

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080223\
 Data File : VY014936.D
 Acq On : 02 Aug 2023 17:16
 Operator : SY/MD
 Sample : 03862-08
 Misc : 7.25g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 BUILDING-B-1-(0-5)

Quant Time: Aug 03 02:45:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 14 02:09:50 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.783	168	249750	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	428457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	384579	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	169965	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	148364	52.131	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.260%	
35) Dibromofluoromethane	7.710	113	121185	44.432	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 88.860%	
50) Toluene-d8	10.173	98	505354	50.256	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.520%	
62) 4-Bromofluorobenzene	12.477	95	171898	44.583	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 89.160%	

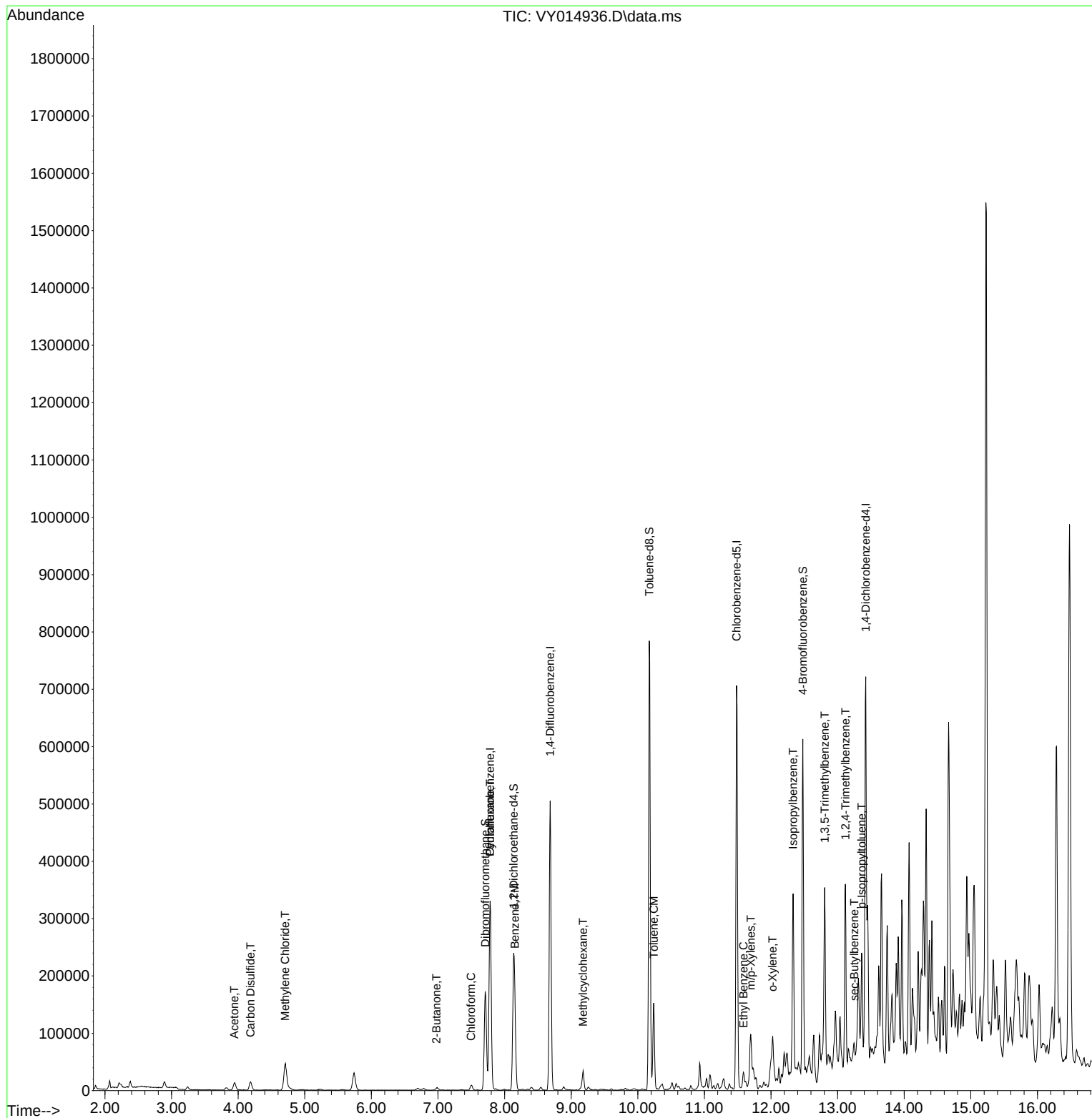
Target Compounds					Qvalue	
16) Acetone	3.942	43	22374	24.809	ug/l	93
17) Carbon Disulfide	4.186	76	28884	4.102	ug/l	97
20) Methylene Chloride	4.704	84	33164	7.751	ug/l	88
25) 2-Butanone	6.978	43	6425	4.870	ug/l	100
30) Chloroform	7.496	83	8158	1.557	ug/l	93
31) Cyclohexane	7.783	56	9523	2.016	ug/l #	27
39) Methylcyclohexane	9.179	83	13281	2.499	ug/l	90
40) Benzene	8.155	78	92386	7.964	ug/l	100
52) Toluene	10.240	92	62467	8.415	ug/l	94
67) Ethyl Benzene	11.587	91	17321	1.171	ug/l	100
68) m/p-Xylenes	11.697	106	27916	4.942	ug/l	92
69) o-Xylene	12.026	106	18541	3.370	ug/l	96
73) Isopropylbenzene	12.331	105	18752	1.409	ug/l #	71
80) 1,3,5-Trimethylbenzene	12.806	105	111587	10.040	ug/l	98
84) 1,2,4-Trimethylbenzene	13.117	105	170274	15.611	ug/l	99
85) sec-Butylbenzene	13.251	105	14765	1.021	ug/l #	74
86) p-Isopropyltoluene	13.361	119	91824	7.776	ug/l	99

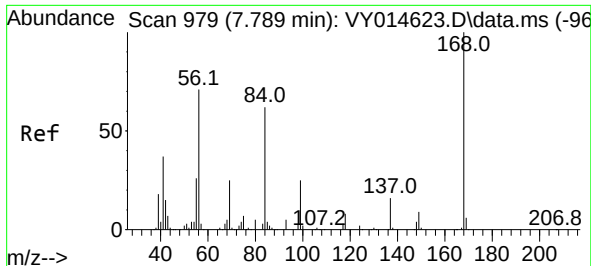
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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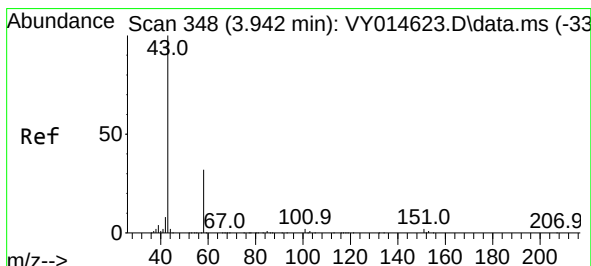
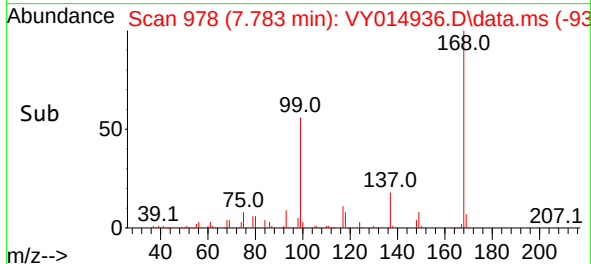
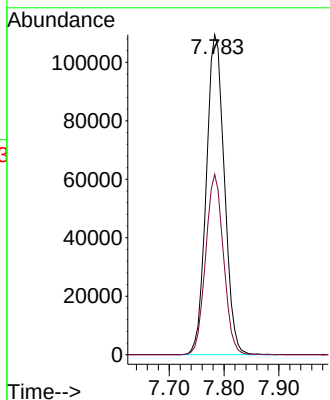
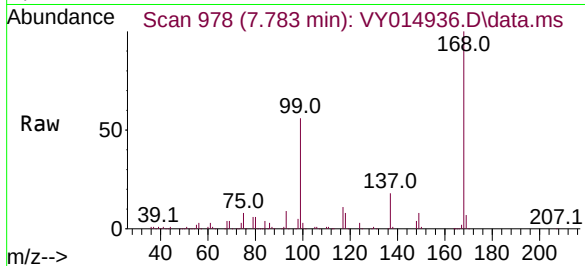




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

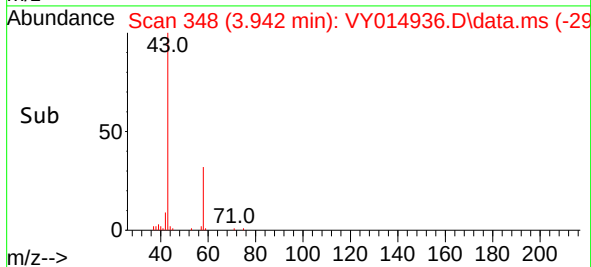
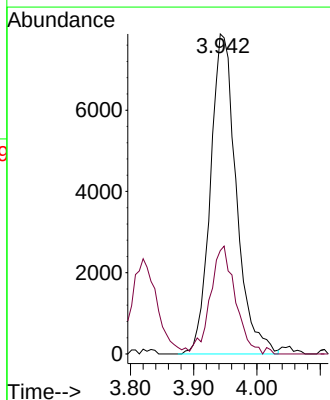
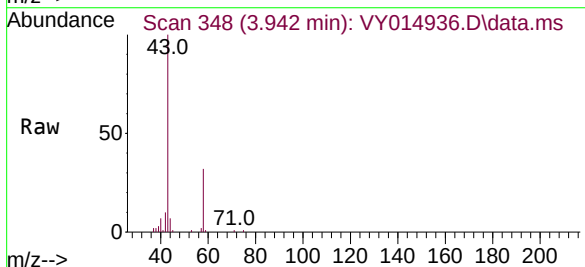
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

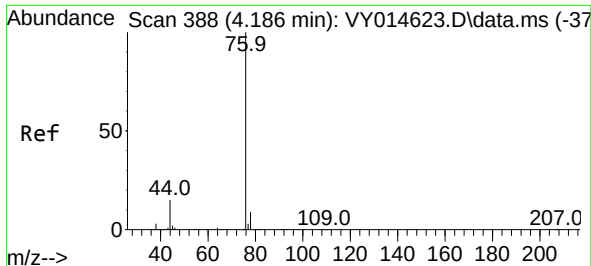
Tgt Ion:168 Resp: 249750
Ion Ratio Lower Upper
168 100
99 56.3 43.4 65.0



#16
Acetone
Concen: 24.809 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 43 Resp: 22374
Ion Ratio Lower Upper
43 100
58 32.3 22.7 34.1

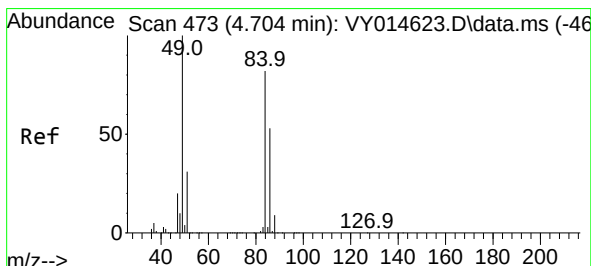
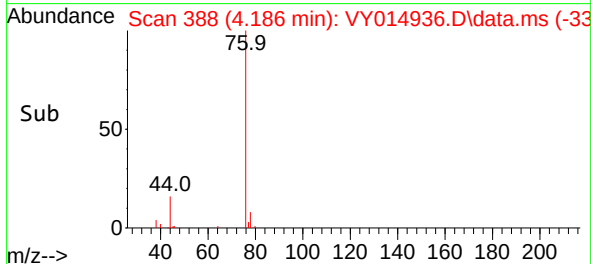
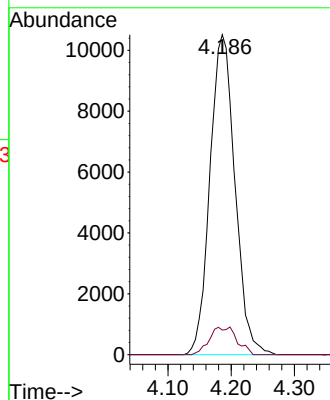
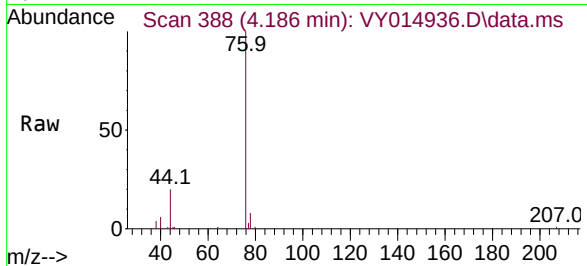




#17
Carbon Disulfide
Concen: 4.102 ug/l
RT: 4.186 min Scan# 388
Delta R.T. -0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

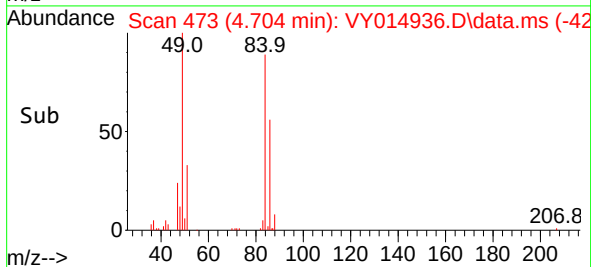
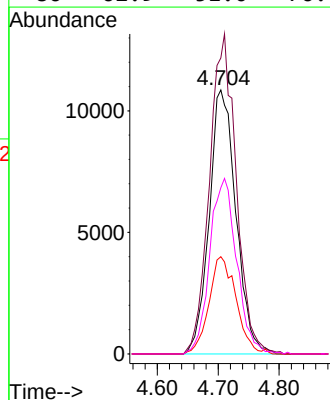
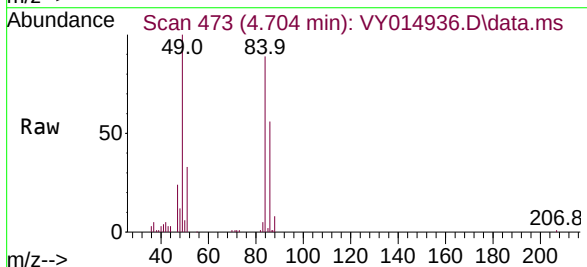
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

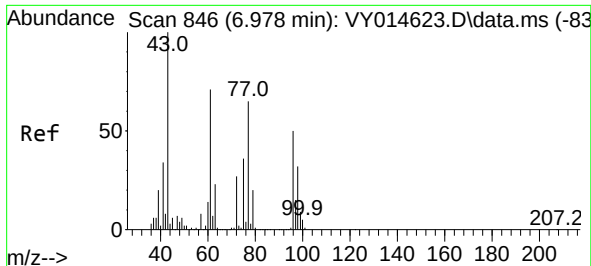
Tgt Ion: 76 Resp: 28884
Ion Ratio Lower Upper
76 100
78 7.7 7.0 10.4



#20
Methylene Chloride
Concen: 7.751 ug/l
RT: 4.704 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 84 Resp: 33164
Ion Ratio Lower Upper
84 100
49 112.1 106.9 160.3
51 36.9 33.2 49.8
86 62.9 51.0 76.6

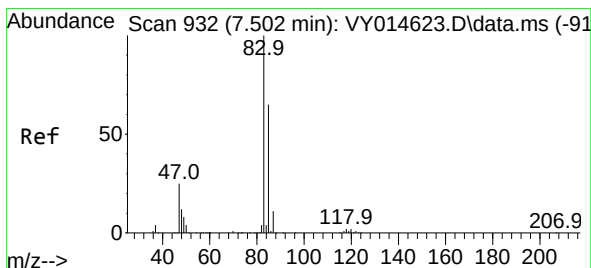
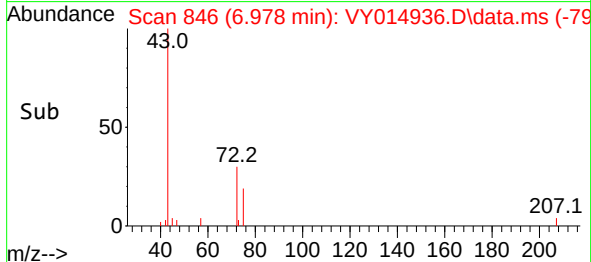
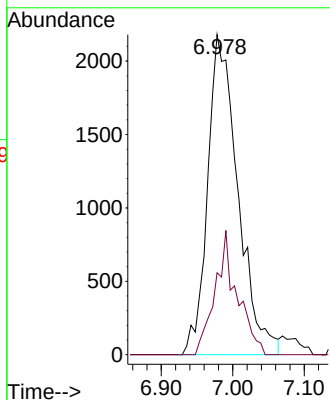
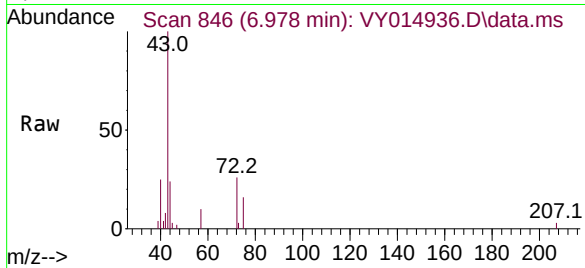




#25
2-Butanone
Concen: 4.870 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

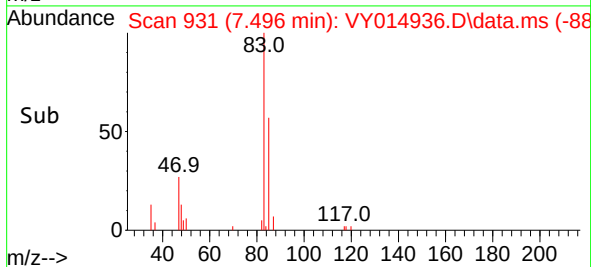
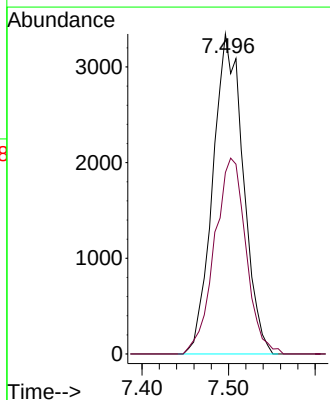
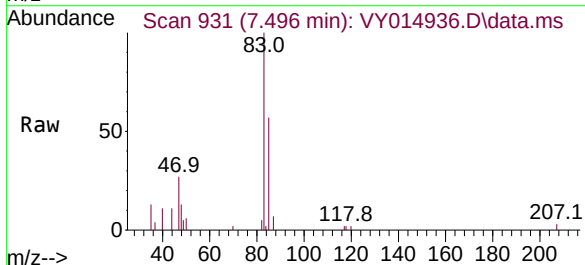
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

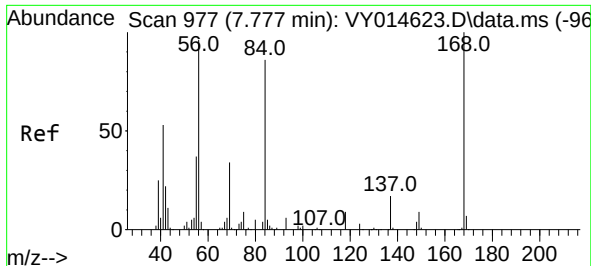
Tgt Ion: 43 Resp: 6425
Ion Ratio Lower Upper
43 100
72 25.6 20.5 30.7



#30
Chloroform
Concen: 1.557 ug/l
RT: 7.496 min Scan# 931
Delta R.T. -0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 83 Resp: 8158
Ion Ratio Lower Upper
83 100
85 56.7 49.7 74.5

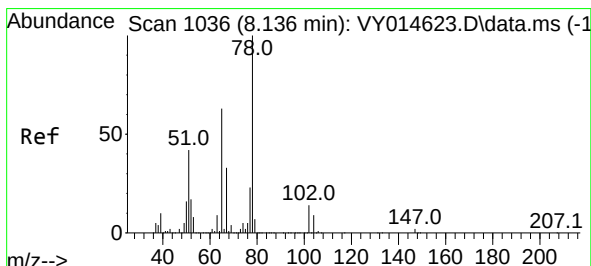
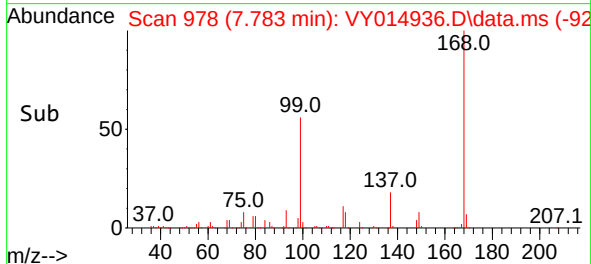
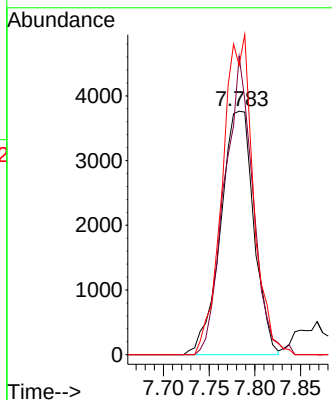
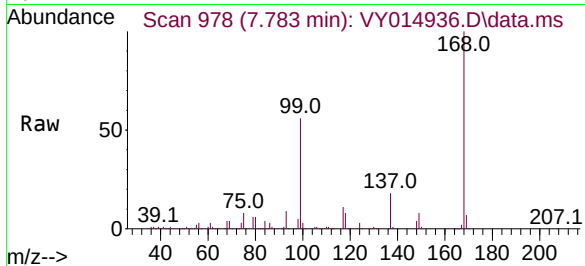




#31
Cyclohexane
Concen: 2.016 ug/l
RT: 7.783 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

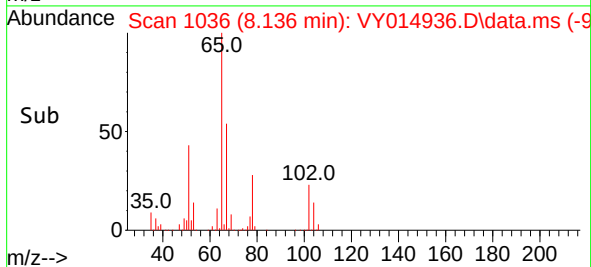
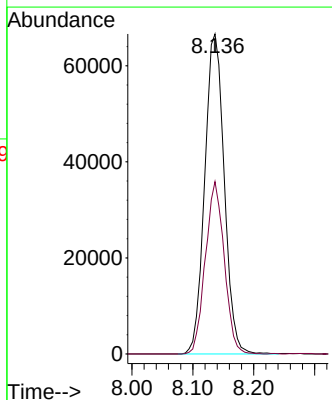
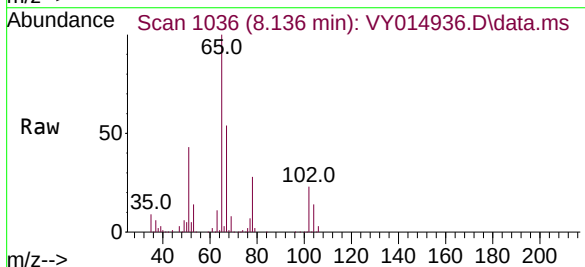
Instrument :
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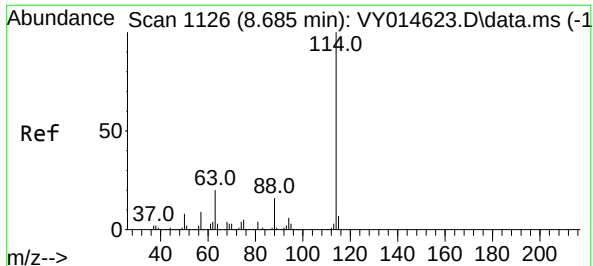
Tgt Ion: 56 Resp: 9523
Ion Ratio Lower Upper
56 100
69 122.6 27.8 41.6#
84 118.9 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 52.131 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 65 Resp: 148364
Ion Ratio Lower Upper
65 100
67 52.0 0.0 101.8

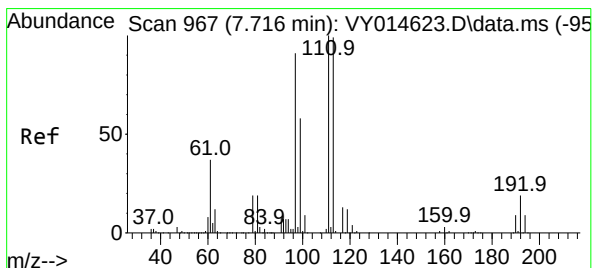
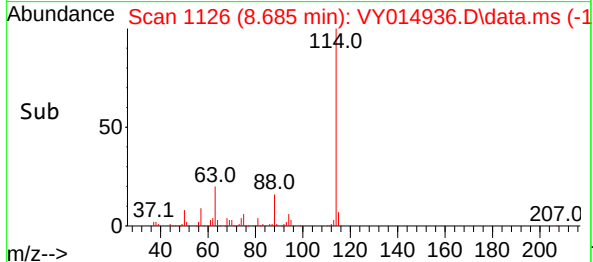
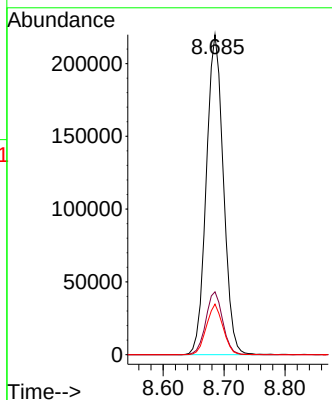
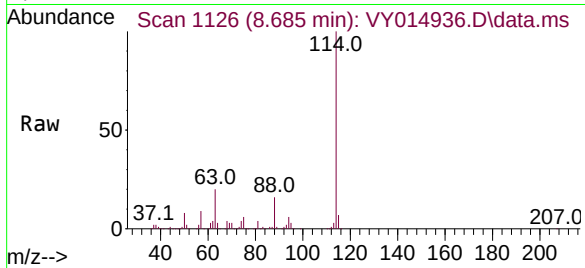




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY014936.D
 Acq: 02 Aug 2023 17:16

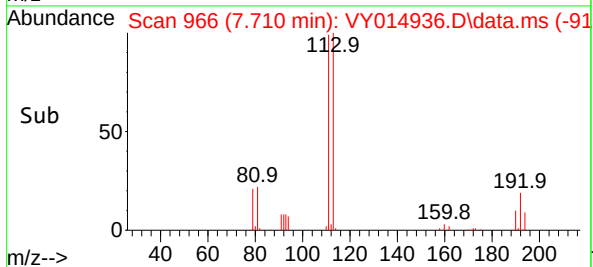
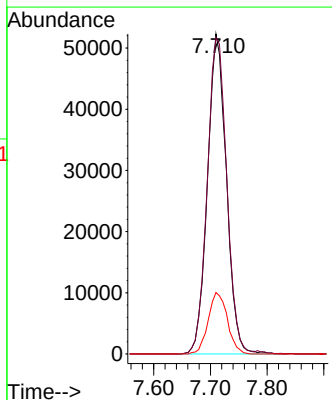
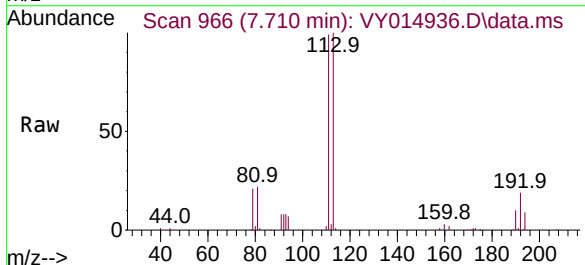
Instrument :
 MSVOA_Y
 ClientSampleId :
 BUILDING-B-1-(0-5)

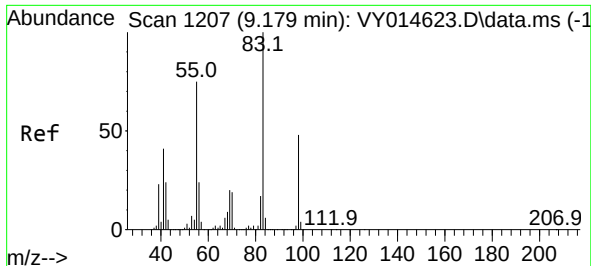
Tgt Ion:	114	Resp:	428457
Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.4
88	15.8	0.0	30.6



#35
 Dibromofluoromethane
 Concen: 44.432 ug/l
 RT: 7.710 min Scan# 966
 Delta R.T. -0.006 min
 Lab File: VY014936.D
 Acq: 02 Aug 2023 17:16

Tgt Ion:	113	Resp:	121185
Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	19.5	16.9	25.3





#39

Methylcyclohexane

Concen: 2.499 ug/l

RT: 9.179 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY014936.D

Acq: 02 Aug 2023 17:16

Instrument :

MSVOA_Y

ClientSampleId :

BUILDING-B-1-(0-5)

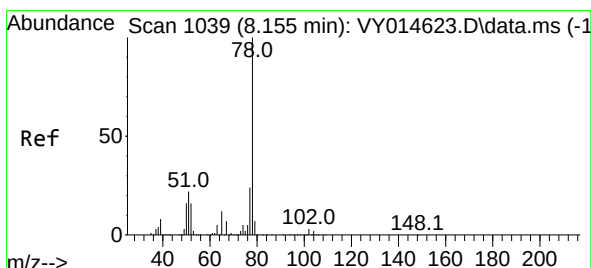
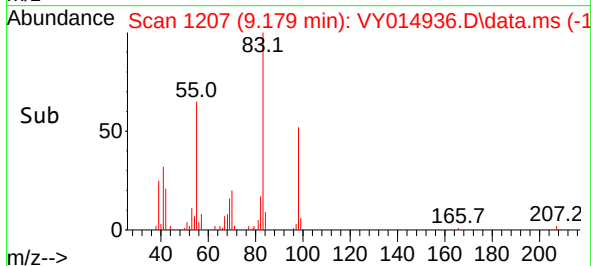
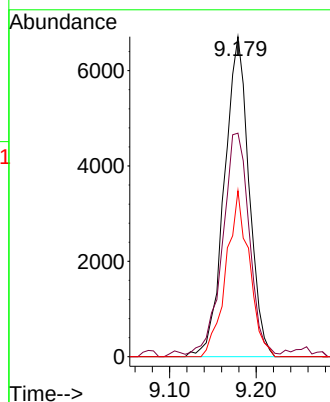
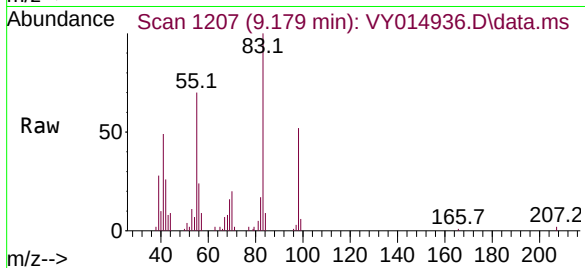
Tgt Ion: 83 Resp: 13281

Ion Ratio Lower Upper

83 100

55 69.0 63.0 94.4

98 51.9 37.4 56.2



#40

Benzene

Concen: 7.964 ug/l

RT: 8.155 min Scan# 1039

Delta R.T. -0.000 min

Lab File: VY014936.D

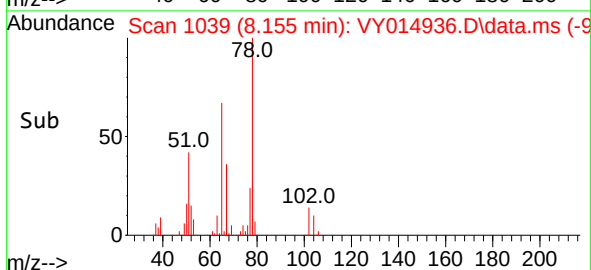
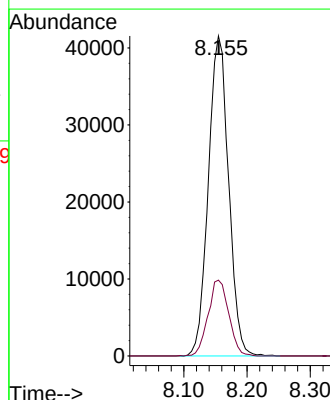
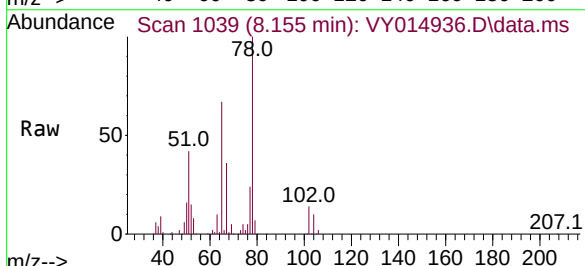
Acq: 02 Aug 2023 17:16

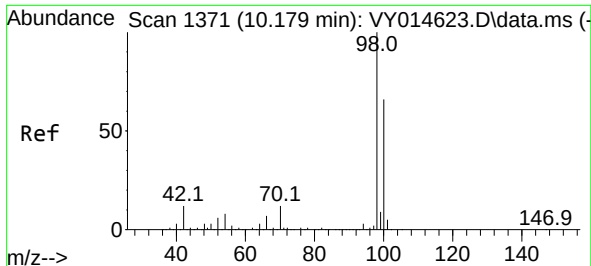
Tgt Ion: 78 Resp: 92386

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6

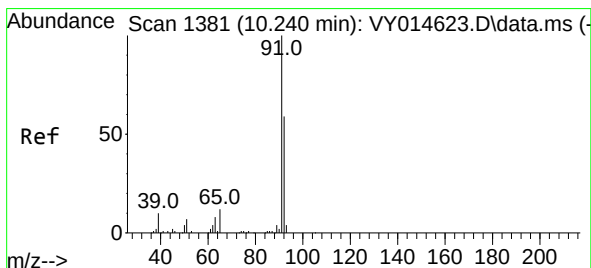
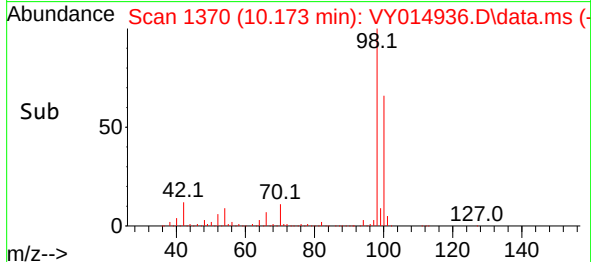
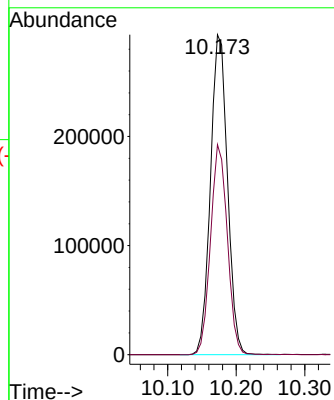
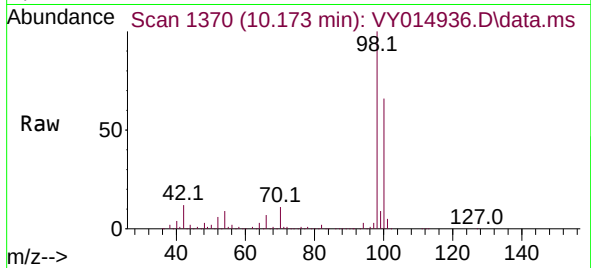




#50
Toluene-d8
Concen: 50.256 ug/l
RT: 10.173 min Scan# 1371
Delta R.T. -0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

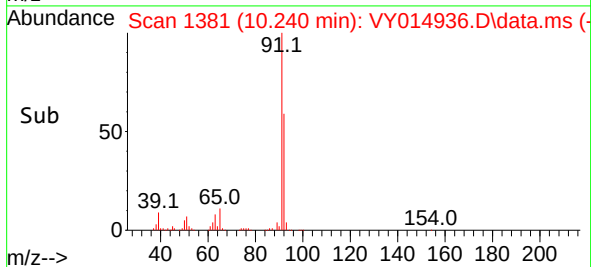
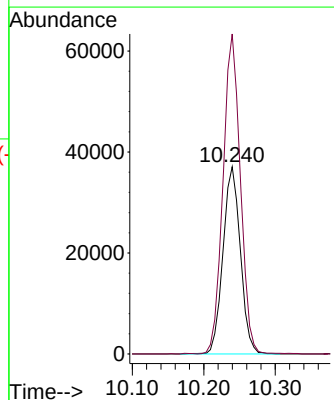
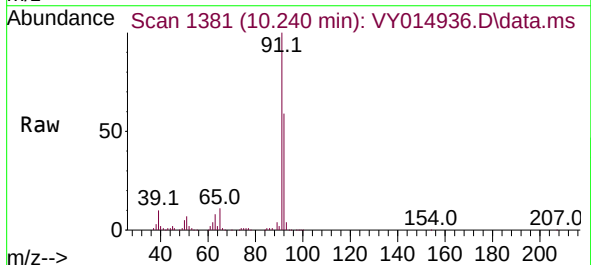
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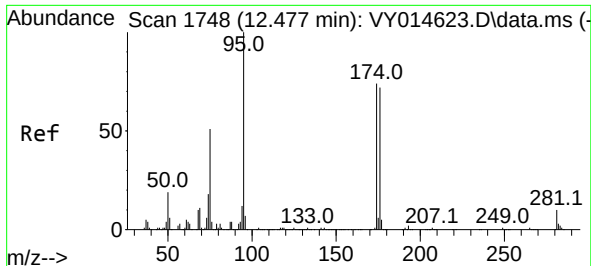
Tgt Ion: 98 Resp: 505354
Ion Ratio Lower Upper
98 100
100 64.8 50.1 75.1



#52
Toluene
Concen: 8.415 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 92 Resp: 62467
Ion Ratio Lower Upper
92 100
91 171.3 143.8 215.6

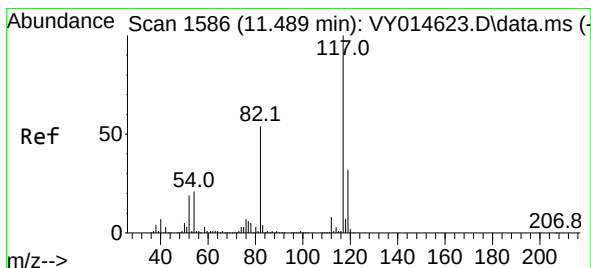
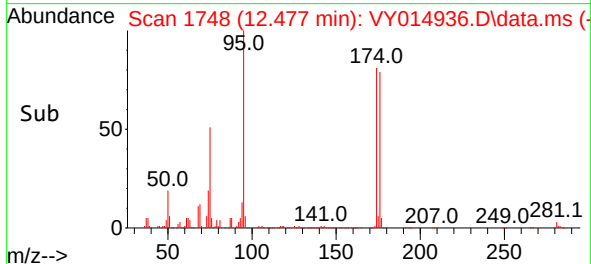
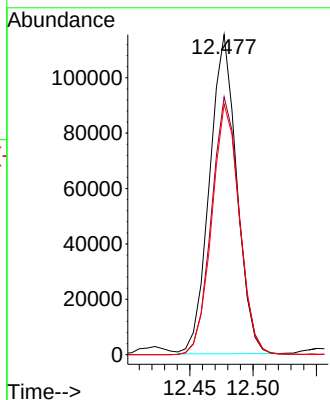
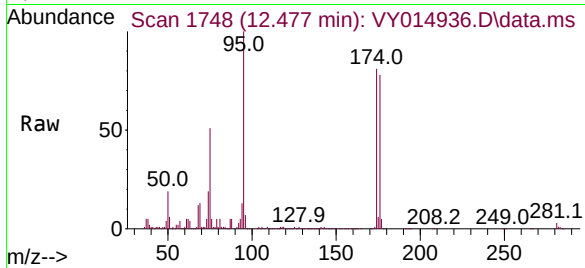




#62
4-Bromofluorobenzene
Concen: 44.583 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

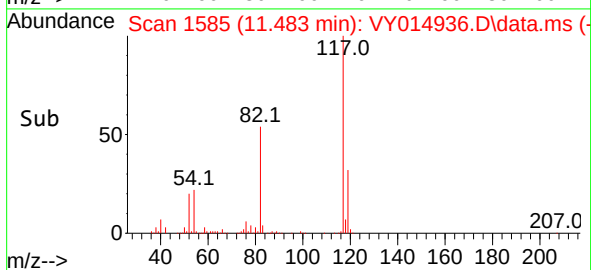
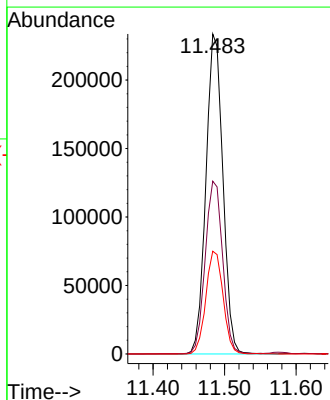
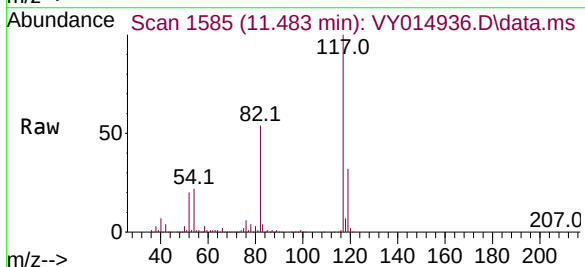
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

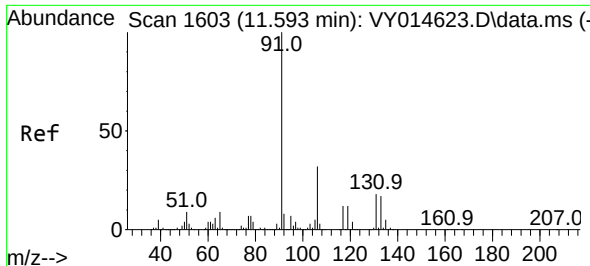
Tgt Ion: 95 Resp: 171898
Ion Ratio Lower Upper
95 100
174 82.4 0.0 178.2
176 80.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 1585
Delta R.T. -0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 117 Resp: 384579
Ion Ratio Lower Upper
117 100
82 53.9 43.4 65.0
119 32.1 26.3 39.5

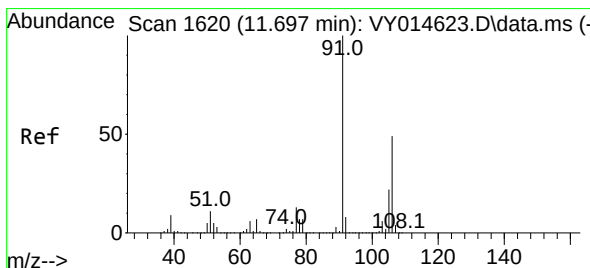
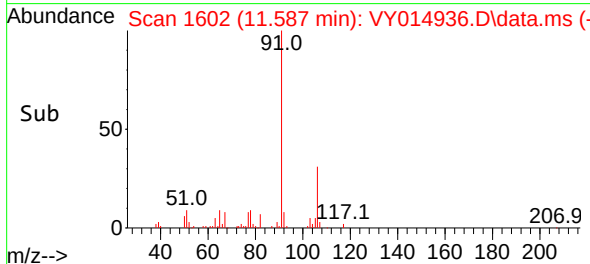
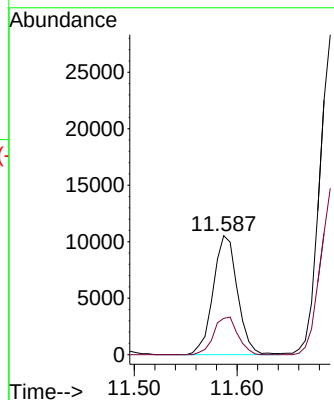
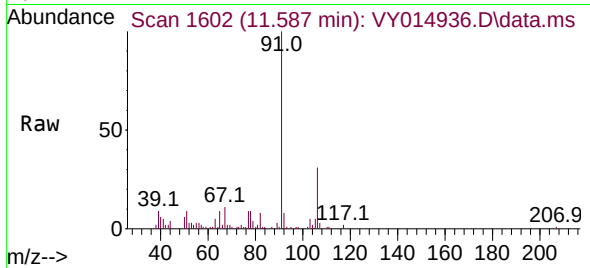




#67
Ethyl Benzene
Concen: 1.171 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. -0.006 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

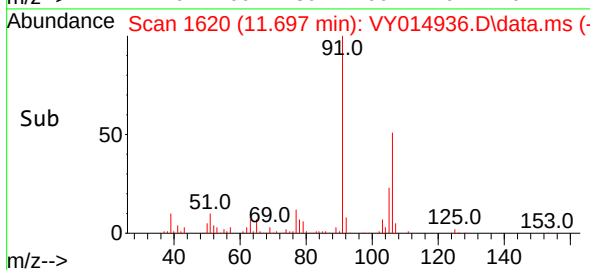
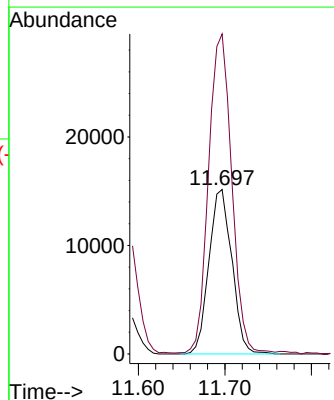
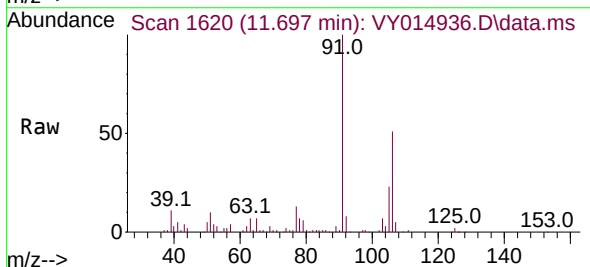
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

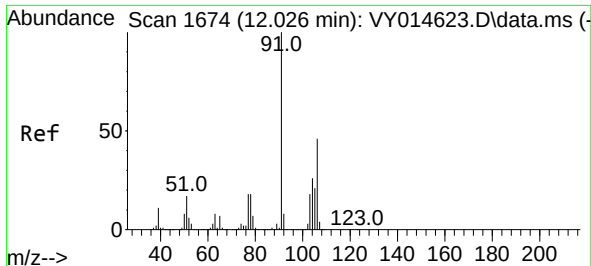
Tgt Ion: 91 Resp: 17321
Ion Ratio Lower Upper
91 100
106 30.5 24.6 36.8



#68
m/p-Xylenes
Concen: 4.942 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion: 106 Resp: 27916
Ion Ratio Lower Upper
106 100
91 194.8 166.1 249.1

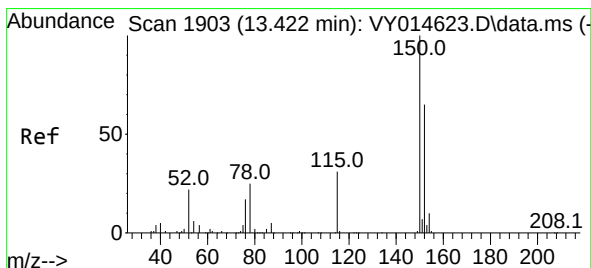
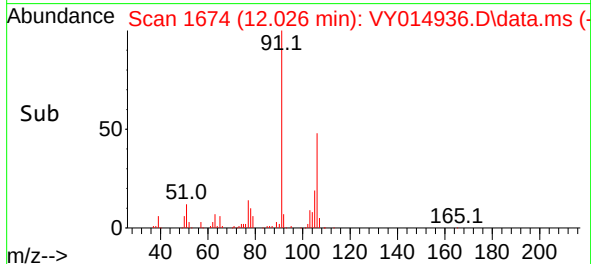
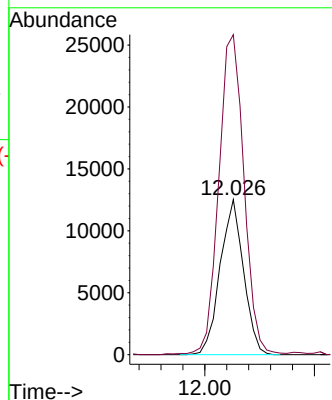
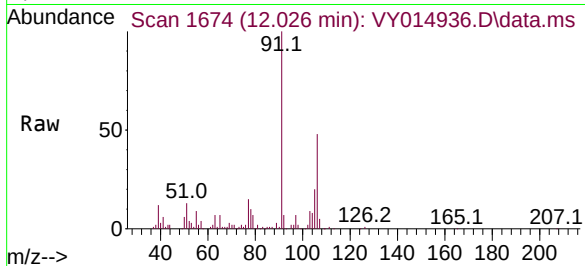




#69
o-Xylene
Concen: 3.370 ug/l
RT: 12.026 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

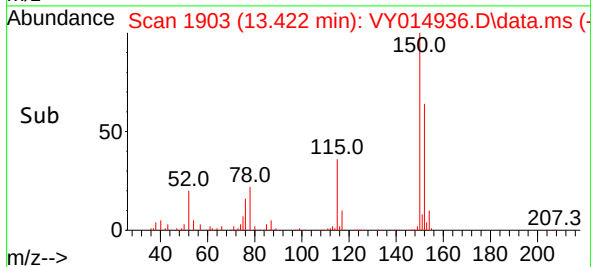
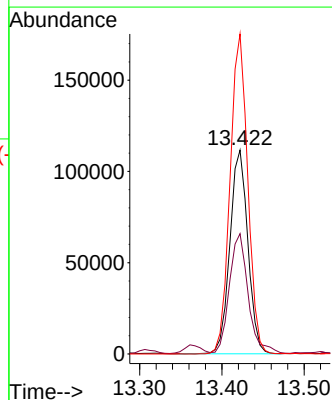
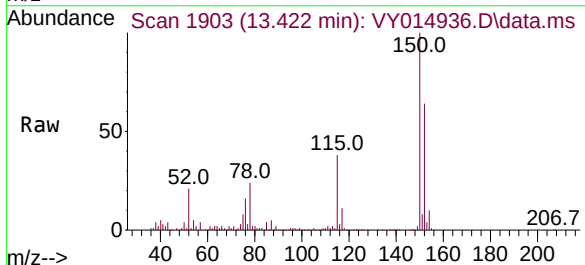
Instrument :
MSVOA_Y
ClientSampleId :
BUILDING-B-1-(0-5)

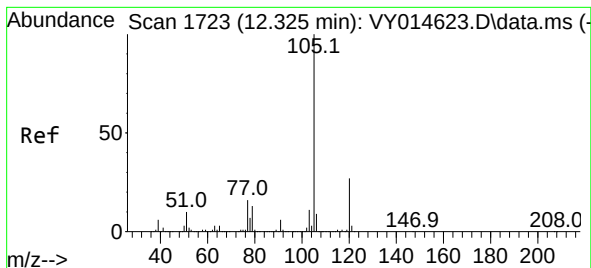
Tgt Ion:106 Resp: 18541
Ion Ratio Lower Upper
106 100
91 222.3 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY014936.D
Acq: 02 Aug 2023 17:16

Tgt Ion:152 Resp: 169965
Ion Ratio Lower Upper
152 100
115 61.9 28.8 86.5
150 154.1 0.0 348.8





#73

Isopropylbenzene

Concen: 1.409 ug/l

RT: 12.331 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014936.D

Acq: 02 Aug 2023 17:16

Instrument :

MSVOA_Y

ClientSampleId :

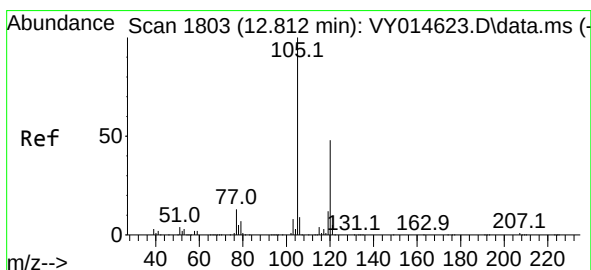
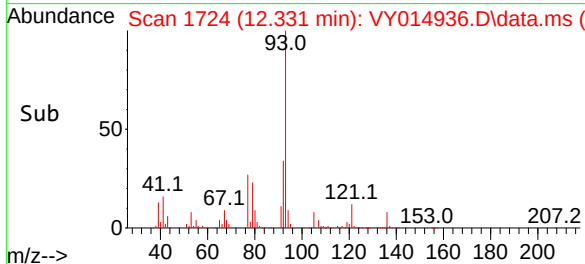
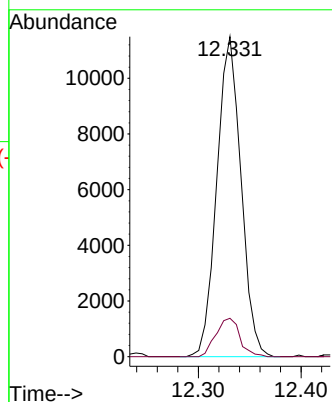
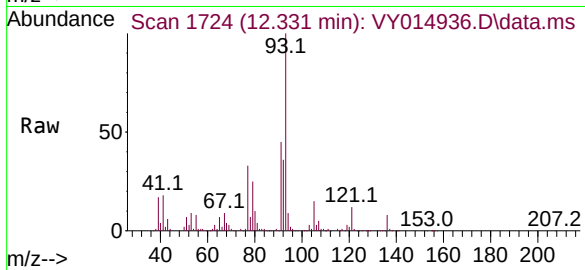
BUILDING-B-1-(0-5)

Tgt Ion:105 Resp: 18752

Ion Ratio Lower Upper

105 100

120 11.9 13.3 39.9#



#80

1,3,5-Trimethylbenzene

Concen: 10.040 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. -0.006 min

Lab File: VY014936.D

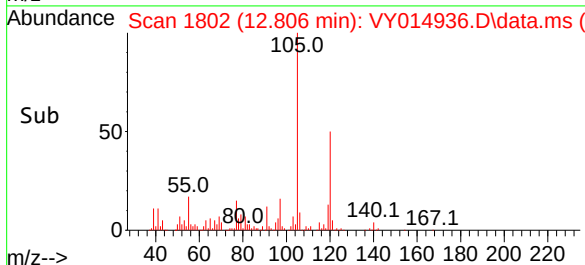
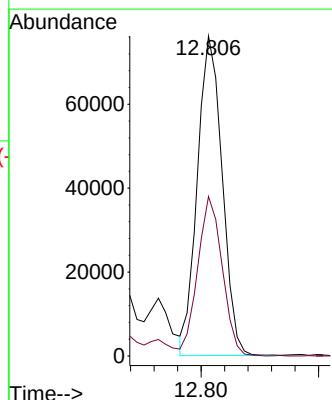
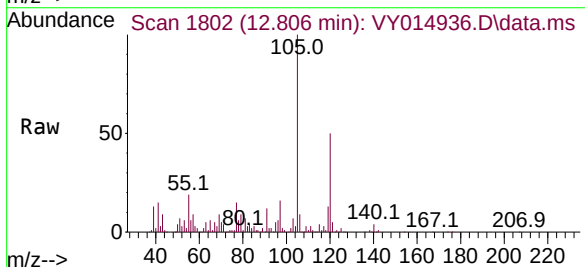
Acq: 02 Aug 2023 17:16

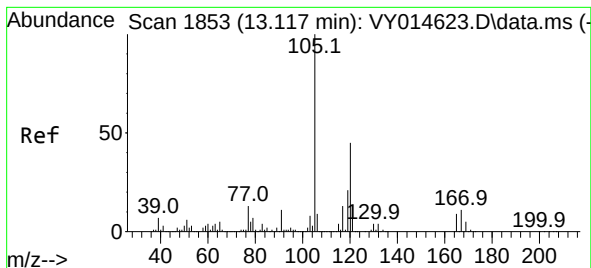
Tgt Ion:105 Resp: 111587

Ion Ratio Lower Upper

105 100

120 49.3 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 15.611 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY014936.D

Acq: 02 Aug 2023 17:16

Instrument :

MSVOA_Y

ClientSampleId :

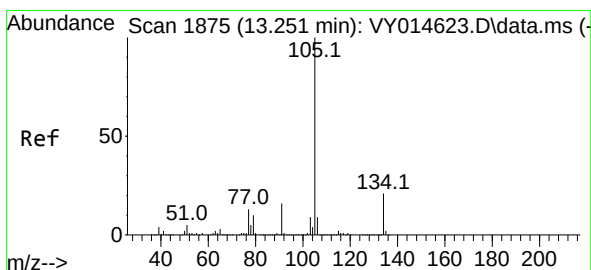
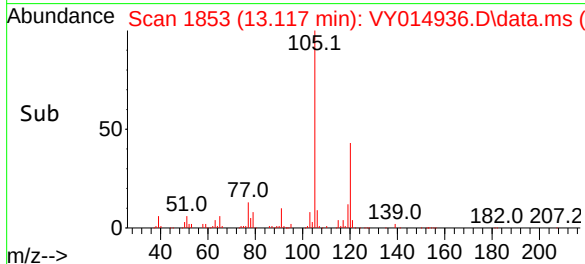
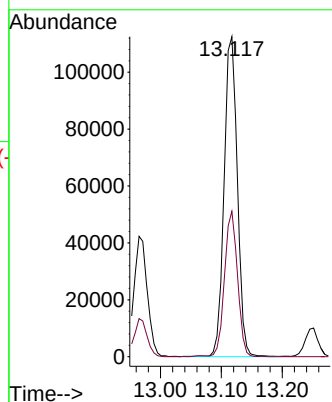
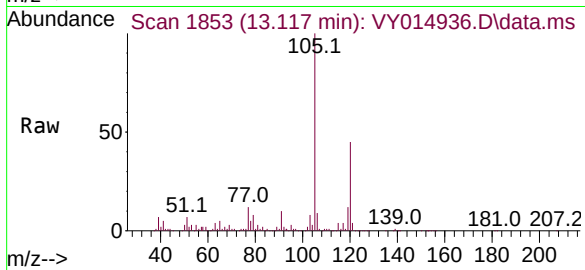
BUILDING-B-1-(0-5)

Tgt Ion:105 Resp: 170274

Ion Ratio Lower Upper

105 100

120 44.7 22.2 66.6



#85

sec-Butylbenzene

Concen: 1.021 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY014936.D

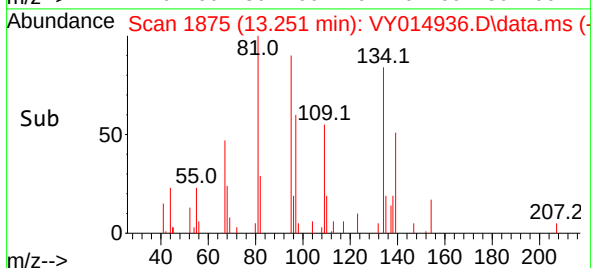
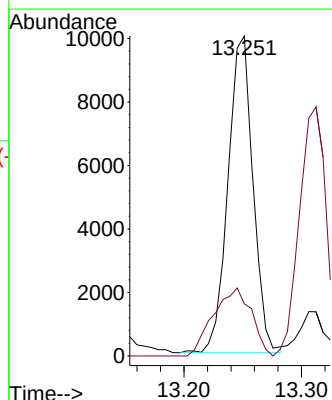
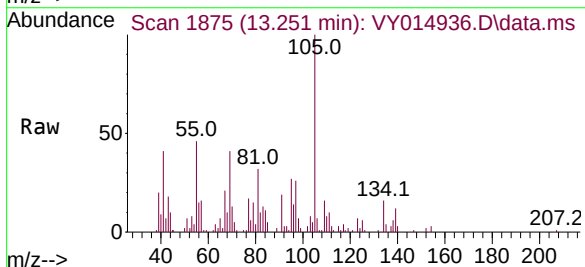
Acq: 02 Aug 2023 17:16

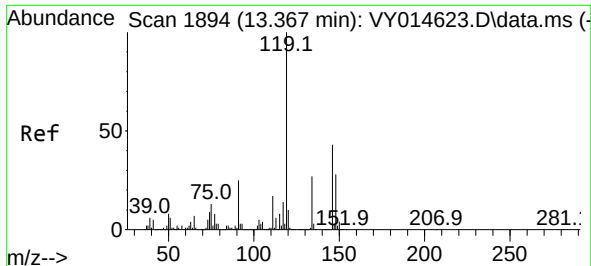
Tgt Ion:105 Resp: 14765

Ion Ratio Lower Upper

105 100

134 32.6 10.2 30.6#





#86
 p-Isopropyltoluene
 Concen: 7.776 ug/l
 RT: 13.361 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VY014936.D
 Acq: 02 Aug 2023 17:16

Instrument :
 MSVOA_Y
 ClientSampleId :
 BUILDING-B-1-(0-5)

Tgt Ion:	119	Resp:	91824
Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.3	39.8
91	25.2	12.4	37.4

