

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110123\
 Data File : VY016162.D
 Acq On : 01 Nov 2023 12:42
 Operator : SY/MD
 Sample : 05102-06
 Misc : 5.18g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 67S-SB08-1619

Quant Time: Nov 02 02:23:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

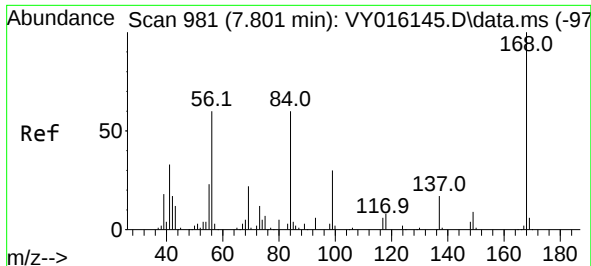
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.795	168	121727	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	200899	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	177850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	70881	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	63771	55.987	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.980%			
35) Dibromofluoromethane	7.722	113	55235	46.118	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 92.240%			
50) Toluene-d8	10.185	98	238167	50.155	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.300%			
62) 4-Bromofluorobenzene	12.489	95	74816	46.075	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.160%			
Target Compounds						Qvalue
8) Diethyl Ether	3.534	74	3580	6.448	ug/l	100
16) Acetone	3.954	43	23996	122.221	ug/l	92
17) Carbon Disulfide	4.204	76	4616	1.920	ug/l	99
20) Methylene Chloride	4.716	84	18129	13.420	ug/l #	80
25) 2-Butanone	6.990	43	6120	19.475	ug/l	91
30) Chloroform	7.515	83	4248	1.956	ug/l	93
31) Cyclohexane	7.789	56	85294	48.712	ug/l	90
39) Methylcyclohexane	9.191	83	23892	11.573	ug/l	96
40) Benzene	8.167	78	41909	8.441	ug/l	99
42) 1,2-Dichloroethane	8.246	62	23562	17.005	ug/l	93
52) Toluene	10.252	92	161057	50.058	ug/l	94
65) Chlorobenzene	11.526	112	64825	18.346	ug/l	99
67) Ethyl Benzene	11.599	91	353251	55.894	ug/l	99
68) m/p-Xylenes	11.709	106	236252	96.739	ug/l	95
69) o-Xylene	12.038	106	86741	37.200	ug/l	97
73) Isopropylbenzene	12.337	105	121428	22.838	ug/l	100
78) n-propylbenzene	12.678	91	196639	31.282	ug/l	99
80) 1,3,5-Trimethylbenzene	12.825	105	159584	37.047	ug/l	97
84) 1,2,4-Trimethylbenzene	13.129	105	527936	123.859	ug/l	97
85) sec-Butylbenzene	13.263	105	58932	10.417	ug/l #	66
86) p-Isopropyltoluene	13.379	119	32112	6.849	ug/l	99
89) n-Butylbenzene	13.702	91	74109	17.203	ug/l #	69
91) 1,2-Dichlorobenzene	13.751	146	16057	7.805	ug/l	92
95) Naphthalene	15.245	128	226758	91.925	ug/l	99

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

Quant Time: Nov 02 02:23:07 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

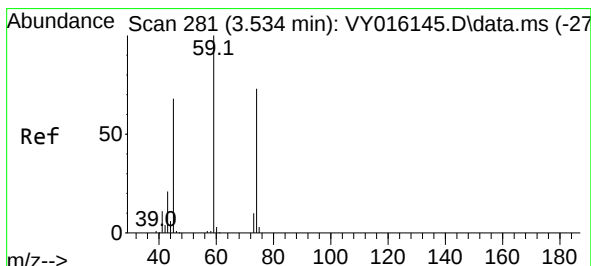
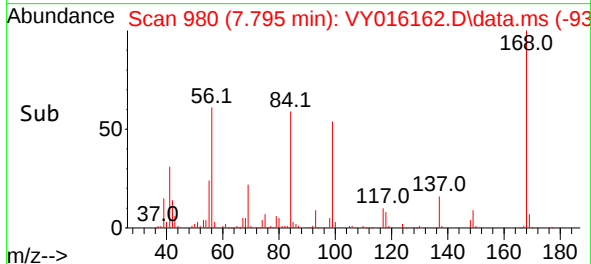
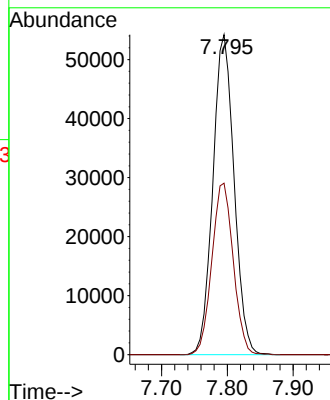
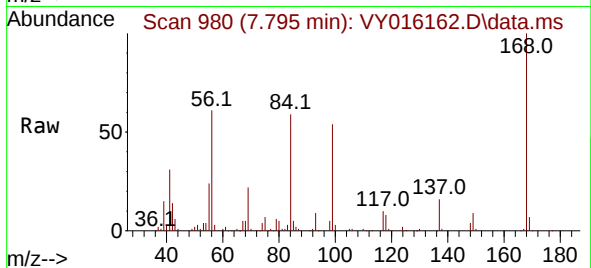




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

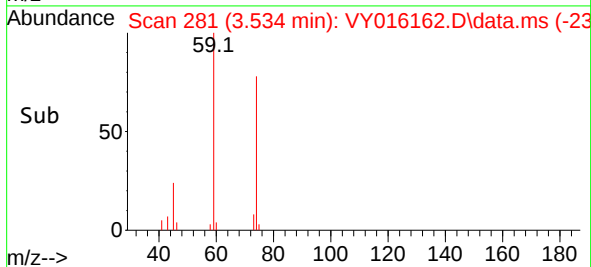
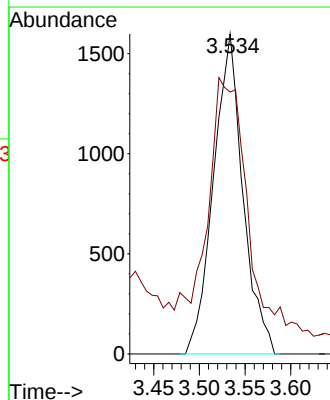
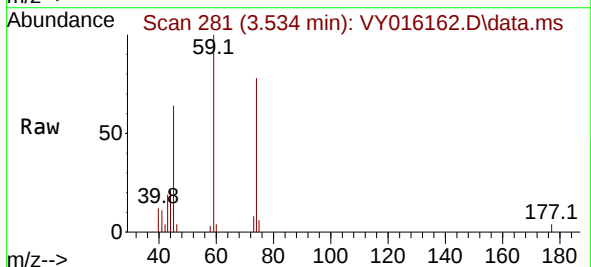
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

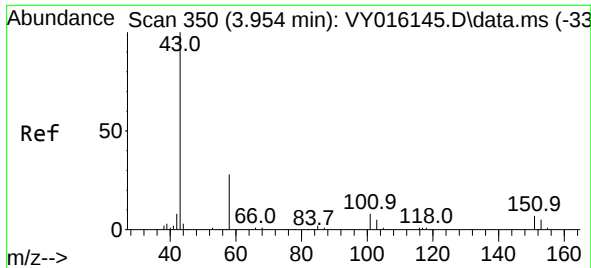
Tgt Ion:168 Resp: 121727
Ion Ratio Lower Upper
168 100
99 53.6 43.4 65.0



#8
Diethyl Ether
Concen: 6.448 ug/l
RT: 3.534 min Scan# 281
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion: 74 Resp: 3580
Ion Ratio Lower Upper
74 100
45 102.9 51.5 154.5





#16

Acetone

Concen: 122.221 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

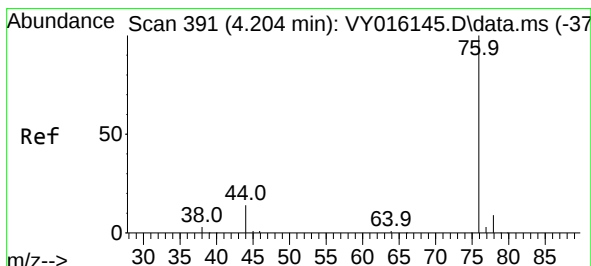
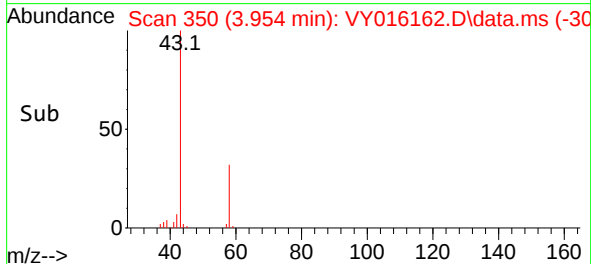
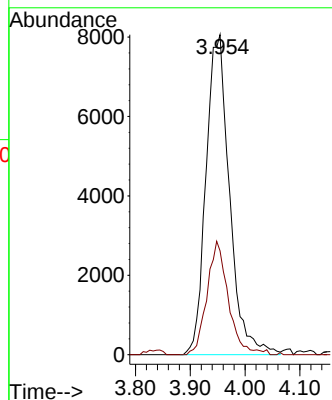
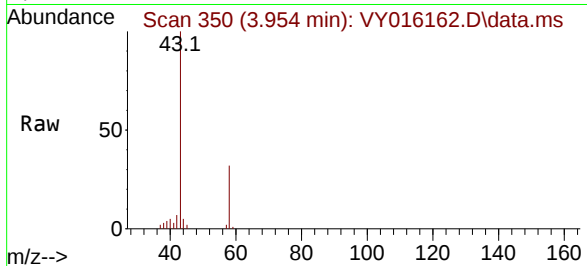
67S-SB08-1619

Tgt Ion: 43 Resp: 23996

Ion Ratio Lower Upper

43 100

58 32.5 22.7 34.1



#17

Carbon Disulfide

Concen: 1.920 ug/l

RT: 4.204 min Scan# 391

Delta R.T. 0.000 min

Lab File: VY016162.D

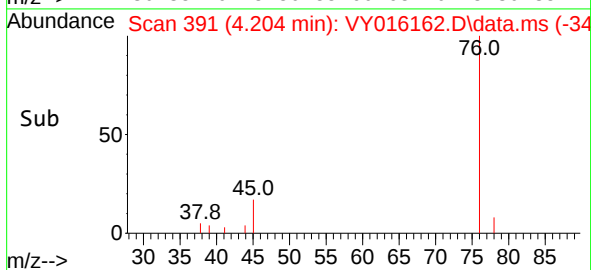
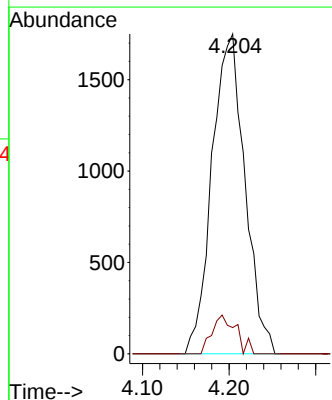
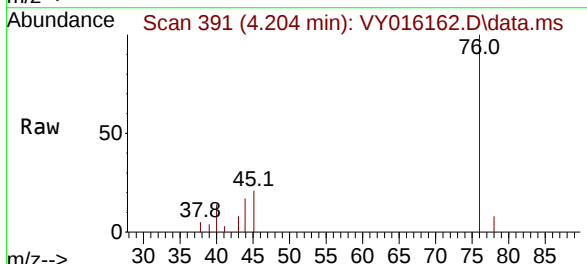
Acq: 01 Nov 2023 12:42

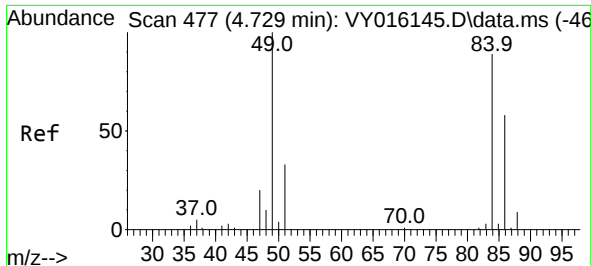
Tgt Ion: 76 Resp: 4616

Ion Ratio Lower Upper

76 100

78 8.2 7.0 10.4





#20

Methylene Chloride

Concen: 13.420 ug/l

RT: 4.716 min Scan# 41

Delta R.T. -0.013 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

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Tgt Ion: 84 Resp: 18129

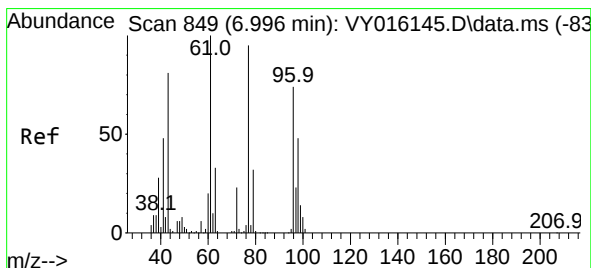
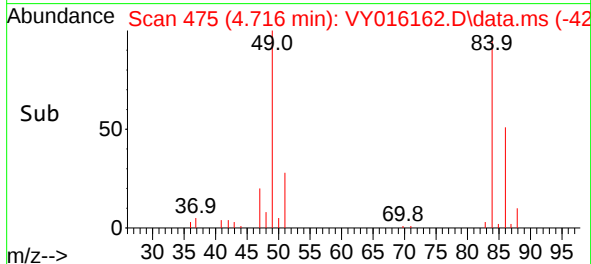
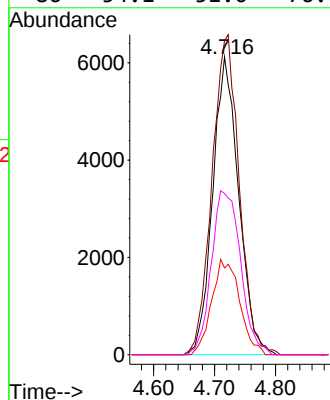
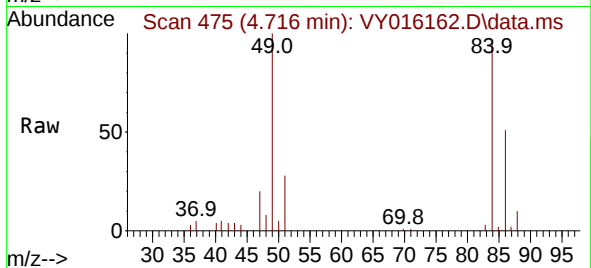
Ion Ratio Lower Upper

84 100

49 105.4 106.9 160.3#

51 29.1 33.2 49.8#

86 54.1 51.0 76.6



#25

2-Butanone

Concen: 19.475 ug/l

RT: 6.990 min Scan# 848

Delta R.T. -0.006 min

Lab File: VY016162.D

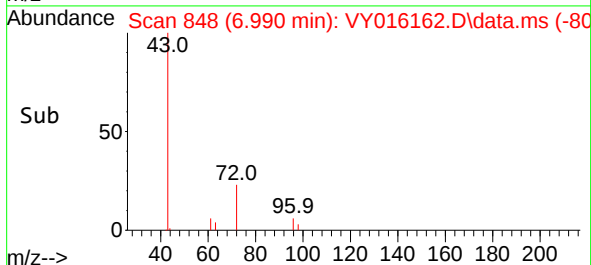
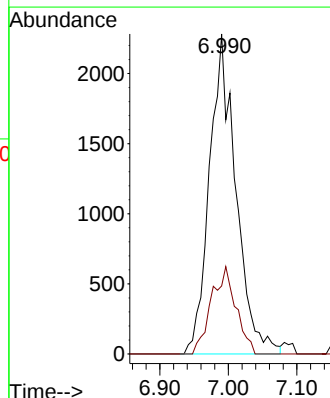
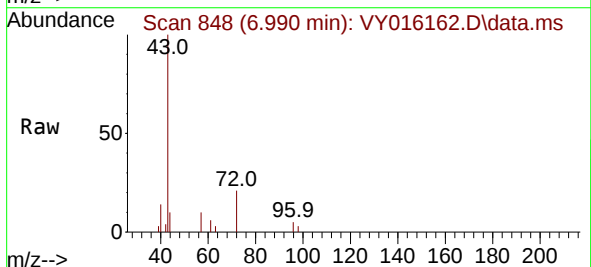
Acq: 01 Nov 2023 12:42

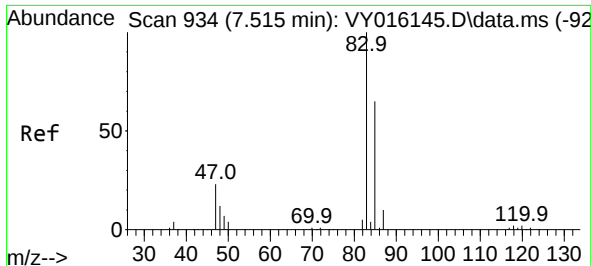
Tgt Ion: 43 Resp: 6120

Ion Ratio Lower Upper

43 100

72 21.3 20.5 30.7

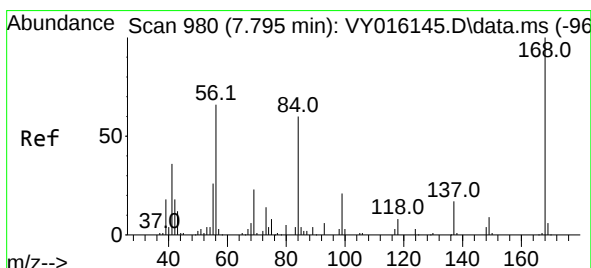
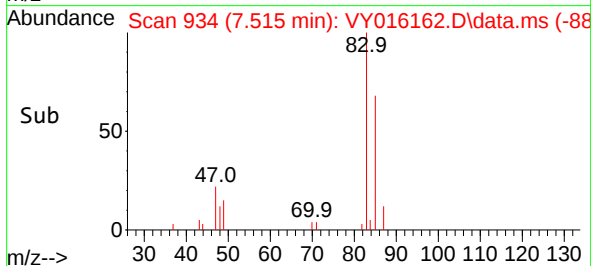
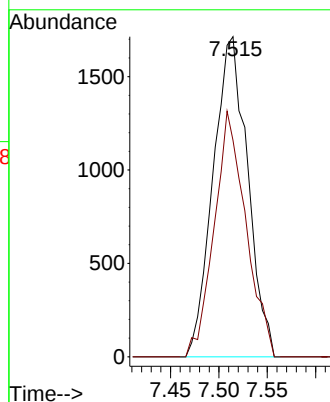
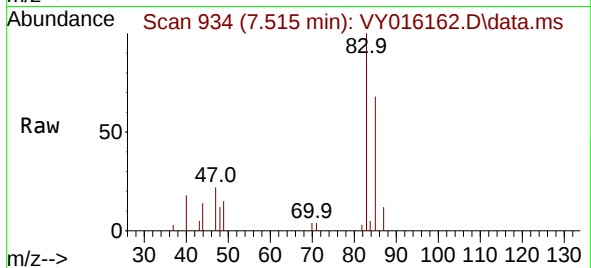




#30
Chloroform
Concen: 1.956 ug/l
RT: 7.515 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

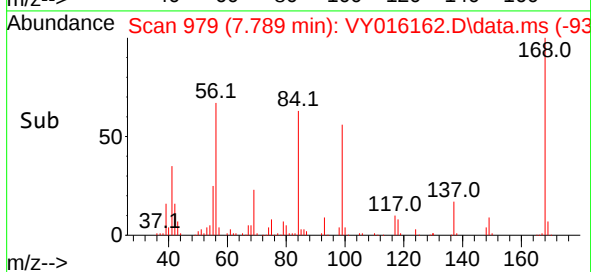
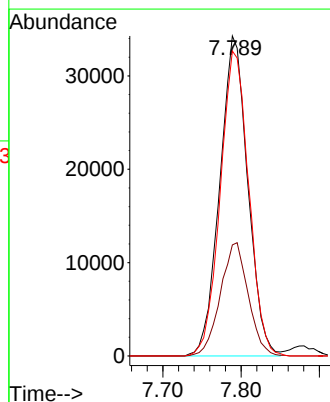
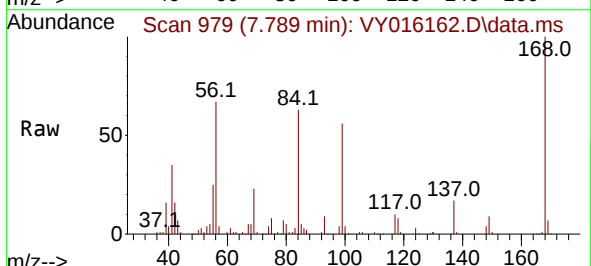
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

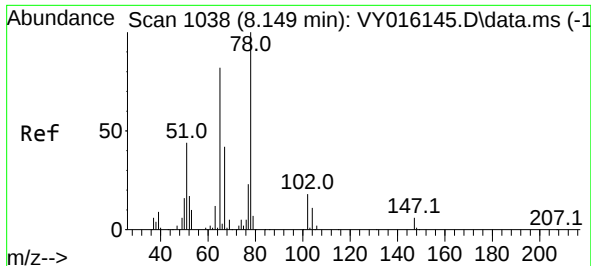
Tgt Ion: 83 Resp: 4248
Ion Ratio Lower Upper
83 100
85 67.6 49.7 74.5



#31
Cyclohexane
Concen: 48.712 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.006 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion: 56 Resp: 85294
Ion Ratio Lower Upper
56 100
69 34.7 27.8 41.6
84 95.3 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 55.987 ug/l

RT: 8.149 min Scan# 1103

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

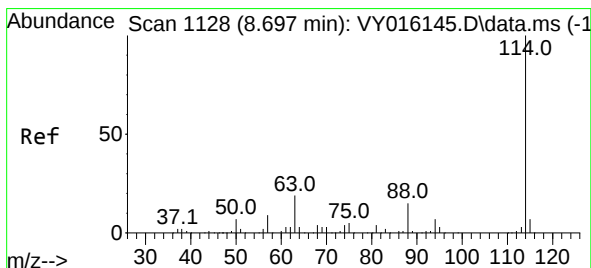
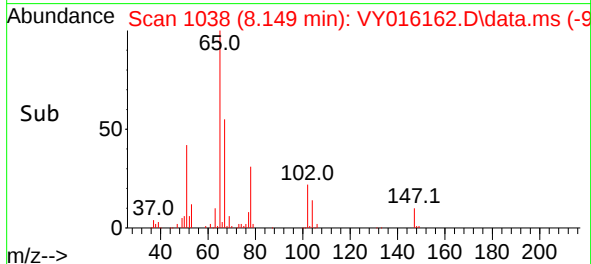
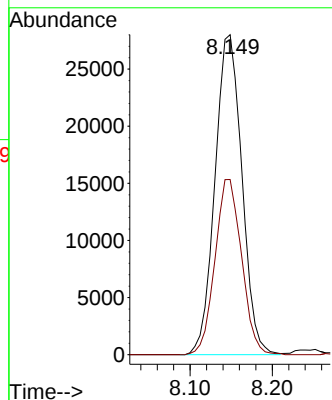
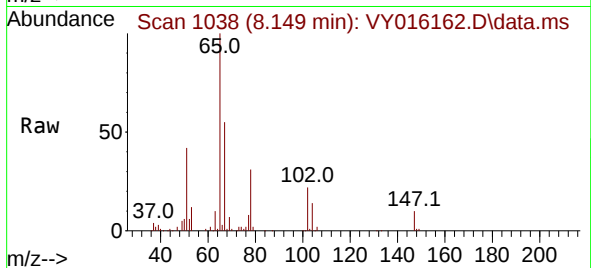
67S-SB08-1619

Tgt Ion: 65 Resp: 63771

Ion Ratio Lower Upper

65 100

67 54.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

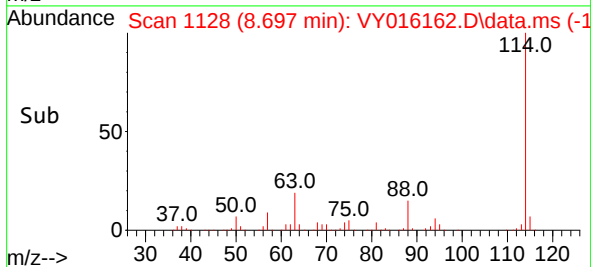
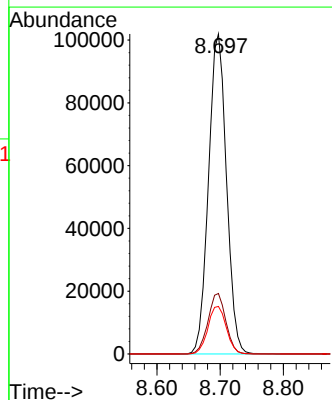
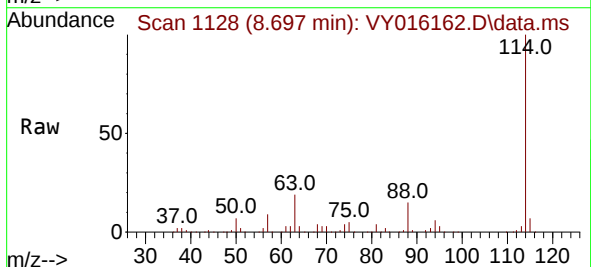
Tgt Ion: 114 Resp: 200899

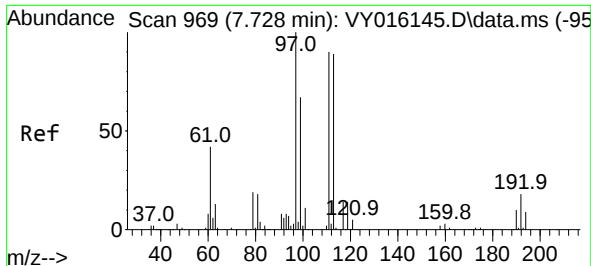
Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 14.9 0.0 30.6

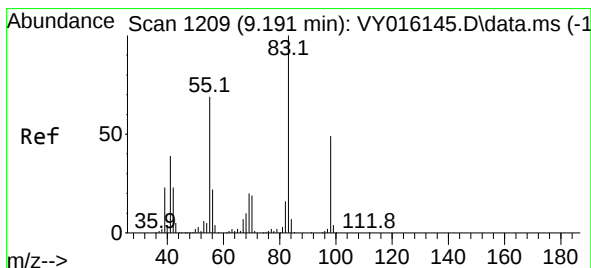
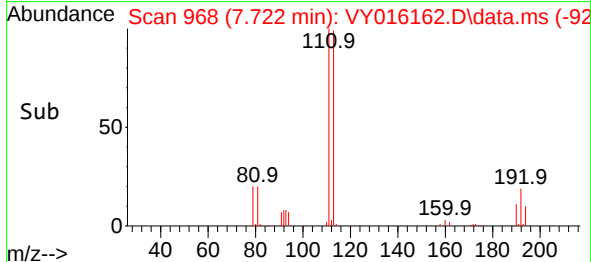
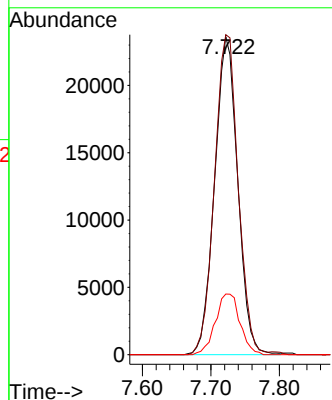
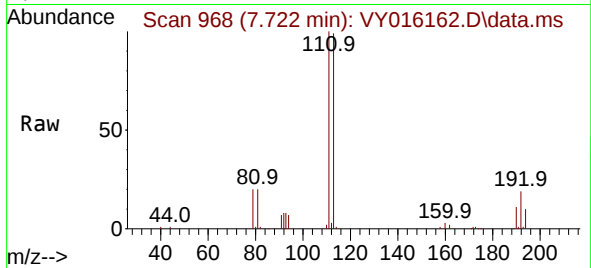




#35
Dibromofluoromethane
Concen: 46.118 ug/l
RT: 7.722 min Scan# 968
Delta R.T. -0.006 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

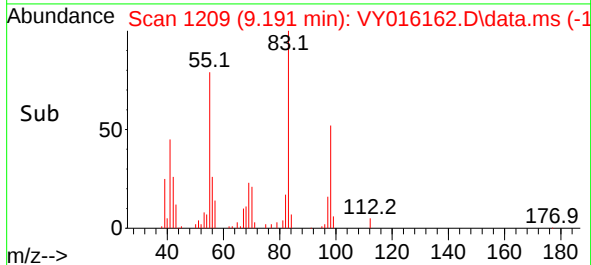
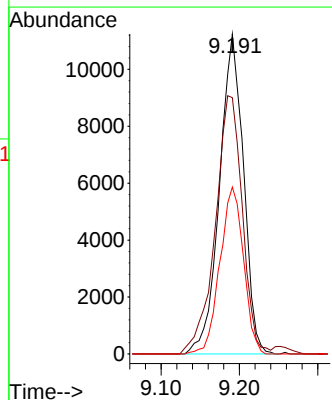
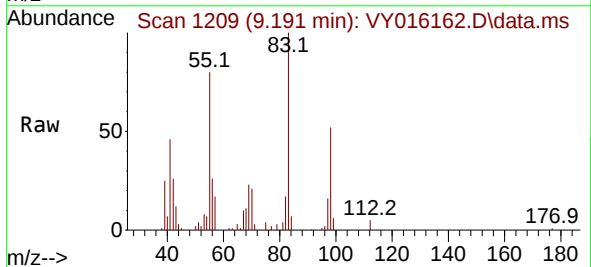
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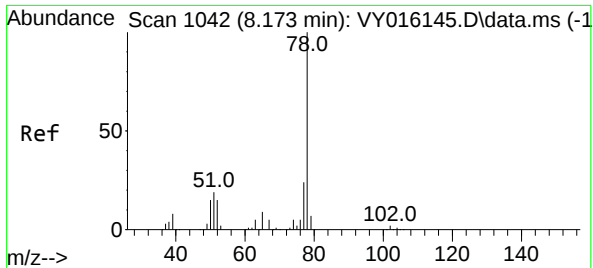
Tgt Ion:	113	Resp:	55235
Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.3	121.9
192	20.3	16.9	25.3



#39
Methylcyclohexane
Concen: 11.573 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion:	83	Resp:	23892
Ion	Ratio	Lower	Upper
83	100		
55	80.1	63.0	94.4
98	52.2	37.4	56.2

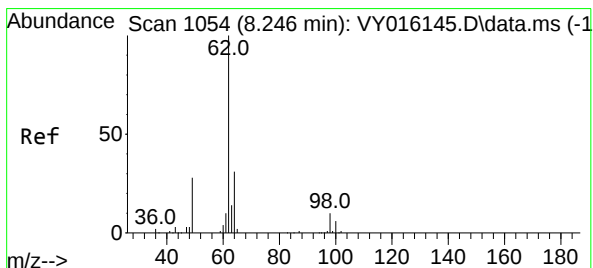
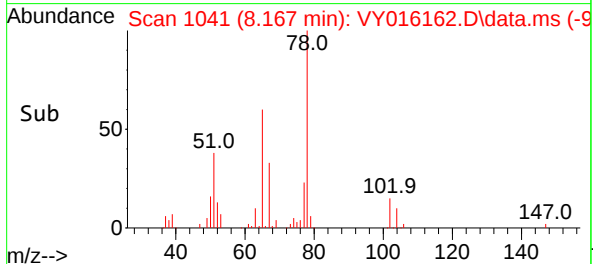
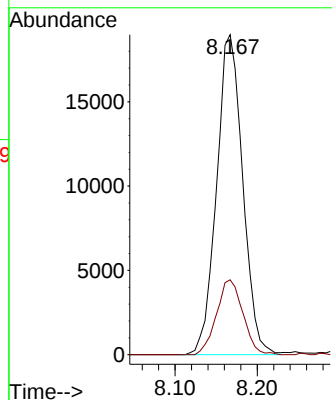
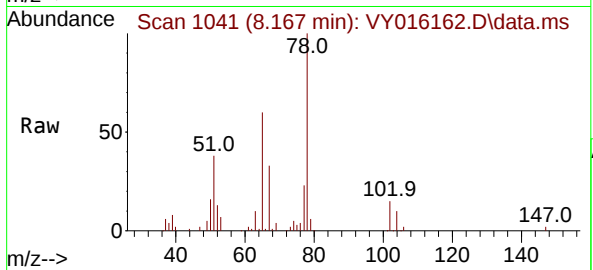




#40
Benzene
Concen: 8.441 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

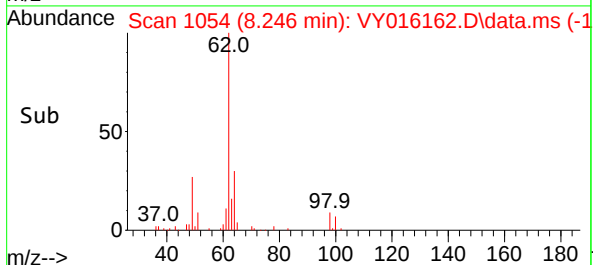
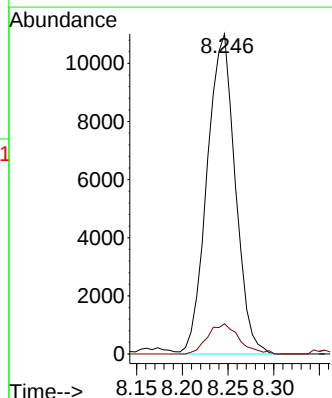
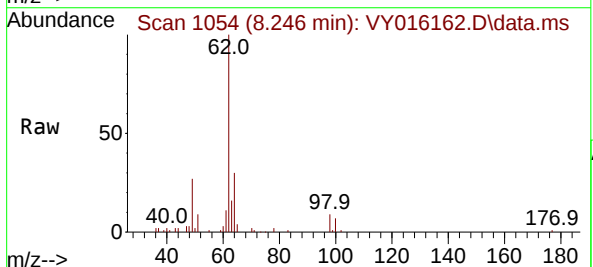
Instrument :
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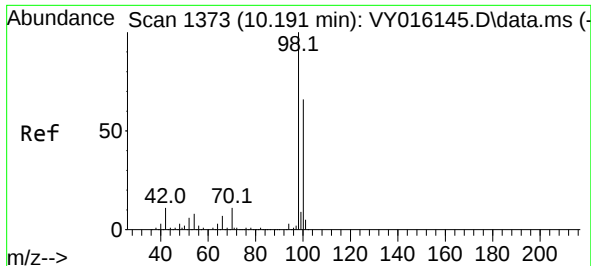
Tgt Ion: 78 Resp: 41909
Ion Ratio Lower Upper
78 100
77 23.4 19.0 28.6



#42
1,2-Dichloroethane
Concen: 17.005 ug/l
RT: 8.246 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion: 62 Resp: 23562
Ion Ratio Lower Upper
62 100
98 10.5 0.0 15.8

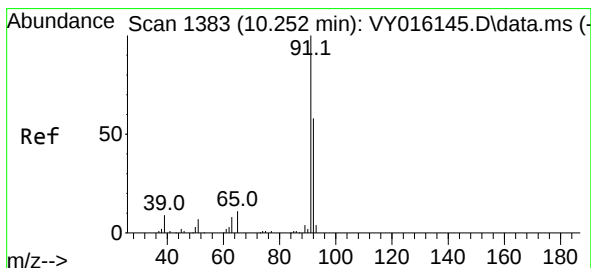
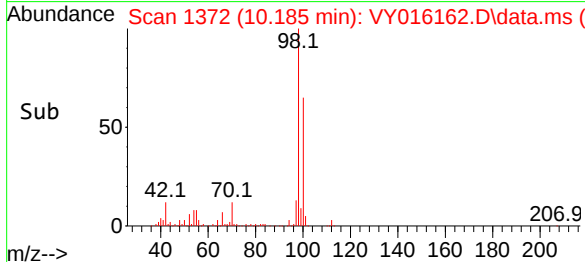
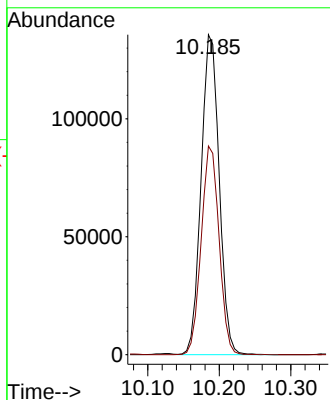
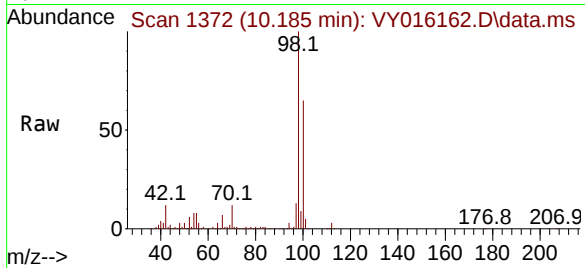




#50
Toluene-d8
Concen: 50.155 ug/l
RT: 10.185 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

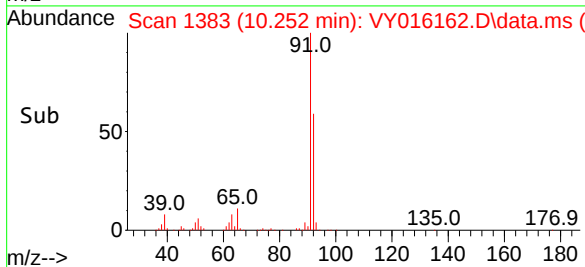
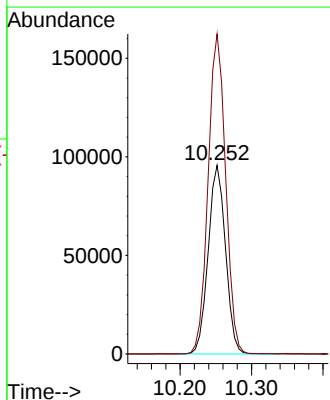
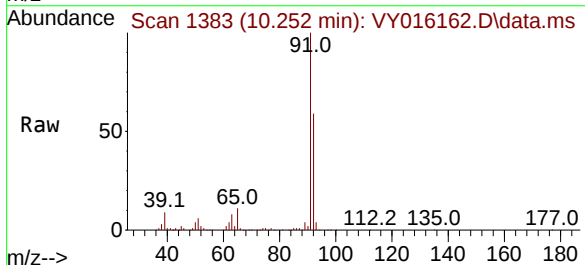
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

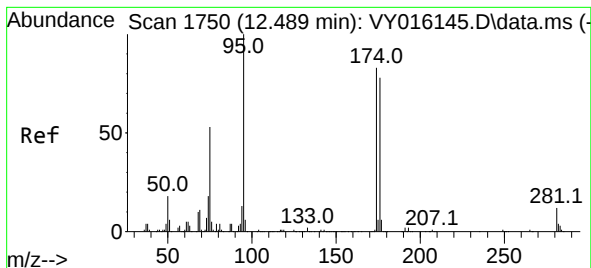
Tgt Ion: 98 Resp: 238167
Ion Ratio Lower Upper
98 100
100 64.4 50.1 75.1



#52
Toluene
Concen: 50.058 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion: 92 Resp: 161057
Ion Ratio Lower Upper
92 100
91 171.1 143.8 215.6

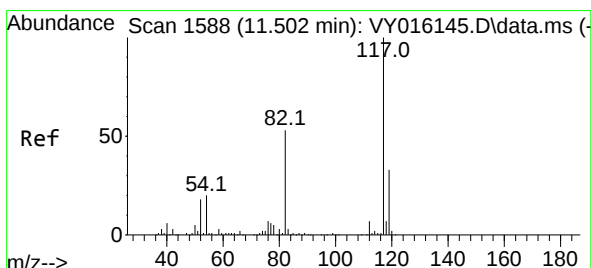
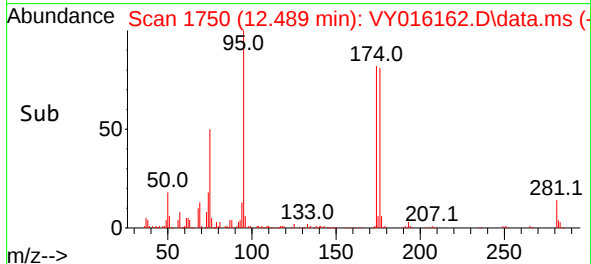
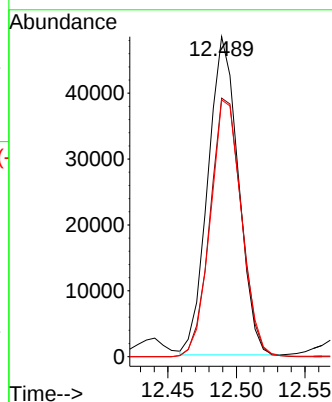
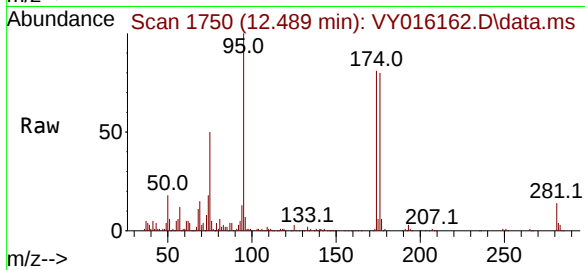




#62
4-Bromofluorobenzene
Concen: 46.075 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

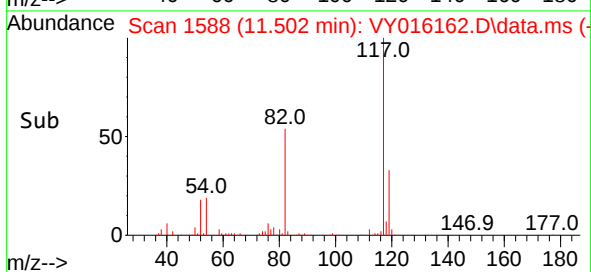
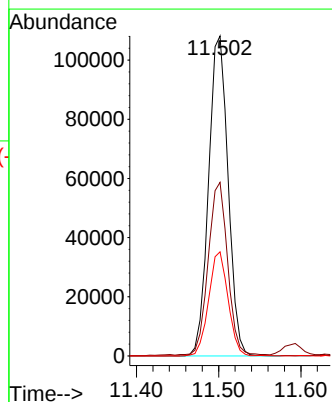
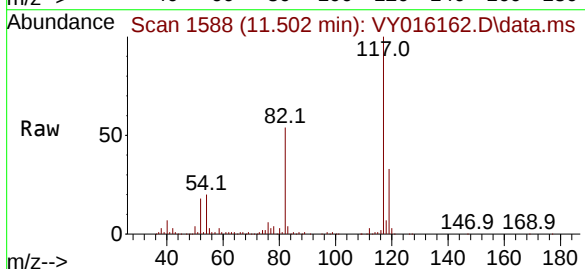
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

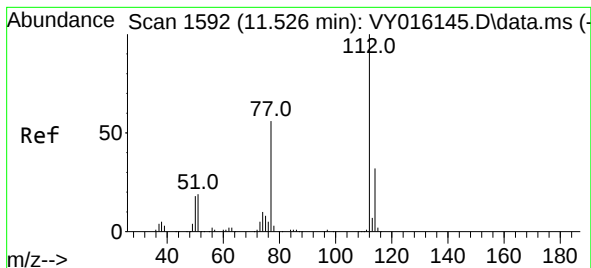
Tgt Ion: 95 Resp: 74816
Ion Ratio Lower Upper
95 100
174 83.5 0.0 178.2
176 82.5 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.502 min Scan# 1588
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion: 117 Resp: 177850
Ion Ratio Lower Upper
117 100
82 53.8 43.4 65.0
119 32.6 26.3 39.5





#65

Chlorobenzene

Concen: 18.346 ug/l

RT: 11.526 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

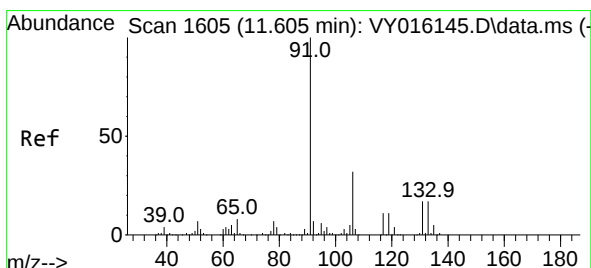
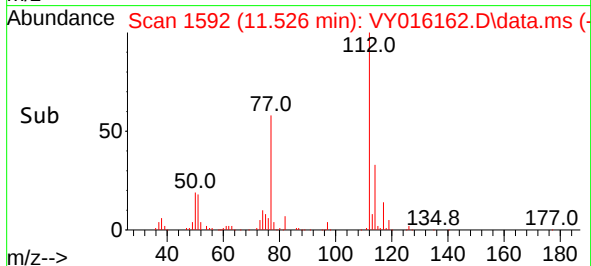
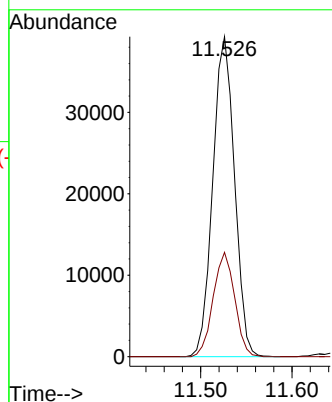
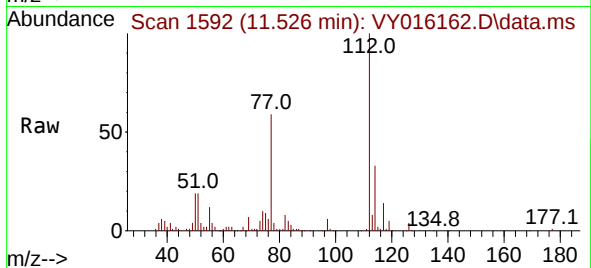
67S-SB08-1619

Tgt Ion:112 Resp: 64825

Ion Ratio Lower Upper

112 100

114 32.6 25.5 38.3



#67

Ethyl Benzene

Concen: 55.894 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. -0.006 min

Lab File: VY016162.D

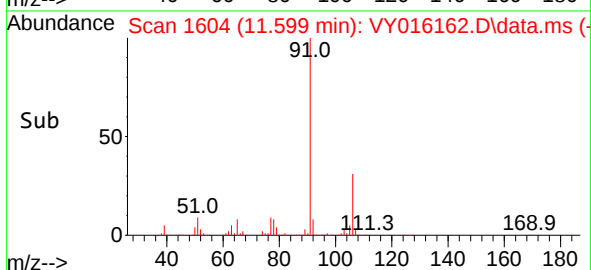
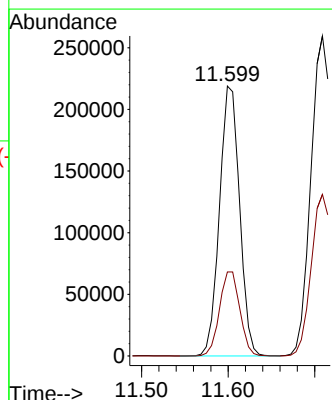
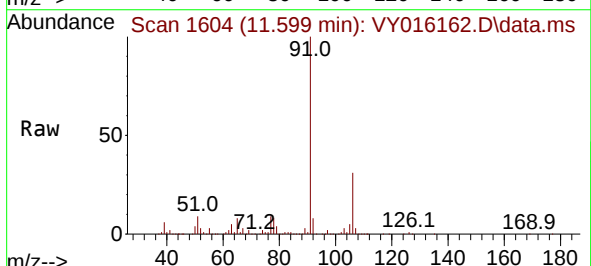
Acq: 01 Nov 2023 12:42

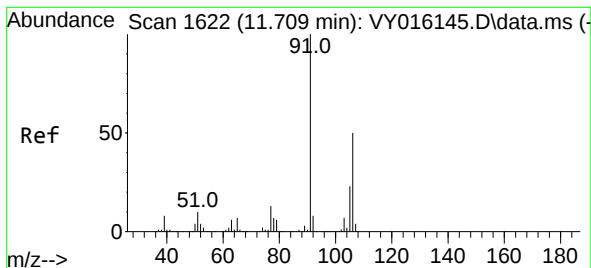
Tgt Ion: 91 Resp: 353251

Ion Ratio Lower Upper

91 100

106 31.1 24.6 36.8





#68

m/p-Xylenes

Concen: 96.739 ug/l

RT: 11.709 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

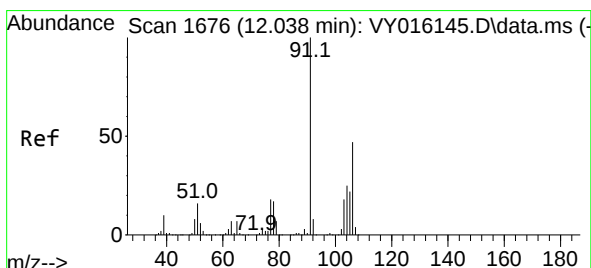
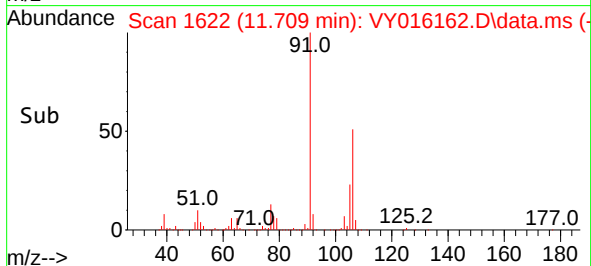
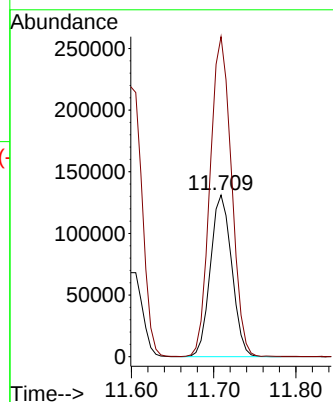
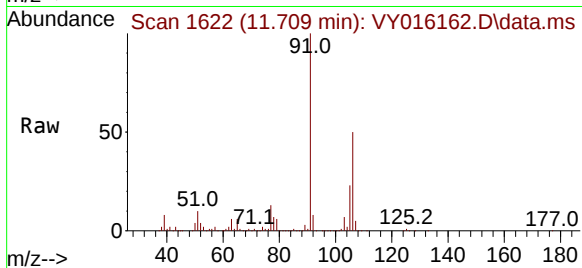
67S-SB08-1619

Tgt Ion:106 Resp: 236252

Ion Ratio Lower Upper

106 100

91 199.5 166.1 249.1



#69

o-Xylene

Concen: 37.200 ug/l

RT: 12.038 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VY016162.D

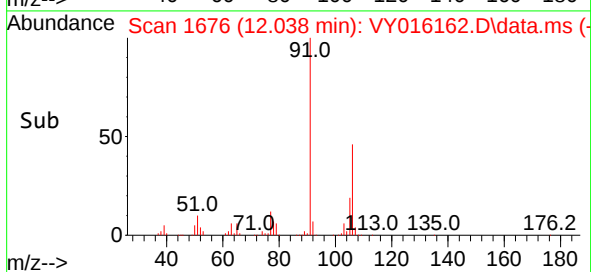
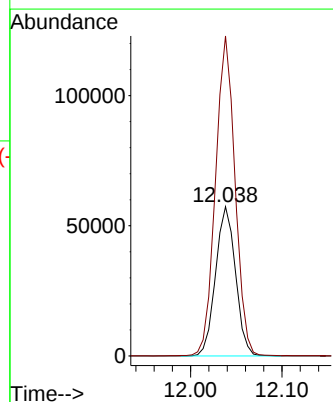
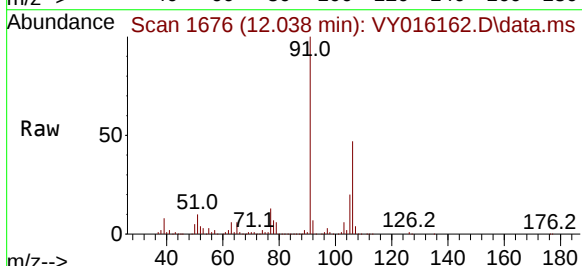
Acq: 01 Nov 2023 12:42

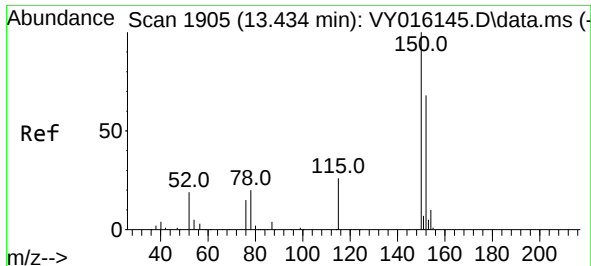
Tgt Ion:106 Resp: 86741

Ion Ratio Lower Upper

106 100

91 211.1 108.1 324.3

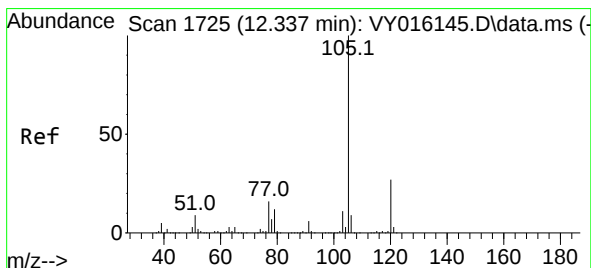
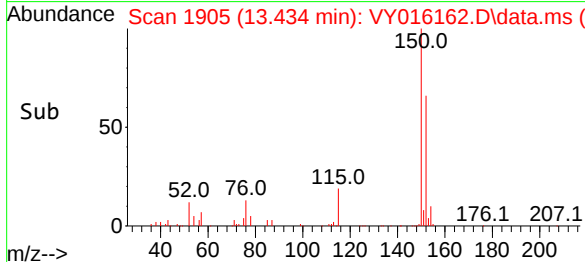
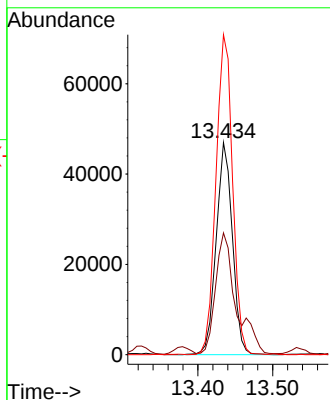
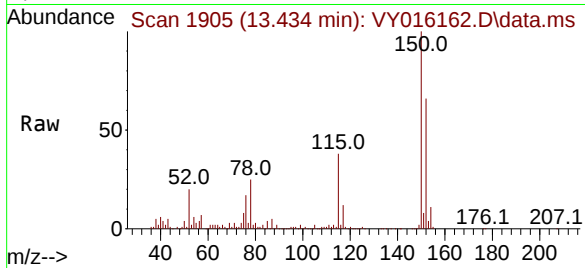




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

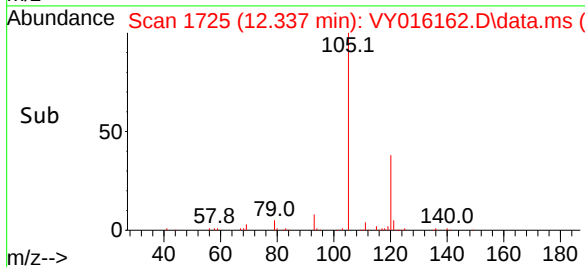
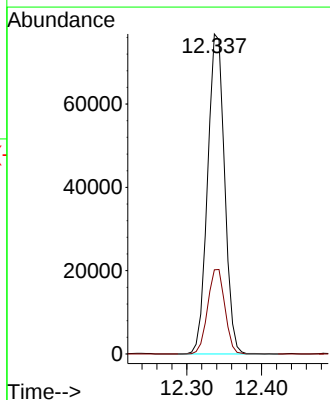
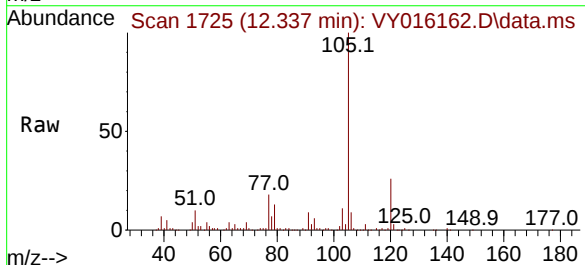
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

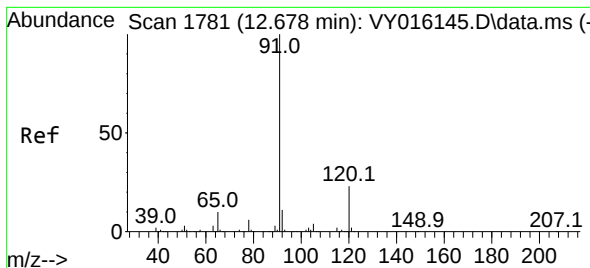
Tgt Ion:152 Resp: 70881
Ion Ratio Lower Upper
152 100
115 71.2 28.8 86.5
150 154.7 0.0 348.8



#73
Isopropylbenzene
Concen: 22.838 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion:105 Resp: 121428
Ion Ratio Lower Upper
105 100
120 26.7 13.3 39.9





#78

n-propylbenzene

Concen: 31.282 ug/l

RT: 12.678 min Scan# 1781

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

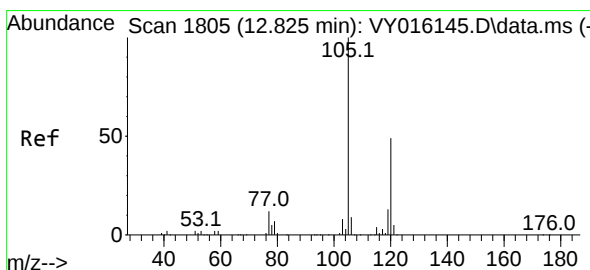
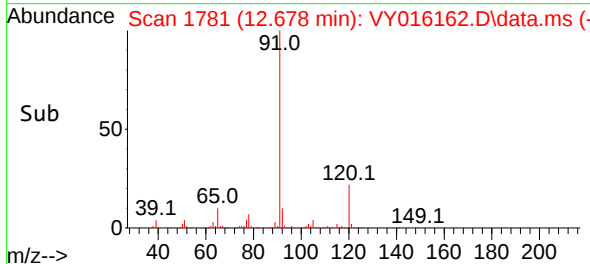
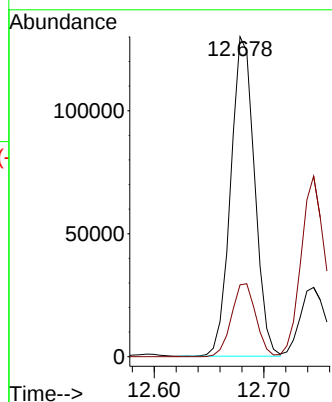
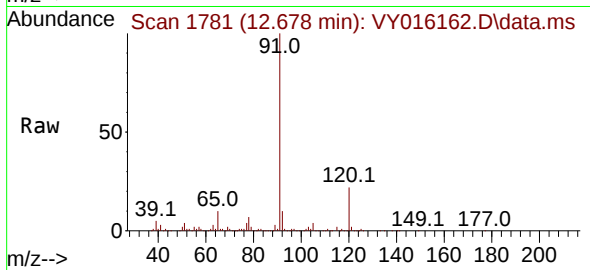
67S-SB08-1619

Tgt Ion: 91 Resp: 196639

Ion Ratio Lower Upper

91 100

120 23.3 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 37.047 ug/l

RT: 12.825 min Scan# 1805

Delta R.T. -0.000 min

Lab File: VY016162.D

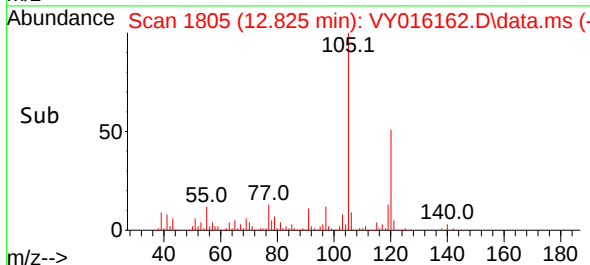
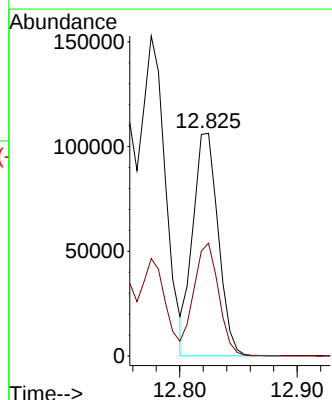
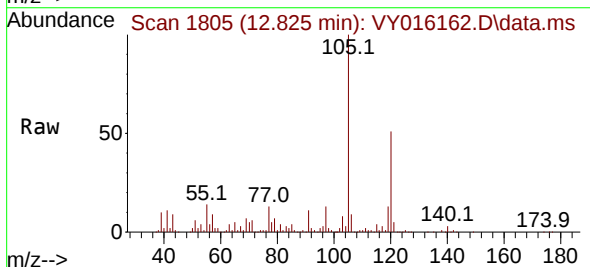
Acq: 01 Nov 2023 12:42

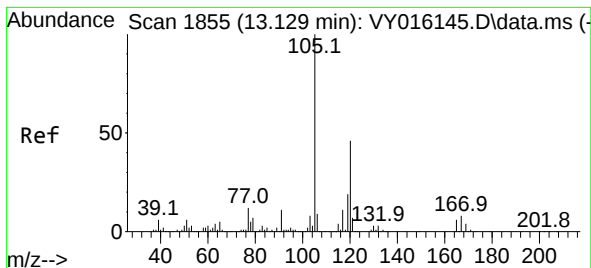
Tgt Ion: 105 Resp: 159584

Ion Ratio Lower Upper

105 100

120 49.9 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 123.859 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

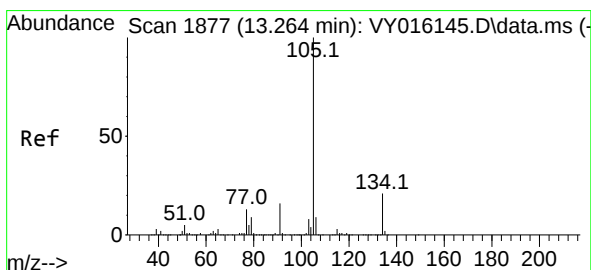
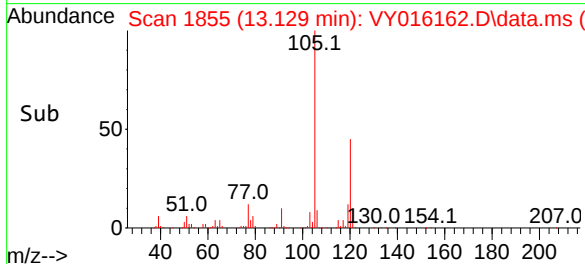
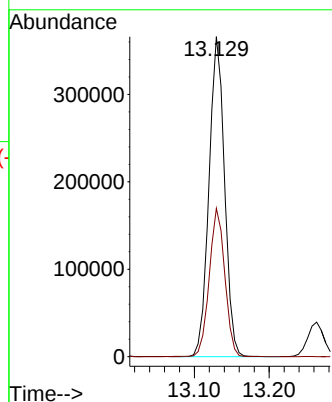
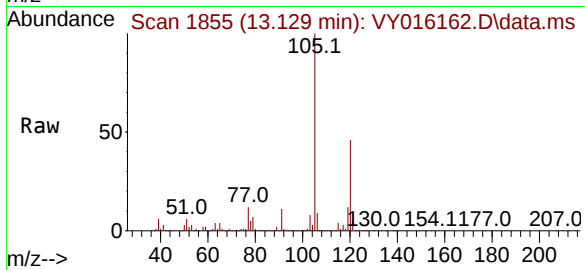
67S-SB08-1619

Tgt Ion:105 Resp: 527936

Ion Ratio Lower Upper

105 100

120 46.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 10.417 ug/l

RT: 13.263 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VY016162.D

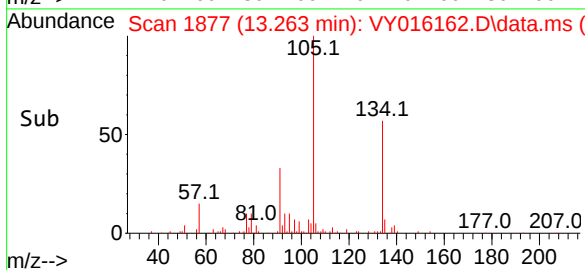
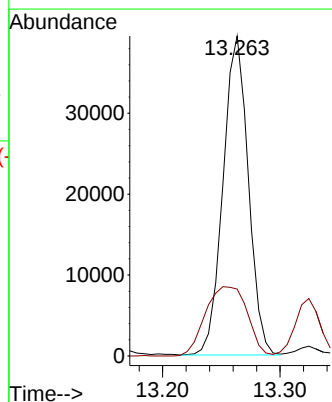
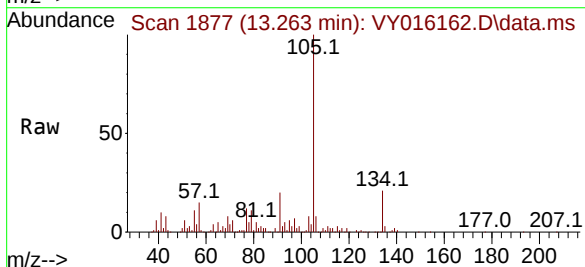
Acq: 01 Nov 2023 12:42

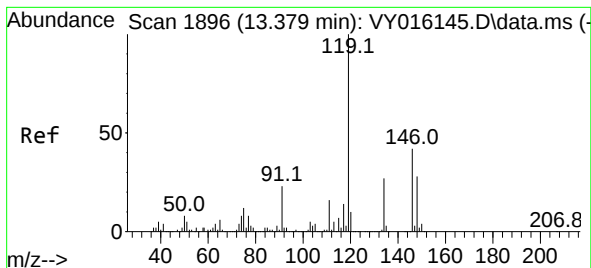
Tgt Ion:105 Resp: 58932

Ion Ratio Lower Upper

105 100

134 36.0 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 6.849 ug/l

RT: 13.379 min Scan# 1896

Delta R.T. -0.000 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB08-1619

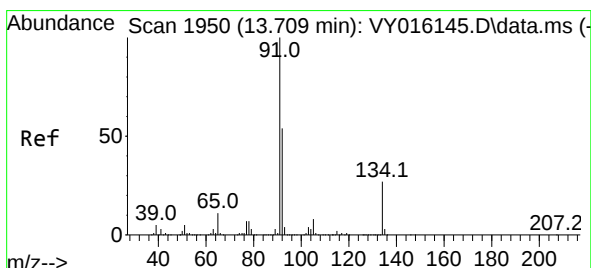
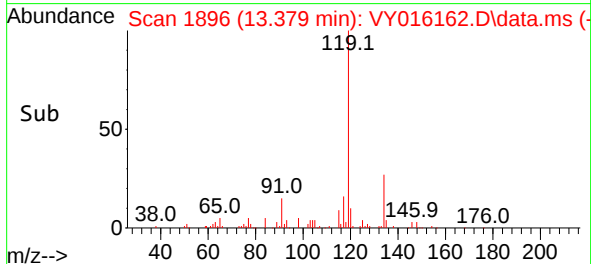
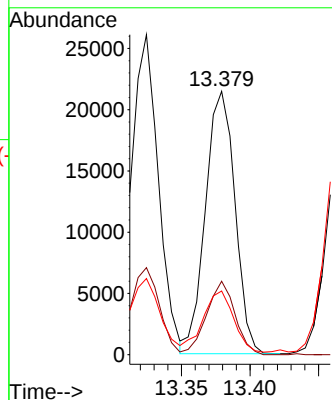
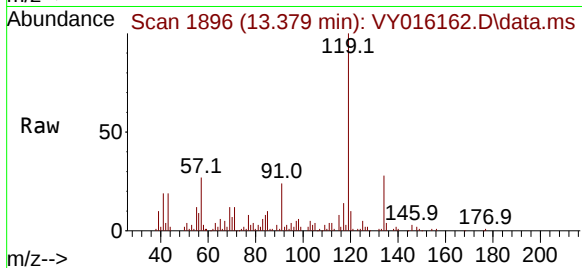
Tgt Ion:119 Resp: 32112

Ion Ratio Lower Upper

119 100

134 27.0 13.3 39.8

91 24.0 12.4 37.4



#89

n-Butylbenzene

Concen: 17.203 ug/l

RT: 13.702 min Scan# 1949

Delta R.T. -0.006 min

Lab File: VY016162.D

Acq: 01 Nov 2023 12:42

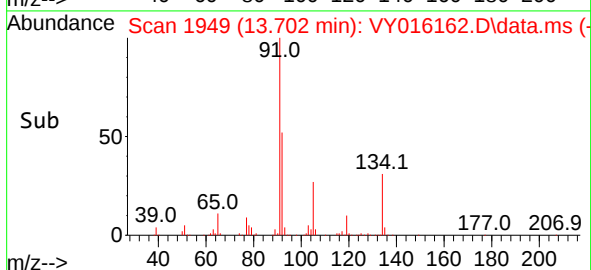
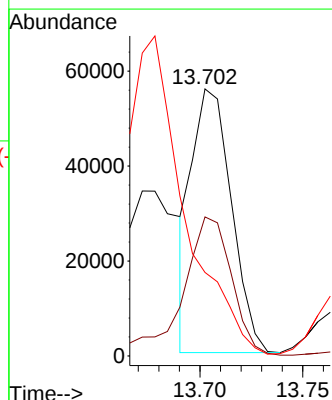
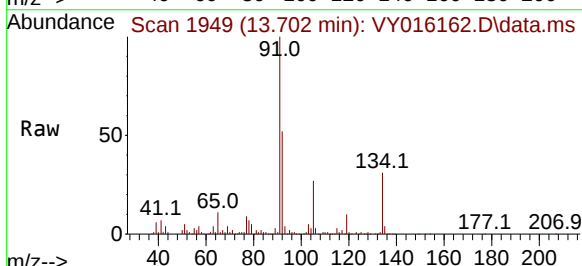
Tgt Ion: 91 Resp: 74109

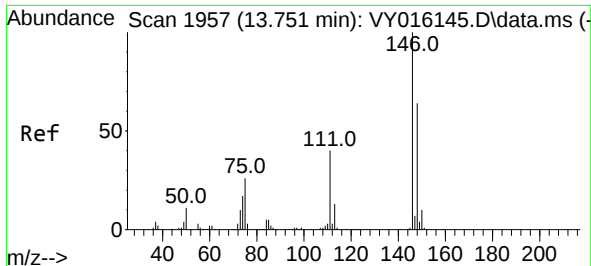
Ion Ratio Lower Upper

91 100

92 65.7 25.4 76.0

134 0.0 12.6 37.6#

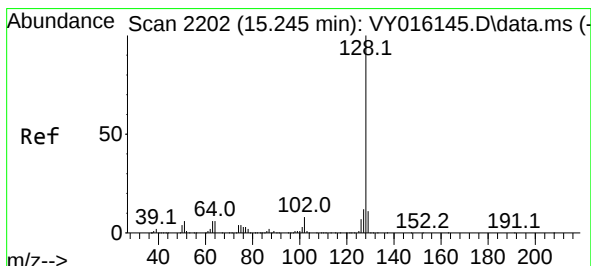
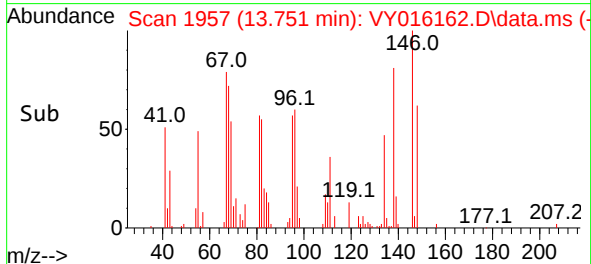
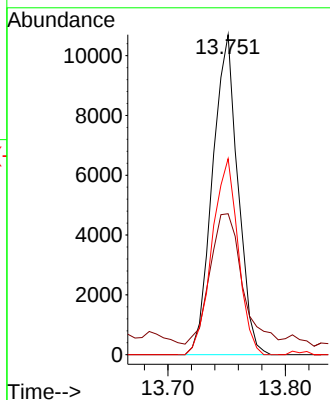
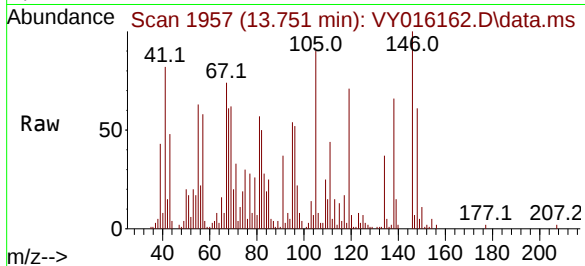




#91
1,2-Dichlorobenzene
Concen: 7.805 ug/l
RT: 13.751 min Scan# 1957
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Instrument :
MSVOA_Y
ClientSampleId :
67S-SB08-1619

Tgt Ion:146	Resp:	16057
Ion Ratio	Lower	Upper
146	100	
111	51.5	19.7 59.0
148	63.0	32.0 96.2



#95
Naphthalene
Concen: 91.925 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY016162.D
Acq: 01 Nov 2023 12:42

Tgt Ion:128	Resp:	226758
Ion Ratio	Lower	Upper
128	100	
127	13.0	10.8 16.2
129	11.3	8.6 13.0

