

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110123\
 Data File : VY016164.D
 Acq On : 01 Nov 2023 13:29
 Operator : SY/MD
 Sample : 05102-09
 Misc : 4.20g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 67S-SB11-1218-D

Quant Time: Nov 02 02:24:09 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)

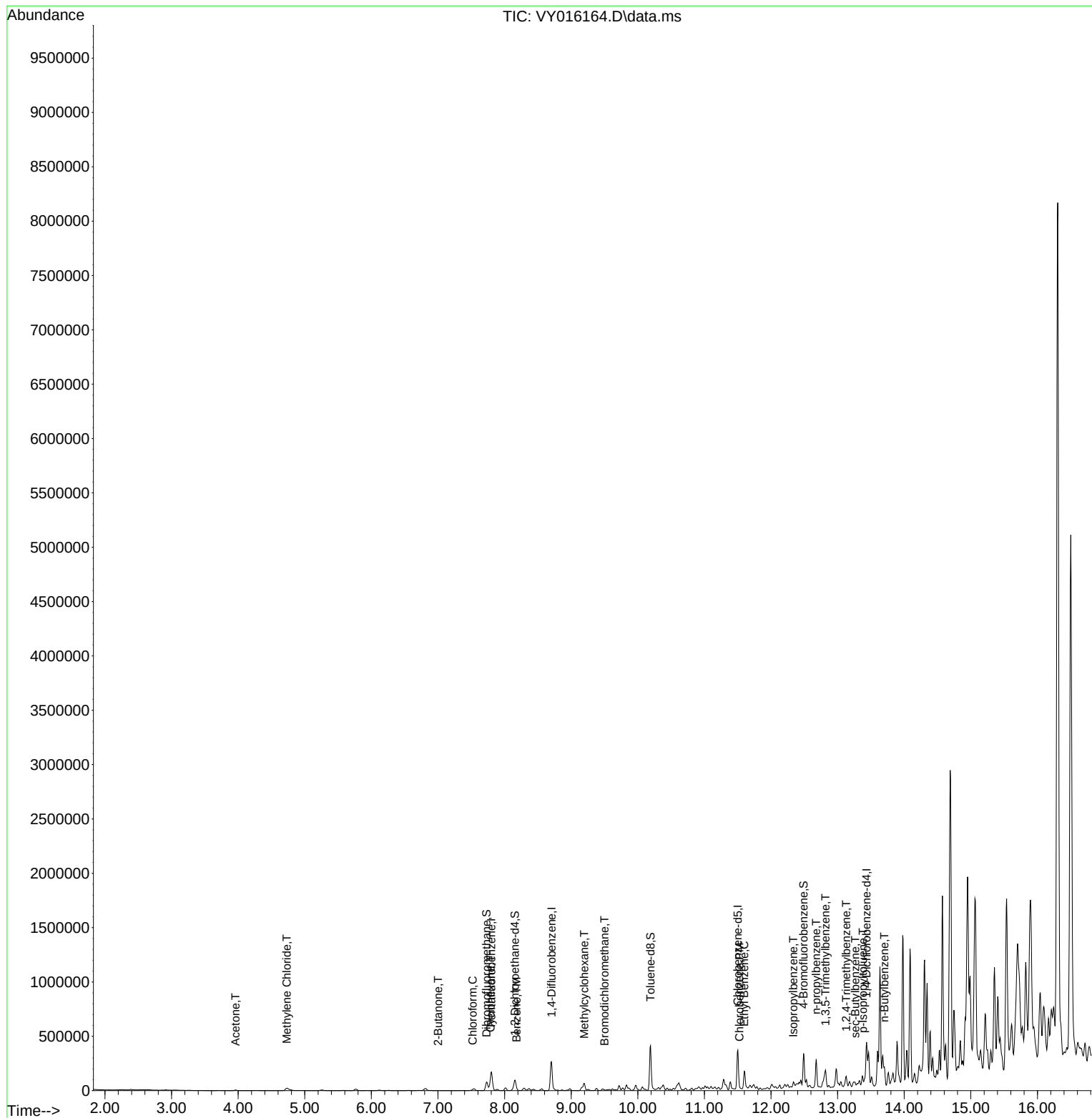
Internal Standards						
1) Pentafluorobenzene	7.801	168	123236	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.703	114	204691	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.501	117	190839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	89375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.154	65	68919	59.765	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	119.540%
35) Dibromofluoromethane	7.728	113	57039	46.741	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.480%
50) Toluene-d8	10.191	98	246871	51.025	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.040%
62) 4-Bromofluorobenzene	12.489	95	86473	52.267	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	104.540%
Target Compounds						
					Qvalue	
16) Acetone	3.960	43	9710	36.451	ug/l	94
20) Methylene Chloride	4.728	84	16373	11.622	ug/l #	89
25) 2-Butanone	7.002	43	1843	5.793	ug/l	96
30) Chloroform	7.520	83	6663	3.031	ug/l	91
31) Cyclohexane	7.789	56	11075	6.248	ug/l #	79
39) Methylcyclohexane	9.197	83	27916	13.272	ug/l	92
40) Benzene	8.179	78	12818	2.534	ug/l	95
47) Bromodichloromethane	9.502	83	4145	2.363	ug/l #	79
65) Chlorobenzene	11.526	112	4815	1.270	ug/l	97
67) Ethyl Benzene	11.599	91	97970	14.446	ug/l	96
73) Isopropylbenzene	12.337	105	33268	4.962	ug/l	98
78) n-propylbenzene	12.678	91	191457	24.155	ug/l	99
80) 1,3,5-Trimethylbenzene	12.818	105	54996	10.125	ug/l	96
84) 1,2,4-Trimethylbenzene	13.129	105	50769	9.446	ug/l	100
85) sec-Butylbenzene	13.263	105	21258	2.980	ug/l #	52
86) p-Isopropyltoluene	13.379	119	20202	3.417	ug/l	97
89) n-Butylbenzene	13.702	91	108483	19.971	ug/l #	76

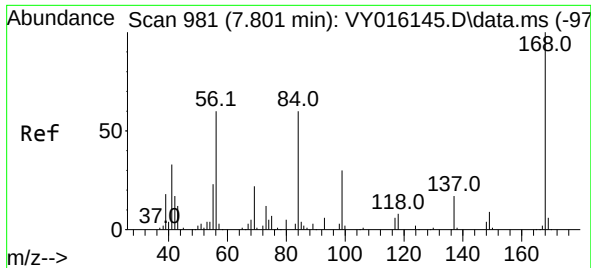
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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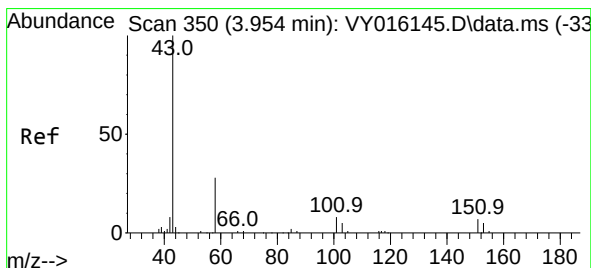
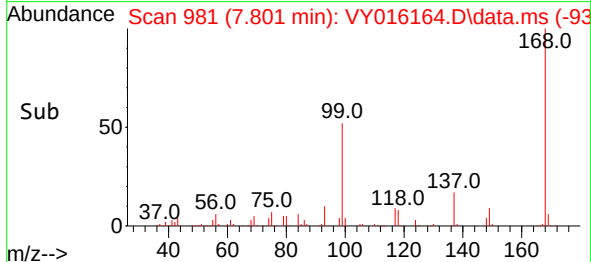
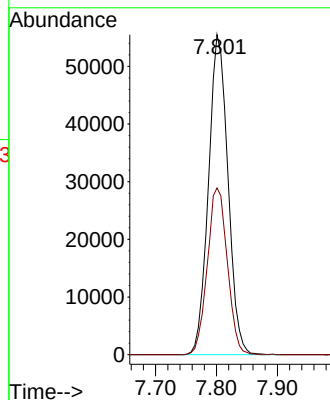
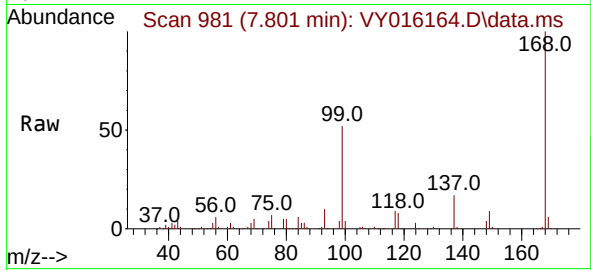




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

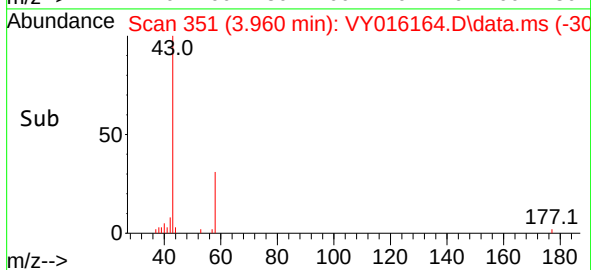
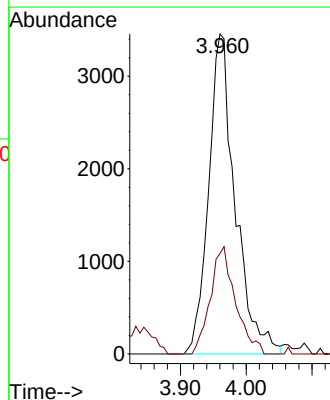
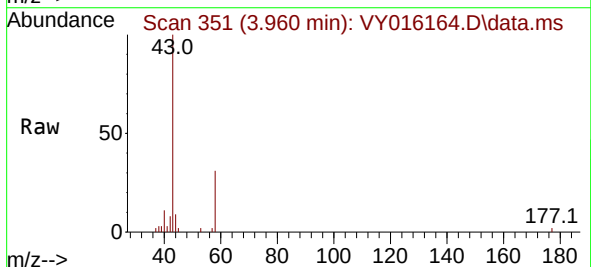
Instrument :
MSVOA_Y
ClientSampleId :
67S-SB11-1218-D

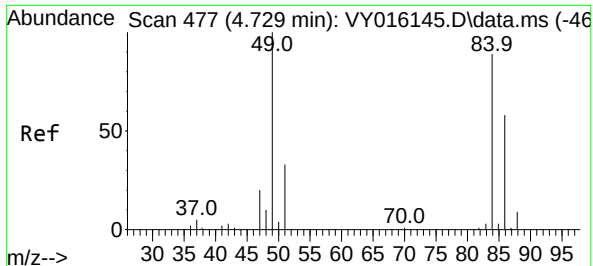
Tgt Ion:168 Resp: 123236
Ion Ratio Lower Upper
168 100
99 52.1 43.4 65.0



#16
Acetone
Concen: 36.451 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

Tgt Ion: 43 Resp: 9710
Ion Ratio Lower Upper
43 100
58 31.4 22.7 34.1





#20

Methylene Chloride

Concen: 11.622 ug/l

RT: 4.728 min Scan# 41

Delta R.T. -0.001 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB11-1218-D

Tgt Ion: 84 Resp: 16373

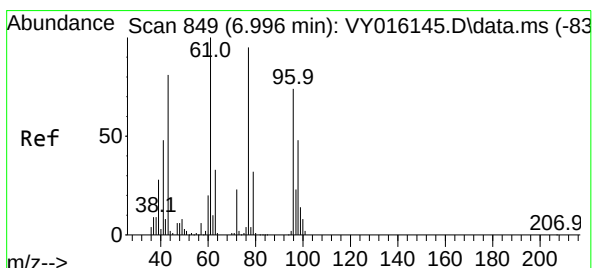
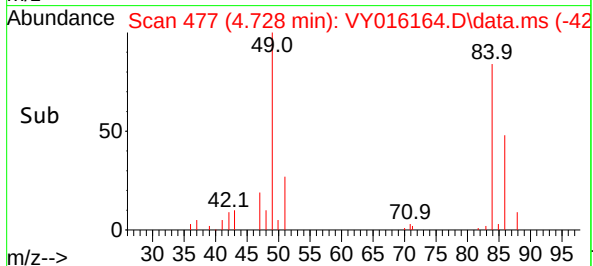
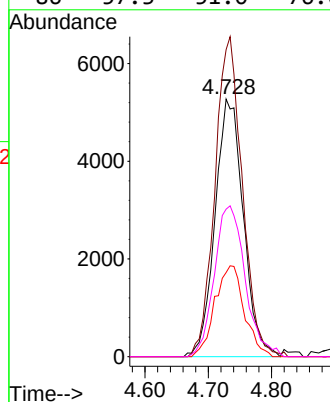
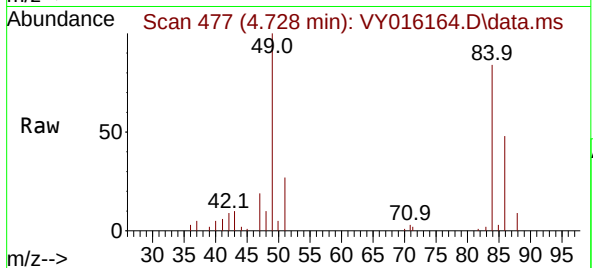
Ion Ratio Lower Upper

84 100

49 119.2 106.9 160.3

51 32.7 33.2 49.8#

86 57.3 51.0 76.6



#25

2-Butanone

Concen: 5.793 ug/l

RT: 7.002 min Scan# 850

Delta R.T. 0.006 min

Lab File: VY016164.D

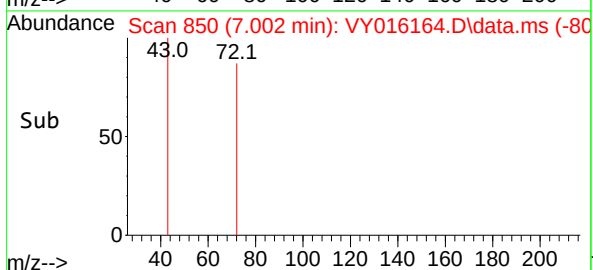
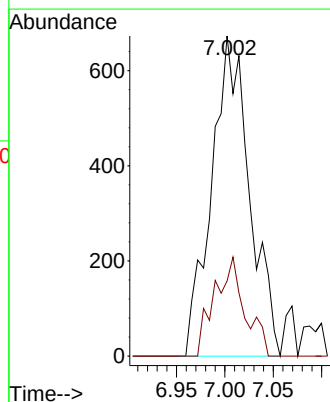
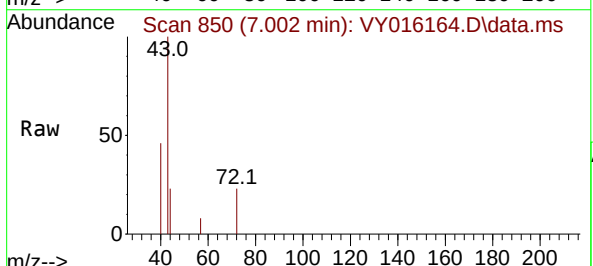
Acq: 01 Nov 2023 13:29

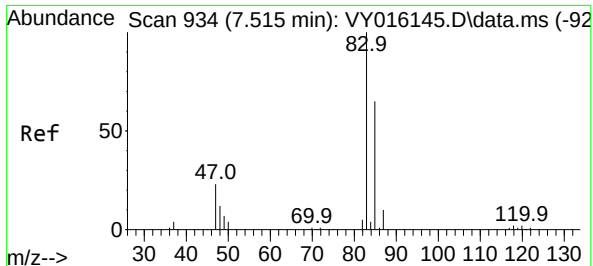
Tgt Ion: 43 Resp: 1843

Ion Ratio Lower Upper

43 100

72 23.5 20.5 30.7

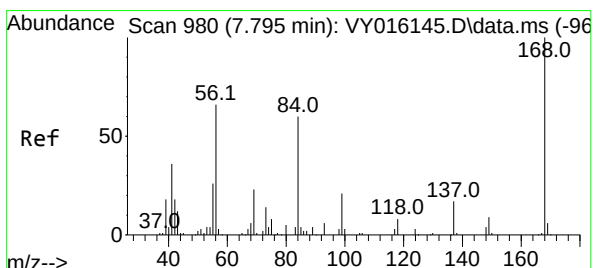
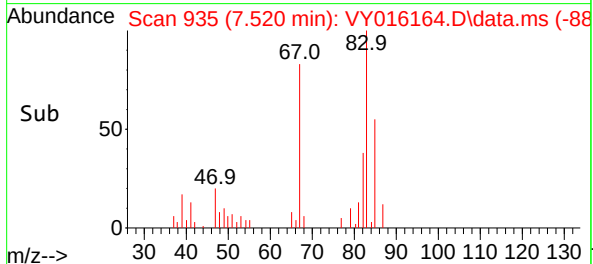
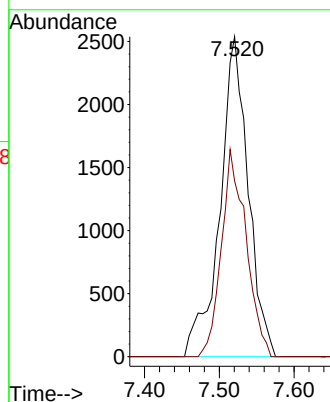
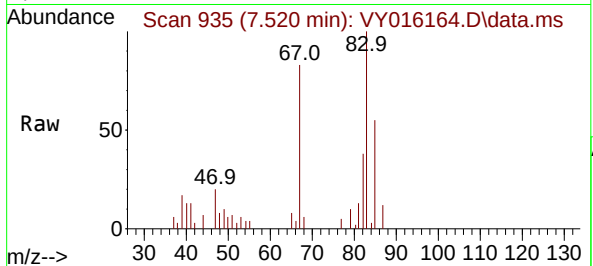




#30
Chloroform
Concen: 3.031 ug/l
RT: 7.520 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

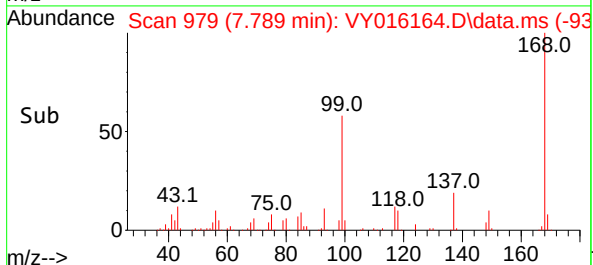
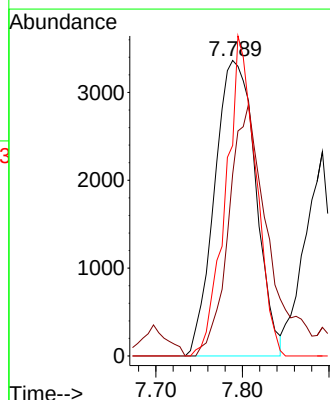
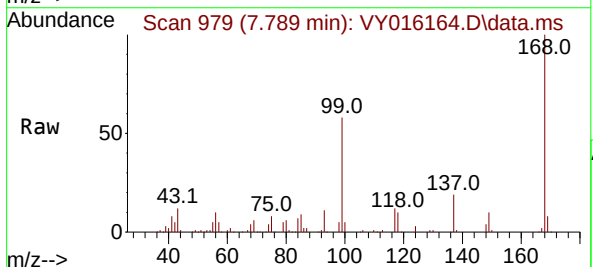
Instrument :
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ClientSampleId :
67S-SB11-1218-D

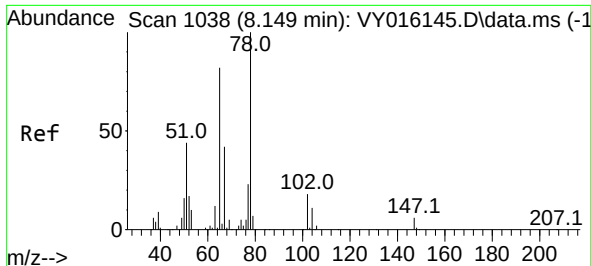
Tgt Ion: 83 Resp: 6663
Ion Ratio Lower Upper
83 100
85 54.9 49.7 74.5



#31
Cyclohexane
Concen: 6.248 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.006 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

Tgt Ion: 56 Resp: 11075
Ion Ratio Lower Upper
56 100
69 58.4 27.8 41.6#
84 71.3 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 59.765 ug/l

RT: 8.154 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

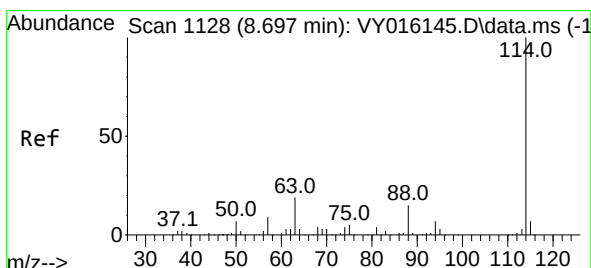
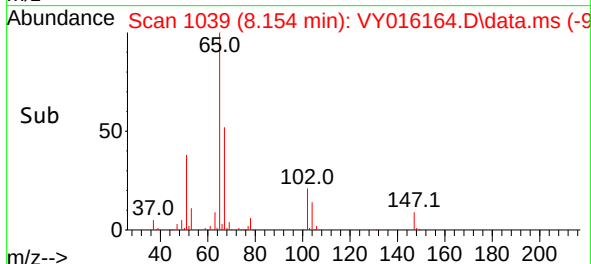
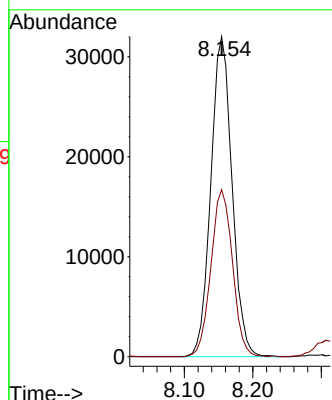
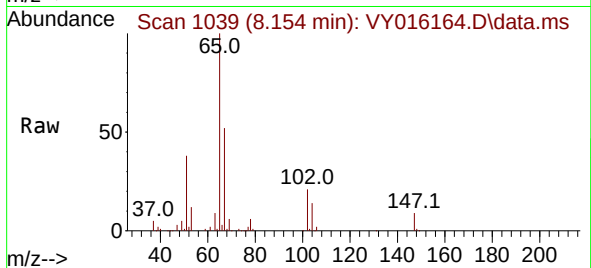
67S-SB11-1218-D

Tgt Ion: 65 Resp: 68919

Ion Ratio Lower Upper

65 100

67 53.0 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: VY016164.D

Acq: 01 Nov 2023 13:29

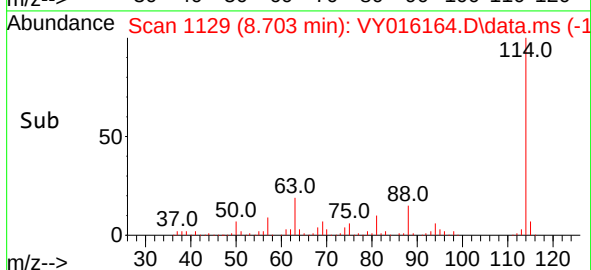
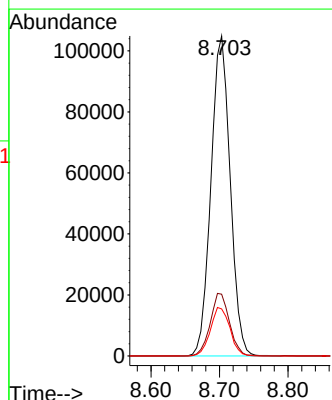
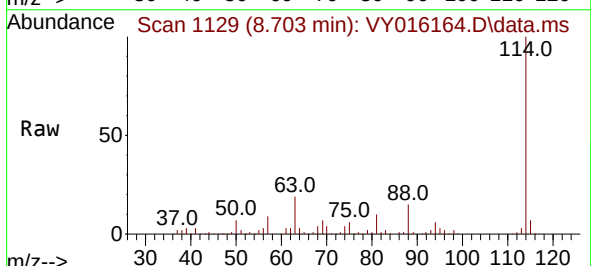
Tgt Ion: 114 Resp: 204691

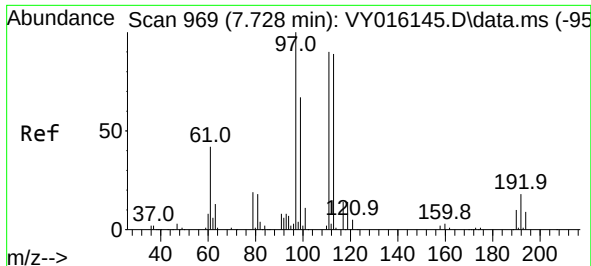
Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.4

88 14.7 0.0 30.6

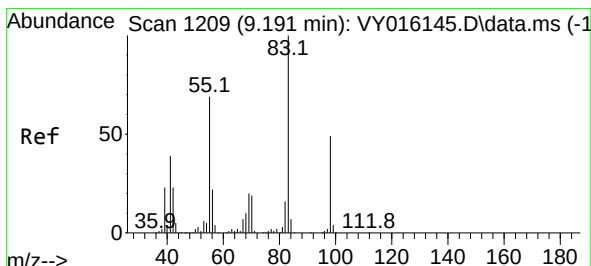
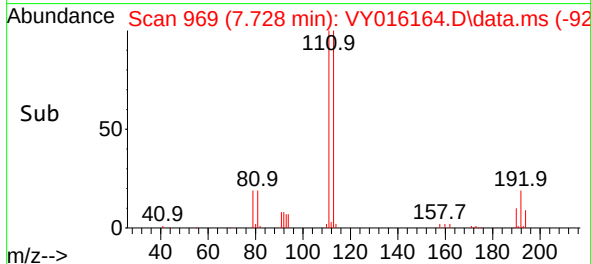
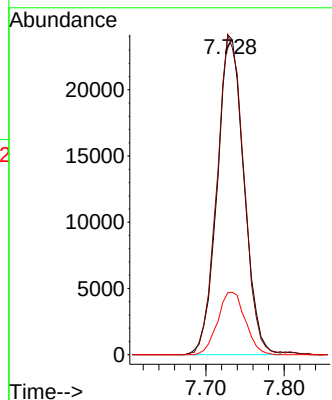
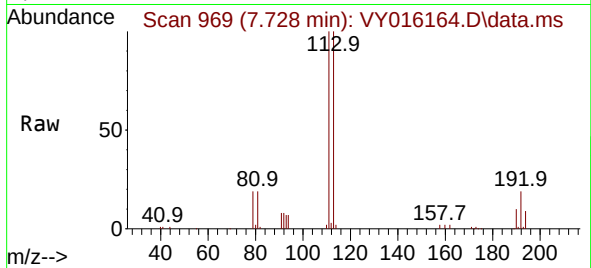




#35
Dibromofluoromethane
Concen: 46.741 ug/l
RT: 7.728 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

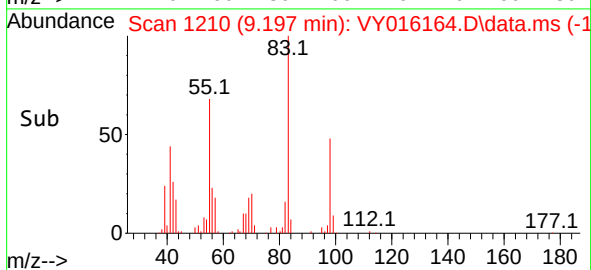
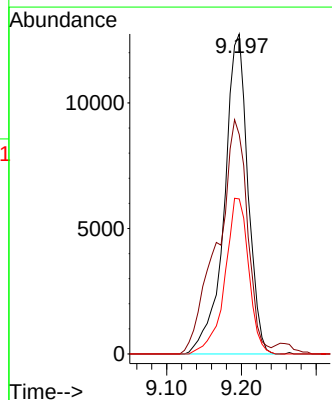
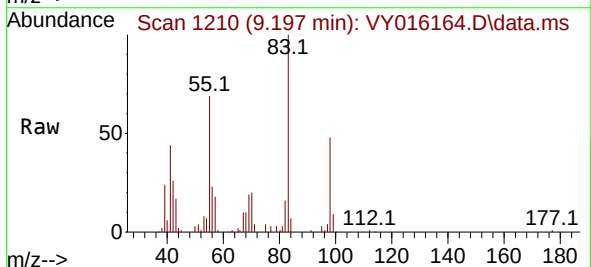
Instrument :
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67S-SB11-1218-D

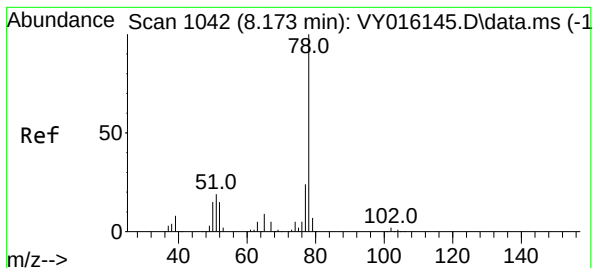
Tgt Ion:113 Resp: 57039
Ion Ratio Lower Upper
113 100
111 101.5 81.3 121.9
192 20.1 16.9 25.3



#39
Methylcyclohexane
Concen: 13.272 ug/l
RT: 9.197 min Scan# 1210
Delta R.T. 0.006 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

Tgt Ion: 83 Resp: 27916
Ion Ratio Lower Upper
83 100
55 68.5 63.0 94.4
98 48.5 37.4 56.2





#40

Benzene

Concen: 2.534 ug/l

RT: 8.179 min Scan# 1042

Delta R.T. 0.006 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

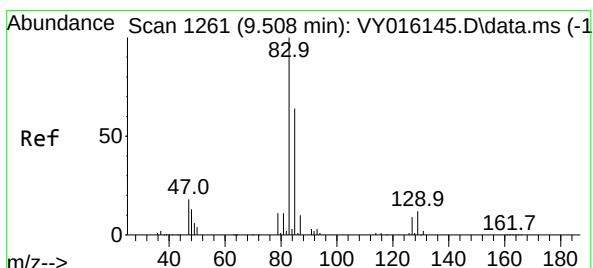
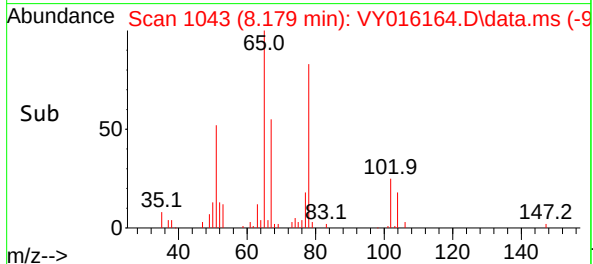
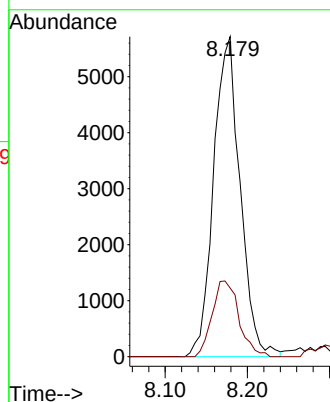
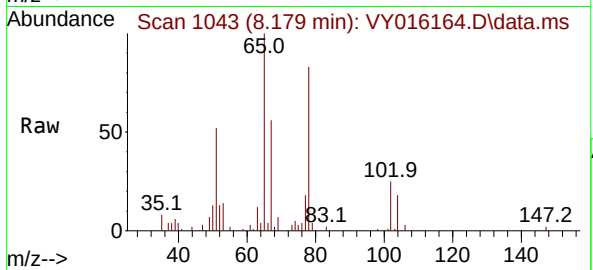
67S-SB11-1218-D

Tgt Ion: 78 Resp: 12818

Ion Ratio Lower Upper

78 100

77 21.5 19.0 28.6



#47

Bromodichloromethane

Concen: 2.363 ug/l

RT: 9.502 min Scan# 1260

Delta R.T. -0.006 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

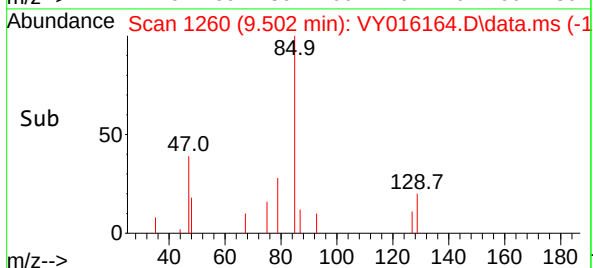
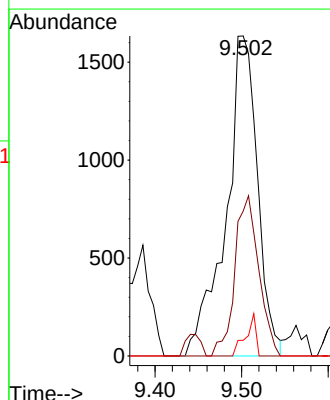
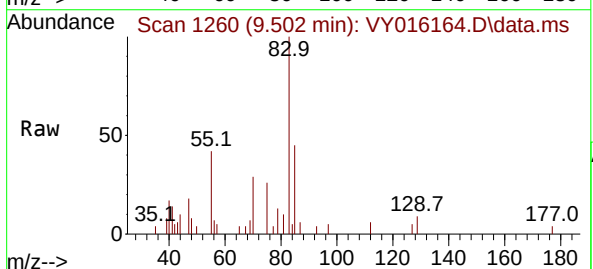
Tgt Ion: 83 Resp: 4145

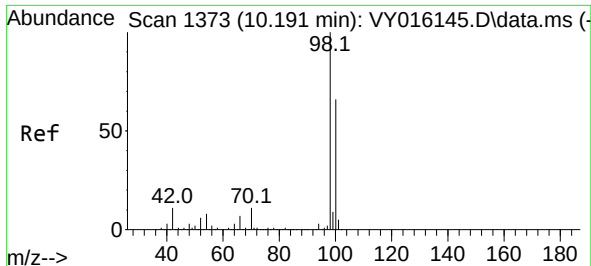
Ion Ratio Lower Upper

83 100

85 45.3 50.1 75.1#

127 4.9 7.1 10.7#

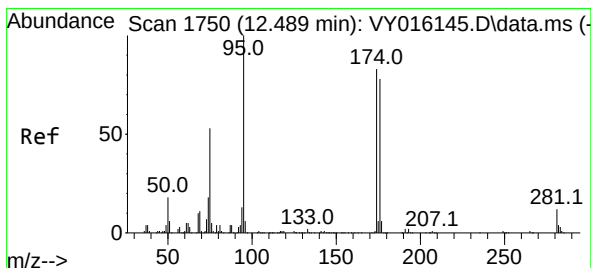
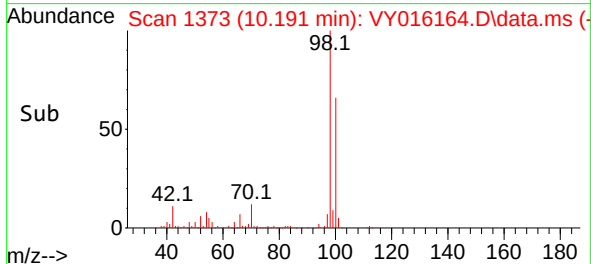
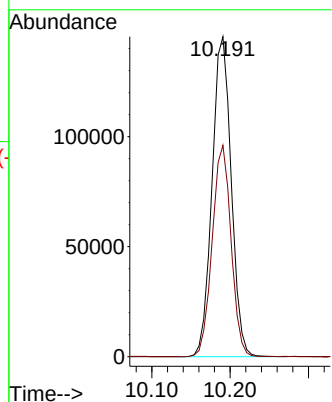
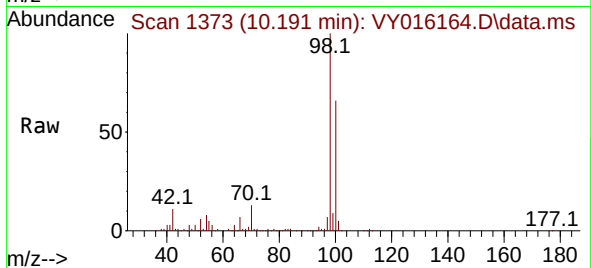




#50
Toluene-d8
Concen: 51.025 ug/l
RT: 10.191 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

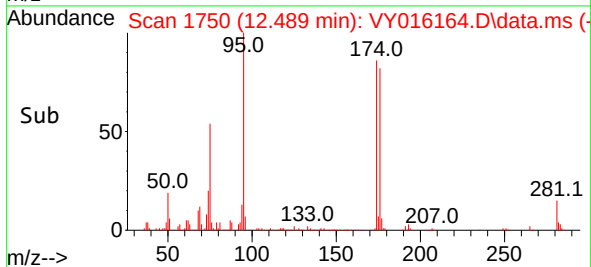
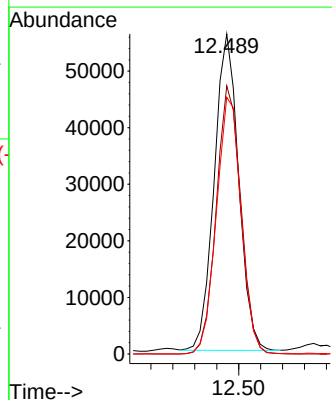
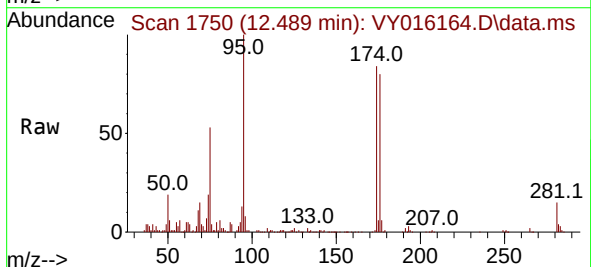
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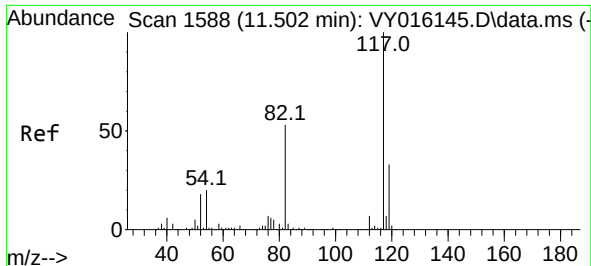
Tgt Ion: 98 Resp: 246871
Ion Ratio Lower Upper
98 100
100 65.0 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 52.267 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VY016164.D
Acq: 01 Nov 2023 13:29

Tgt Ion: 95 Resp: 86473
Ion Ratio Lower Upper
95 100
174 85.3 0.0 178.2
176 82.4 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.501 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

67S-SB11-1218-D

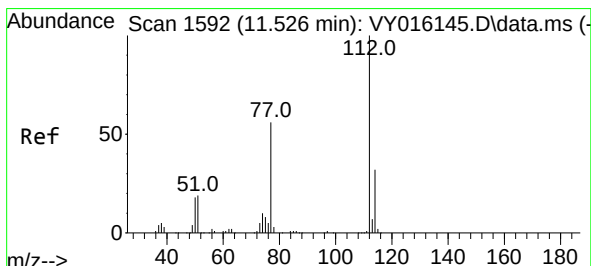
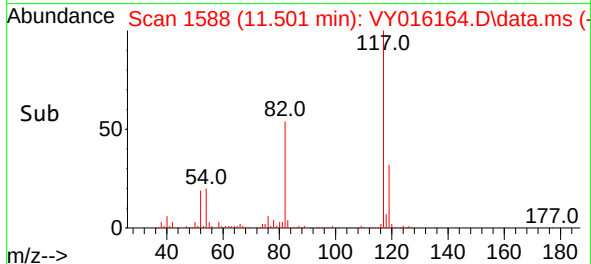
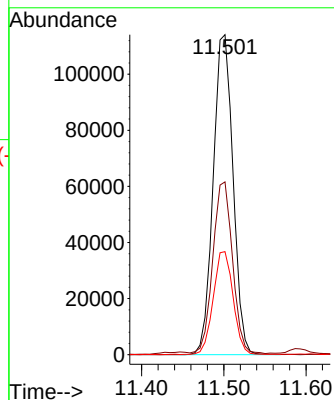
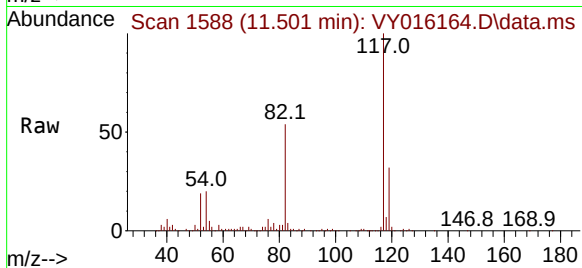
Tgt Ion:117 Resp: 190839

Ion Ratio Lower Upper

117 100

82 53.5 43.4 65.0

119 32.1 26.3 39.5



#65

Chlorobenzene

Concen: 1.270 ug/l

RT: 11.526 min Scan# 1592

Delta R.T. -0.000 min

Lab File: VY016164.D

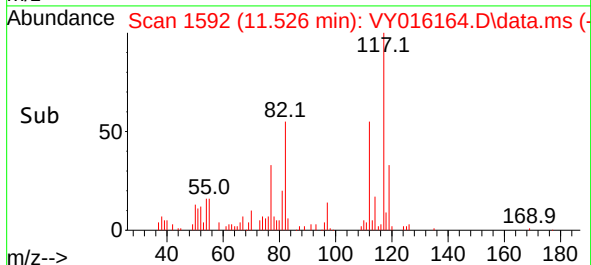
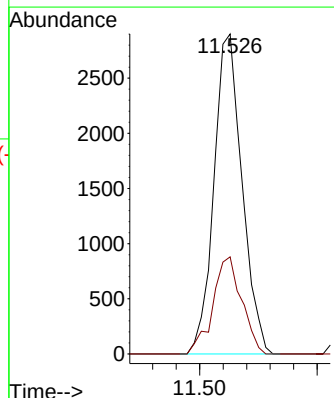
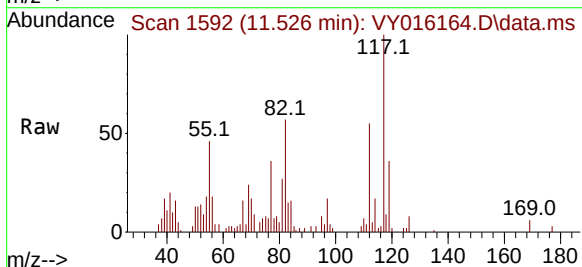
Acq: 01 Nov 2023 13:29

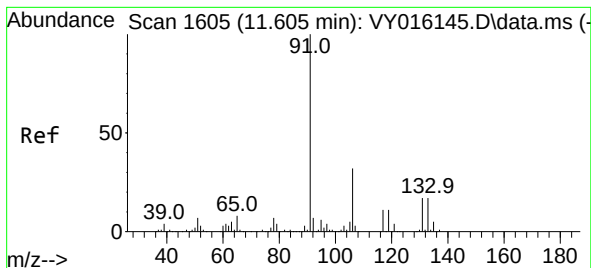
Tgt Ion:112 Resp: 4815

Ion Ratio Lower Upper

112 100

114 30.3 25.5 38.3





#67

Ethyl Benzene

Concen: 14.446 ug/l

RT: 11.599 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

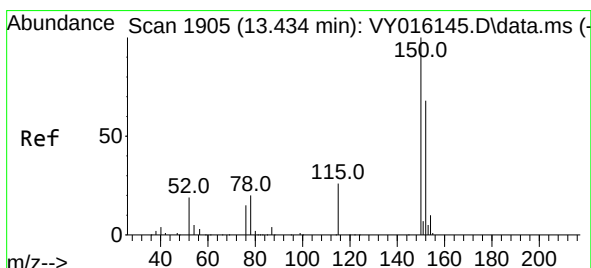
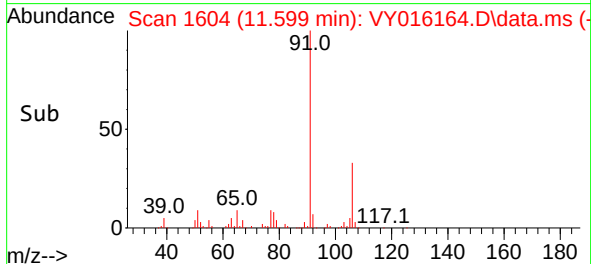
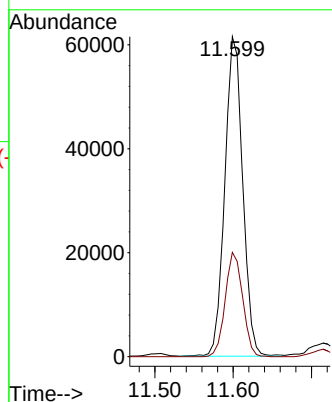
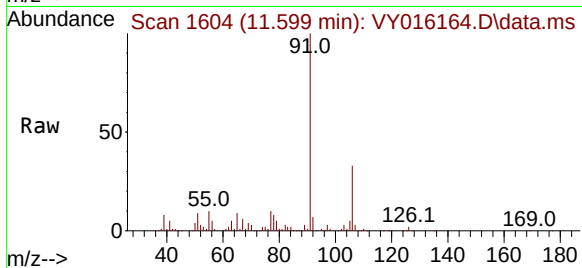
67S-SB11-1218-D

Tgt Ion: 91 Resp: 97970

Ion Ratio Lower Upper

91 100

106 32.7 24.6 36.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. -0.000 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

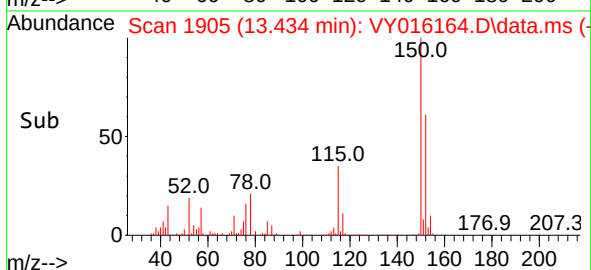
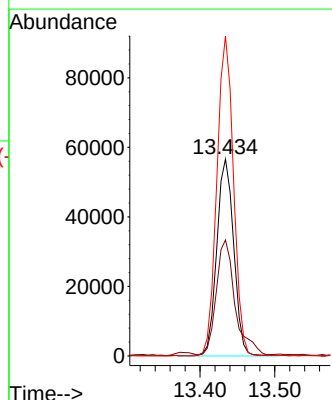
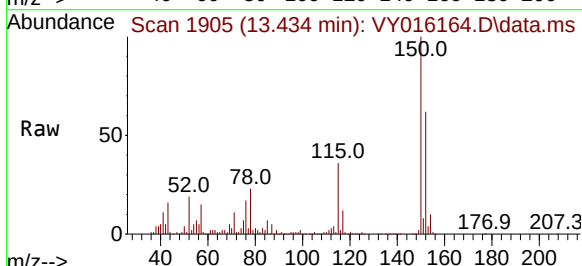
Tgt Ion: 152 Resp: 89375

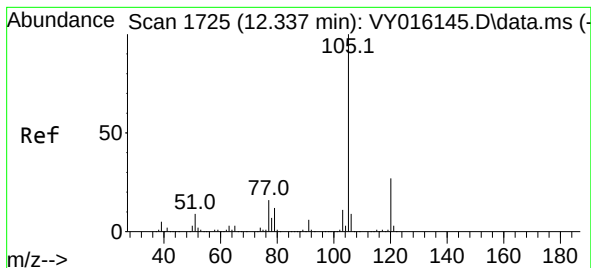
Ion Ratio Lower Upper

152 100

115 64.6 28.8 86.5

150 158.9 0.0 348.8





#73

Isopropylbenzene

Concen: 4.962 ug/l

RT: 12.337 min Scan# 1725

Delta R.T. -0.000 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

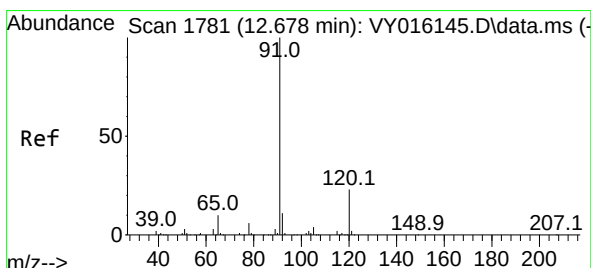
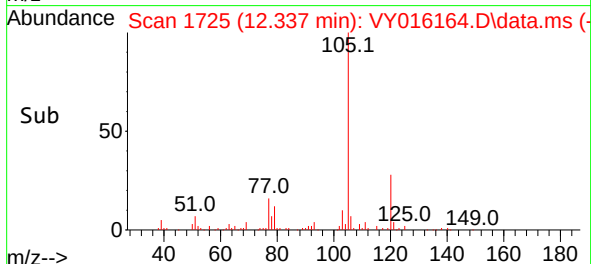
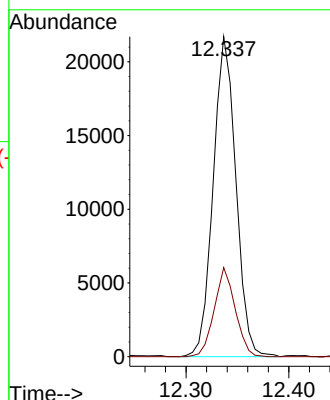
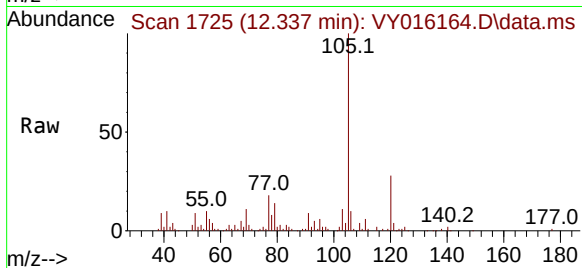
67S-SB11-1218-D

Tgt Ion:105 Resp: 33268

Ion Ratio Lower Upper

105 100

120 25.7 13.3 39.9



#78

n-propylbenzene

Concen: 24.155 ug/l

RT: 12.678 min Scan# 1781

Delta R.T. -0.000 min

Lab File: VY016164.D

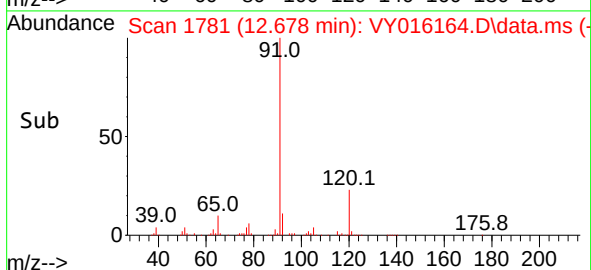
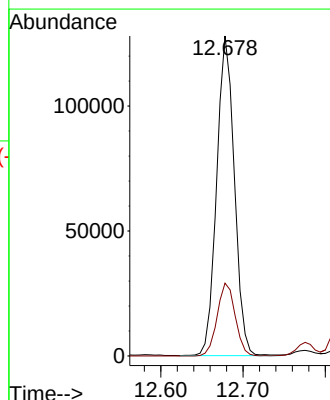
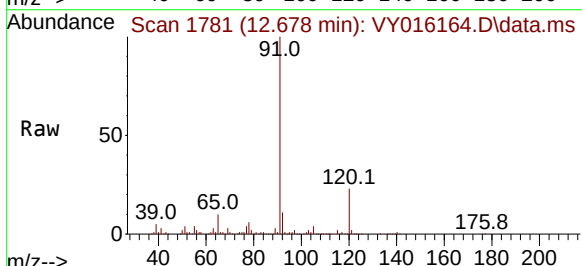
Acq: 01 Nov 2023 13:29

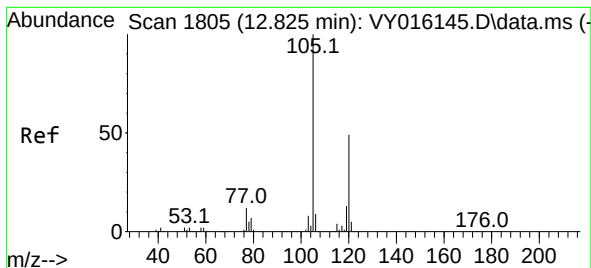
Tgt Ion: 91 Resp: 191457

Ion Ratio Lower Upper

91 100

120 23.2 11.5 34.4





#80

1,3,5-Trimethylbenzene

Concen: 10.125 ug/l

RT: 12.818 min Scan# 1804

Delta R.T. -0.006 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

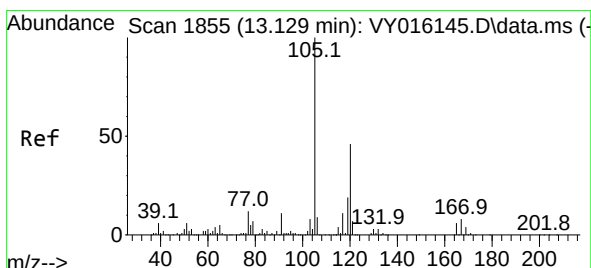
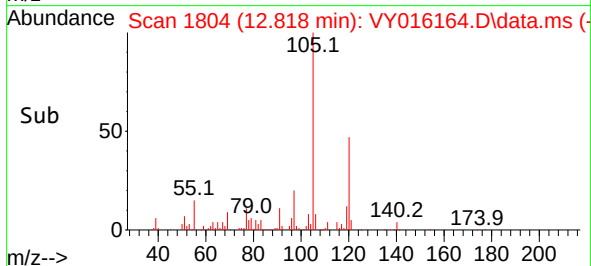
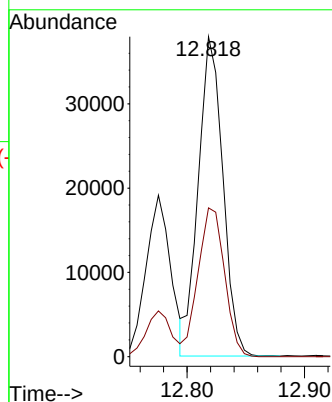
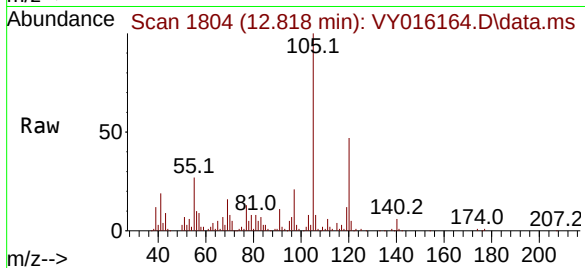
67S-SB11-1218-D

Tgt Ion:105 Resp: 54996

Ion Ratio Lower Upper

105 100

120 50.3 23.9 71.7



#84

1,2,4-Trimethylbenzene

Concen: 9.446 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.000 min

Lab File: VY016164.D

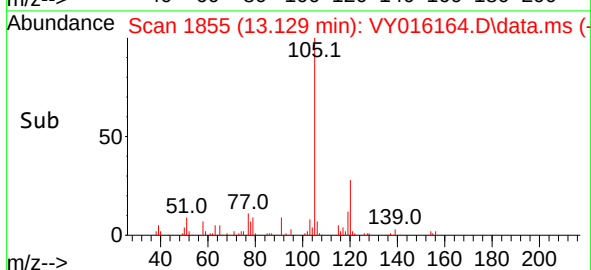
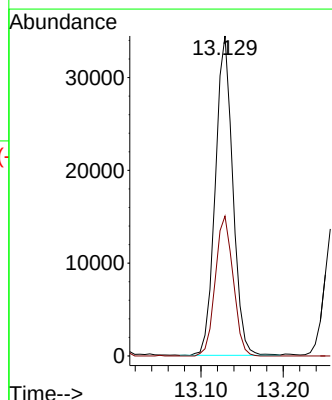
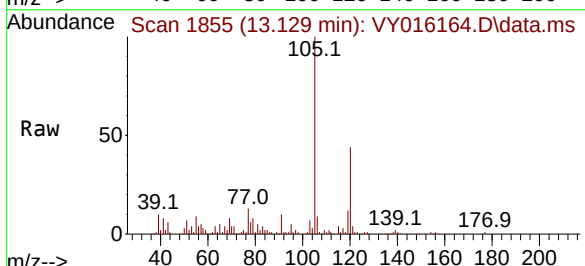
Acq: 01 Nov 2023 13:29

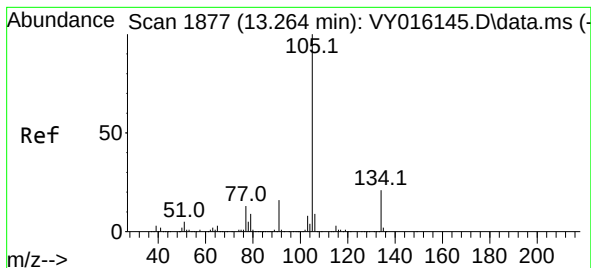
Tgt Ion:105 Resp: 50769

Ion Ratio Lower Upper

105 100

120 44.7 22.2 66.6





#85

sec-Butylbenzene

Concen: 2.980 ug/l

RT: 13.263 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

Instrument :

MSVOA_Y

ClientSampleId :

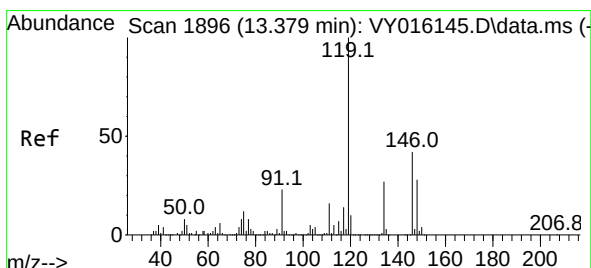
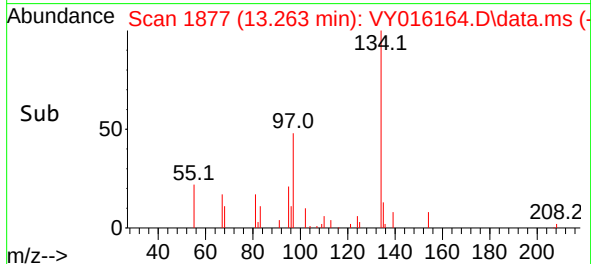
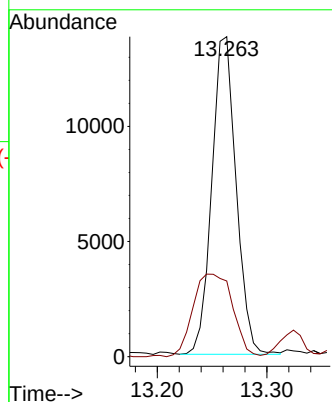
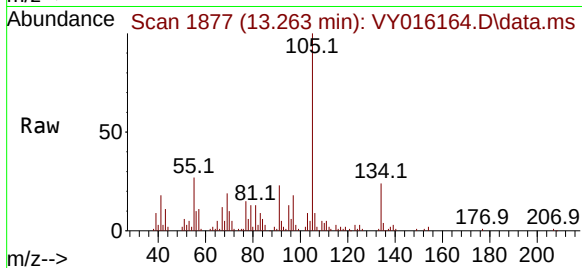
67S-SB11-1218-D

Tgt Ion:105 Resp: 21258

Ion Ratio Lower Upper

105 100

134 42.5 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 3.417 ug/l

RT: 13.379 min Scan# 1896

Delta R.T. -0.000 min

Lab File: VY016164.D

Acq: 01 Nov 2023 13:29

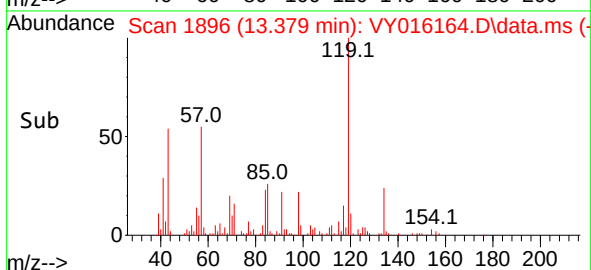
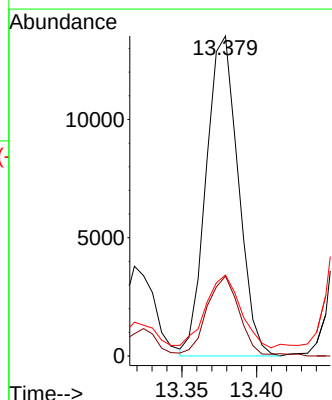
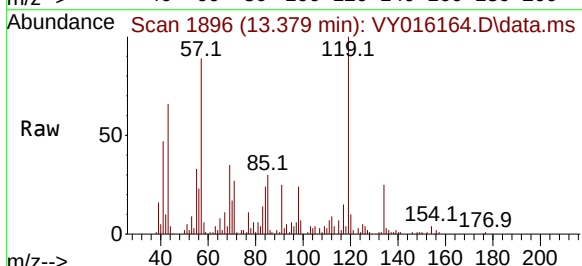
Tgt Ion:119 Resp: 20202

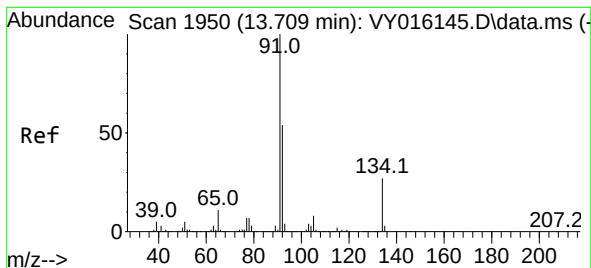
Ion Ratio Lower Upper

119 100

134 23.9 13.3 39.8

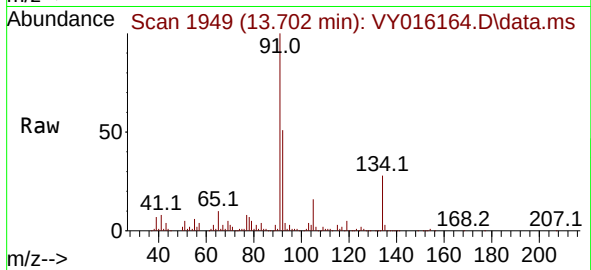
91 24.6 12.4 37.4





#89
 n-Butylbenzene
 Concen: 19.971 ug/l
 RT: 13.702 min Scan# 1949
 Delta R.T. -0.006 min
 Lab File: VY016164.D
 Acq: 01 Nov 2023 13:29

Instrument :
 MSVOA_Y
 ClientSampleId :
 67S-SB11-1218-D



Tgt Ion: 91	Resp: 108483
Ion Ratio	Lower Upper
91	100
92	43.2 25.4 76.0
134	0.0 12.6 37.6#

