

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071624\
 Data File : VY018828.D
 Acq On : 16 Jul 2024 13:26
 Operator : SY/MD
 Sample : P3224-29
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 356STEVEN-14

Quant Time: Jul 17 01:54:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y070924S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 14:28:51 2024
 Response via : Initial Calibration

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

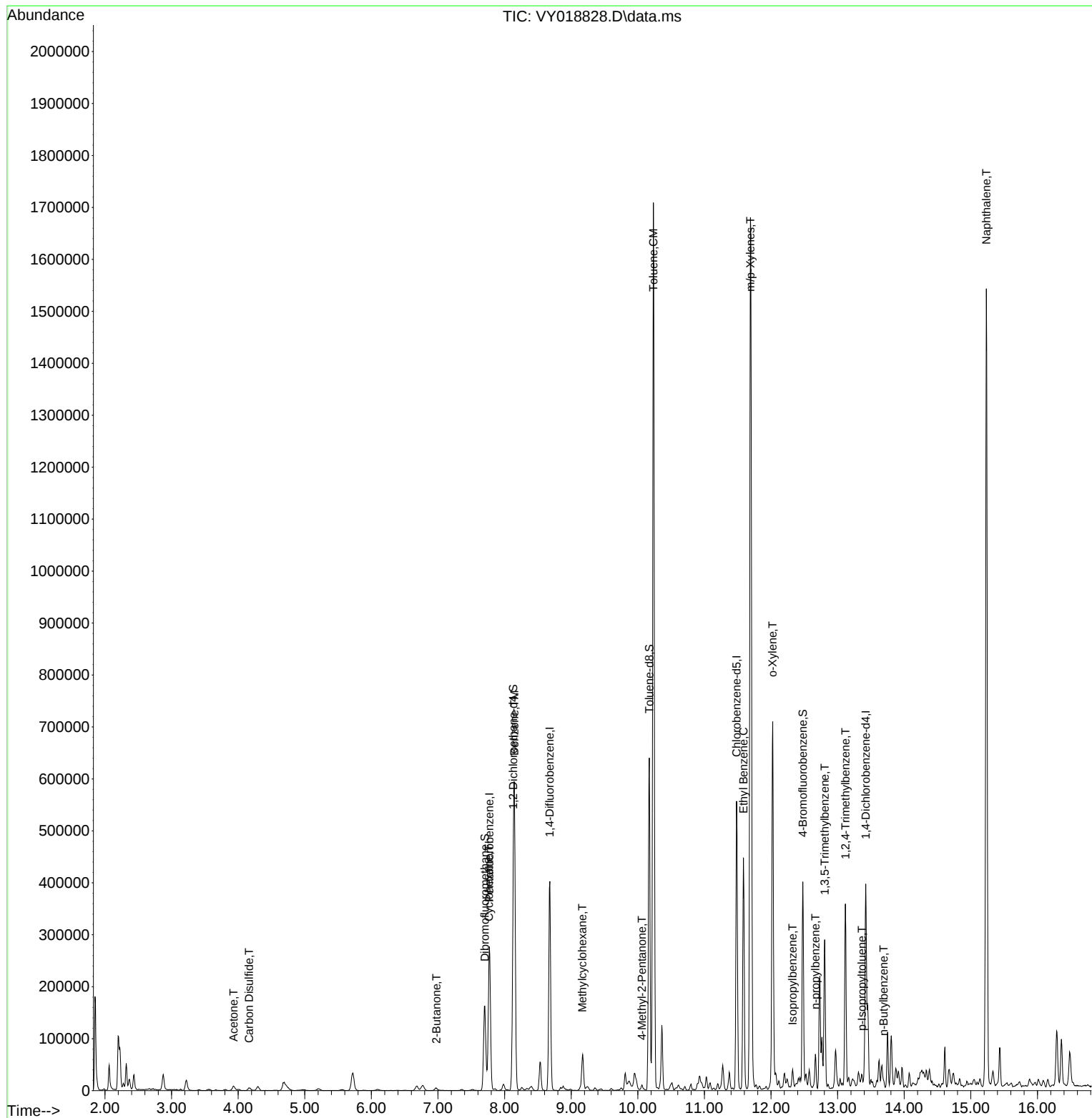
Internal Standards						
1) Pentafluorobenzene	7.771	168	198480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.679	114	351487	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	296902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	95411	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	104792	53.655	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 107.300%	
35) Dibromofluoromethane	7.704	113	109943	49.941	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.880%	
50) Toluene-d8	10.173	98	392511	47.062	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.120%	
62) 4-Bromofluorobenzene	12.477	95	112623	39.541	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 79.080%	
Target Compounds						
					Qvalue	
16) Acetone	3.930	43	13642	37.887	ug/l #	84
17) Carbon Disulfide	4.162	76	10259	1.911	ug/l	99
25) 2-Butanone	6.978	43	4058	8.040	ug/l	96
31) Cyclohexane	7.765	56	14304	4.767	ug/l #	87
39) Methylcyclohexane	9.167	83	28498	7.320	ug/l	96
40) Benzene	8.149	78	542042	61.504	ug/l	98
51) 4-Methyl-2-Pentanone	10.063	43	5599	4.364	ug/l #	85
52) Toluene	10.234	92	697650	119.100	ug/l	97
67) Ethyl Benzene	11.587	91	295548	26.937	ug/l	96
68) m/p-Xylenes	11.691	106	501040	116.369	ug/l	97
69) o-Xylene	12.026	106	181128	44.746	ug/l	98
73) Isopropylbenzene	12.325	105	21740	3.113	ug/l	96
78) n-propylbenzene	12.666	91	48200	5.813	ug/l	97
80) 1,3,5-Trimethylbenzene	12.806	105	83615	14.635	ug/l	95
84) 1,2,4-Trimethylbenzene	13.117	105	188138	33.137	ug/l	100
86) p-Isopropyltoluene	13.367	119	8448	1.307	ug/l	89
89) n-Butylbenzene	13.690	91	6042	1.031	ug/l #	72
95) Naphthalene	15.233	128	1230709	415.538	ug/l	99

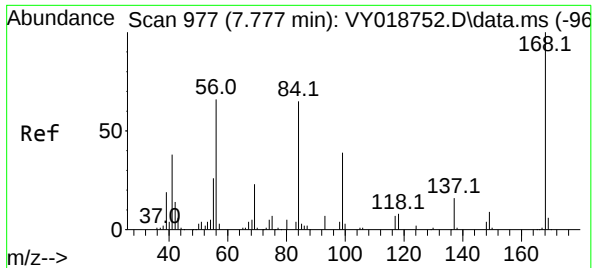
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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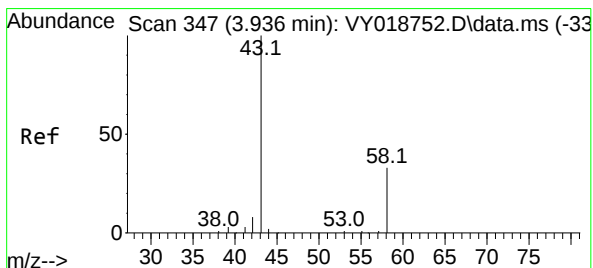
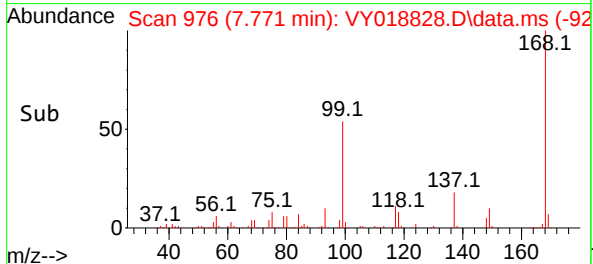
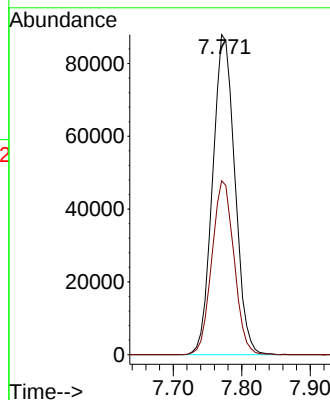
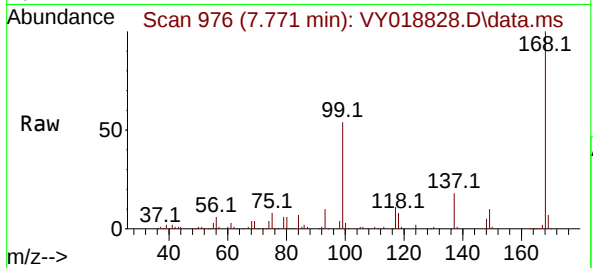




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.771 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

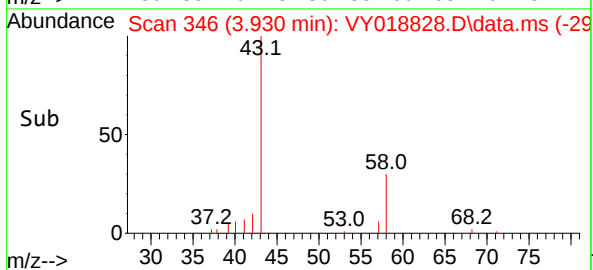
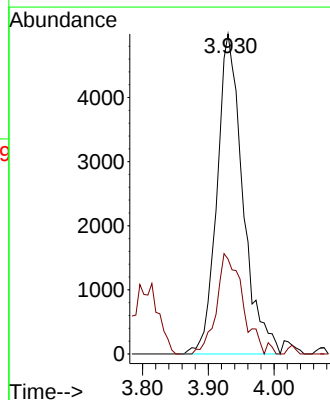
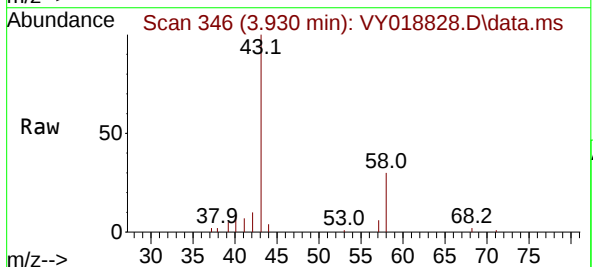
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

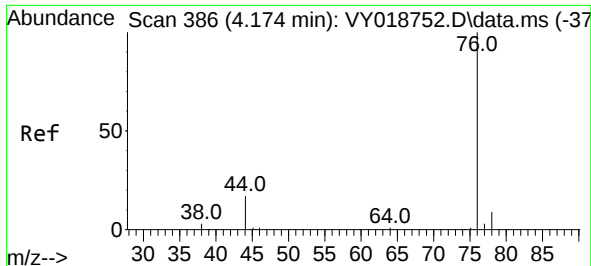
Tgt Ion:168 Resp: 198480
Ion Ratio Lower Upper
168 100
99 54.4 39.1 58.7



#16
Acetone
Concen: 37.887 ug/l
RT: 3.930 min Scan# 346
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 43 Resp: 13642
Ion Ratio Lower Upper
43 100
58 29.6 31.7 47.5#

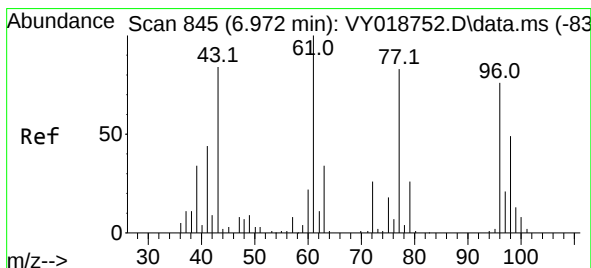
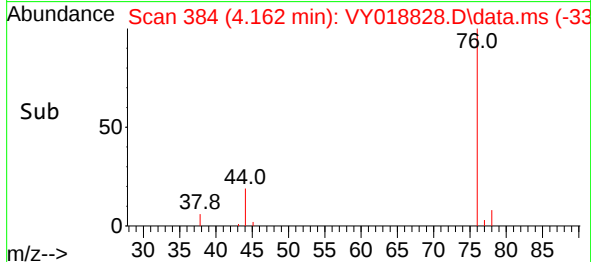
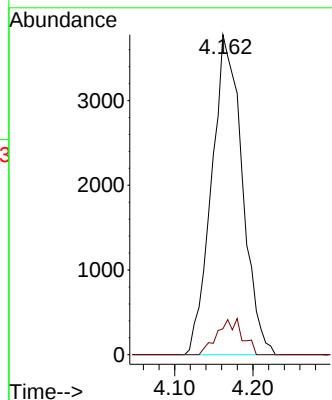
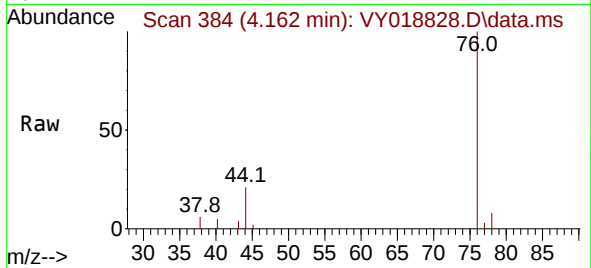




#17
Carbon Disulfide
Concen: 1.911 ug/l
RT: 4.162 min Scan# 384
Delta R.T. -0.012 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

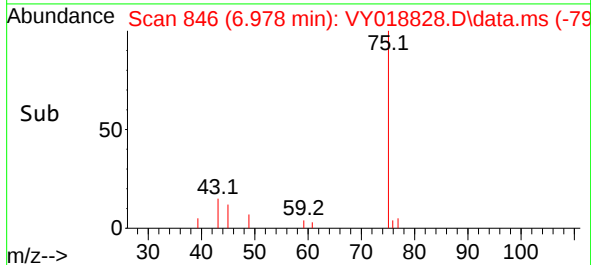
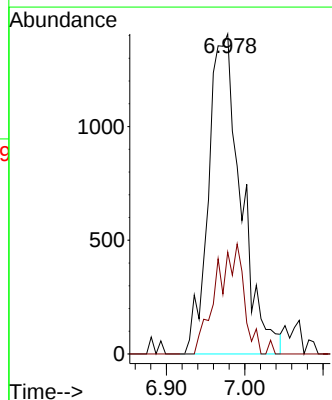
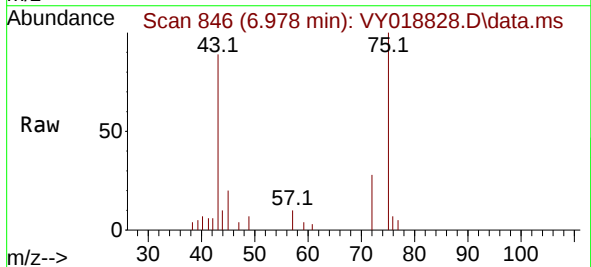
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

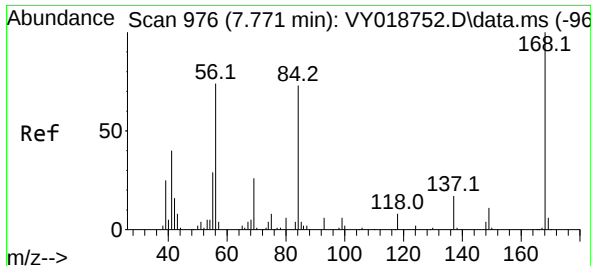
Tgt Ion: 76 Resp: 10259
Ion Ratio Lower Upper
76 100
78 8.1 6.8 10.2



#25
2-Butanone
Concen: 8.040 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 43 Resp: 4058
Ion Ratio Lower Upper
43 100
72 31.8 27.3 40.9

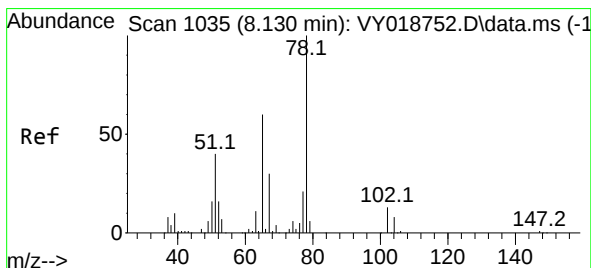
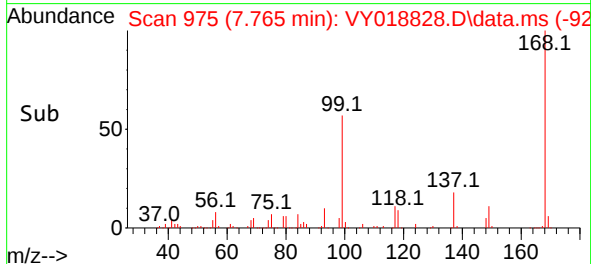
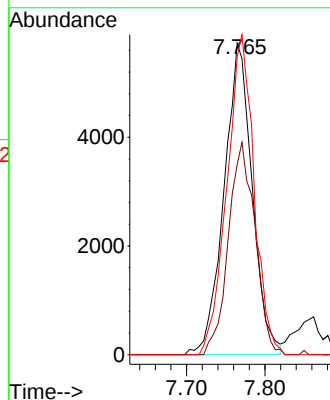
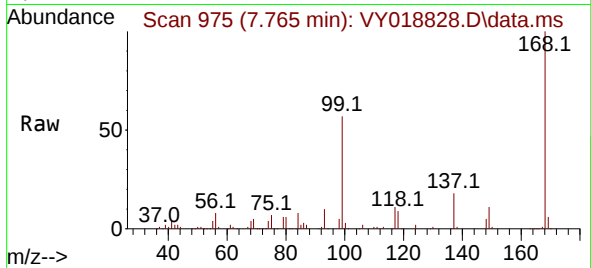




#31
Cyclohexane
Concen: 4.767 ug/l
RT: 7.765 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

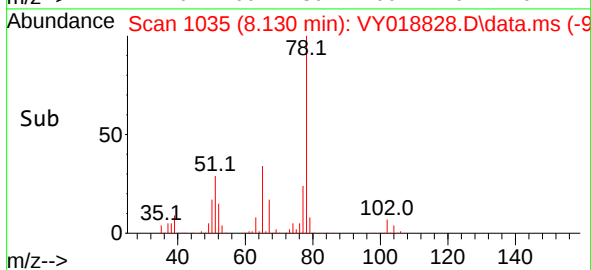
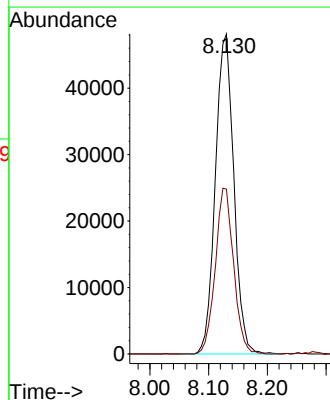
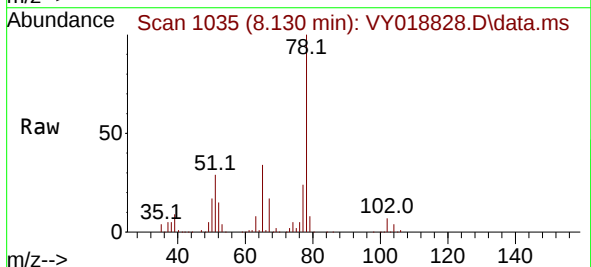
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

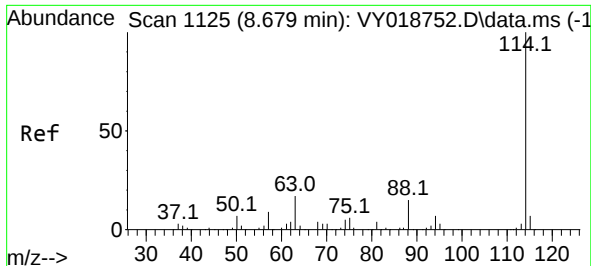
Tgt Ion: 56 Resp: 14304
Ion Ratio Lower Upper
56 100
69 61.0 28.7 43.1#
84 95.7 77.7 116.5



#33
1,2-Dichloroethane-d4
Concen: 53.655 ug/l
RT: 8.130 min Scan# 1035
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 65 Resp: 104792
Ion Ratio Lower Upper
65 100
67 51.5 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.679 min Scan# 1125

Delta R.T. 0.000 min

Lab File: VY018828.D

Acq: 16 Jul 2024 13:26

Instrument :

MSVOA_Y

ClientSampleId :

356STEVEN-14

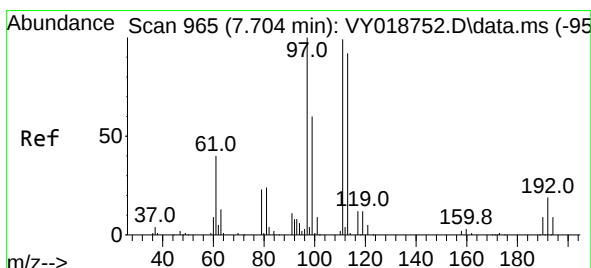
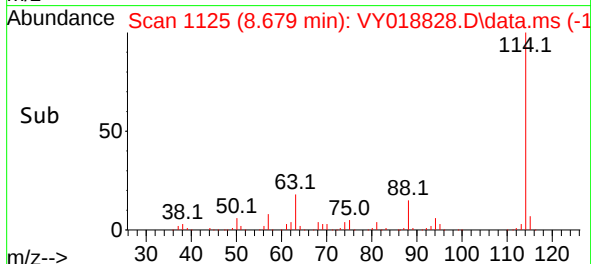
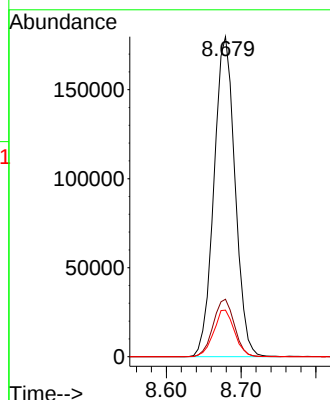
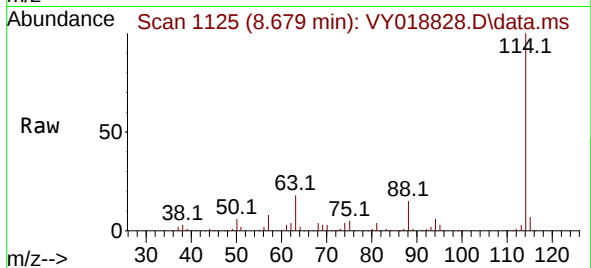
Tgt Ion:114 Resp: 351487

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.0

88 14.6 0.0 27.2



#35

Dibromofluoromethane

Concen: 49.941 ug/l

RT: 7.704 min Scan# 965

Delta R.T. 0.000 min

Lab File: VY018828.D

Acq: 16 Jul 2024 13:26

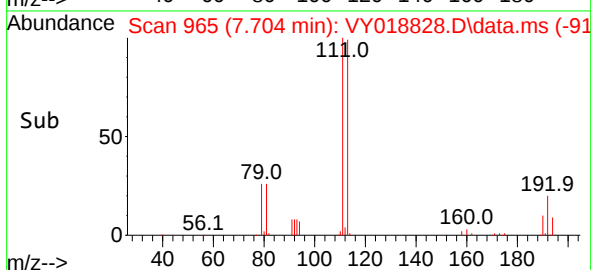
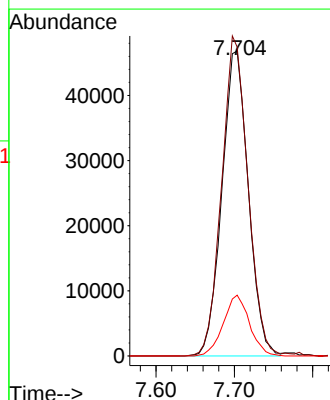
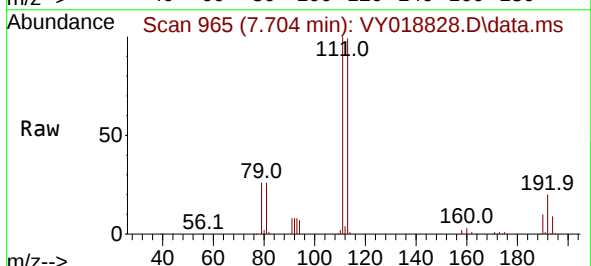
Tgt Ion:113 Resp: 109943

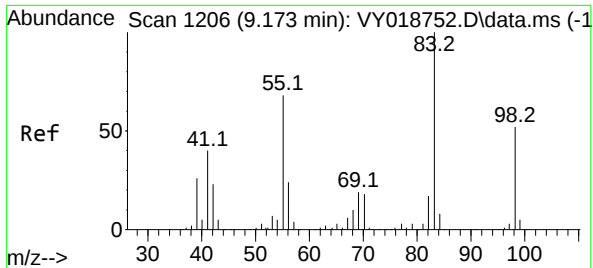
Ion Ratio Lower Upper

113 100

111 104.1 82.2 123.4

192 19.8 15.9 23.9

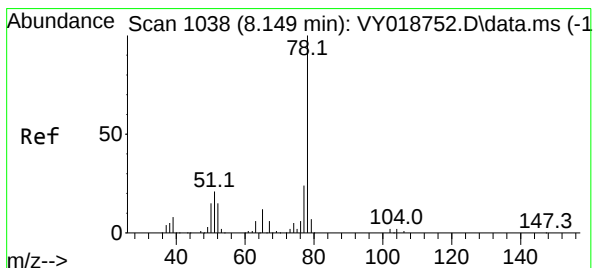
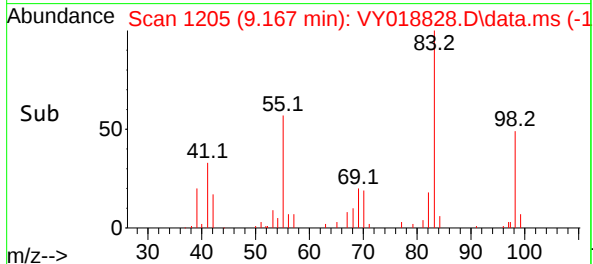
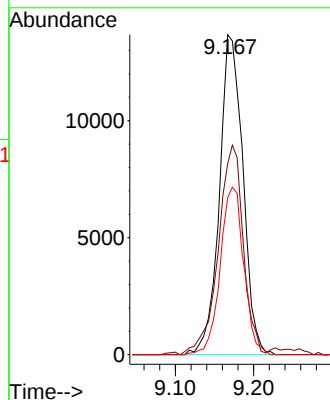
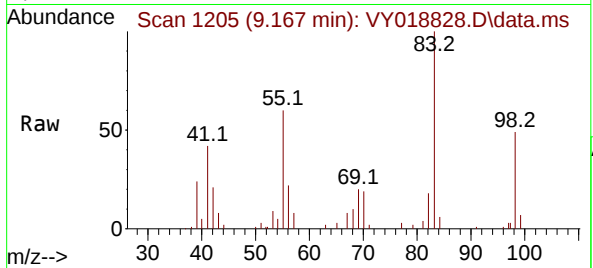




#39
Methylcyclohexane
Concen: 7.320 ug/l
RT: 9.167 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

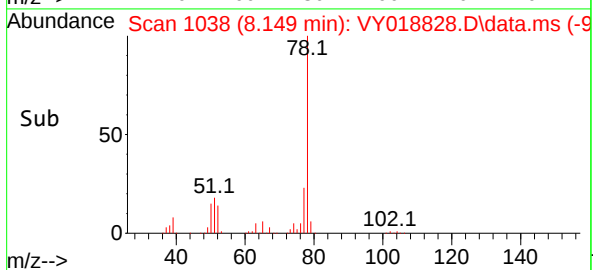
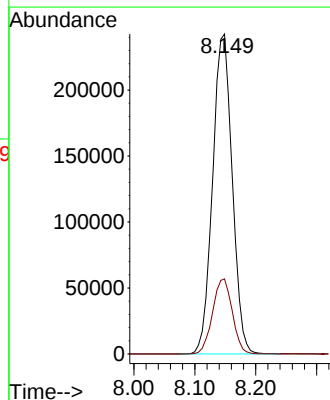
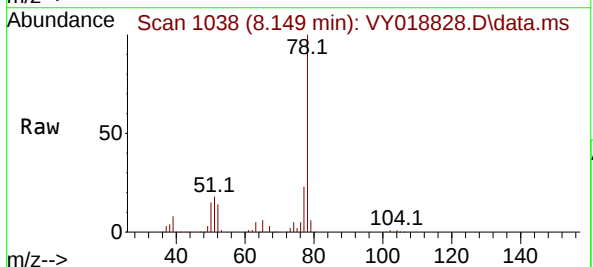
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

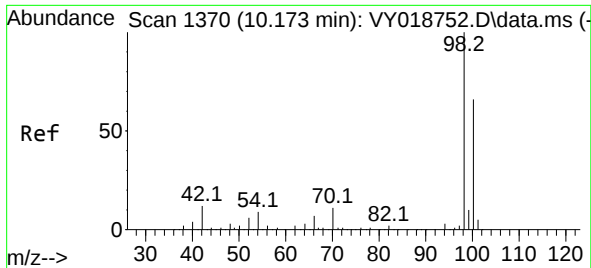
Tgt Ion: 83 Resp: 28498
Ion Ratio Lower Upper
83 100
55 59.7 51.5 77.3
98 49.1 40.5 60.7



#40
Benzene
Concen: 61.504 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 78 Resp: 542042
Ion Ratio Lower Upper
78 100
77 23.5 19.5 29.3

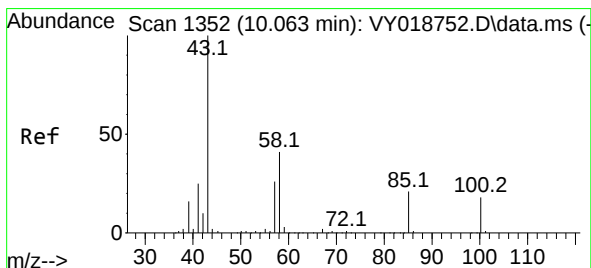
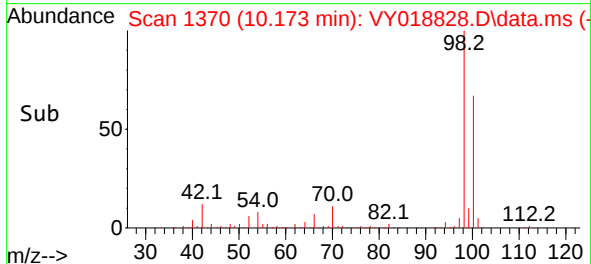
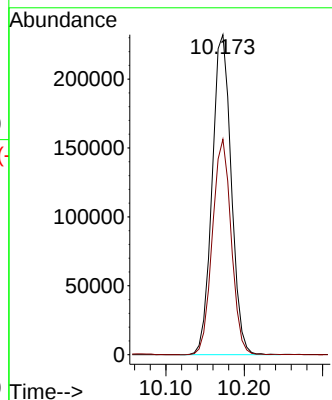
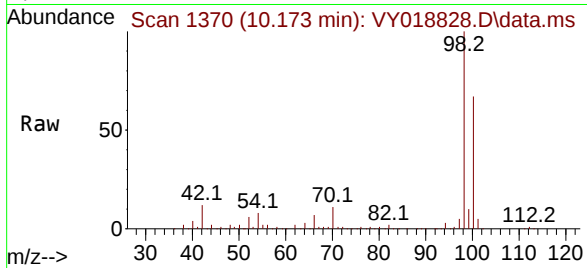




#50
Toluene-d8
Concen: 47.062 ug/l
RT: 10.173 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

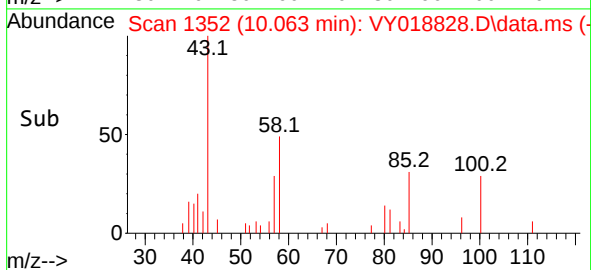
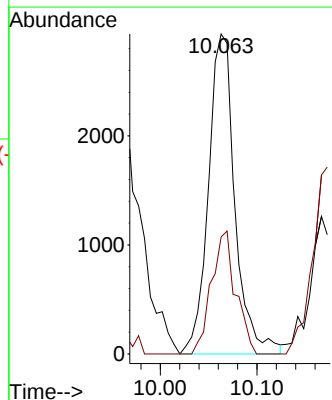
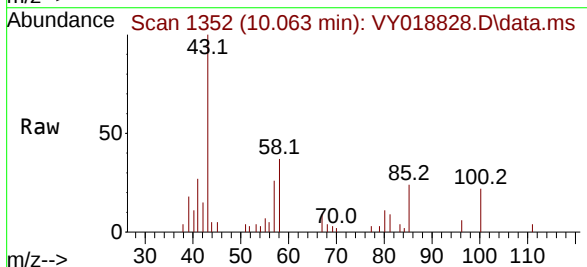
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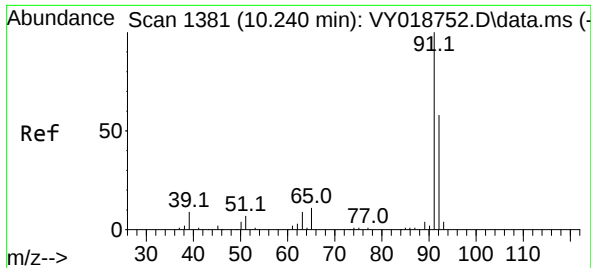
Tgt Ion: 98 Resp: 392511
Ion Ratio Lower Upper
98 100
100 66.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.364 ug/l
RT: 10.063 min Scan# 1352
Delta R.T. -0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 43 Resp: 5599
Ion Ratio Lower Upper
43 100
58 35.1 35.7 53.5#

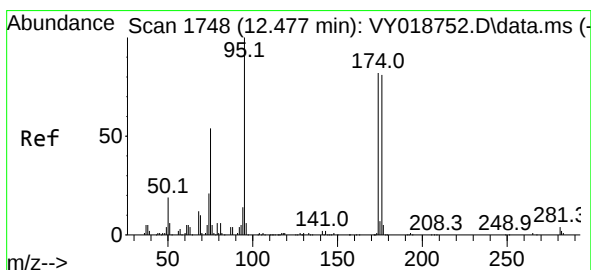
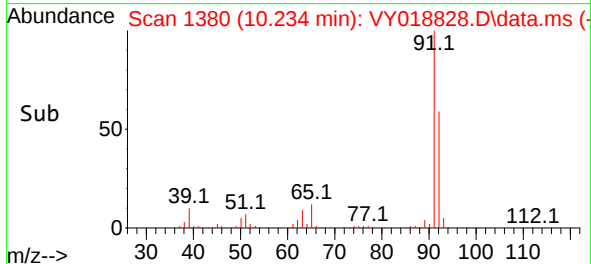
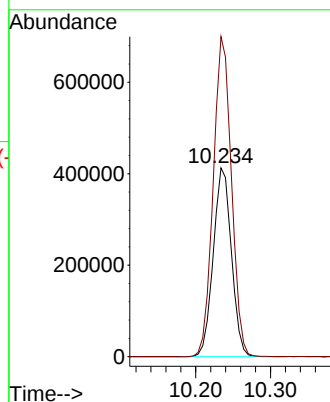
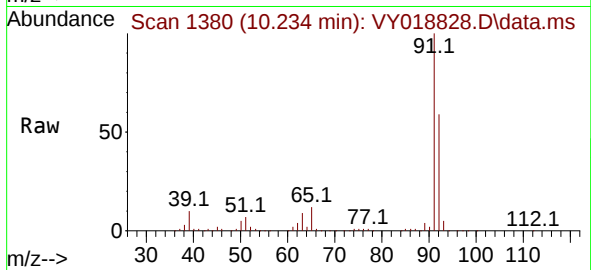




#52
Toluene
Concen: 119.100 ug/l
RT: 10.234 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

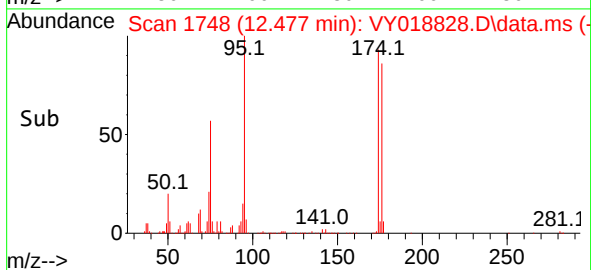
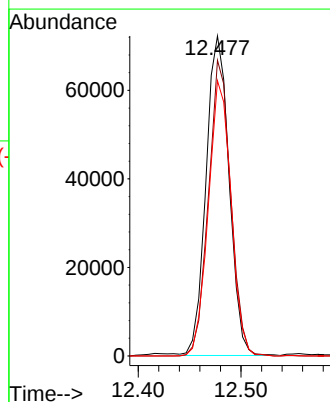
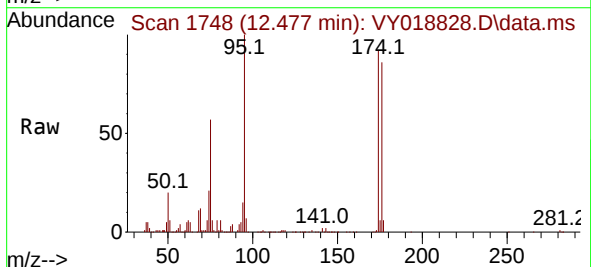
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

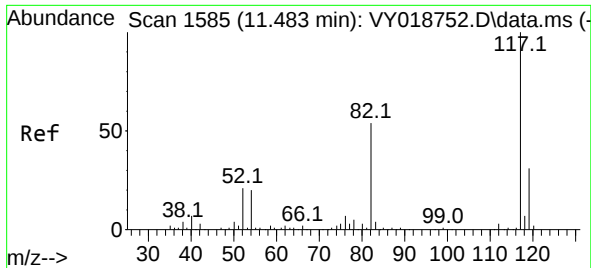
Tgt Ion: 92 Resp: 697650
Ion Ratio Lower Upper
92 100
91 170.1 139.0 208.6



#62
4-Bromofluorobenzene
Concen: 39.541 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 95 Resp: 112623
Ion Ratio Lower Upper
95 100
174 89.4 0.0 175.6
176 84.9 0.0 171.4

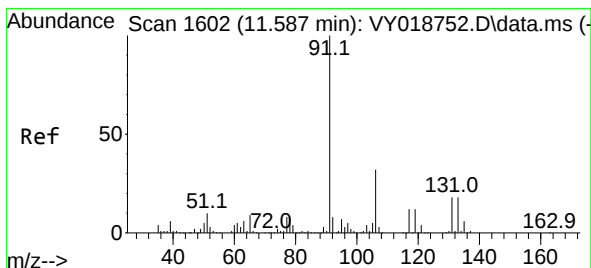
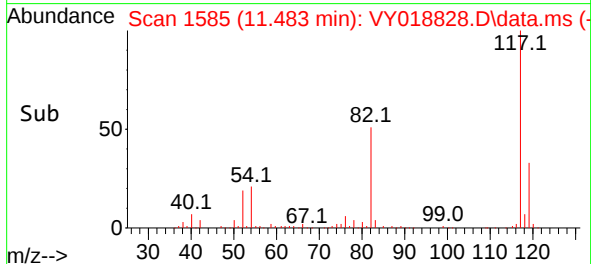
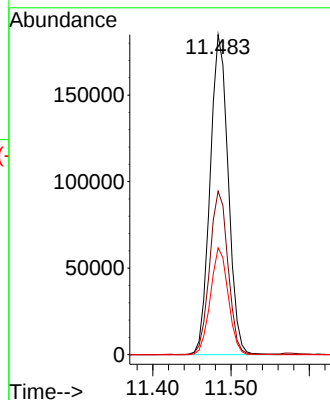
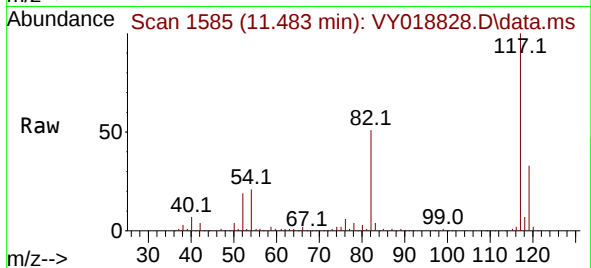




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

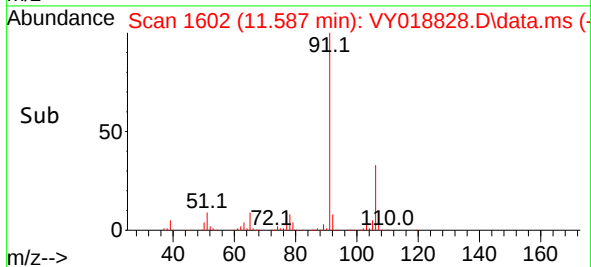
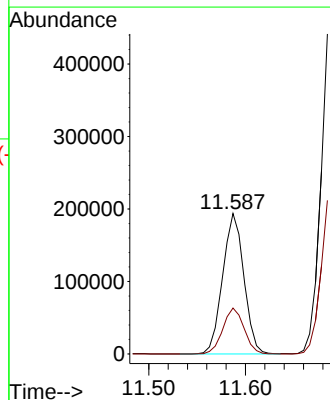
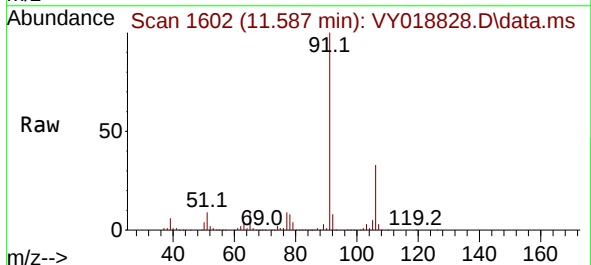
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

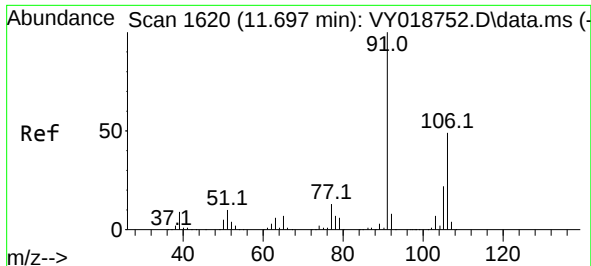
Tgt Ion:117 Resp: 296902
Ion Ratio Lower Upper
117 100
82 51.0 42.4 63.6
119 33.4 25.9 38.9



#67
Ethyl Benzene
Concen: 26.937 ug/l
RT: 11.587 min Scan# 1602
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 91 Resp: 295548
Ion Ratio Lower Upper
91 100
106 32.7 24.5 36.7

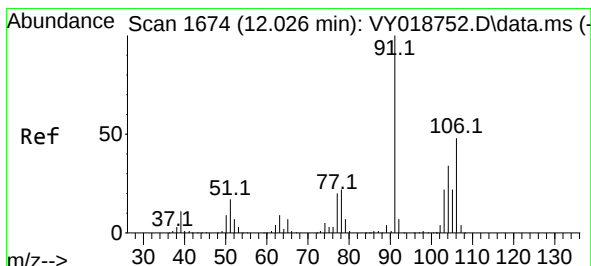
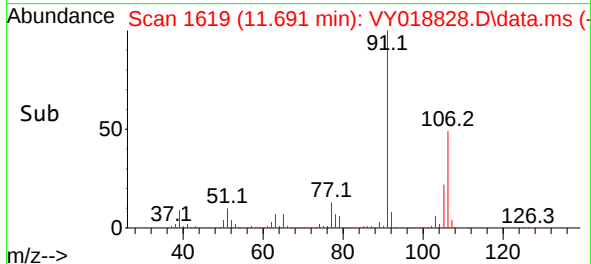
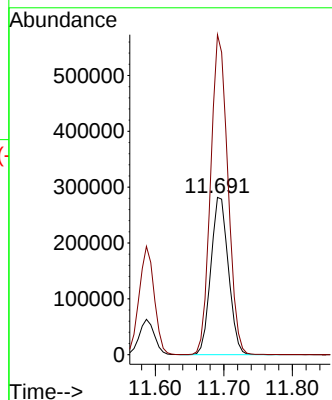
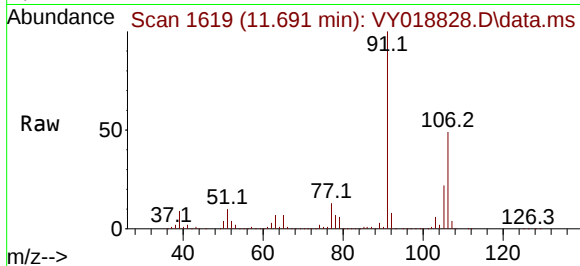




#68
m/p-Xylenes
Concen: 116.369 ug/l
RT: 11.691 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

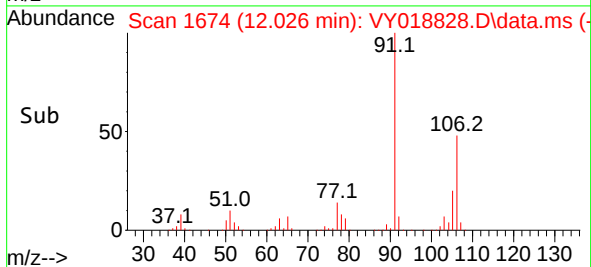
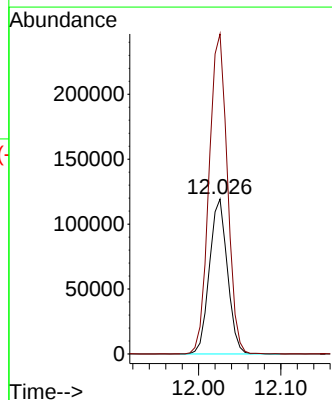
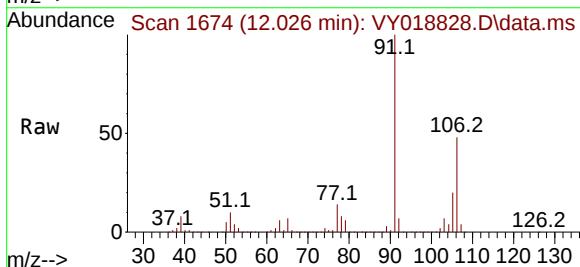
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

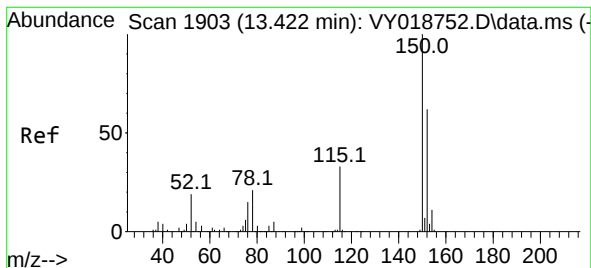
Tgt Ion:106 Resp: 501040
Ion Ratio Lower Upper
106 100
91 199.6 156.0 234.0



#69
o-Xylene
Concen: 44.746 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion:106 Resp: 181128
Ion Ratio Lower Upper
106 100
91 210.8 103.6 310.8

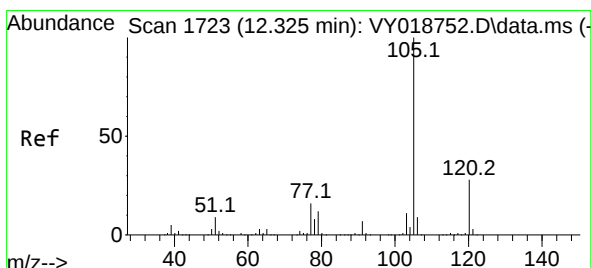
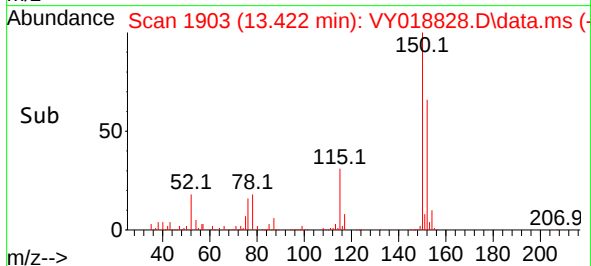
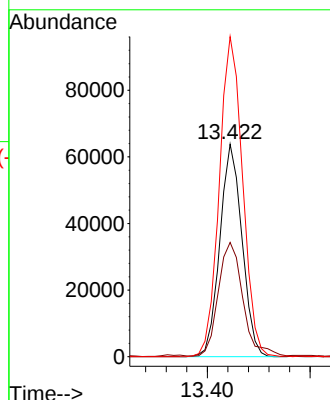
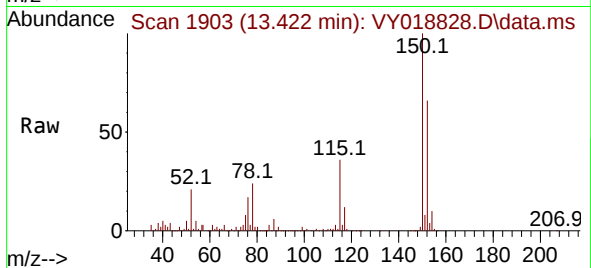




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

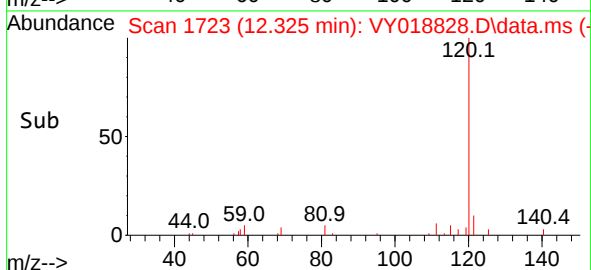
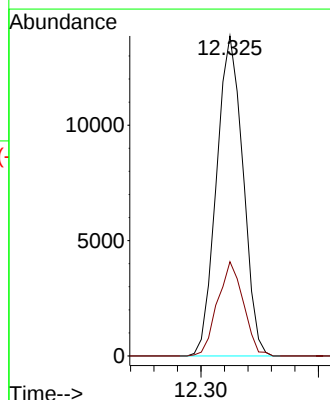
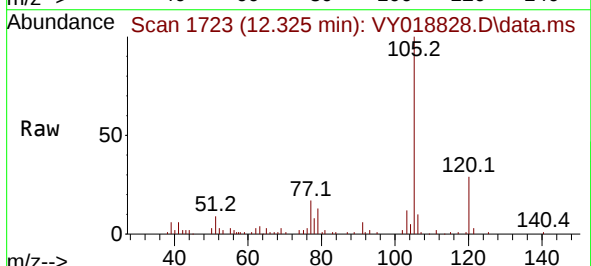
Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

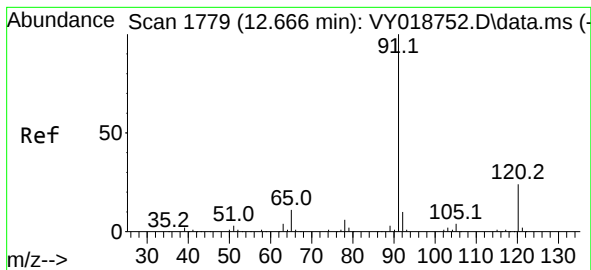
Tgt Ion:152 Resp: 95411
Ion Ratio Lower Upper
152 100
115 59.2 28.2 84.7
150 158.5 0.0 345.6



#73
Isopropylbenzene
Concen: 3.113 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion:105 Resp: 21740
Ion Ratio Lower Upper
105 100
120 28.7 13.4 40.1





#78

n-propylbenzene

Concen: 5.813 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY018828.D

Acq: 16 Jul 2024 13:26

Instrument :

MSVOA_Y

ClientSampleId :

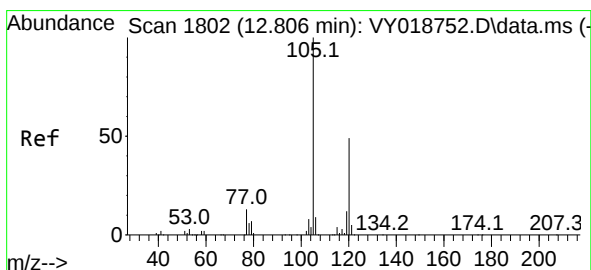
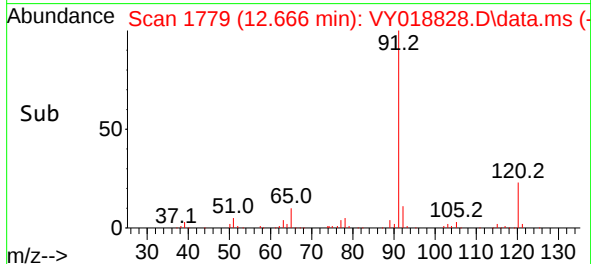
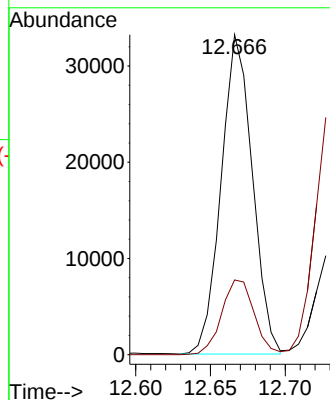
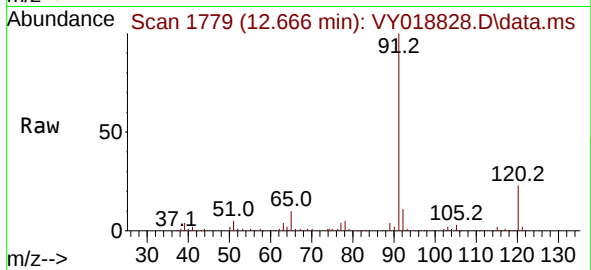
356STEVEN-14

Tgt Ion: 91 Resp: 48200

Ion Ratio Lower Upper

91 100

120 24.4 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 14.635 ug/l

RT: 12.806 min Scan# 1802

Delta R.T. 0.000 min

Lab File: VY018828.D

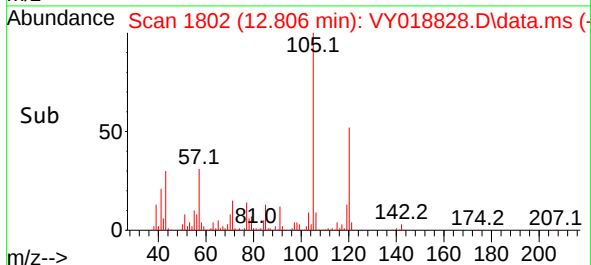
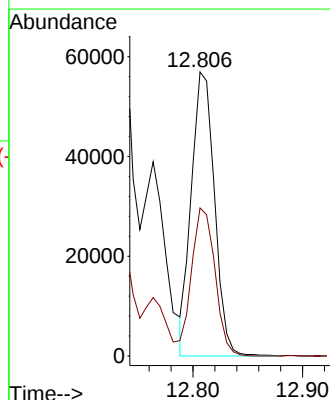
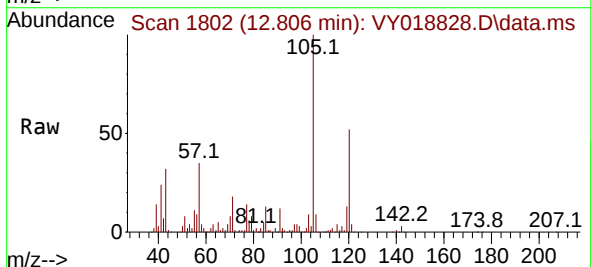
Acq: 16 Jul 2024 13:26

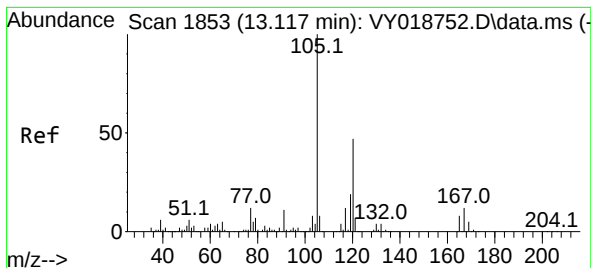
Tgt Ion: 105 Resp: 83615

Ion Ratio Lower Upper

105 100

120 53.6 25.1 75.2





#84

1,2,4-Trimethylbenzene

Concen: 33.137 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VY018828.D

Acq: 16 Jul 2024 13:26

Instrument :

MSVOA_Y

ClientSampleId :

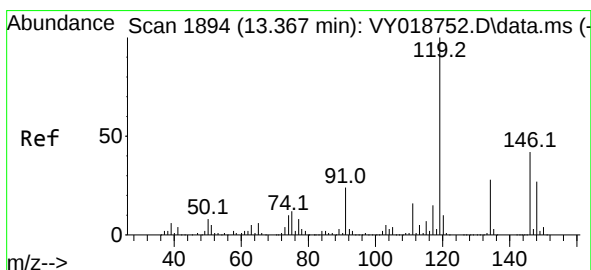
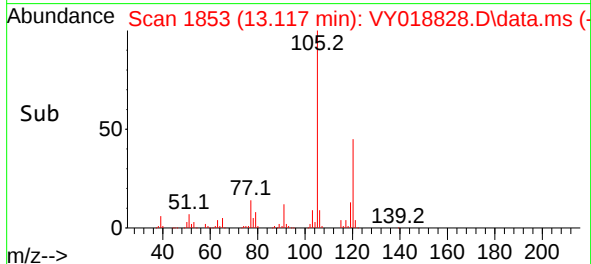
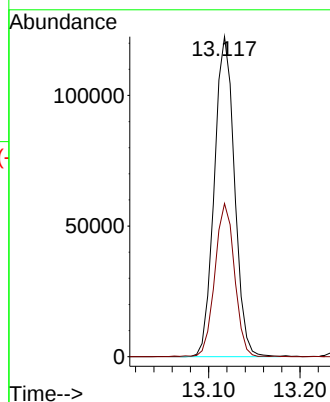
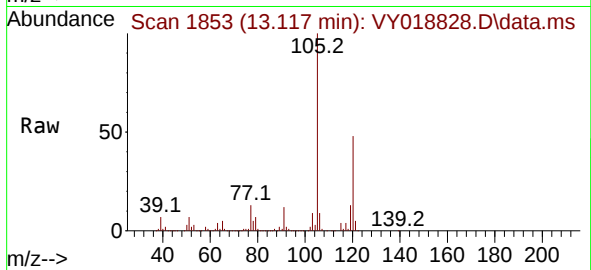
356STEVEN-14

Tgt Ion:105 Resp: 188138

Ion Ratio Lower Upper

105 100

120 46.6 23.2 69.6



#86

p-Isopropyltoluene

Concen: 1.307 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY018828.D

Acq: 16 Jul 2024 13:26

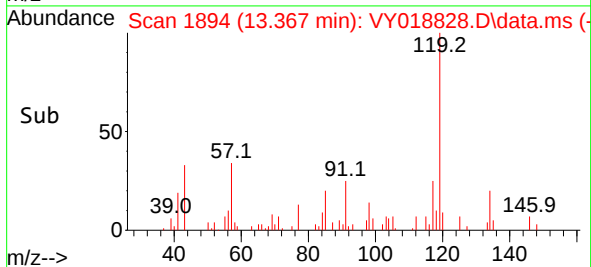
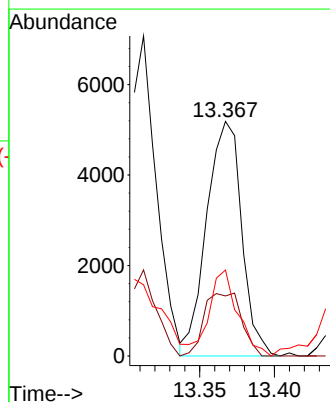
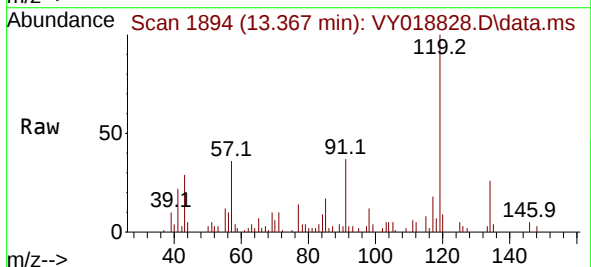
Tgt Ion:119 Resp: 8448

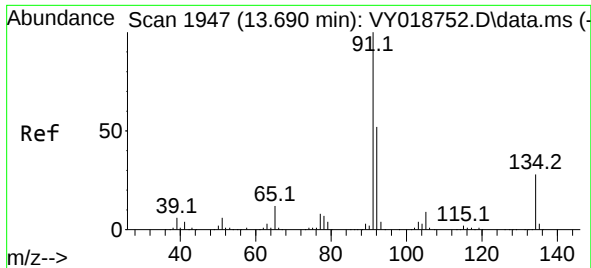
Ion Ratio Lower Upper

119 100

134 28.6 13.1 39.3

91 29.7 10.7 32.1

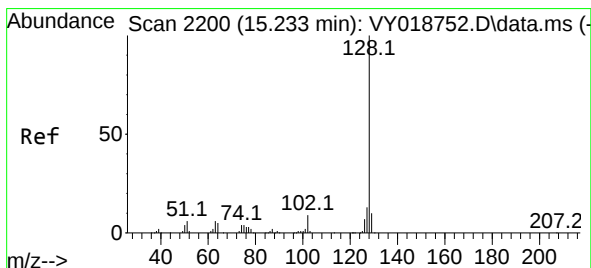
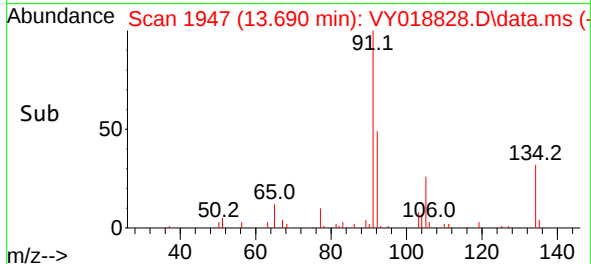
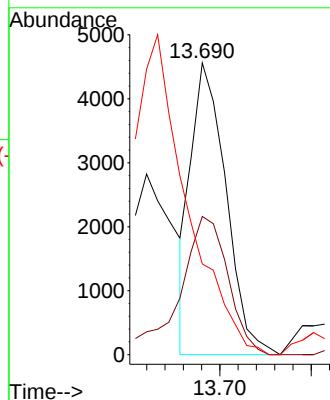
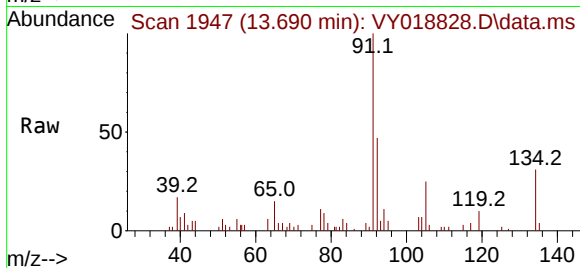




#89
n-Butylbenzene
Concen: 1.031 ug/l
RT: 13.690 min Scan# 1947
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Instrument :
MSVOA_Y
ClientSampleId :
356STEVEN-14

Tgt Ion: 91 Resp: 6042
Ion Ratio Lower Upper
91 100
92 65.3 26.6 79.7
134 0.0 12.9 38.7#



#95
Naphthalene
Concen: 415.538 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY018828.D
Acq: 16 Jul 2024 13:26

Tgt Ion: 128 Resp: 1230709
Ion Ratio Lower Upper
128 100
127 12.9 10.6 16.0
129 11.1 8.6 13.0

