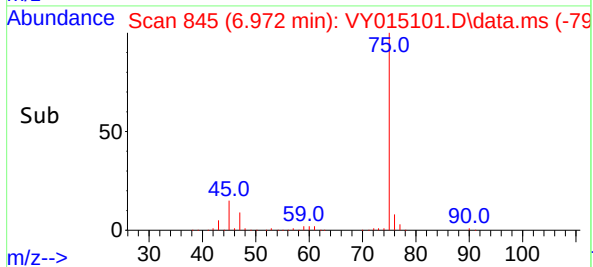
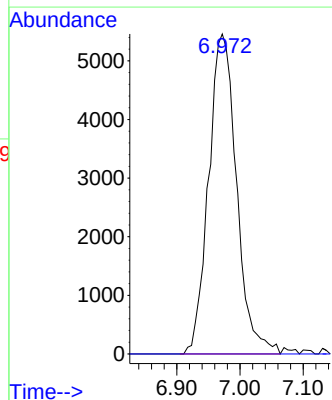
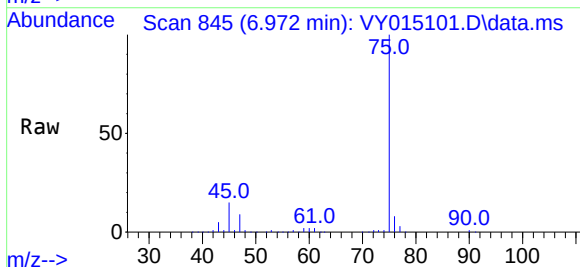
Acq: 15 Aug 2023 14:20

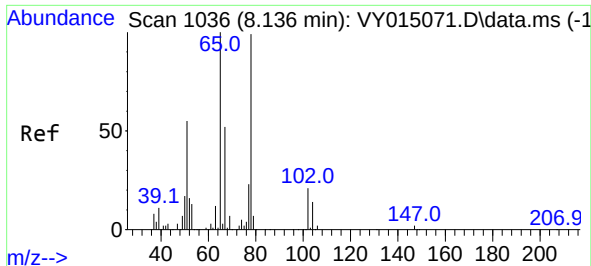
Tgt Ion: 77 Resp: 16750

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 51.071 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015101.D

Acq: 15 Aug 2023 14:20

Instrument :

MSVOA_Y

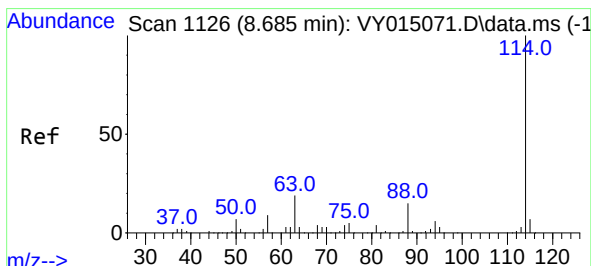
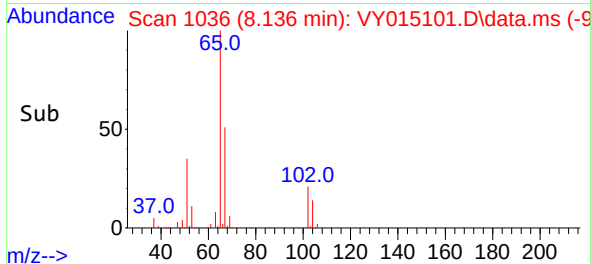
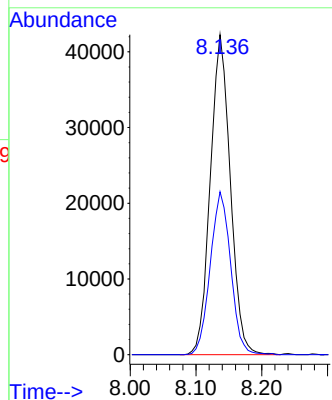
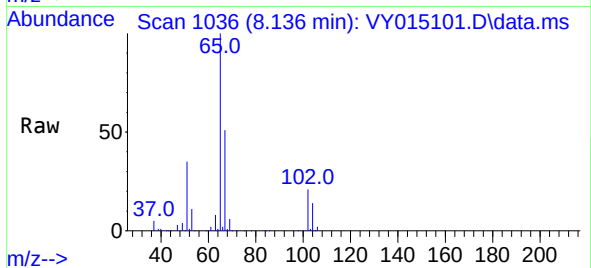
ClientSampleId :

Tgt Ion: 65 Resp: 89612

Ion Ratio Lower Upper

65 100

67 51.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY015101.D

Acq: 15 Aug 2023 14:20

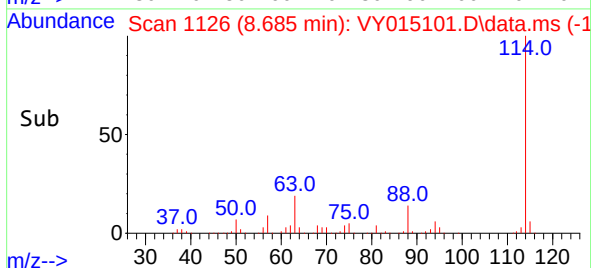
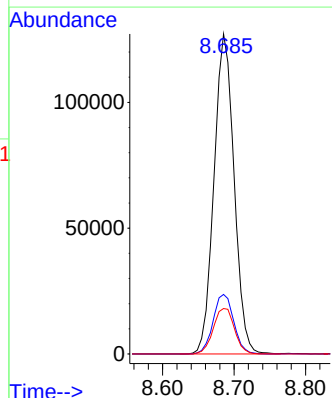
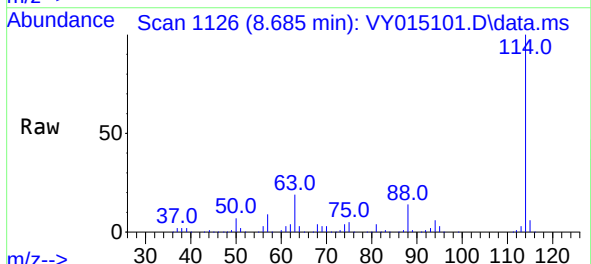
Tgt Ion: 114 Resp: 248024

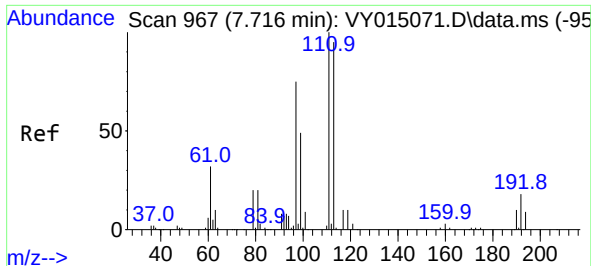
Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.4

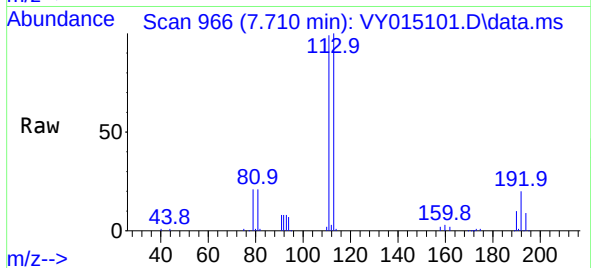
88 14.2 0.0 30.6



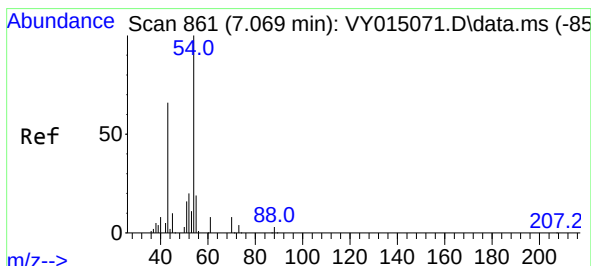
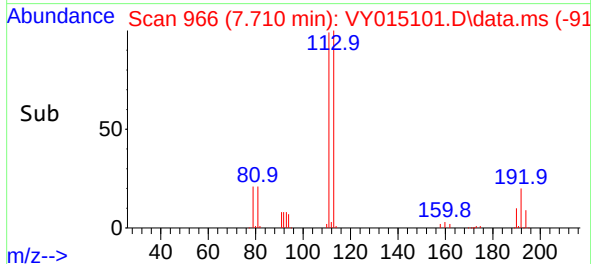
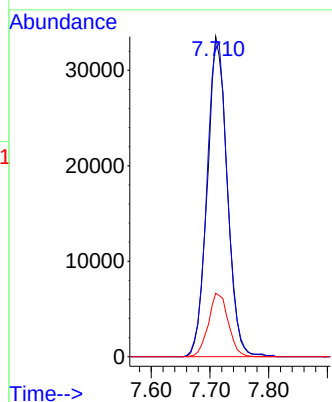


#35
Dibromofluoromethane
Concen: 49.384 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Instrument :
MSVOA_Y
ClientSampleId :

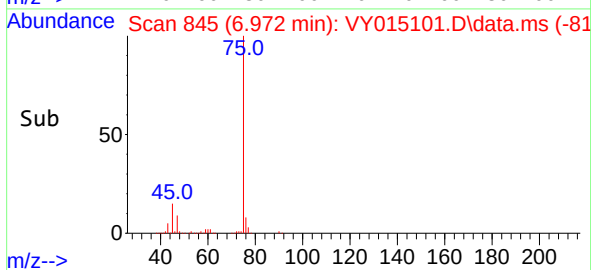
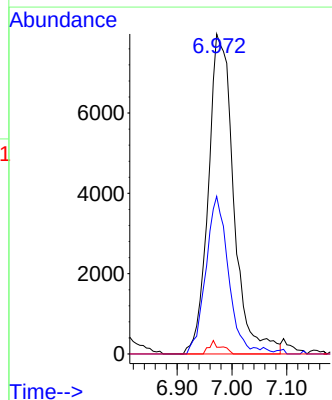
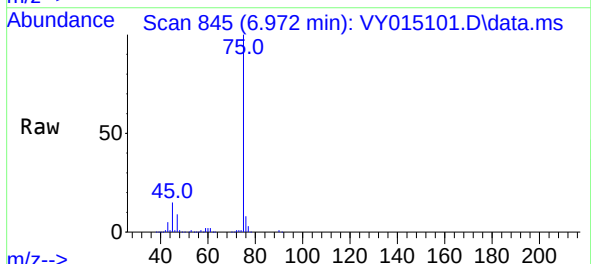


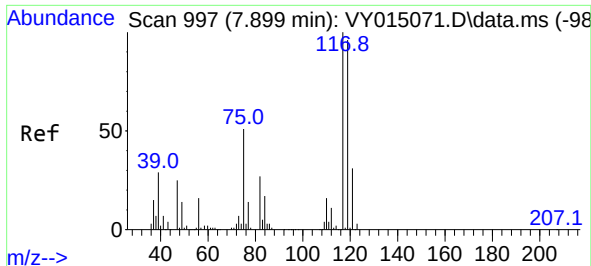
Tgt Ion:113 Resp: 78799
Ion Ratio Lower Upper
113 100
111 101.9 81.3 121.9
192 19.8 16.9 25.3



#37
Ethyl Acetate
Concen: 15.571 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.097 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

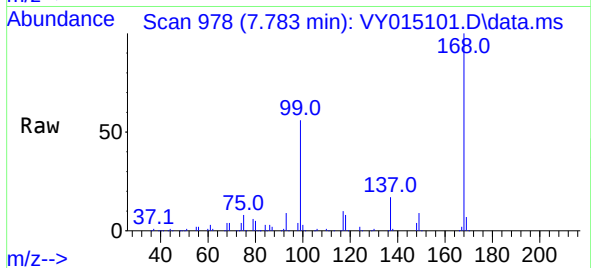
Tgt Ion: 43 Resp: 25621
Ion Ratio Lower Upper
43 100
61 43.6 10.1 15.1#
70 2.0 7.1 10.7#



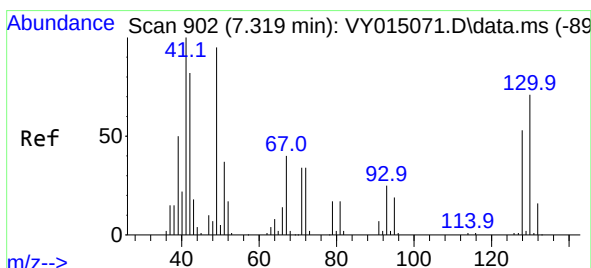
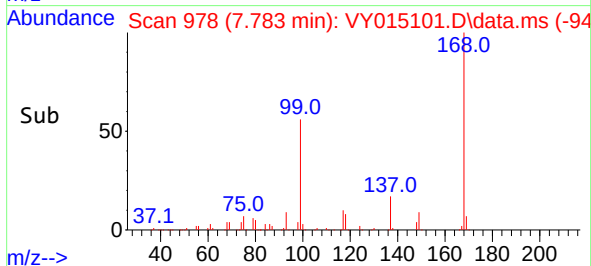
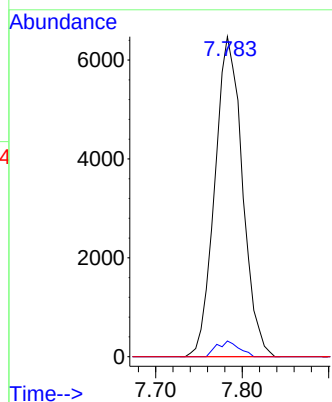


#38
Carbon Tetrachloride
Concen: 6.851 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Instrument :
MSVOA_Y
ClientSampleId :

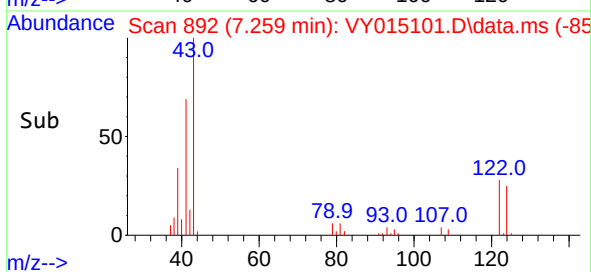
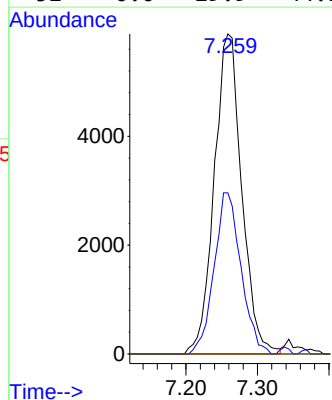
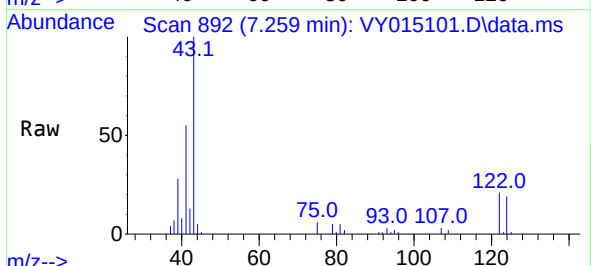


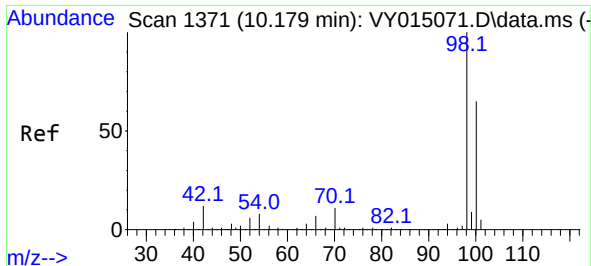
Tgt Ion:117 Resp: 14314
Ion Ratio Lower Upper
117 100
119 4.9 76.4 114.6#
121 0.0 25.8 38.6#



#41
Methacrylonitrile
Concen: 18.516 ug/l
RT: 7.259 min Scan# 892
Delta R.T. -0.049 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 41 Resp: 15710
Ion Ratio Lower Upper
41 100
39 49.3 52.1 78.1#
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#

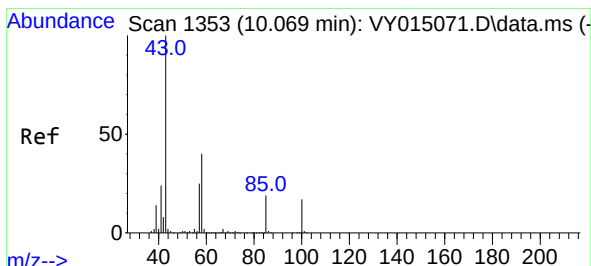
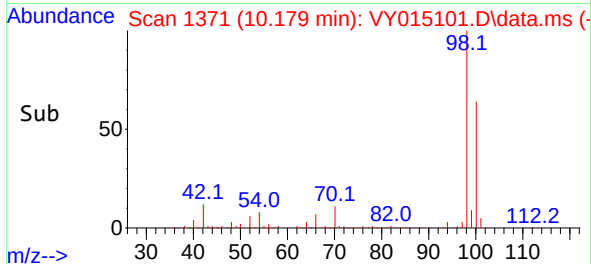
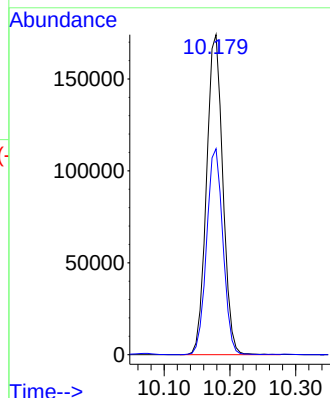
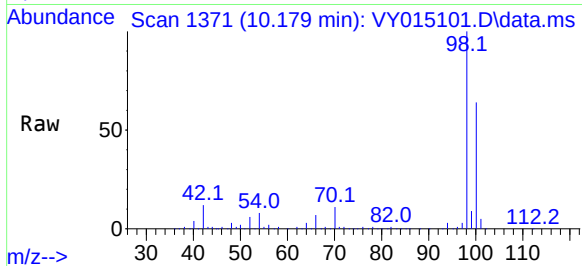




#50
Toluene-d8
Concen: 50.510 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

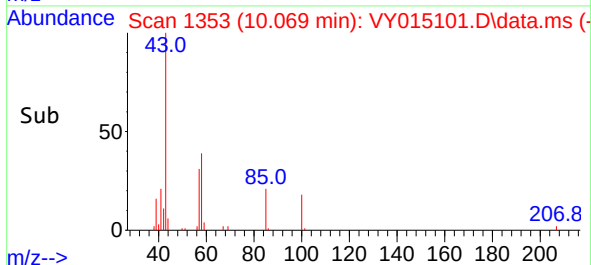
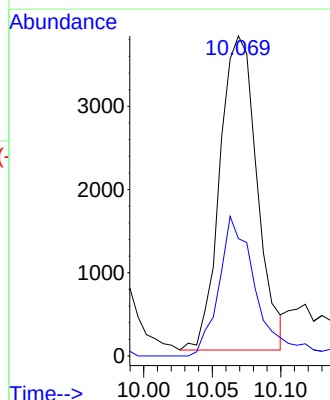
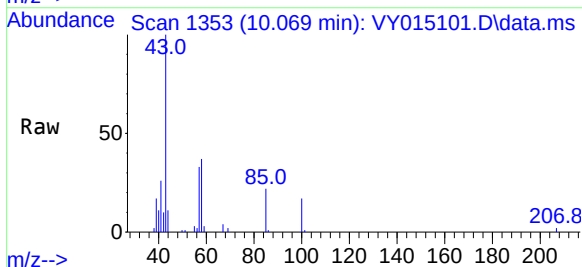
Instrument :
MSVOA_Y
ClientSampleId :

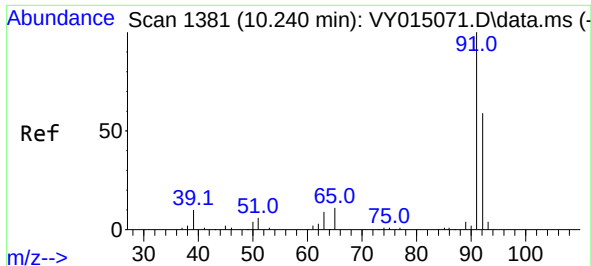
Tgt Ion: 98 Resp: 300019
Ion Ratio Lower Upper
98 100
100 64.5 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 4.098 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 43 Resp: 7117
Ion Ratio Lower Upper
43 100
58 44.3 29.0 43.6#

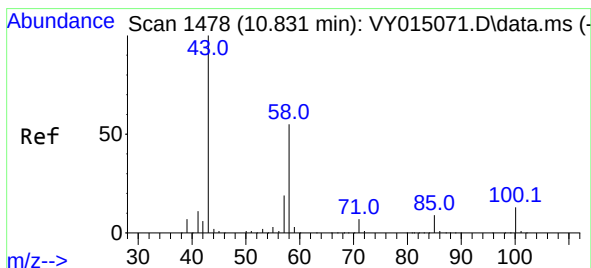
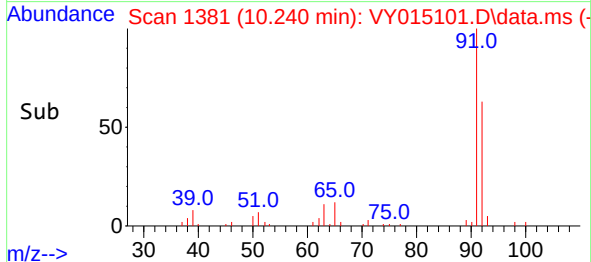
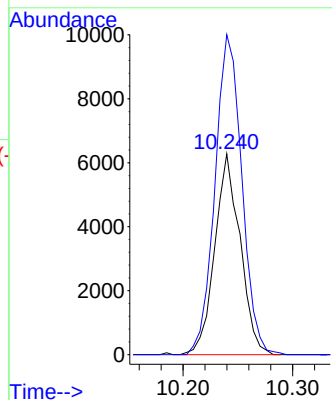
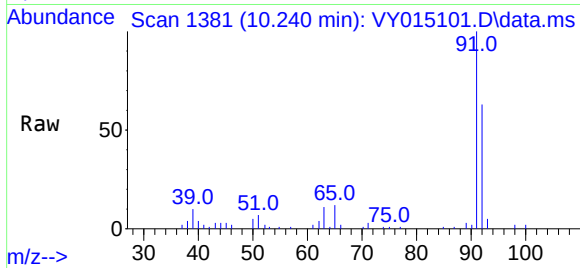




#52
Toluene
Concen: 2.871 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

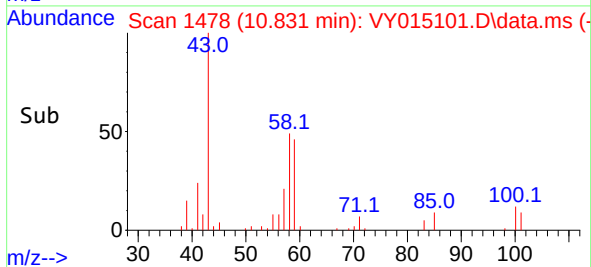
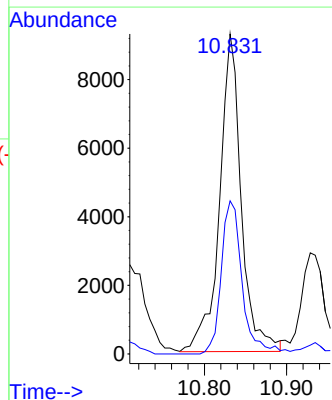
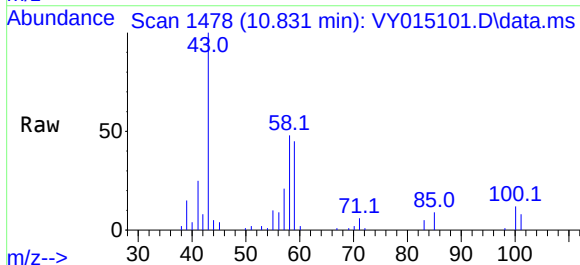
Instrument :
MSVOA_Y
ClientSampleId :

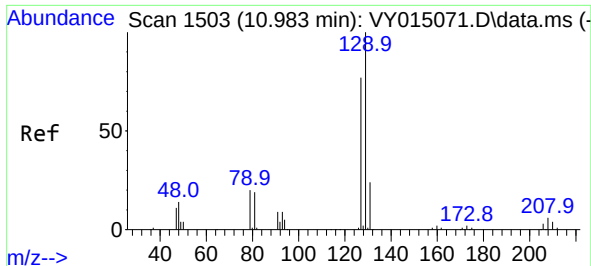
Tgt Ion: 92 Resp: 10101
Ion Ratio Lower Upper
92 100
91 168.9 143.8 215.6



#59
2-Hexanone
Concen: 13.266 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

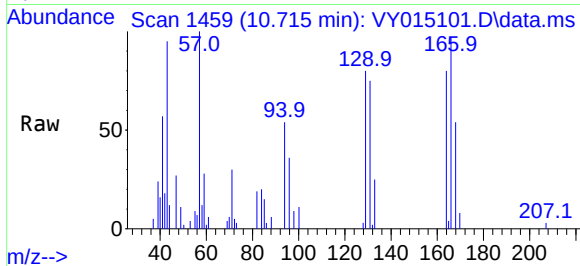
Tgt Ion: 43 Resp: 17050
Ion Ratio Lower Upper
43 100
58 46.4 25.1 75.3



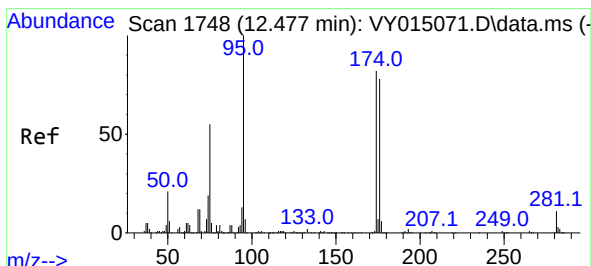
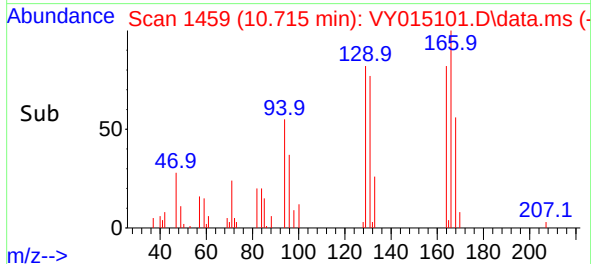
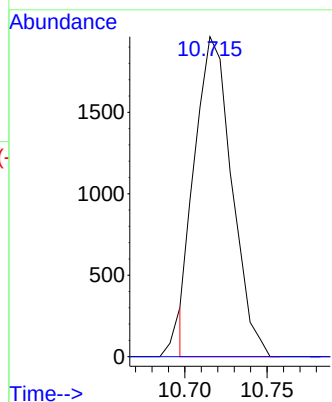


#60
Dibromochloromethane
Concen: 1.788 ug/l
RT: 10.715 min Scan# 1459
Delta R.T. -0.268 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Instrument :
MSVOA_Y
ClientSampleId :

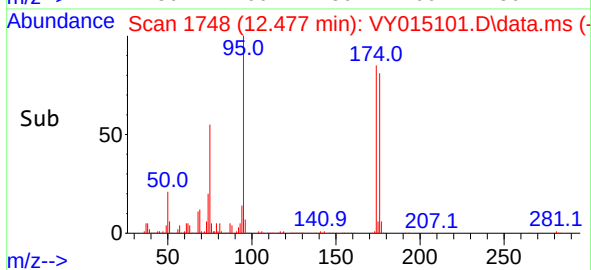
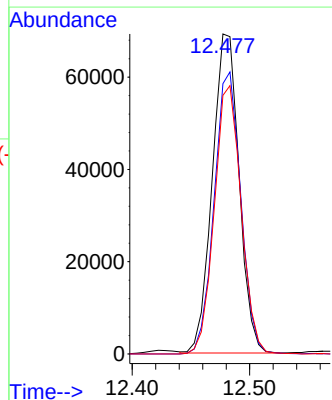
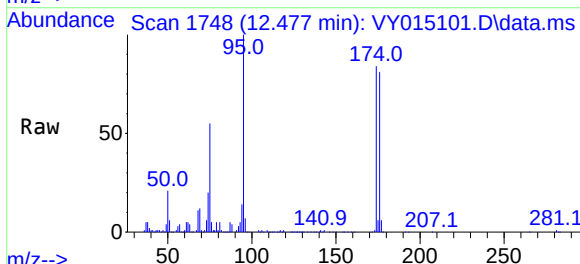


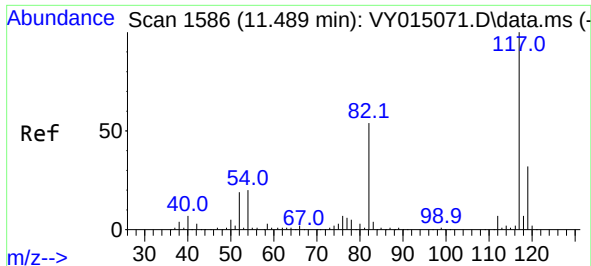
Tgt Ion:129 Resp: 3079
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 50.413 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 95 Resp: 109371
Ion Ratio Lower Upper
95 100
174 88.0 0.0 178.2
176 84.3 0.0 173.8

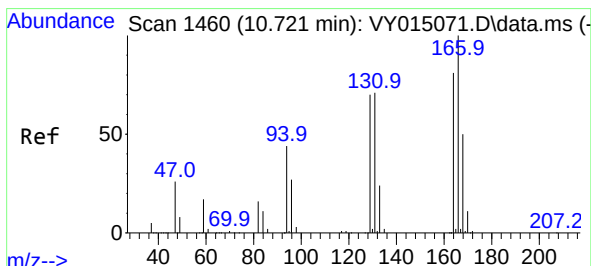
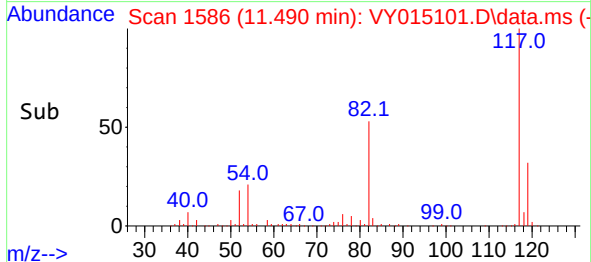
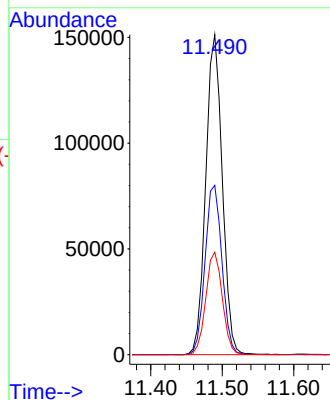
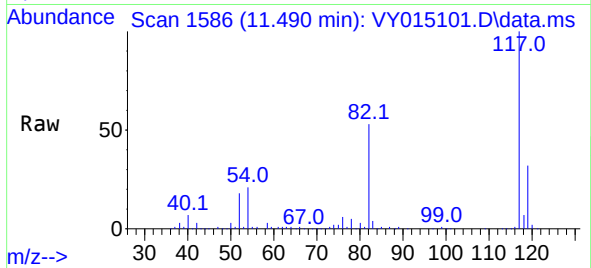




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

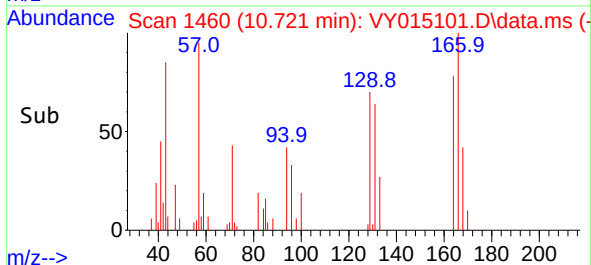
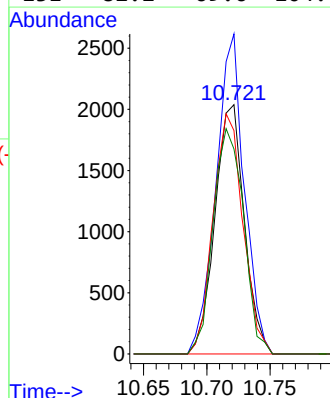
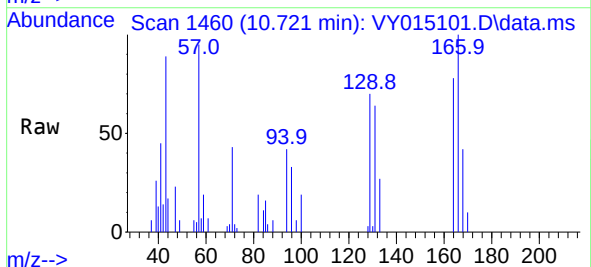
Instrument :
MSVOA_Y
ClientSampleId :

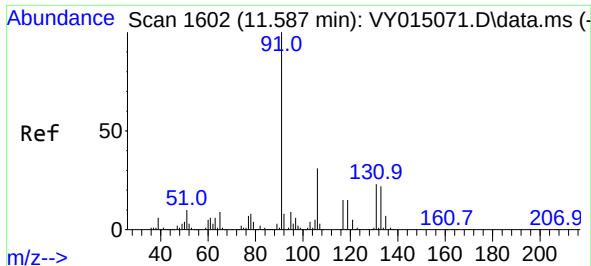
Tgt Ion:117 Resp: 242907
Ion Ratio Lower Upper
117 100
82 52.9 43.4 65.0
119 32.0 26.3 39.5



#64
Tetrachloroethene
Concen: 1.943 ug/l
RT: 10.721 min Scan# 1460
Delta R.T. 0.006 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

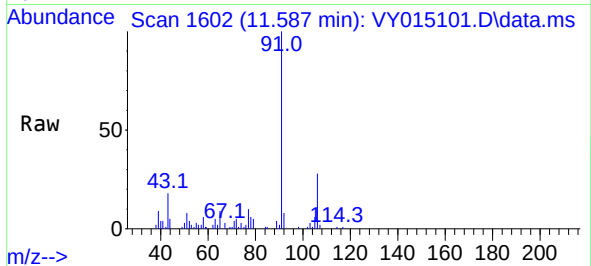
Tgt Ion:164 Resp: 3289
Ion Ratio Lower Upper
164 100
166 128.4 103.0 154.6
129 89.6 77.2 115.8
131 82.2 69.6 104.4



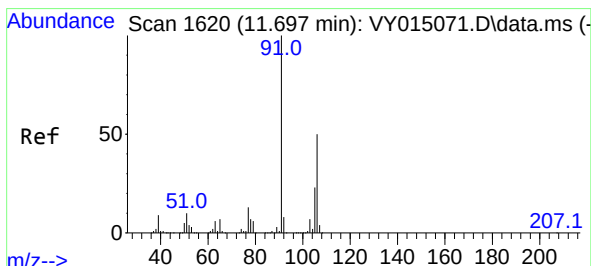
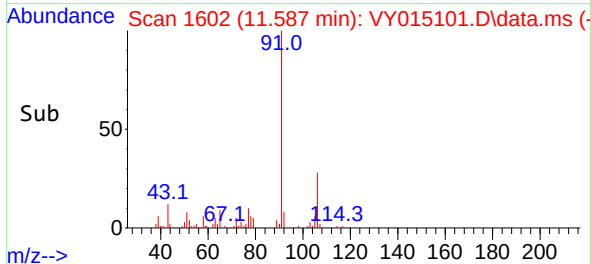
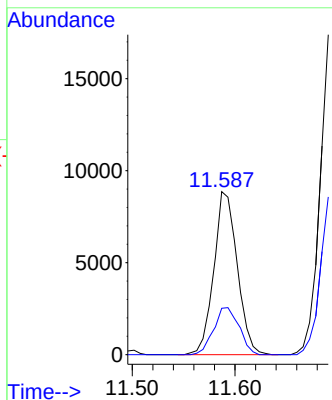


#67
Ethyl Benzene
Concen: 1.806 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Instrument :
MSVOA_Y
ClientSampleId :

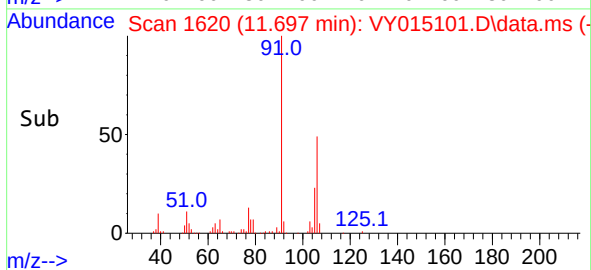
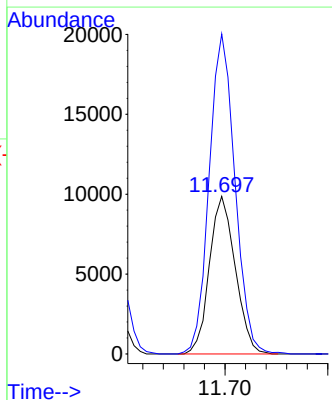
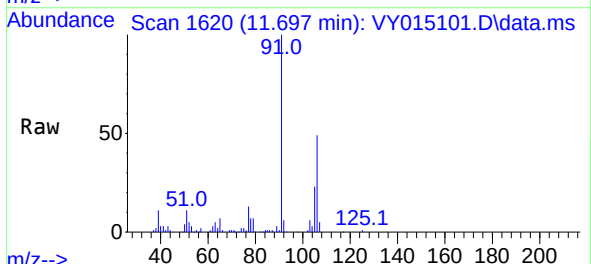


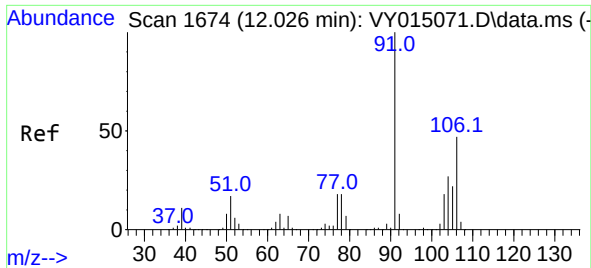
Tgt Ion: 91 Resp: 14003
Ion Ratio Lower Upper
91 100
106 28.5 24.6 36.8



#68
m/p-Xylenes
Concen: 5.853 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 106 Resp: 17239
Ion Ratio Lower Upper
106 100
91 202.4 166.1 249.1

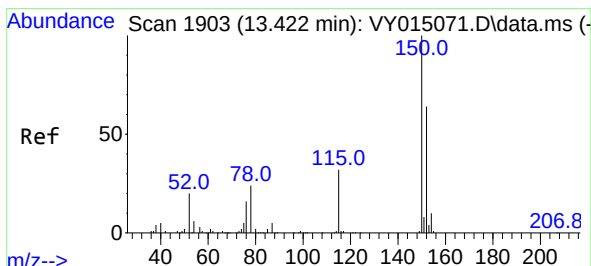
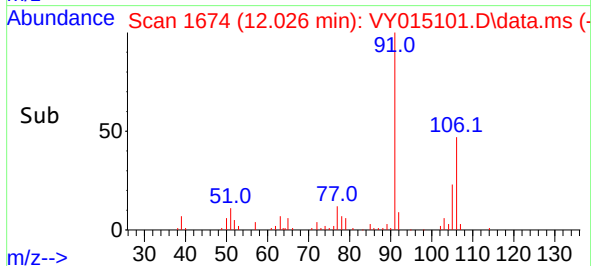
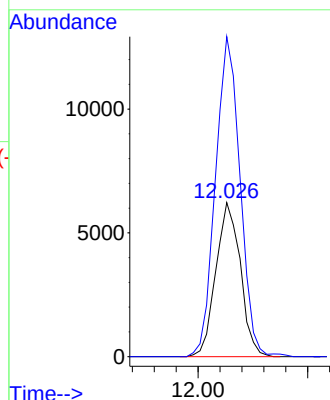
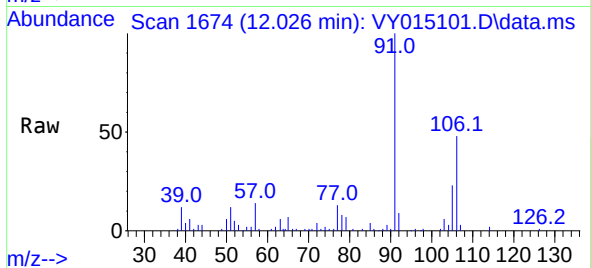




#69
o-Xylene
Concen: 3.296 ug/l
RT: 12.026 min Scan# 106
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

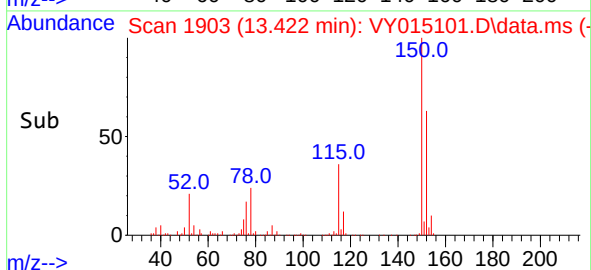
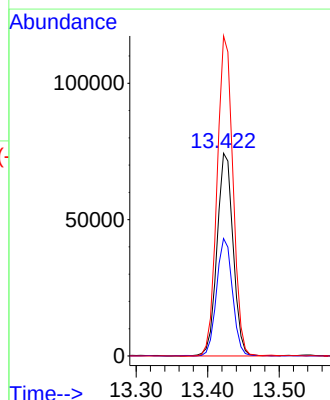
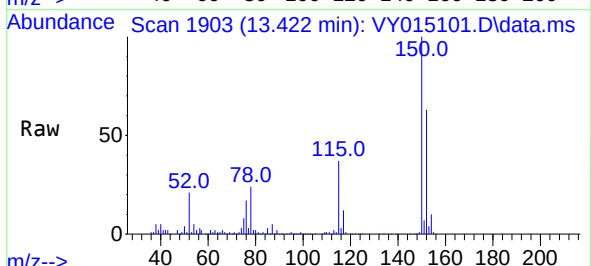
Instrument :
MSVOA_Y
ClientSampleId :

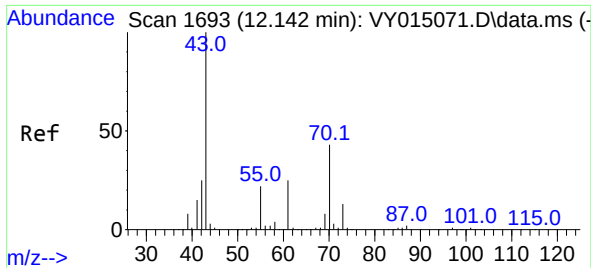
Tgt Ion:106 Resp: 9669
Ion Ratio Lower Upper
106 100
91 208.8 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion:152 Resp: 116332
Ion Ratio Lower Upper
152 100
115 57.4 28.8 86.5
150 155.5 0.0 348.8

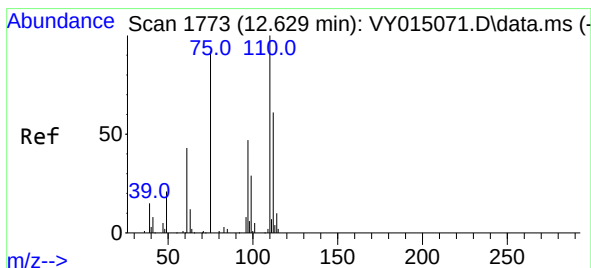
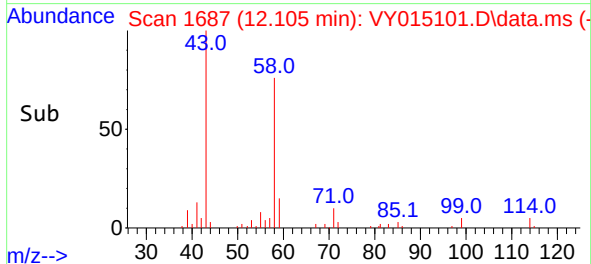
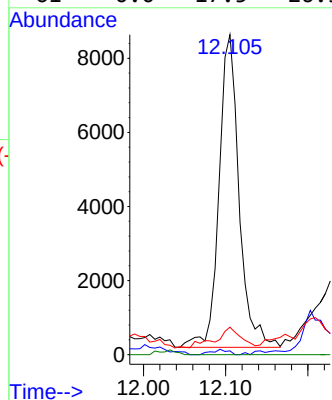
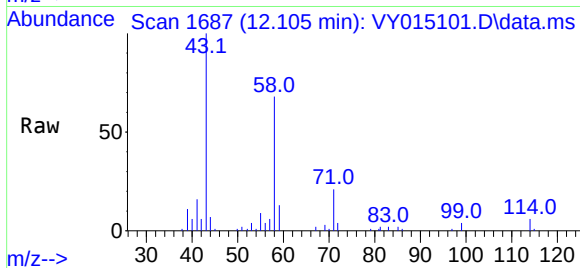




#74
N-amy1 acetate
Concen: 5.306 ug/l
RT: 12.105 min Scan# 1
Delta R.T. -0.036 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

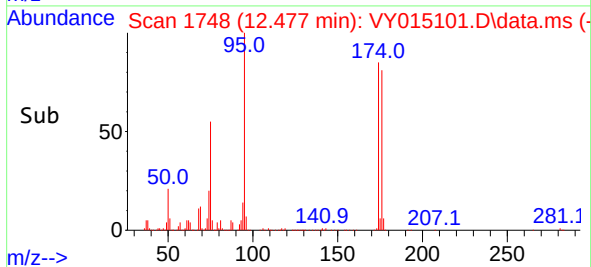
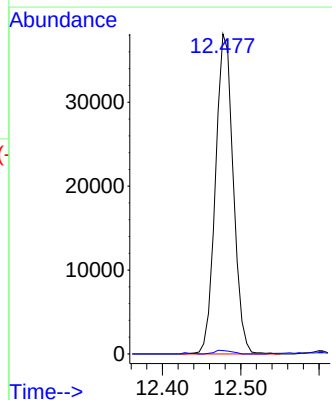
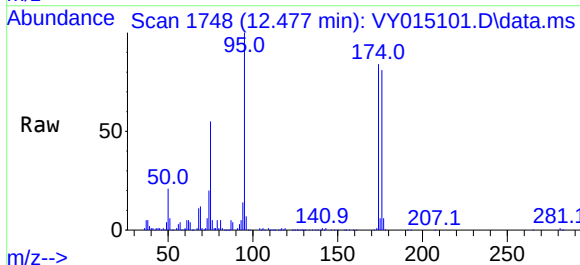
Instrument :
MSVOA_Y
ClientSampleId :

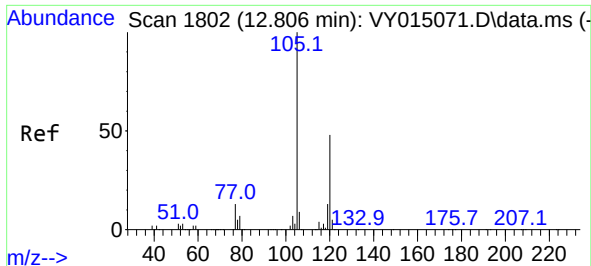
Tgt Ion:	43	Resp:	14332
Ion	Ratio	Lower	Upper
43	100		
70	1.4	29.7	44.5#
55	7.6	18.3	27.5#
61	0.0	17.5	26.3#



#76
1,2,3-Trichloropropane
Concen: 42.540 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion:	75	Resp:	60124
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#

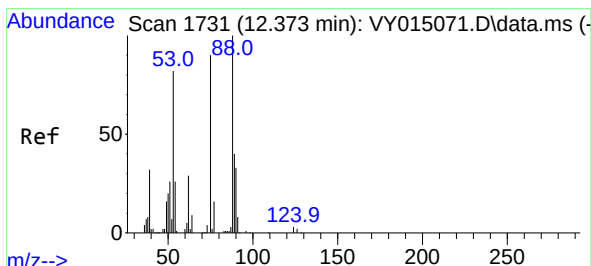
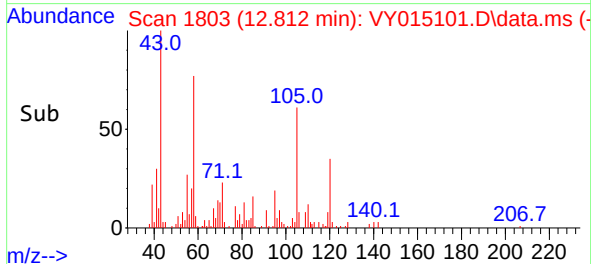
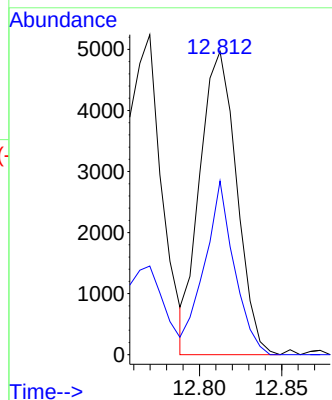
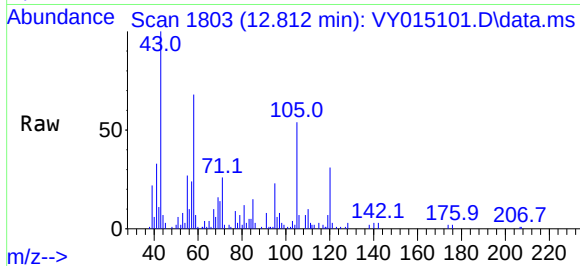




#80
1,3,5-Trimethylbenzene
Concen: 1.239 ug/l
RT: 12.812 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

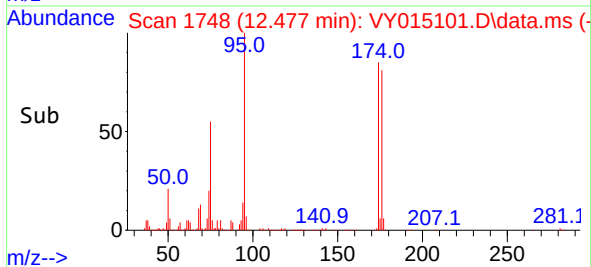
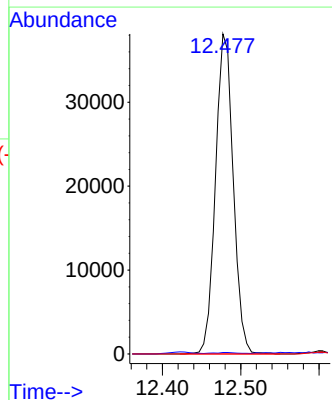
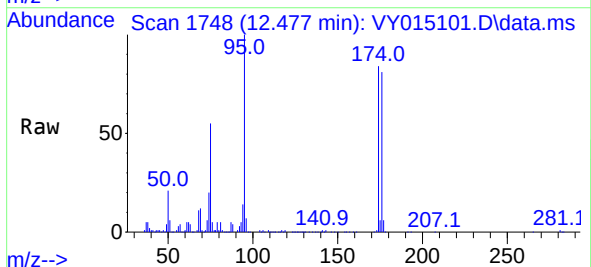
Instrument :
MSVOA_Y
ClientSampleId :

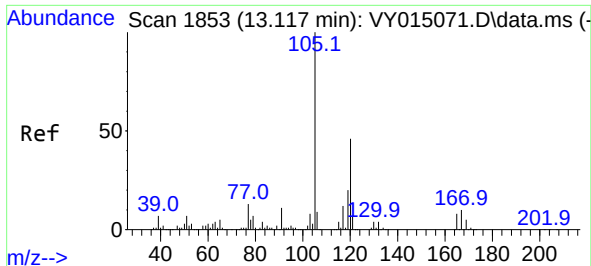
Tgt Ion:105 Resp: 7726
Ion Ratio Lower Upper
105 100
120 46.4 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 93.439 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.104 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

Tgt Ion: 75 Resp: 60124
Ion Ratio Lower Upper
75 100
53 0.4 77.8 116.8#
89 0.0 37.4 56.0#

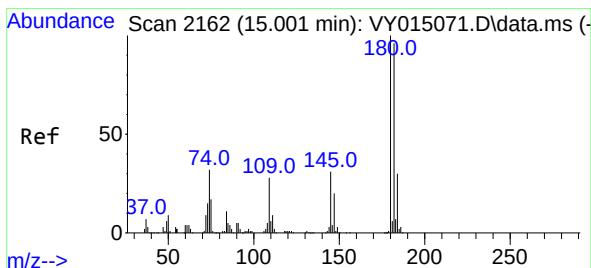
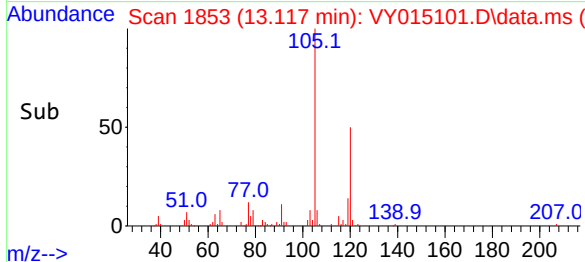
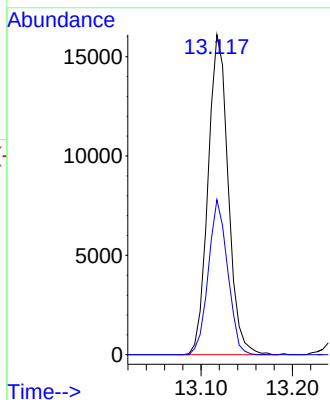
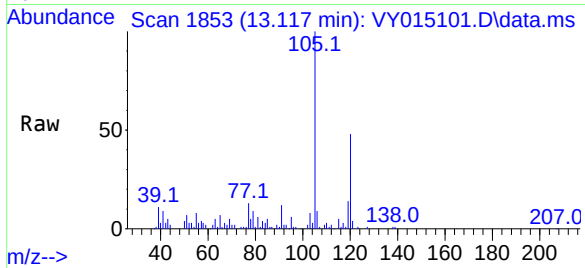




#84
1,2,4-Trimethylbenzene
Concen: 3.949 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

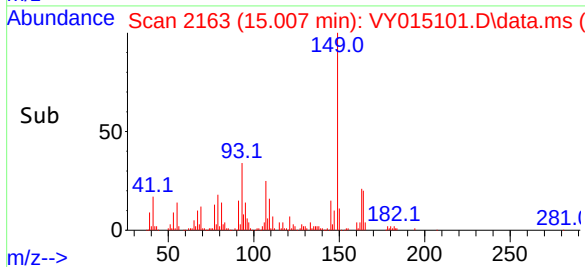
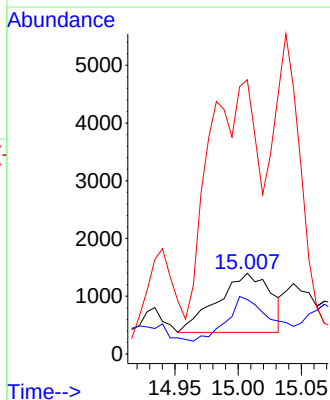
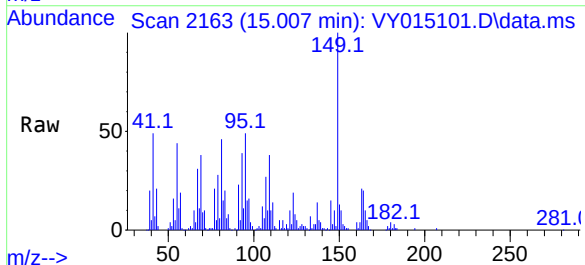
Instrument :
MSVOA_Y
ClientSampleId :

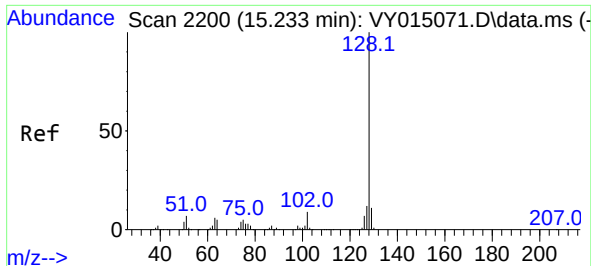
Tgt Ion:105 Resp: 24604
Ion Ratio Lower Upper
105 100
120 46.3 22.2 66.6



#93
1,2,4-Trichlorobenzene
Concen: 1.380 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

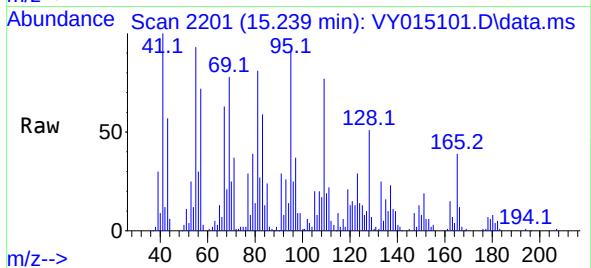
Tgt Ion:180 Resp: 2993
Ion Ratio Lower Upper
180 100
182 61.6 47.0 141.2
145 434.4 14.5 43.5#



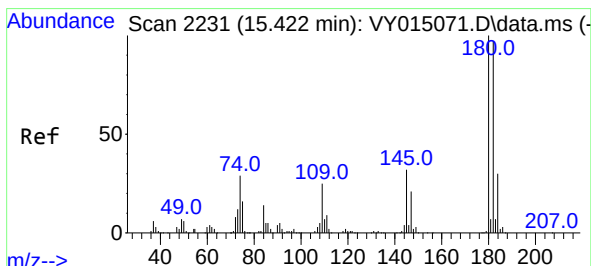
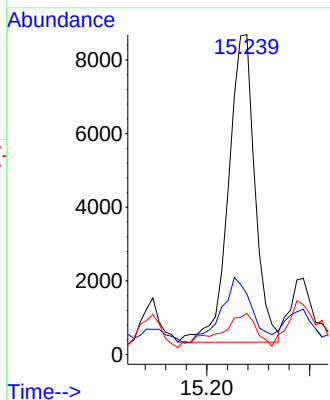
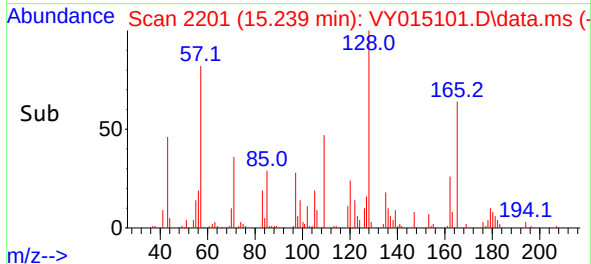


#95
Naphthalene
Concen: 2.759 ug/l
RT: 15.239 min Scan# 2198
Delta R.T. 0.006 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20

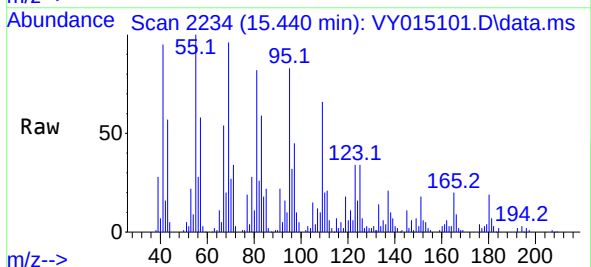
Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 14908
Ion Ratio Lower Upper
128 100
127 24.7 10.8 16.2#
129 15.5 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 1.843 ug/l
RT: 15.440 min Scan# 2234
Delta R.T. 0.018 min
Lab File: VY015101.D
Acq: 15 Aug 2023 14:20



Tgt Ion:180 Resp: 3610
Ion Ratio Lower Upper
180 100
182 0.0 47.3 141.8#
145 0.0 15.4 46.2#

