

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110123\
 Data File : VY016172.D
 Acq On : 01 Nov 2023 16:37
 Operator : SY/MD
 Sample : 05102-02
 Misc : 3.70g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 67S-SB02-0815

Quant Time: Nov 02 02:28:26 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	7.801	168	136885	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.703	114	230820	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.502	117	213668	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	101074	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	76212	59.500	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	119.000%
35) Dibromofluoromethane	7.728	113	62126	45.147	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.300%
50) Toluene-d8	10.191	98	301133	55.194	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	110.380%
62) 4-Bromofluorobenzene	12.489	95	108422	58.116	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	116.240%

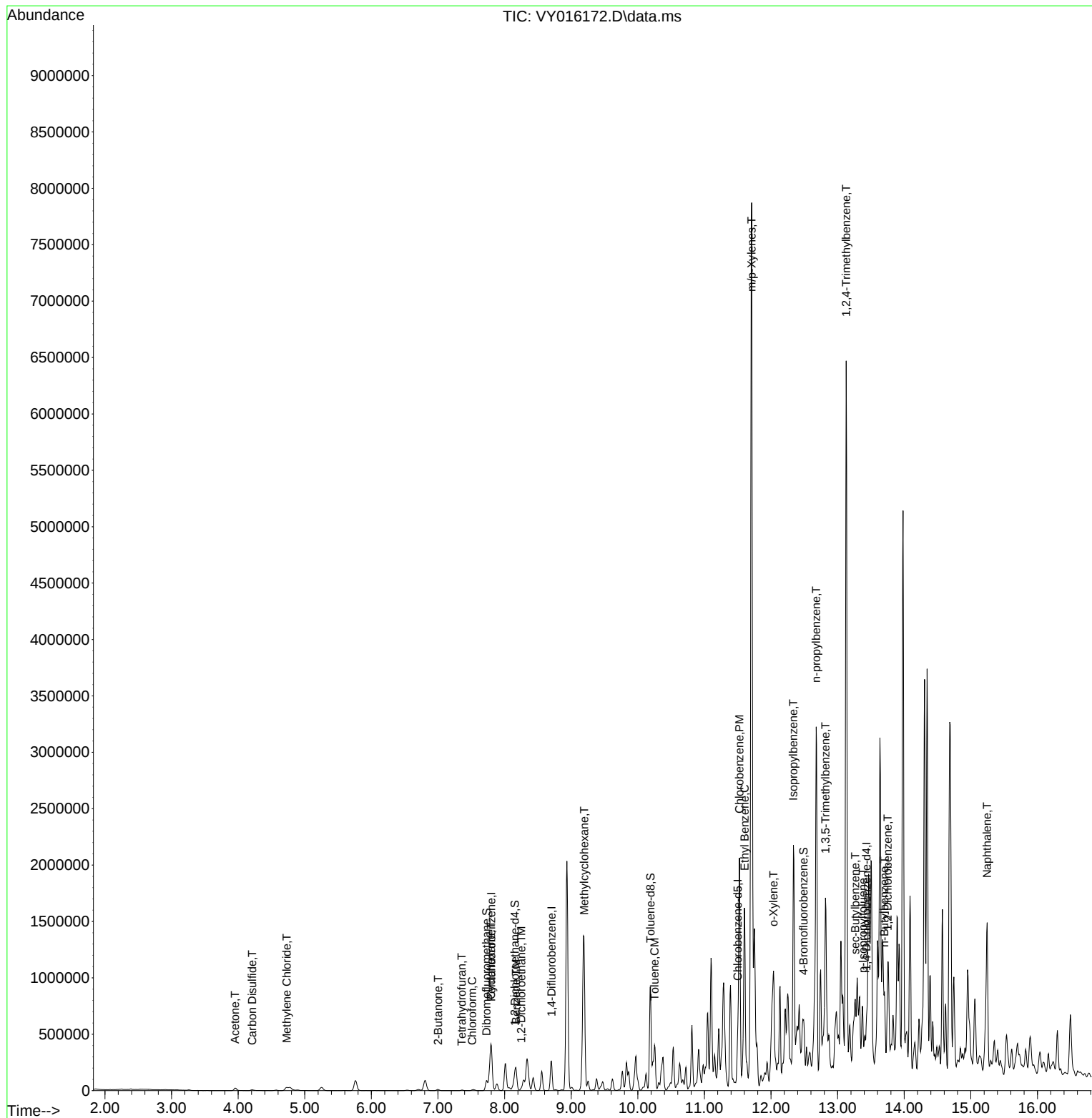
Target Compounds					Qvalue
16) Acetone	3.954	43	35775	168.768	ug/l 93
17) Carbon Disulfide	4.210	76	11814	4.369	ug/l 98
20) Methylene Chloride	4.729	84	18755	12.087	ug/l 90
25) 2-Butanone	7.002	43	14760	41.768	ug/l 90
29) Tetrahydrofuran	7.356	42	3867	17.457	ug/l 88
30) Chloroform	7.515	83	4836	1.981	ug/l 90
31) Cyclohexane	7.795	56	137161	69.660	ug/l 94
39) Methylcyclohexane	9.197	83	332209	140.062	ug/l # 63
40) Benzene	8.173	78	156080	27.360	ug/l 100
42) 1,2-Dichloroethane	8.252	62	12925	8.119	ug/l 97
52) Toluene	10.252	92	162879	44.062	ug/l 95
65) Chlorobenzene	11.526	112	1021791	240.700	ug/l 99
67) Ethyl Benzene	11.605	91	968615	127.570	ug/l 98
68) m/p-Xylenes	11.709	106	2214469	754.764	ug/l 94
69) o-Xylene	12.038	106	215733	77.011	ug/l 97
73) Isopropylbenzene	12.337	105	1224690	161.530	ug/l 99
78) n-propylbenzene	12.678	91	2358744	263.144	ug/l 99
80) 1,3,5-Trimethylbenzene	12.819	105	420287	68.422	ug/l 98
84) 1,2,4-Trimethylbenzene	13.129	105	3298746	542.730	ug/l 96
85) sec-Butylbenzene	13.264	105	265880	32.960	ug/l # 68
86) p-Isopropyltoluene	13.379	119	91772	13.727	ug/l 98
89) n-Butylbenzene	13.703	91	436977	71.133	ug/l # 76
91) 1,2-Dichlorobenzene	13.751	146	121095	41.279	ug/l 87
95) Naphthalene	15.245	128	1072565	304.919	ug/l 99

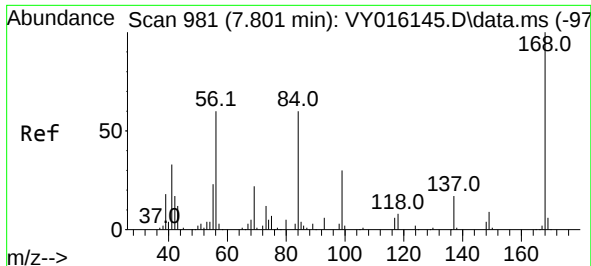
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

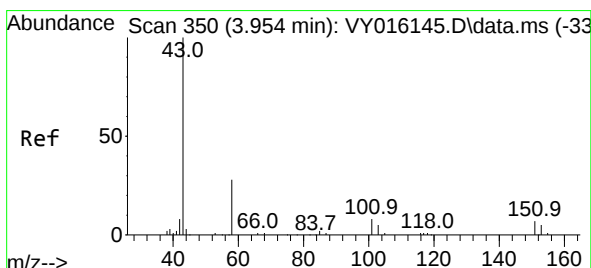
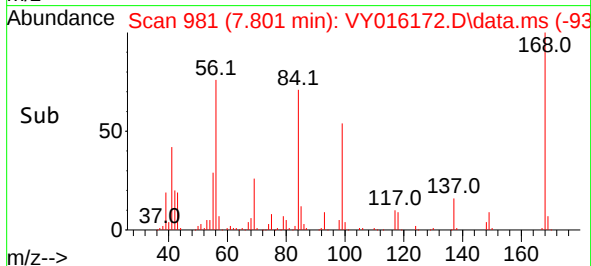
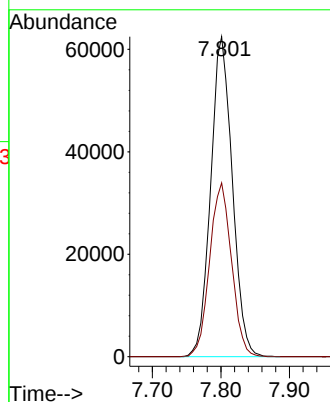
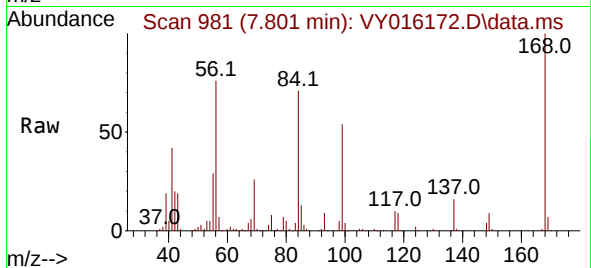




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

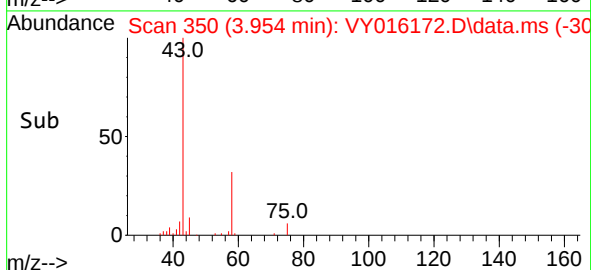
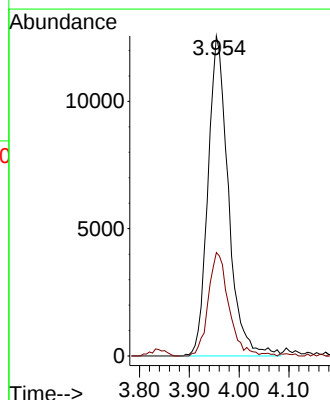
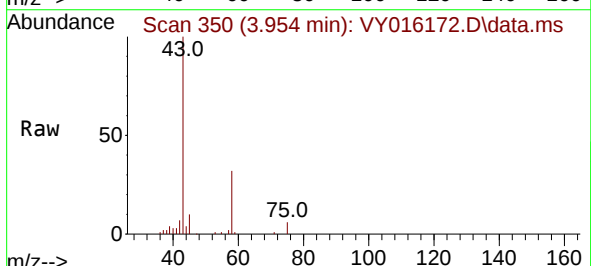
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

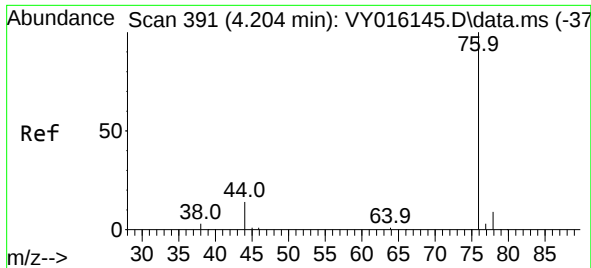
Tgt Ion:168 Resp: 136885
Ion Ratio Lower Upper
168 100
99 54.3 43.4 65.0



#16
Acetone
Concen: 168.768 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 43 Resp: 35775
Ion Ratio Lower Upper
43 100
58 32.3 22.7 34.1





#17

Carbon Disulfide

Concen: 4.369 ug/l

RT: 4.210 min Scan# 391

Delta R.T. 0.006 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Instrument :

MSVOA_Y

ClientSampleId :

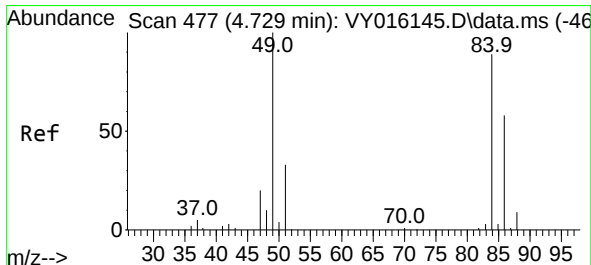
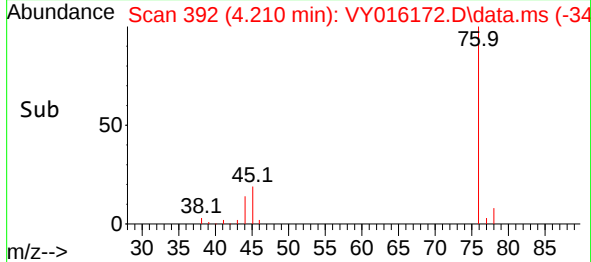
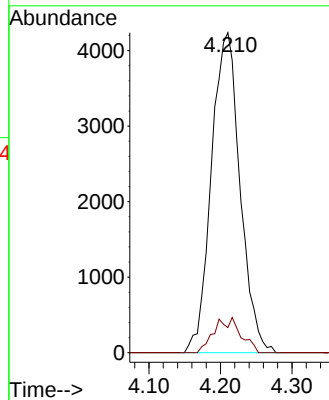
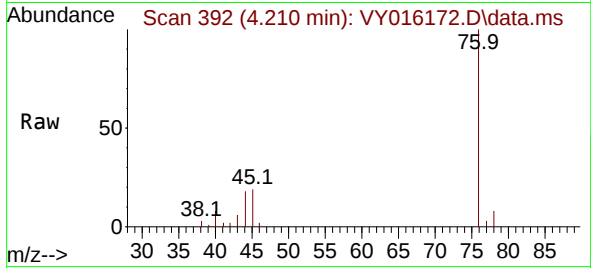
67S-SB02-0815

Tgt Ion: 76 Resp: 11814

Ion Ratio Lower Upper

76 100

78 7.8 7.0 10.4



#20

Methylene Chloride

Concen: 12.087 ug/l

RT: 4.729 min Scan# 477

Delta R.T. -0.000 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Tgt Ion: 84 Resp: 18755

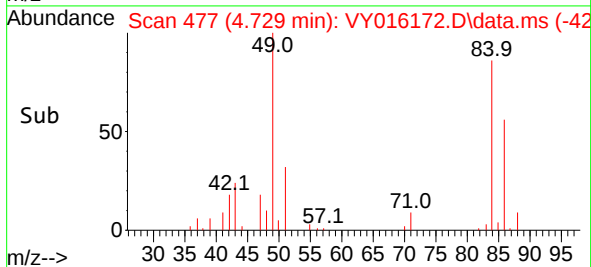
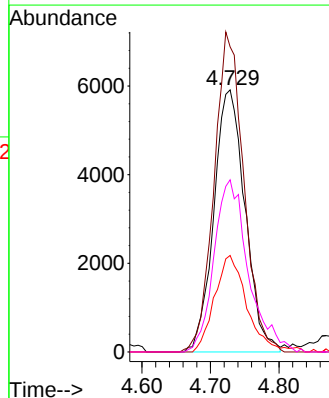
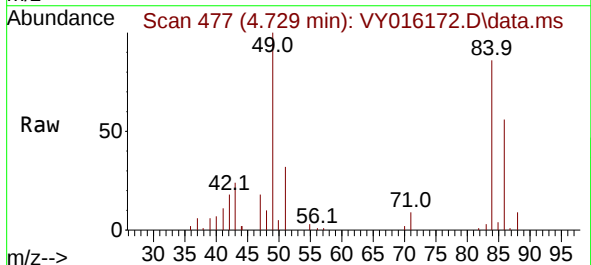
Ion Ratio Lower Upper

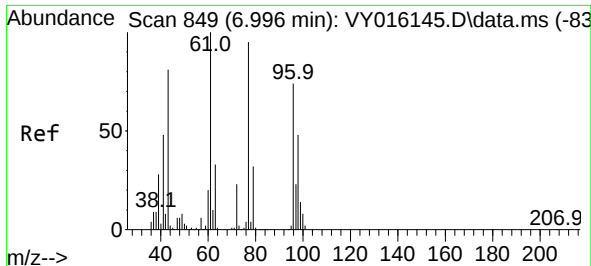
84 100

49 116.4 106.9 160.3

51 36.8 33.2 49.8

86 65.7 51.0 76.6

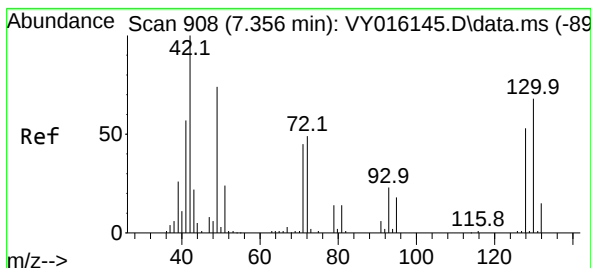
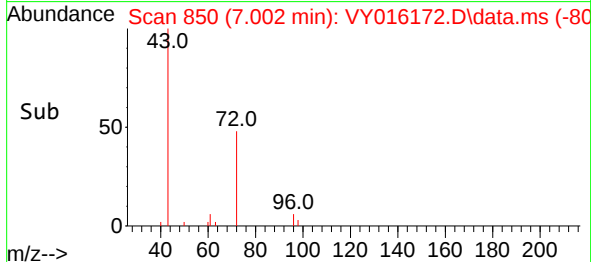
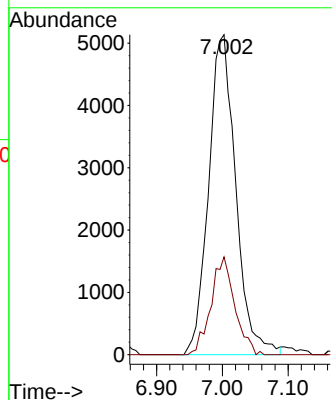
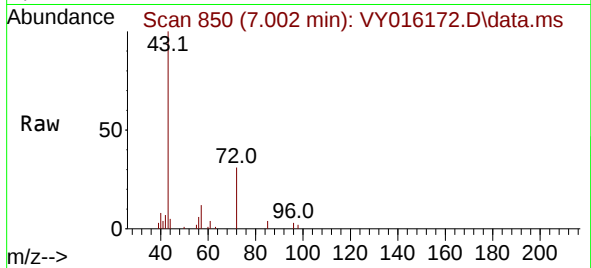




#25
2-Butanone
Concen: 41.768 ug/l
RT: 7.002 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

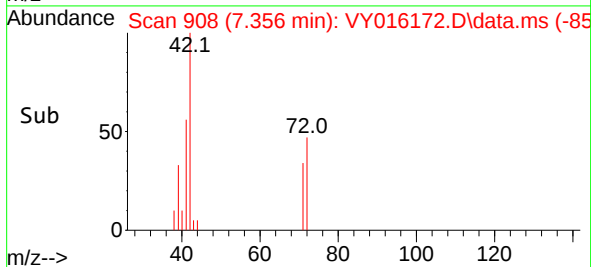
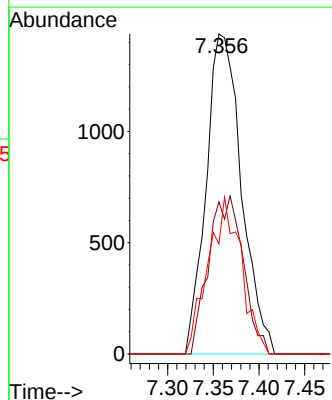
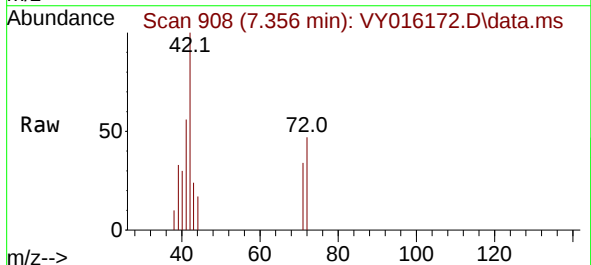
Instrument :
MSVOA_Y
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67S-SB02-0815

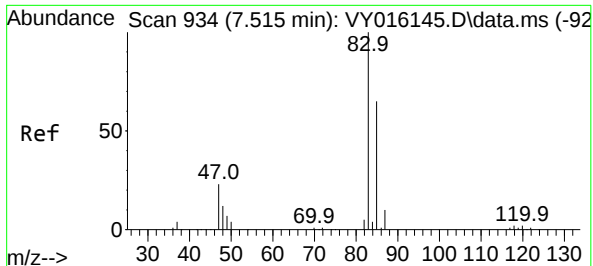
Tgt Ion: 43 Resp: 14760
Ion Ratio Lower Upper
43 100
72 30.5 20.5 30.7



#29
Tetrahydrofuran
Concen: 17.457 ug/l
RT: 7.356 min Scan# 908
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 42 Resp: 3867
Ion Ratio Lower Upper
42 100
72 48.5 32.8 49.2
71 45.7 31.0 46.4

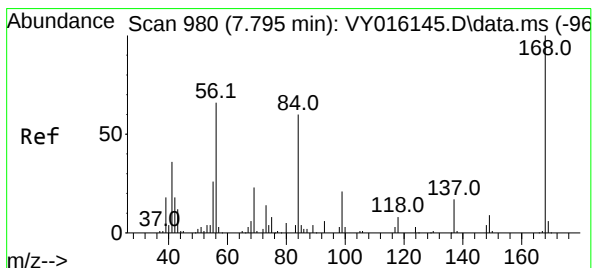
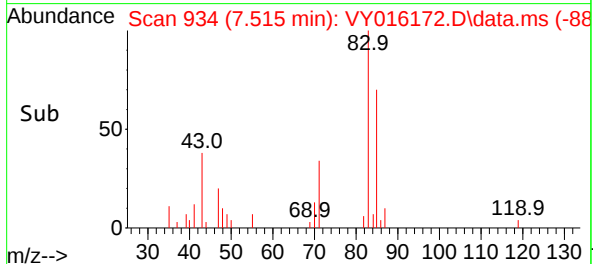
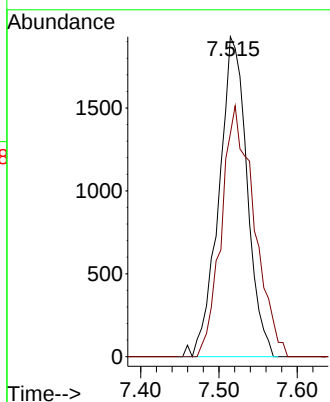
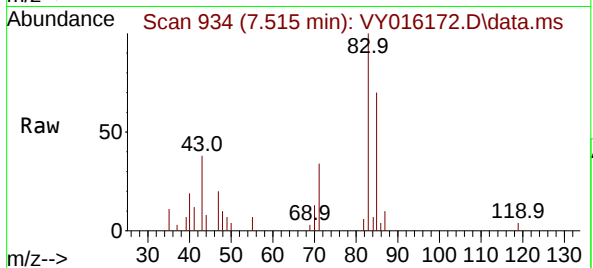




#30
Chloroform
Concen: 1.981 ug/l
RT: 7.515 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

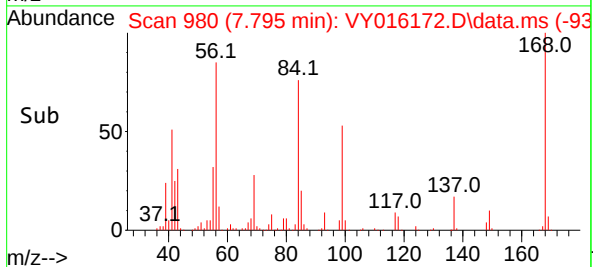
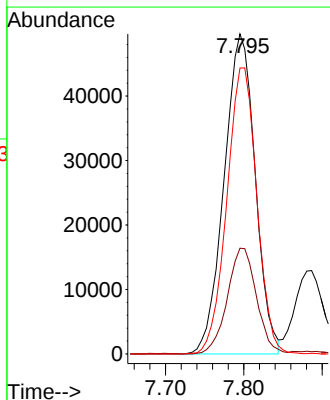
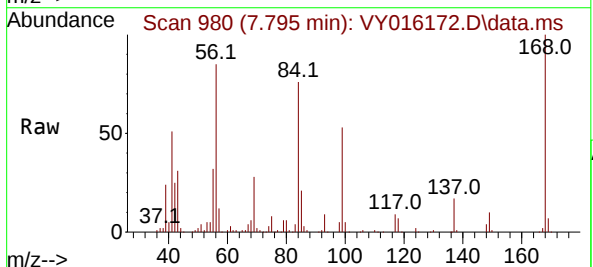
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

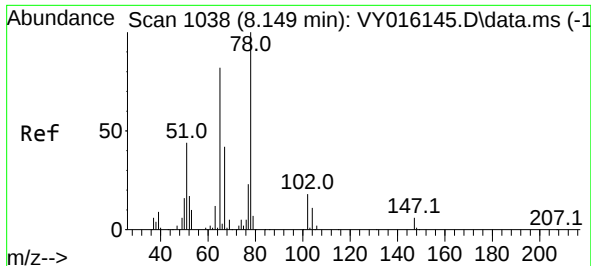
Tgt Ion: 83 Resp: 4836
Ion Ratio Lower Upper
83 100
85 69.7 49.7 74.5



#31
Cyclohexane
Concen: 69.660 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 56 Resp: 137161
Ion Ratio Lower Upper
56 100
69 32.9 27.8 41.6
84 89.3 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 59.500 ug/l

RT: 8.155 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Instrument :

MSVOA_Y

ClientSampleId :

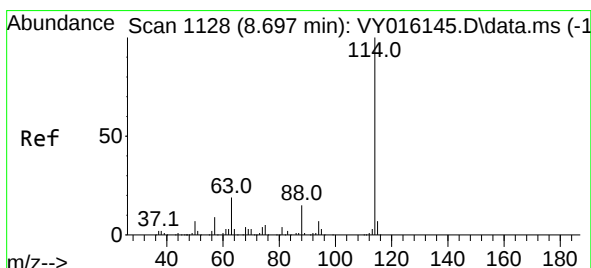
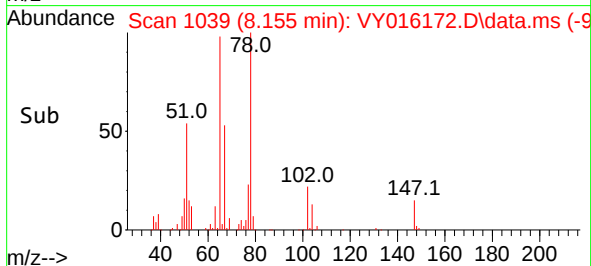
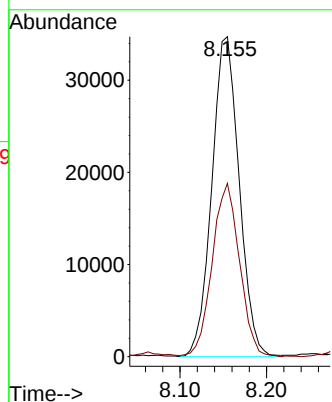
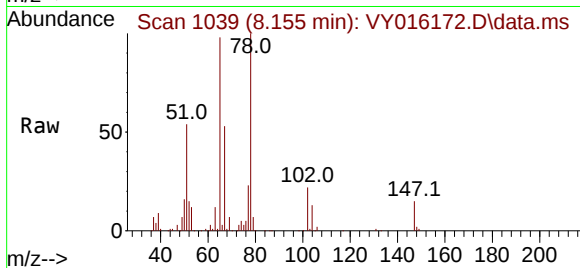
67S-SB02-0815

Tgt Ion: 65 Resp: 76212

Ion Ratio Lower Upper

65 100

67 54.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

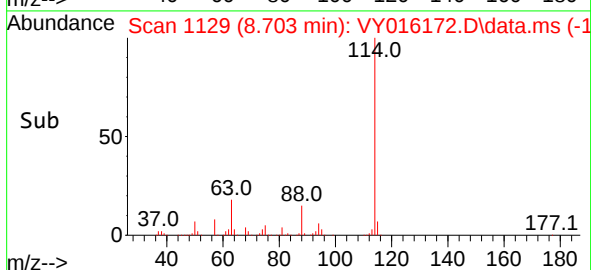
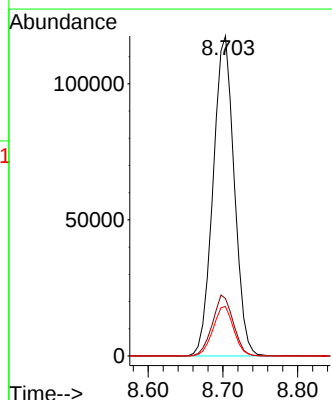
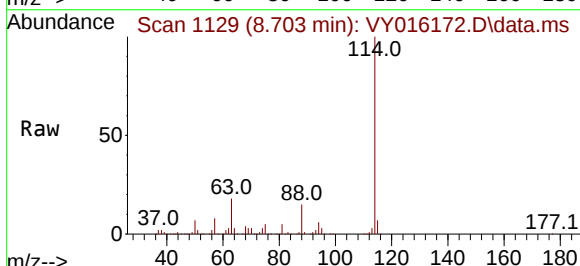
Tgt Ion: 114 Resp: 230820

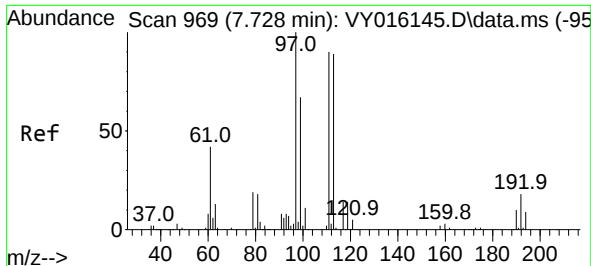
Ion Ratio Lower Upper

114 100

63 17.9 0.0 42.4

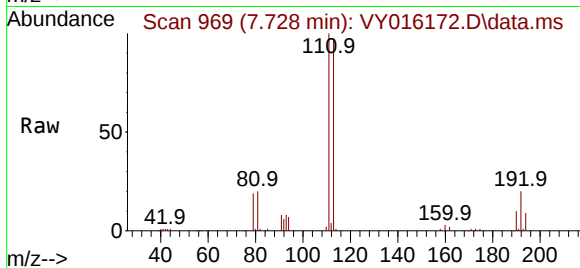
88 15.4 0.0 30.6



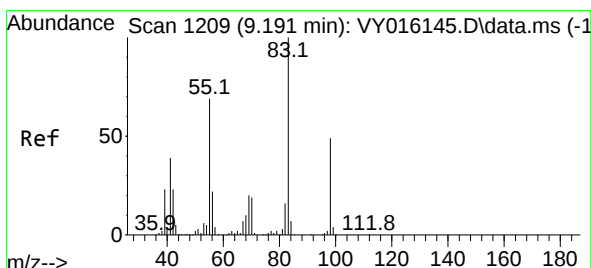
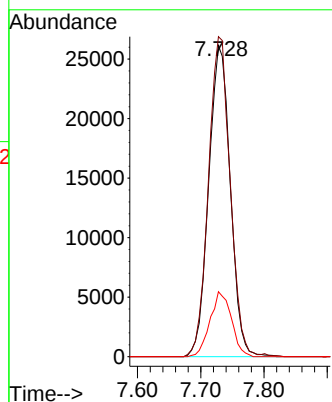
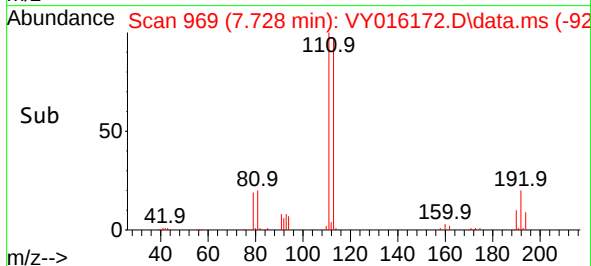


#35
Dibromofluoromethane
Concen: 45.147 ug/l
RT: 7.728 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

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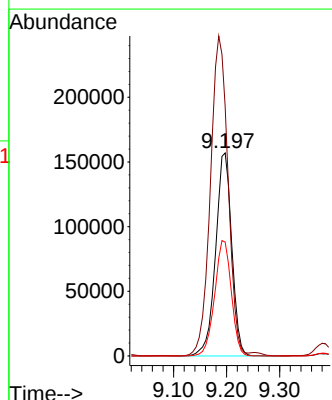
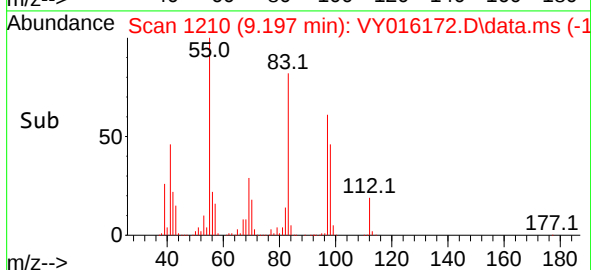
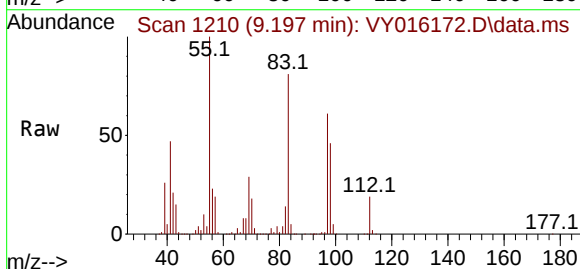


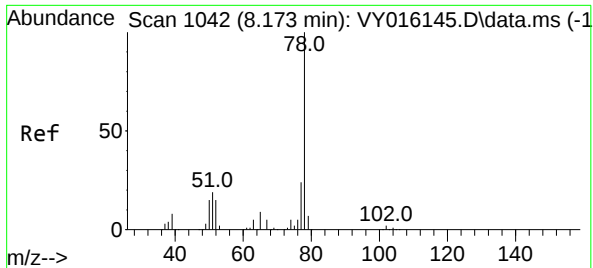
Tgt Ion:113 Resp: 62126
Ion Ratio Lower Upper
113 100
111 103.3 81.3 121.9
192 20.6 16.9 25.3



#39
Methylcyclohexane
Concen: 140.062 ug/l
RT: 9.197 min Scan# 1210
Delta R.T. 0.006 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 83 Resp: 332209
Ion Ratio Lower Upper
83 100
55 122.8 63.0 94.4#
98 56.1 37.4 56.2

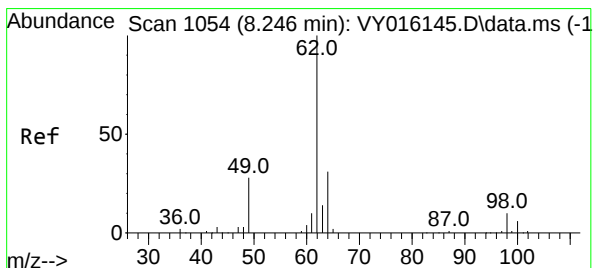
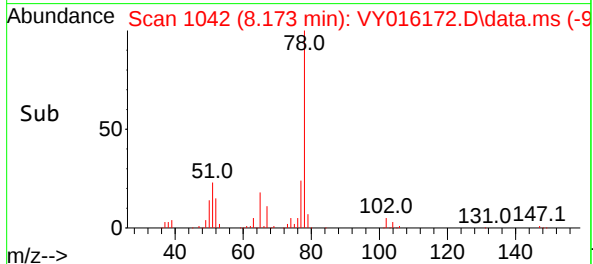
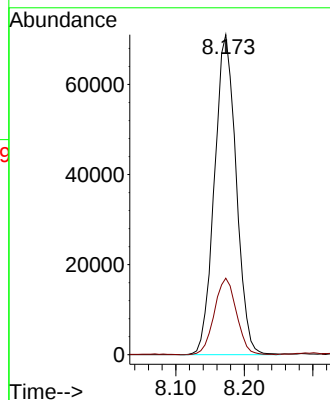
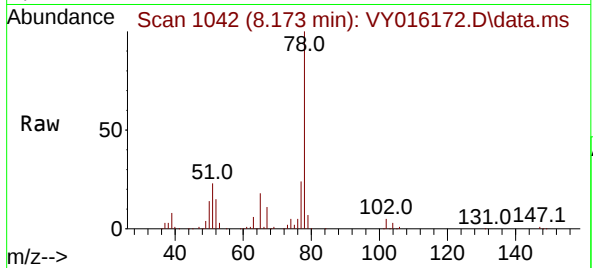




#40
Benzene
Concen: 27.360 ug/l
RT: 8.173 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

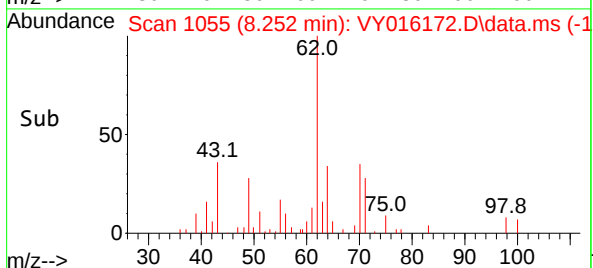
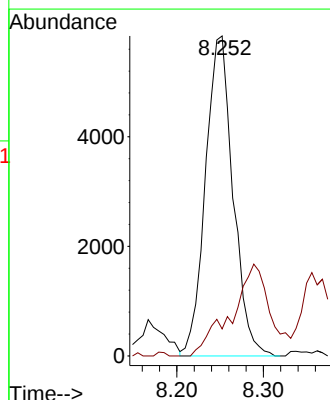
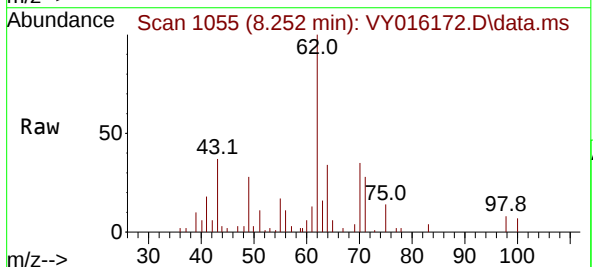
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

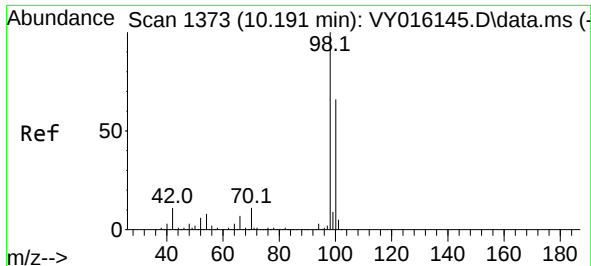
Tgt Ion: 78 Resp: 156080
Ion Ratio Lower Upper
78 100
77 23.9 19.0 28.6



#42
1,2-Dichloroethane
Concen: 8.119 ug/l
RT: 8.252 min Scan# 1055
Delta R.T. 0.006 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 62 Resp: 12925
Ion Ratio Lower Upper
62 100
98 6.7 0.0 15.8

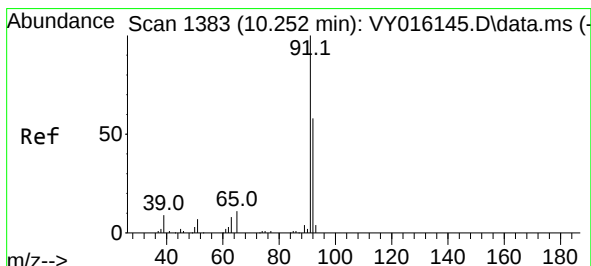
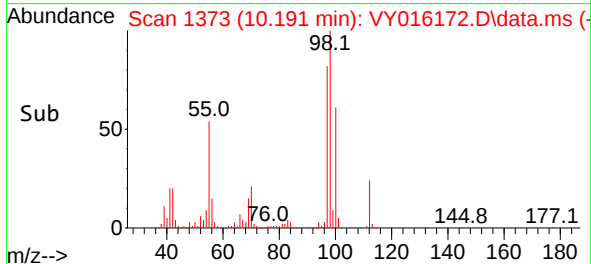
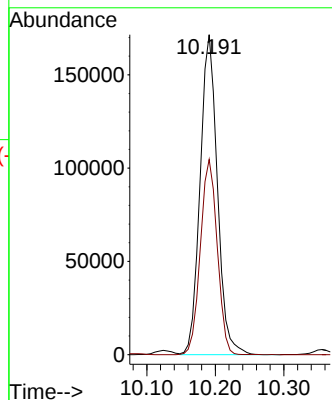
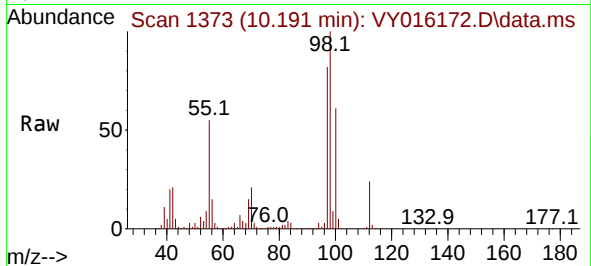




#50
Toluene-d8
Concen: 55.194 ug/l
RT: 10.191 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

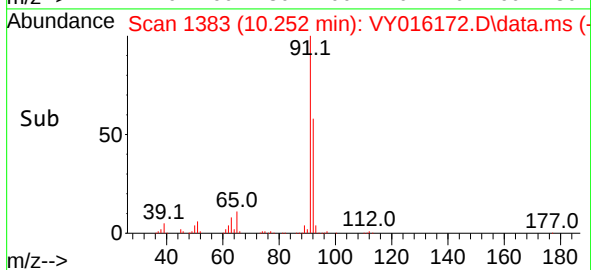
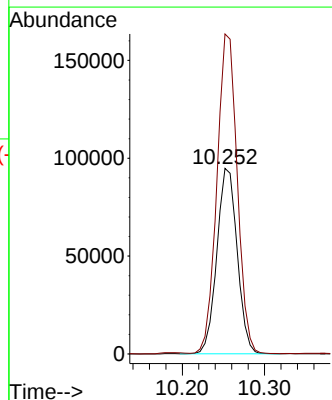
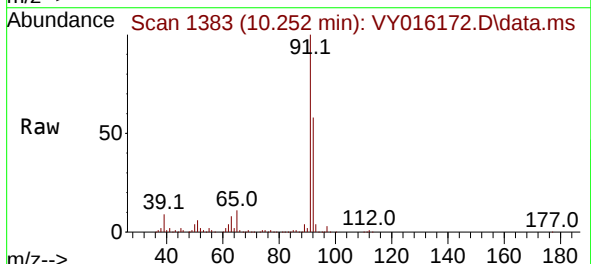
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

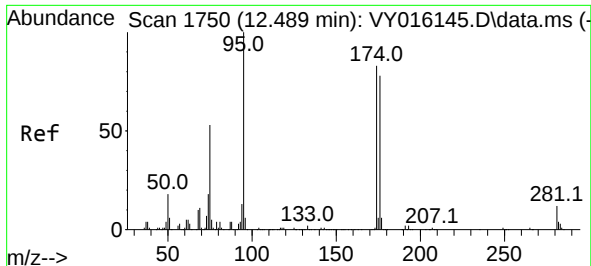
Tgt Ion: 98 Resp: 301133
Ion Ratio Lower Upper
98 100
100 59.4 50.1 75.1



#52
Toluene
Concen: 44.062 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 92 Resp: 162879
Ion Ratio Lower Upper
92 100
91 172.2 143.8 215.6

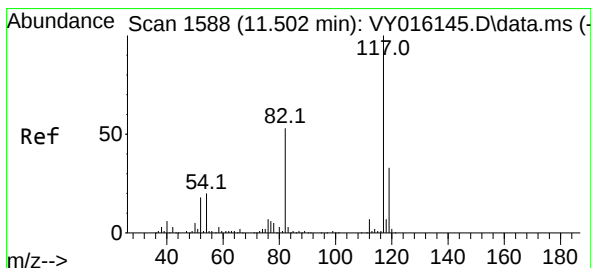
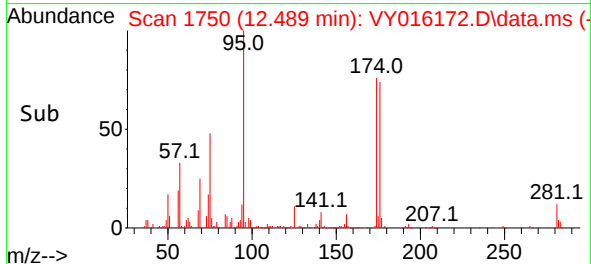
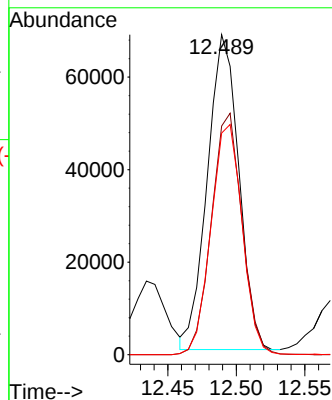
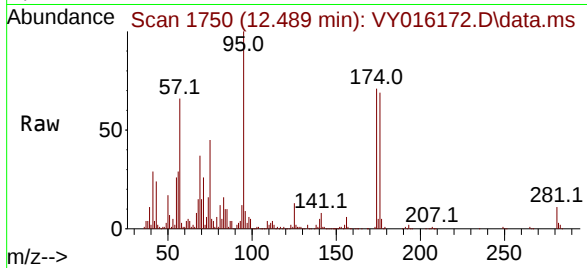




#62
4-Bromofluorobenzene
Concen: 58.116 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

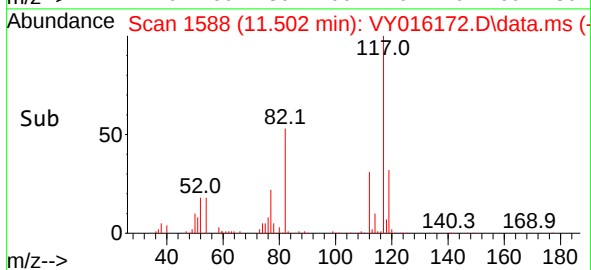
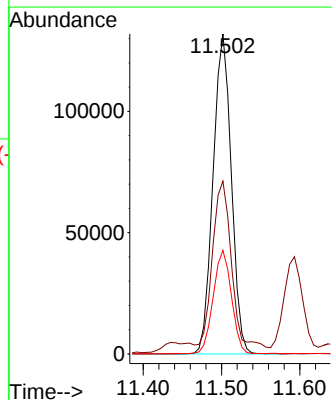
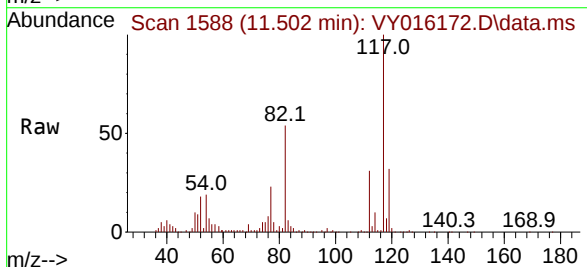
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

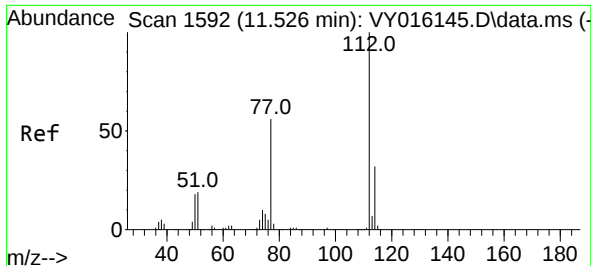
Tgt Ion: 95 Resp: 108422
Ion Ratio Lower Upper
95 100
174 75.2 0.0 178.2
176 72.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.502 min Scan# 1588
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion: 117 Resp: 213668
Ion Ratio Lower Upper
117 100
82 50.9 43.4 65.0
119 32.2 26.3 39.5





#65

Chlorobenzene

Concen: 240.700 ug/l

RT: 11.526 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Instrument :

MSVOA_Y

ClientSampleId :

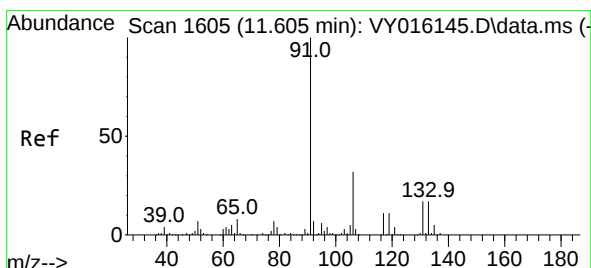
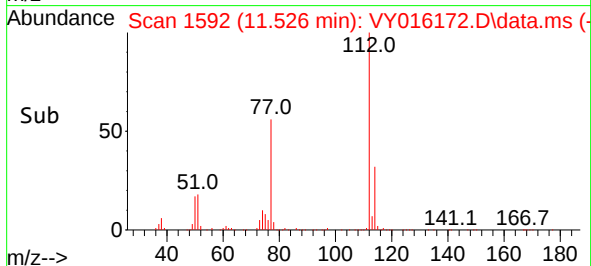
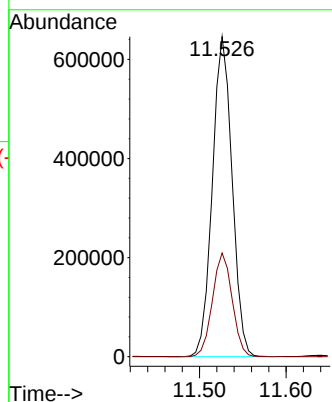
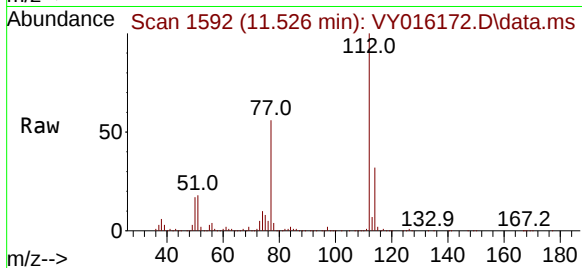
67S-SB02-0815

Tgt Ion:112 Resp: 1021791

Ion Ratio Lower Upper

112 100

114 32.4 25.5 38.3



#67

Ethyl Benzene

Concen: 127.570 ug/l

RT: 11.605 min Scan# 1605

Delta R.T. -0.000 min

Lab File: VY016172.D

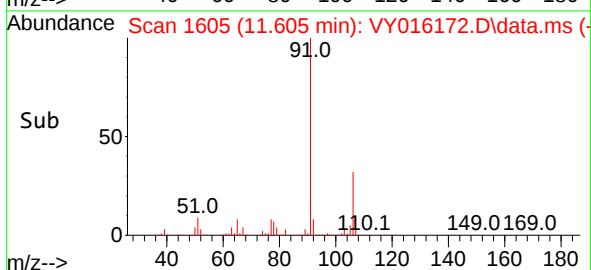
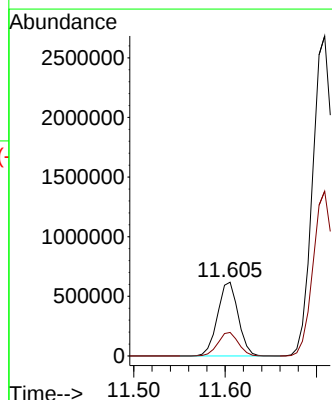
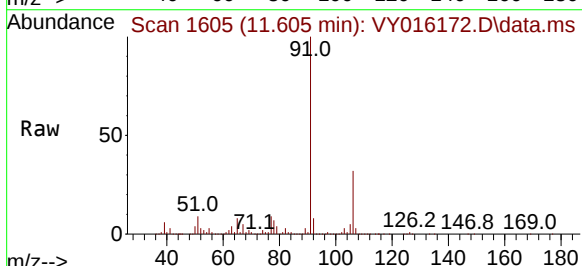
Acq: 01 Nov 2023 16:37

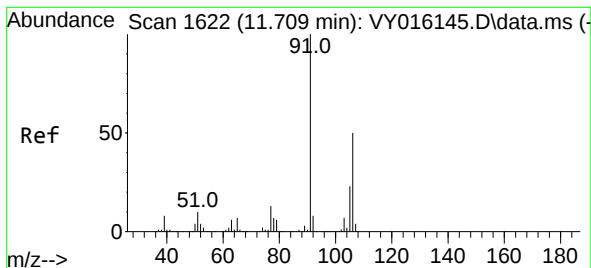
Tgt Ion: 91 Resp: 968615

Ion Ratio Lower Upper

91 100

106 31.9 24.6 36.8

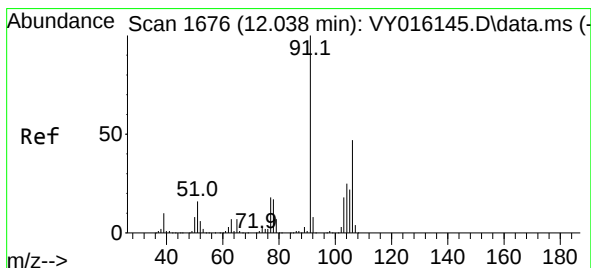
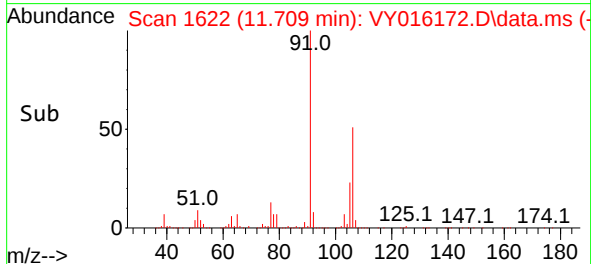
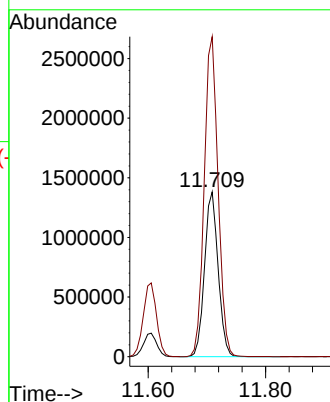
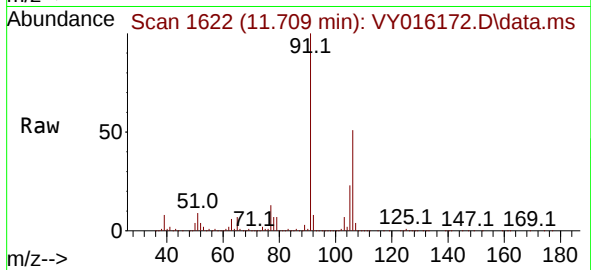




#68
m/p-Xylenes
Concen: 754.764 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

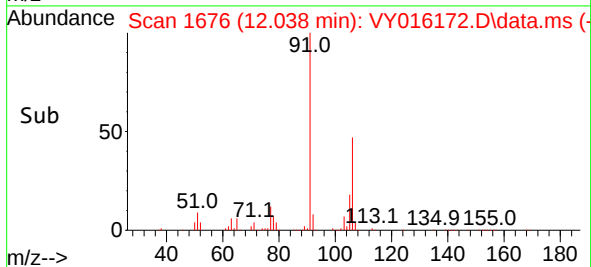
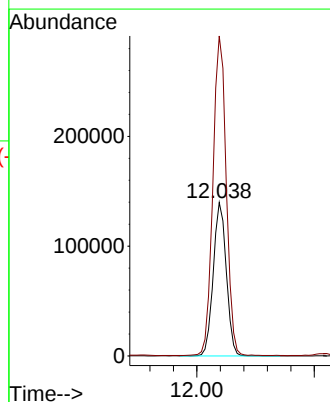
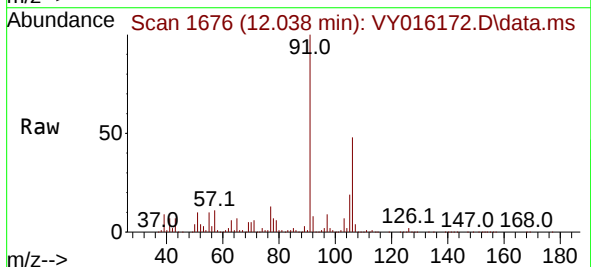
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

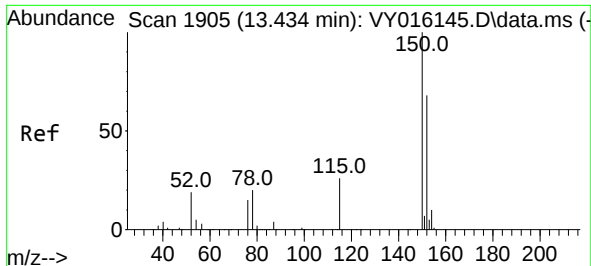
Tgt Ion:106 Resp: 2214469
Ion Ratio Lower Upper
106 100
91 197.8 166.1 249.1



#69
o-Xylene
Concen: 77.011 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion:106 Resp: 215733
Ion Ratio Lower Upper
106 100
91 212.2 108.1 324.3

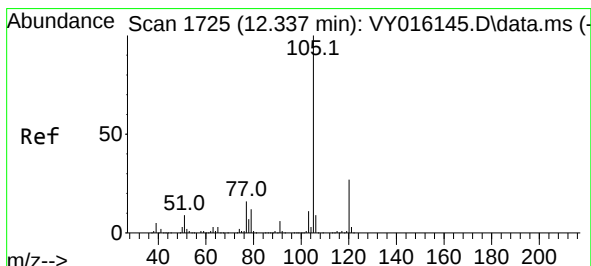
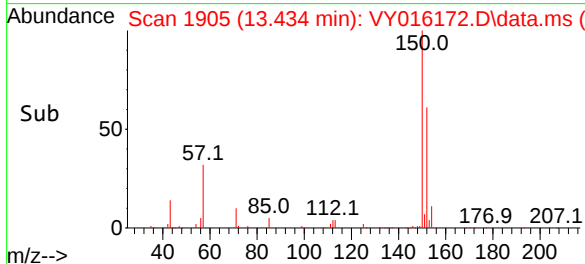
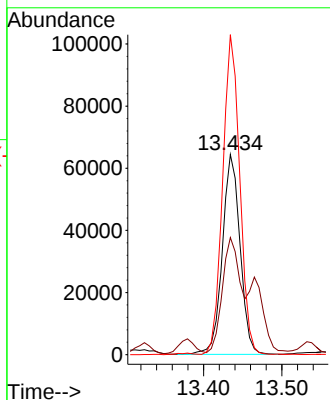
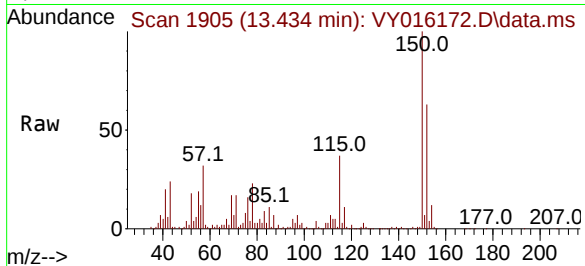




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

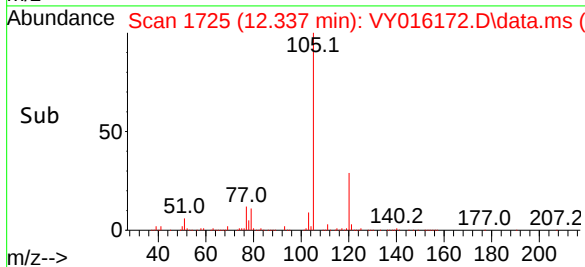
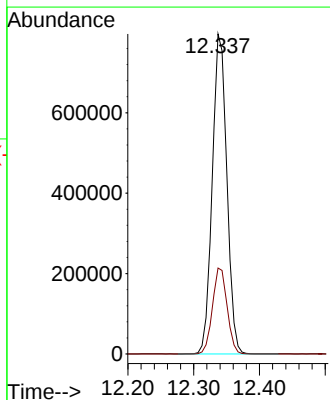
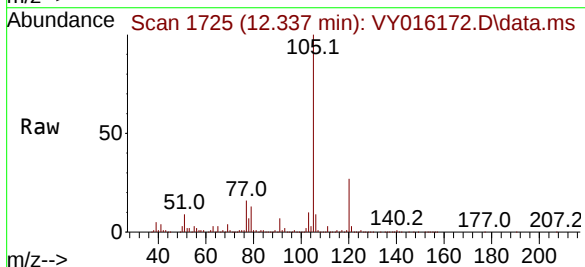
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

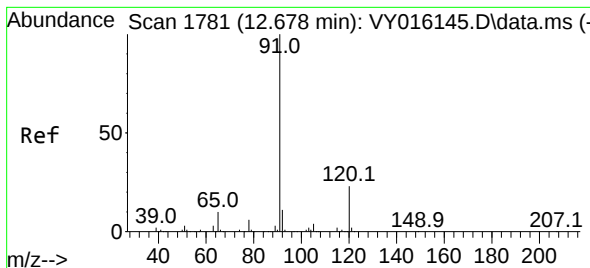
Tgt Ion:152 Resp: 101074
Ion Ratio Lower Upper
152 100
115 59.2 28.8 86.5
150 154.2 0.0 348.8



#73
Isopropylbenzene
Concen: 161.530 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion:105 Resp: 1224690
Ion Ratio Lower Upper
105 100
120 27.0 13.3 39.9





#78

n-propylbenzene

Concen: 263.144 ug/l

RT: 12.678 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Instrument :

MSVOA_Y

ClientSampleId :

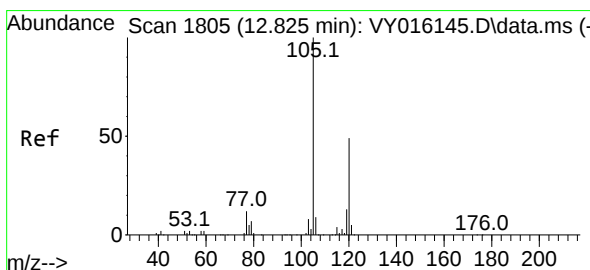
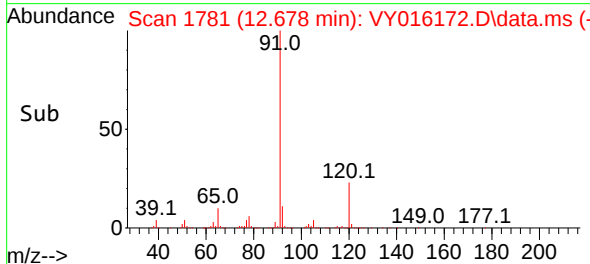
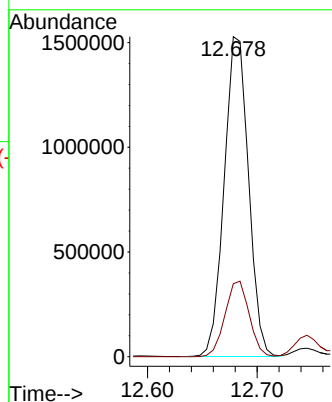
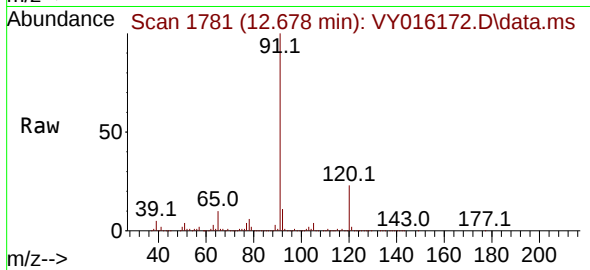
67S-SB02-0815

Tgt Ion: 91 Resp: 2358744

Ion Ratio Lower Upper

91 100

120 23.5 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 68.422 ug/l

RT: 12.819 min Scan# 1804

Delta R.T. -0.006 min

Lab File: VY016172.D

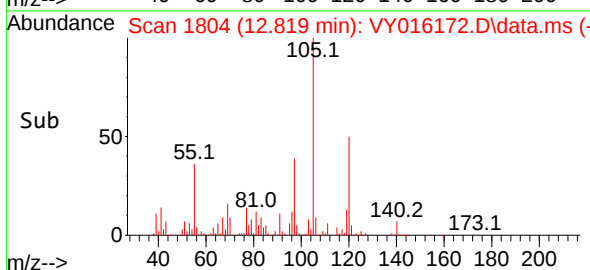
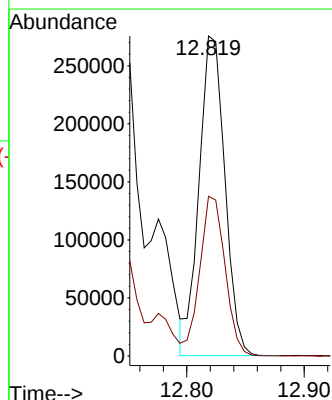
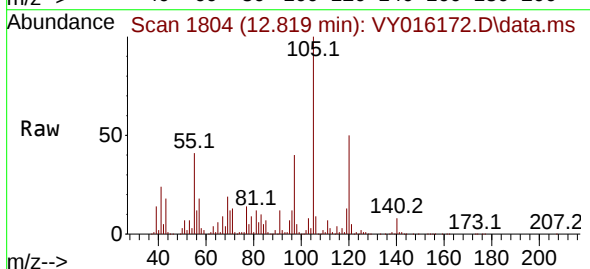
Acq: 01 Nov 2023 16:37

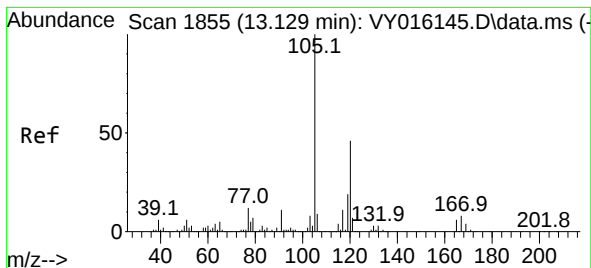
Tgt Ion:105 Resp: 420287

Ion Ratio Lower Upper

105 100

120 49.3 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 542.730 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.000 min

Lab File: VY016172.D

Acq: 01 Nov 2023 16:37

Instrument :

MSVOA_Y

ClientSampleId :

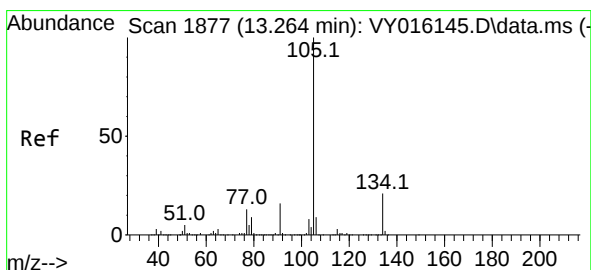
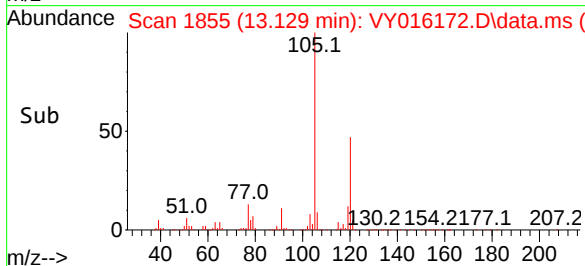
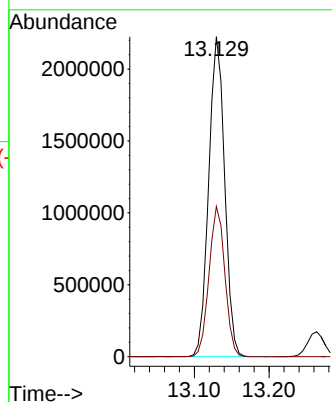
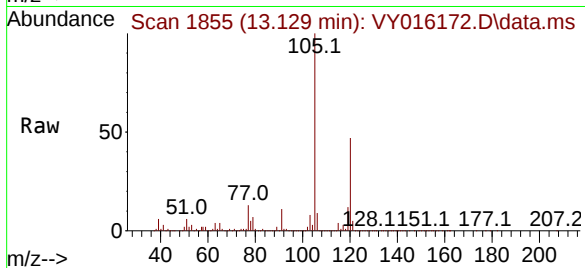
67S-SB02-0815

Tgt Ion:105 Resp: 3298746

Ion Ratio Lower Upper

105 100

120 46.7 22.2 66.6



#85

sec-Butylbenzene

Concen: 32.960 ug/l

RT: 13.264 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VY016172.D

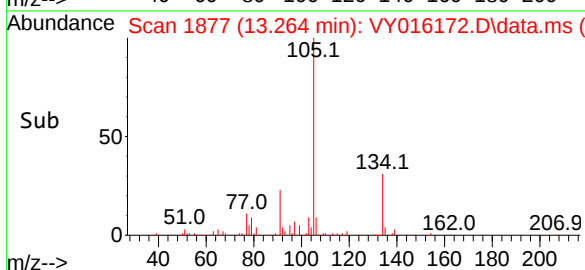
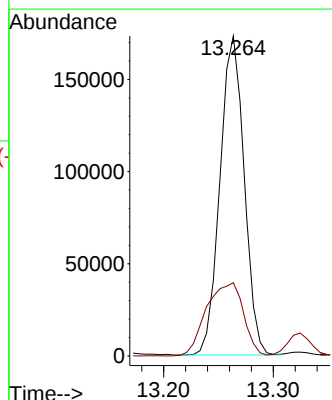
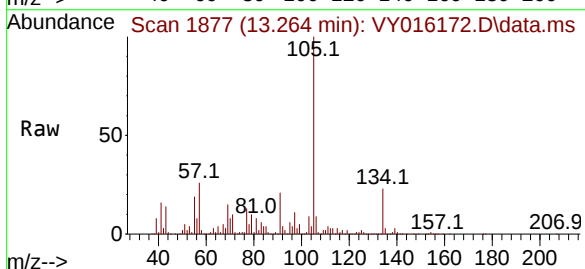
Acq: 01 Nov 2023 16:37

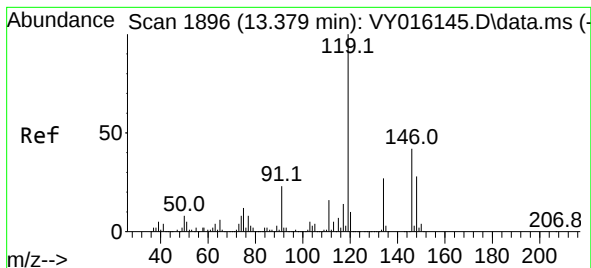
Tgt Ion:105 Resp: 265880

Ion Ratio Lower Upper

105 100

134 35.1 10.2 30.6#

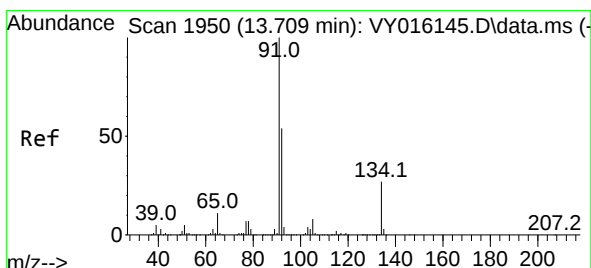
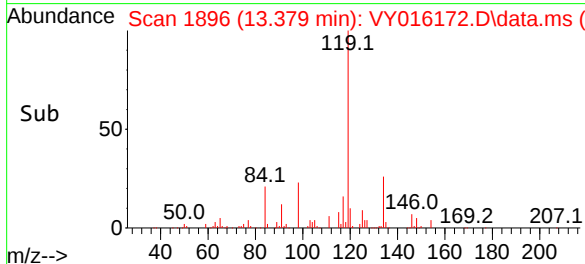
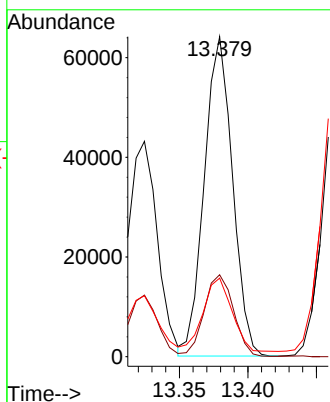
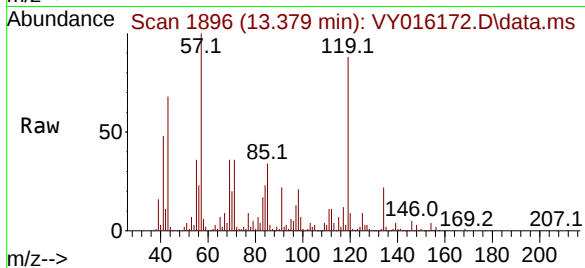




#86
p-Isopropyltoluene
Concen: 13.727 ug/l
RT: 13.379 min Scan# 1896
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

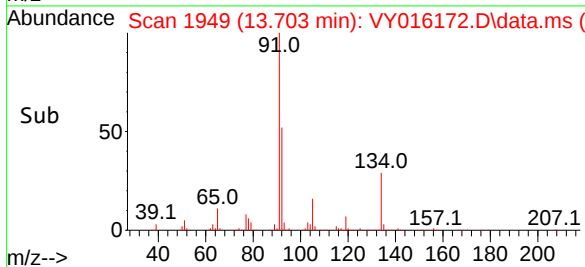
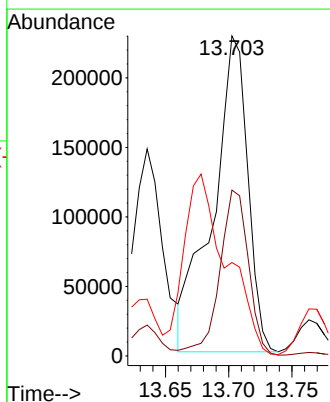
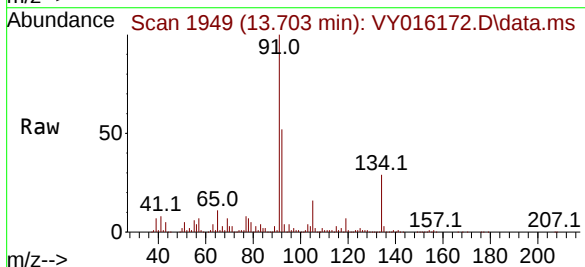
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

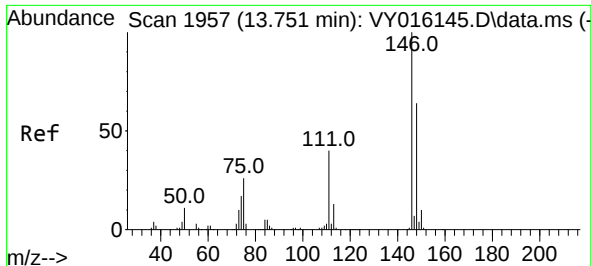
Tgt Ion:	119	Resp:	91772
Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.3	39.8
91	23.3	12.4	37.4



#89
n-Butylbenzene
Concen: 71.133 ug/l
RT: 13.703 min Scan# 1949
Delta R.T. -0.006 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion:	91	Resp:	436977
Ion	Ratio	Lower	Upper
91	100		
92	42.9	25.4	76.0
134	0.0	12.6	37.6#

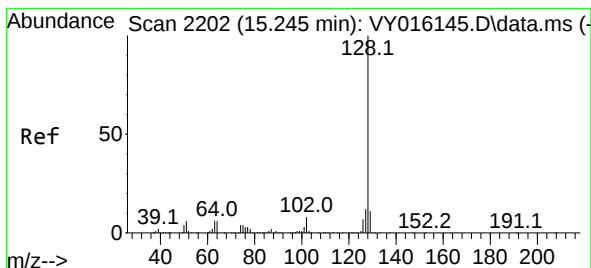
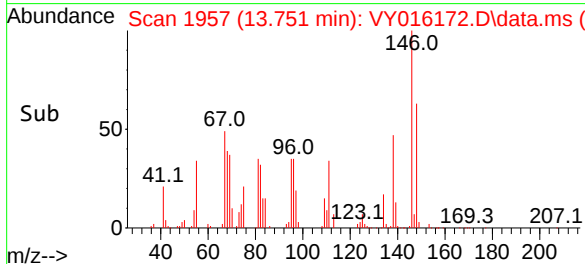
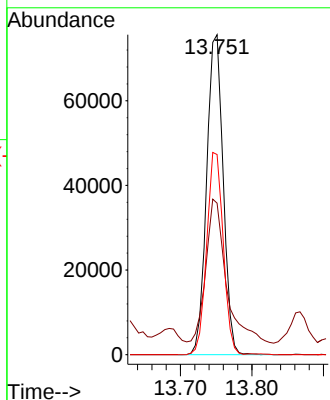
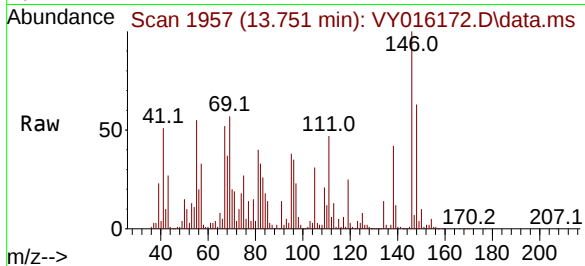




#91
1,2-Dichlorobenzene
Concen: 41.279 ug/l
RT: 13.751 min Scan# 1957
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Instrument :
MSVOA_Y
ClientSampleId :
67S-SB02-0815

Tgt Ion:146 Resp: 121095
Ion Ratio Lower Upper
146 100
111 58.7 19.7 59.0
148 63.1 32.0 96.2



#95
Naphthalene
Concen: 304.919 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY016172.D
Acq: 01 Nov 2023 16:37

Tgt Ion:128 Resp: 1072565
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 8.6 13.0

