

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM041719\
 Data File : BM019935.D
 Acq On : 17 Apr 2019 13:09
 Operator : JU/SJ
 Sample : K2199-11DL 2X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:59:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM041519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 15 16:16:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	142533	20.00	ng	0.00
21) Naphthalene-d8	10.31	136	542556	20.00	ng	0.00
39) Acenaphthene-d10	14.19	164	290544	20.00	ng	0.00
64) Phenanthrene-d10	16.96	188	617083	20.00	ng	0.00
76) Chrysene-d12	21.17	240	614645	20.00	ng	0.00
87) Perylene-d12	23.37	264	748680	20.00	ng	-0.01

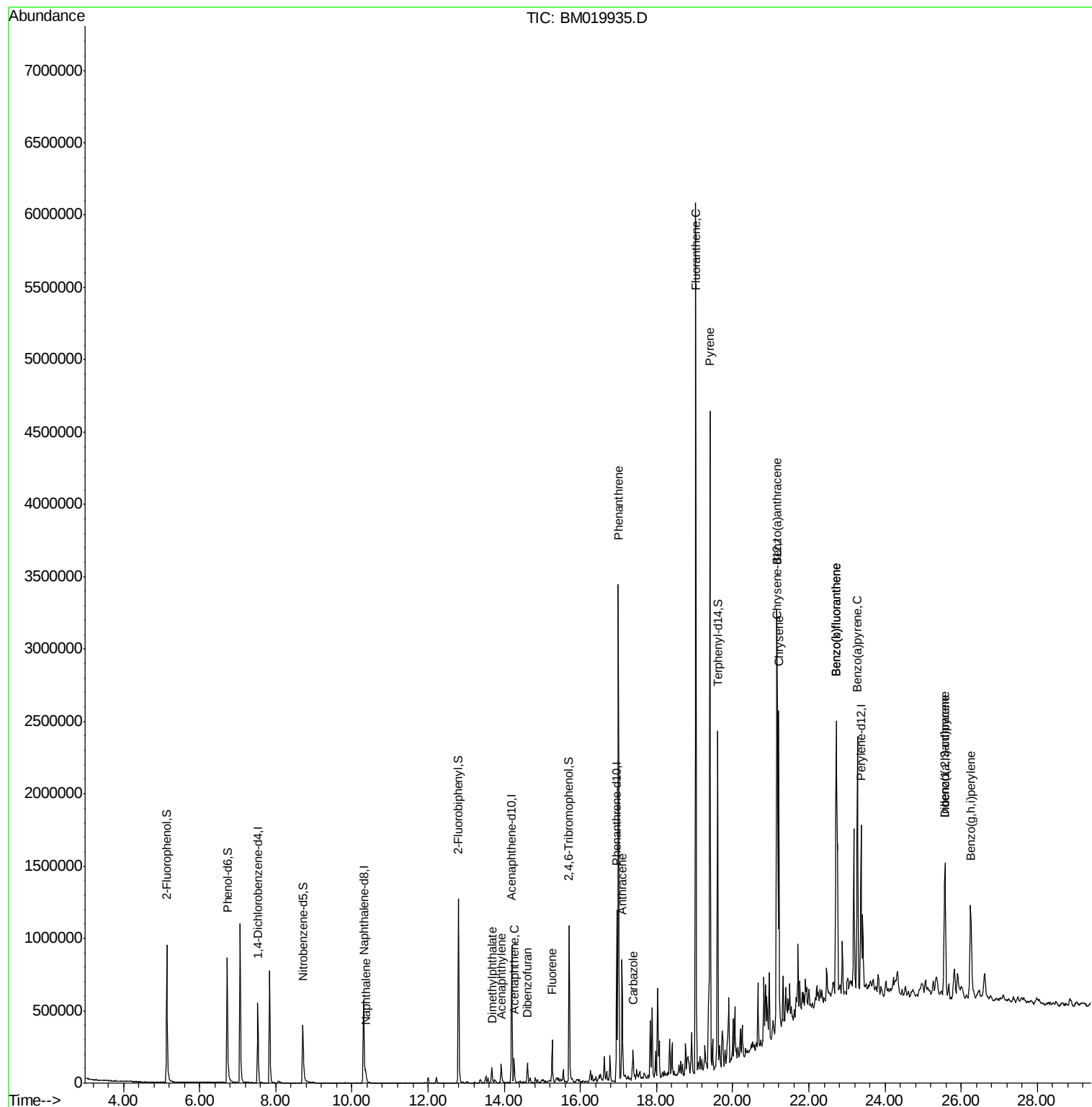
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.14	112	412700	46.93	ng	0.00
7) Phenol-d6	6.72	99	558653	42.21	ng	0.00
23) Nitrobenzene-d5	8.71	82	337555	27.82	ng	0.00
42) 2,4,6-Tribromophenol	15.71	330	184067	39.36	ng	0.00
45) 2-Fluorobiphenyl	12.80	172	670553	28.76	ng	0.00
79) Terphenyl-d14	19.60	244	923424	26.50	ng	0.00

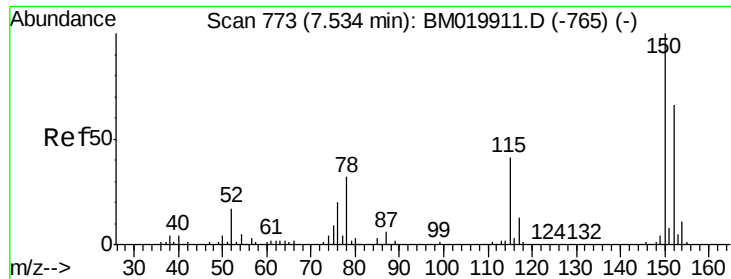
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.72	77	1838	Below Cal		# 7
31) Naphthalene	10.36	128	66985	2.302	ng	98
49) Acenaphthylene	13.92	152	104985	3.143	ng	99
50) Dimethylphthalate	13.67	163	70349	2.745	ng	100
52) Acenaphthene	14.26	154	60164	3.249	ng	98
55) Dibenzofuran	14.61	168	84334	2.785	ng	97
58) Fluorene	15.26	166	128651	5.014	ng	100
71) Phenanthrene	17.00	178	1899059	51.859	ng	99
72) Anthracene	17.09	178	494359	13.562	ng	98
73) Carbazole	17.39	167	115758	3.401	ng	98
75) Fluoranthene	19.03	202	3127556	74.214	ng	99
78) Pyrene	19.40	202	2528153	62.111	ng	100
81) Benzo(a)anthracene	21.16	228	1318069	33.852	ng	100
83) Chrysene	21.21	228	1057774	28.328	ng	97
86) Indeno(1,2,3-cd)pyrene	25.57	276	785659	21.389	ng	96
88) Benzo(b)fluoranthene	22.72	252	2021369	40.660	ng	99
89) Benzo(k)fluoranthene	22.72	252	2023416	43.233	ng	99
90) Benzo(a)pyrene	23.27	252	1103688	25.056	ng	98
91) Dibenzo(a,h)anthracene	25.57	278	215435	5.073	ng	# 76
92) Benzo(a,h,i)perylene	26.25	276	730462	18.990	ng	99

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

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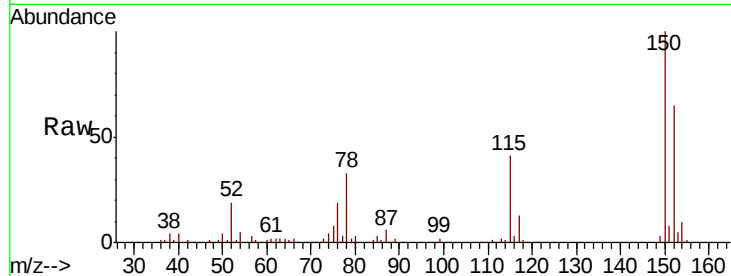




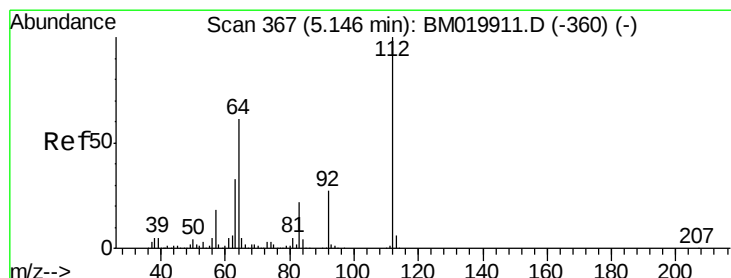
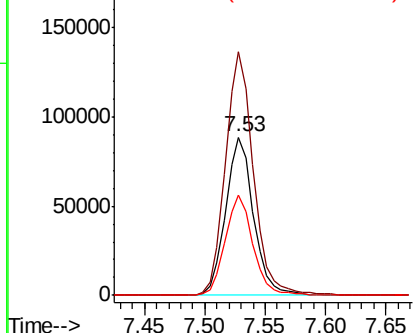
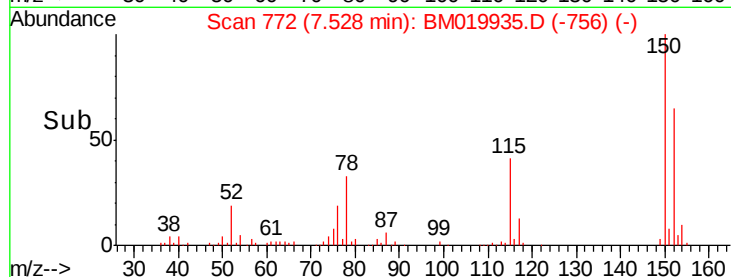
#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.53 min Scan# 772
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	122.1	183.1
115	62.9	50.0	75.0



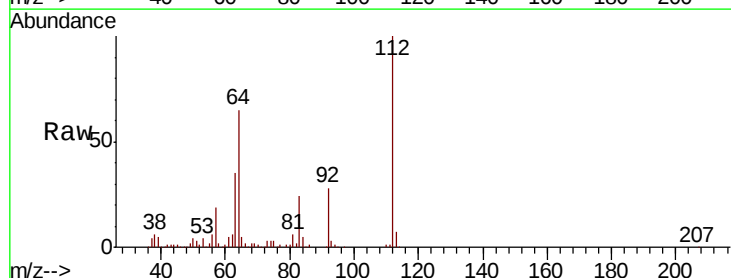
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



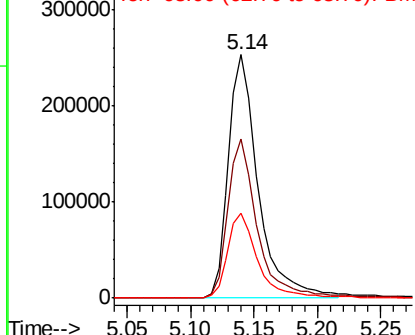
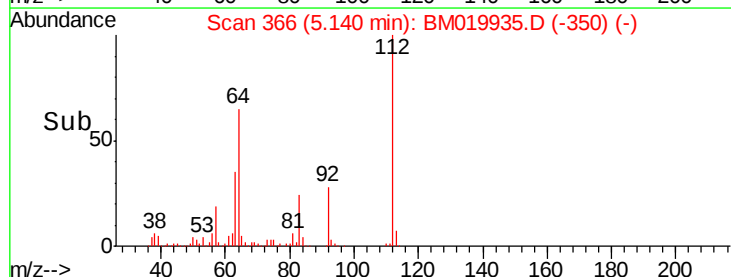
#5

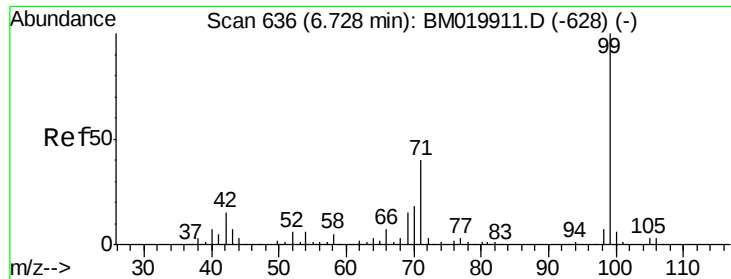
2-Fluorophenol
Concen: 46.925 ng
RT: 5.14 min Scan# 366
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	49.1	73.7
63	34.8	26.5	39.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 42.207 ng

RT: 6.72 min Scan# 635

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

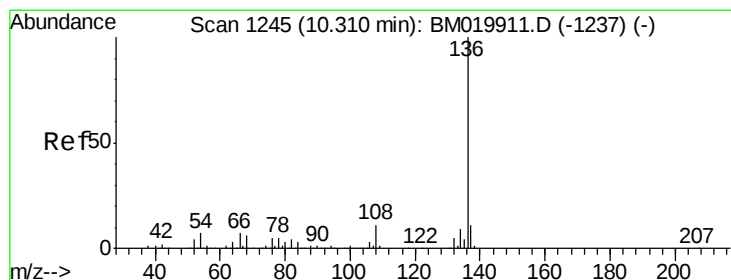
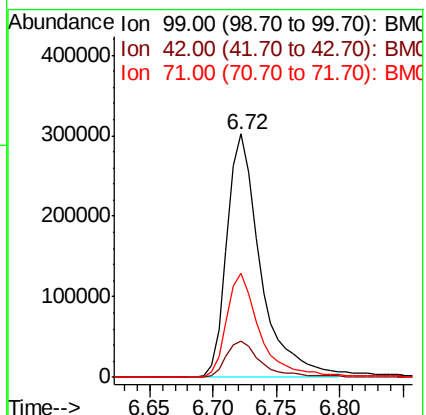
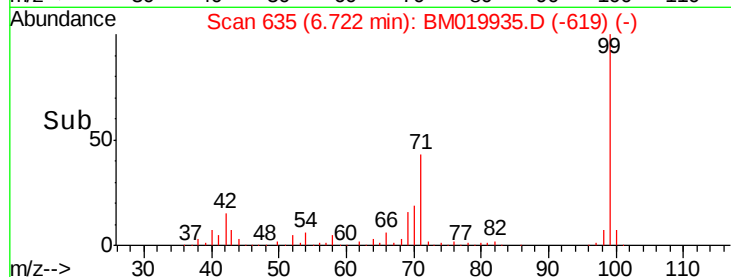
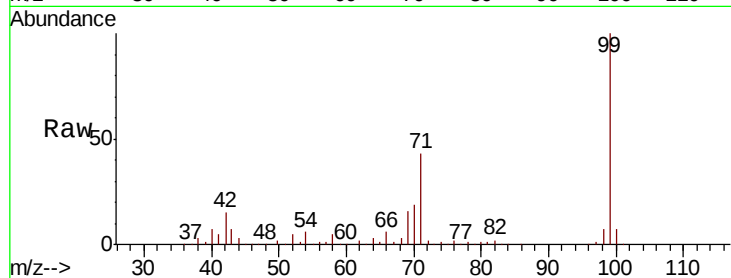
Tot Ion: 99 Resp: 558653

Ion Ratio Lower Upper

99 100

42 15.1 11.8 17.8

71 42.5 32.0 48.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.31 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

Tgt Ion: 136 Resp: 542556

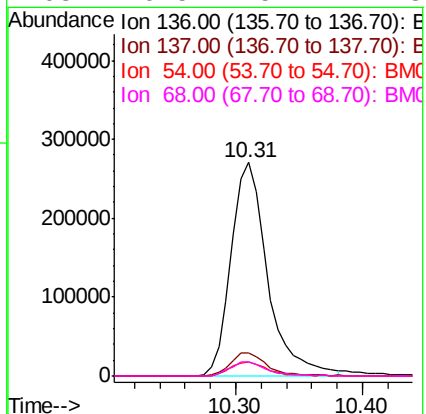
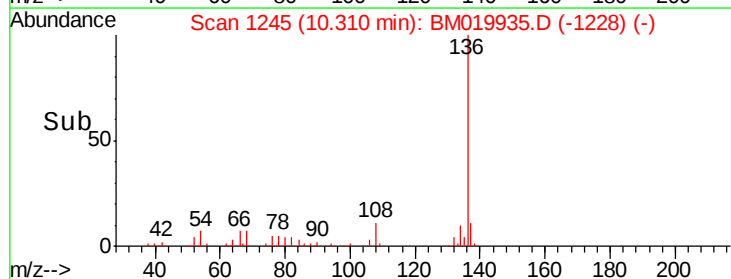
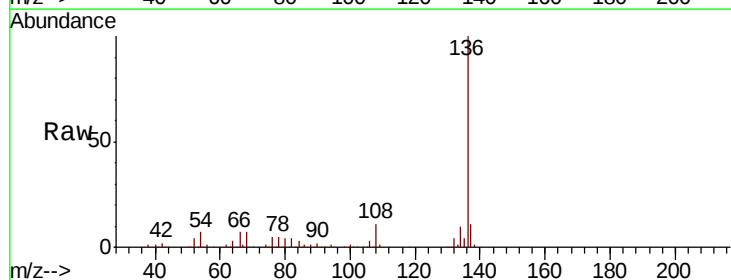
Ion Ratio Lower Upper

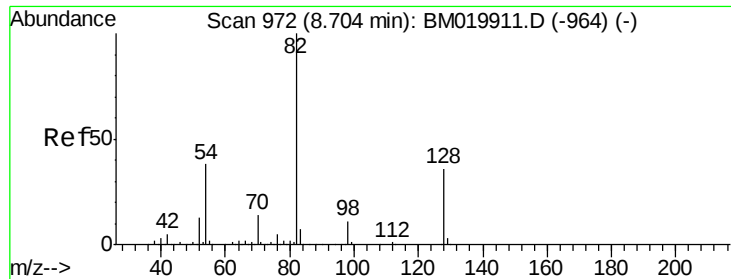
136 100

137 10.7 9.0 13.6

54 6.6 5.3 7.9

68 6.5 5.2 7.8





#23

Nitrobenzene-d5

Concen: 27.824 ng

RT: 8.71 min Scan# 973

Delta R.T. 0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

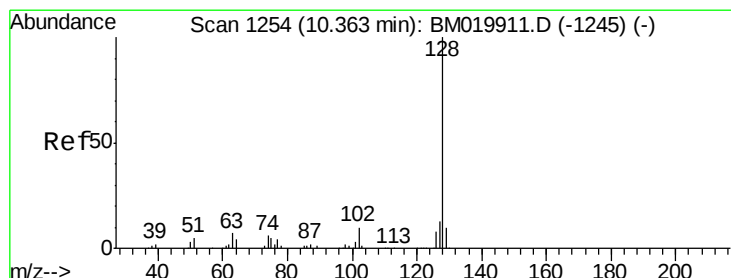
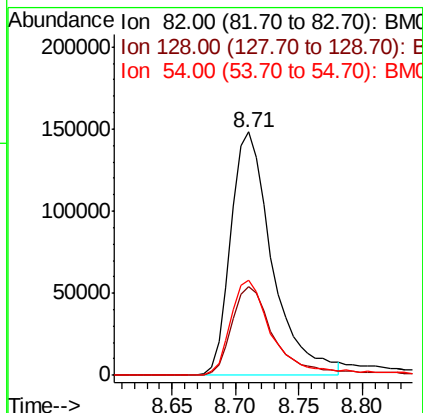
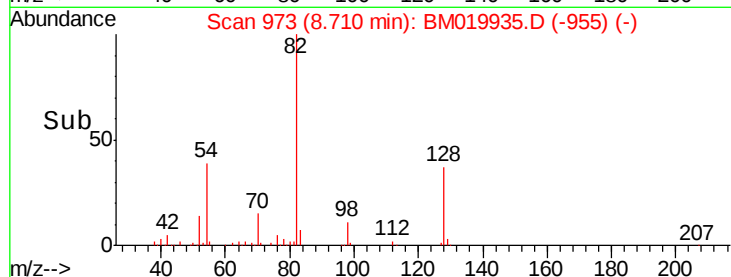
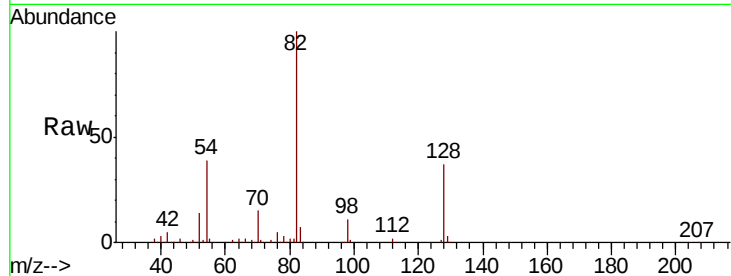
Tot Ion: 82 Resp: 337555

Ion Ratio Lower Upper

82 100

128 36.7 29.0 43.4

54 39.0 30.2 45.4



#31

Naphthalene

Concen: 2.302 ng

RT: 10.36 min Scan# 1254

Delta R.T. 0.00 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

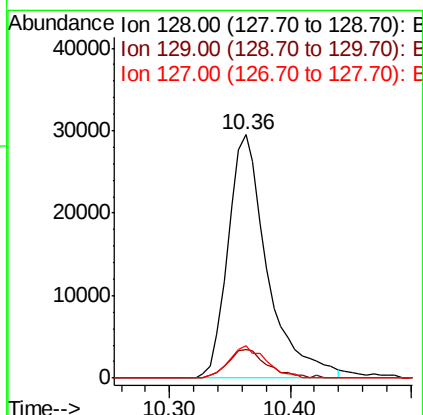
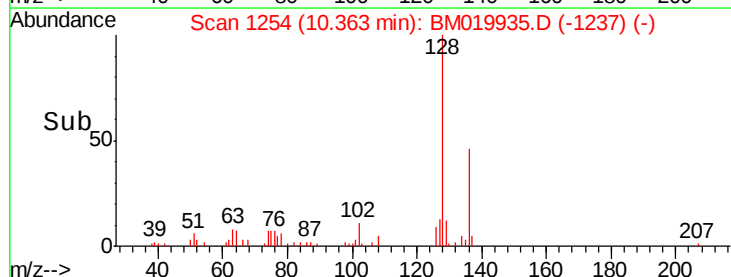
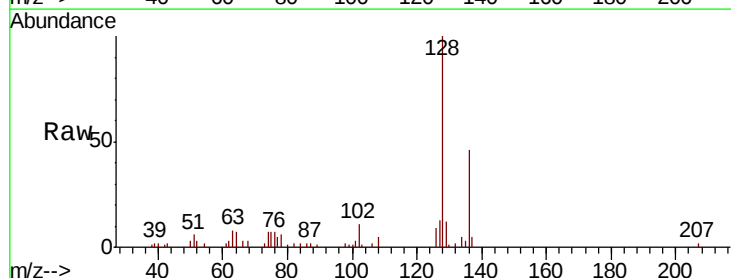
Tgt Ion: 128 Resp: 66985

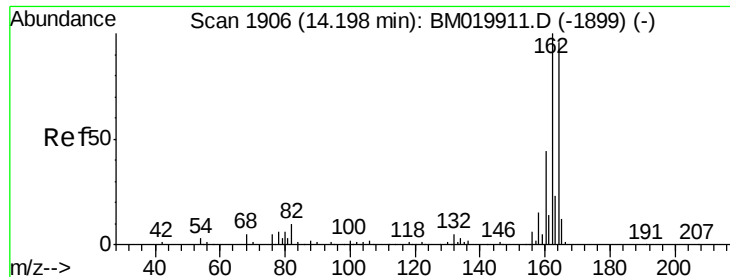
Ion Ratio Lower Upper

128 100

129 11.7 8.3 12.5

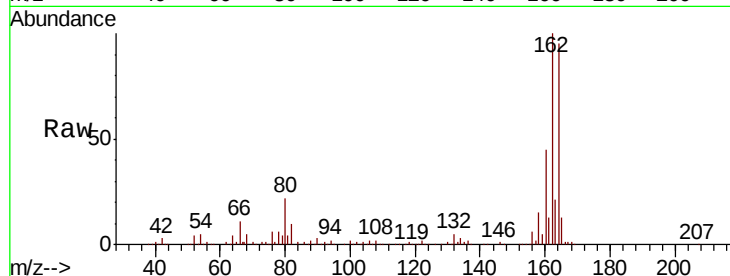
127 13.4 10.4 15.6





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.19 min Scan# 1905
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.0	124.4
160	47.3	36.6	55.0

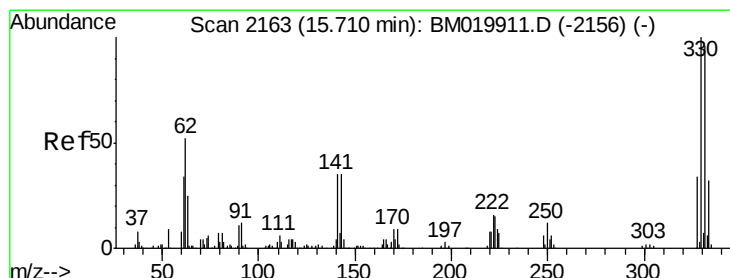
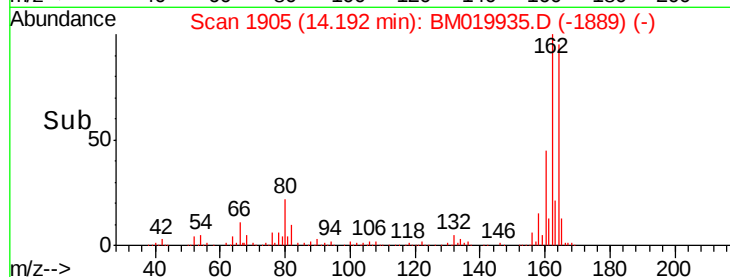
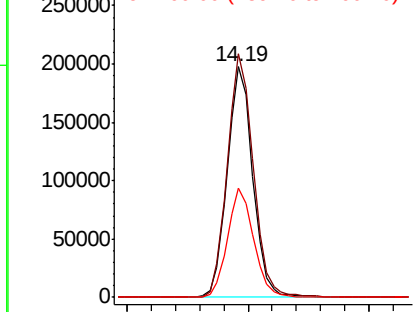


Abundance

Ion 164.00 (163.70 to 164.70): E

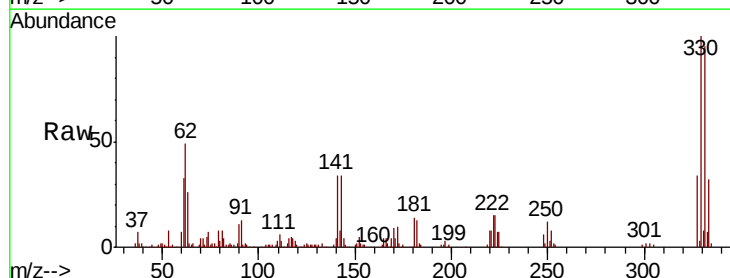
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 39.356 ng
RT: 15.71 min Scan# 2163
Delta R.T. 0.00 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.4	116.2
141	39.2	29.0	43.4

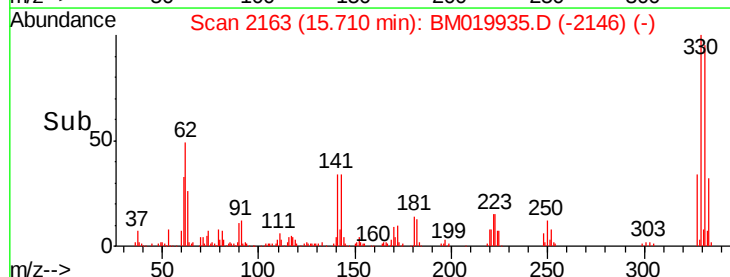
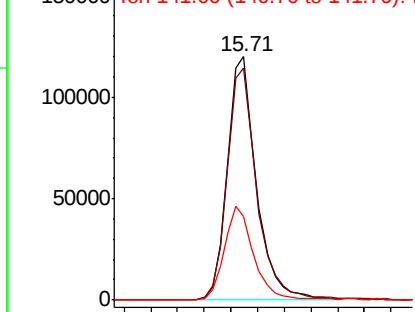


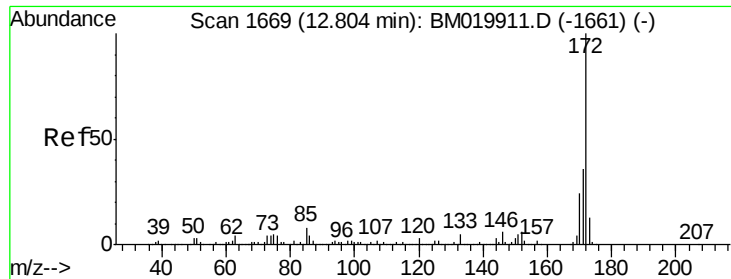
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

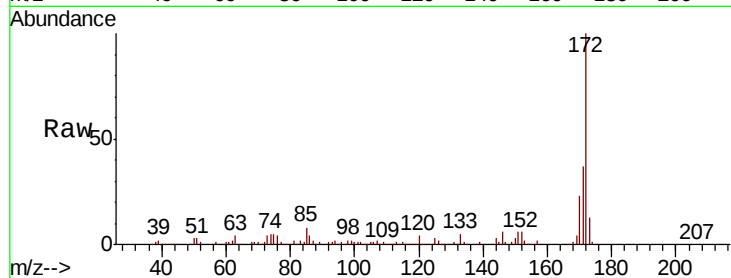
Ion 141.00 (140.70 to 141.70): E



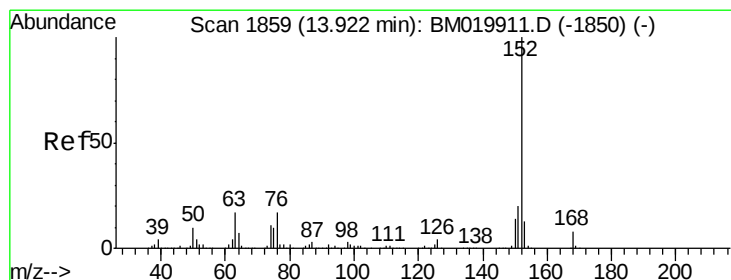
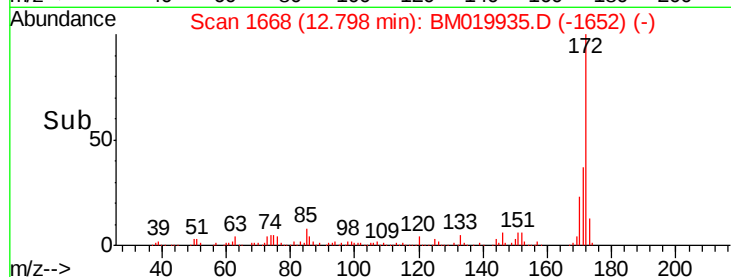
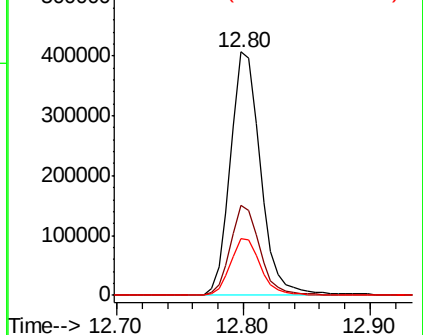


#45
2-Fluorobiphenyl
Concen: 28.762 ng
RT: 12.80 min Scan# 1668
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.9	43.3
170	23.3	19.0	28.4

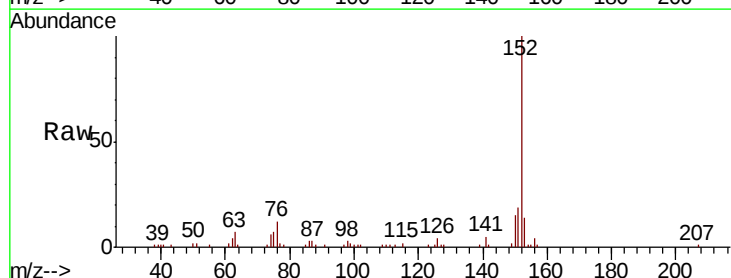


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

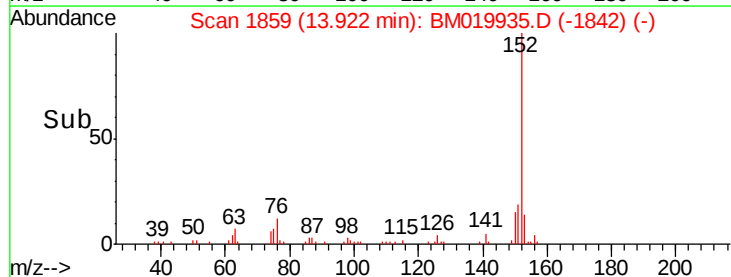
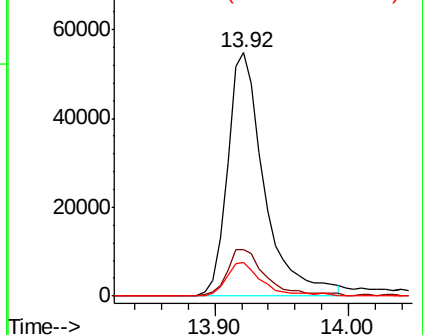


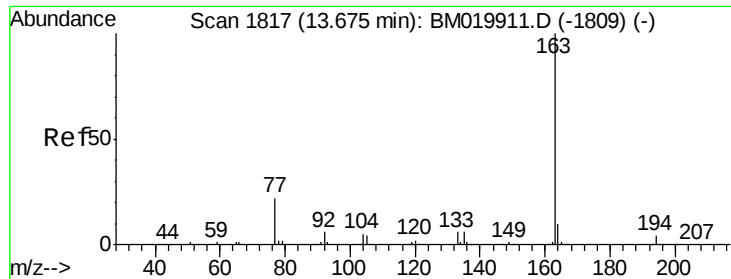
#49
Acenaphthylene
Concen: 3.143 ng
RT: 13.92 min Scan# 1859
Delta R.T. 0.00 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.2	24.2
153	13.7	10.6	16.0



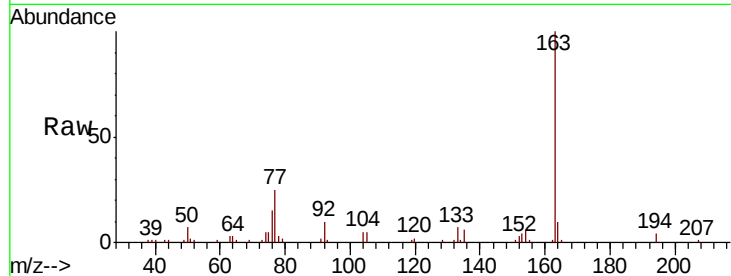
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



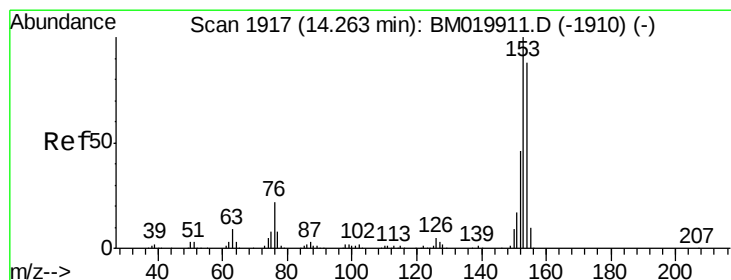
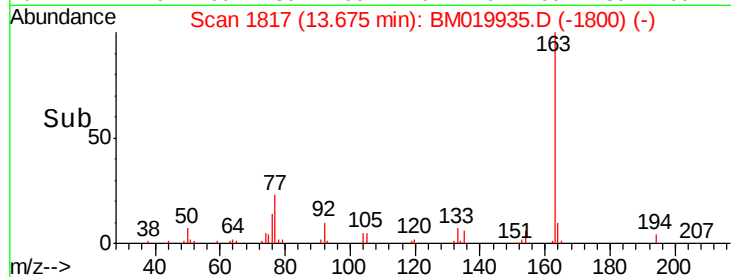
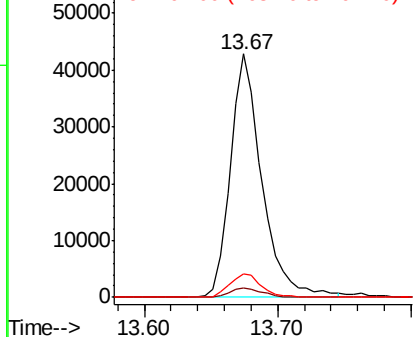


#50
Dimethylphthalate
Concen: 2.745 ng
RT: 13.67 min Scan# 1817
Delta R.T. 0.00 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion:163 Resp: 70349
Ion Ratio Lower Upper
163 100
194 3.8 3.1 4.7
164 9.7 7.9 11.9

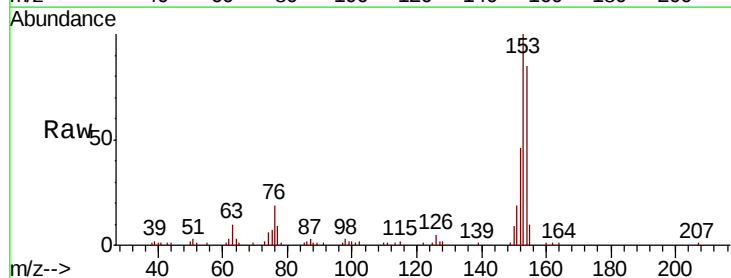


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

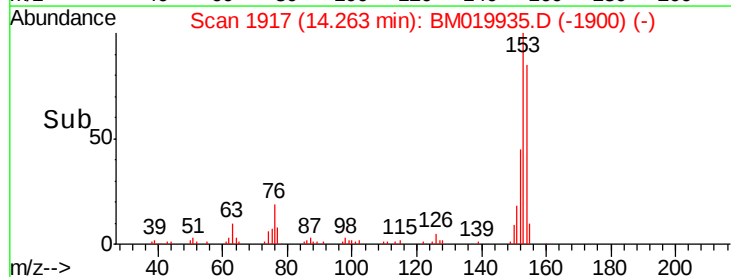
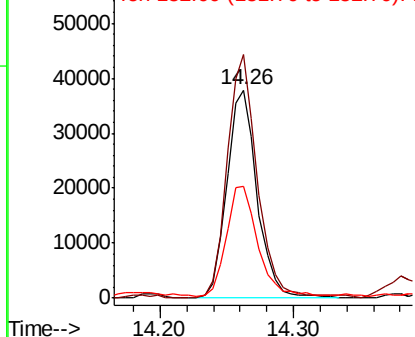


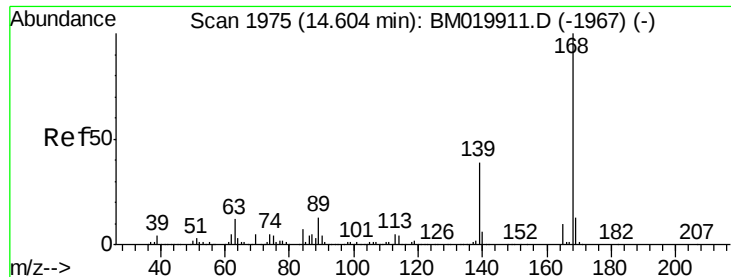
#52
Acenaphthene
Concen: 3.249 ng
RT: 14.26 min Scan# 1917
Delta R.T. 0.00 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt Ion:154 Resp: 60164
Ion Ratio Lower Upper
154 100
153 117.0 91.0 136.4
152 53.6 42.2 63.2



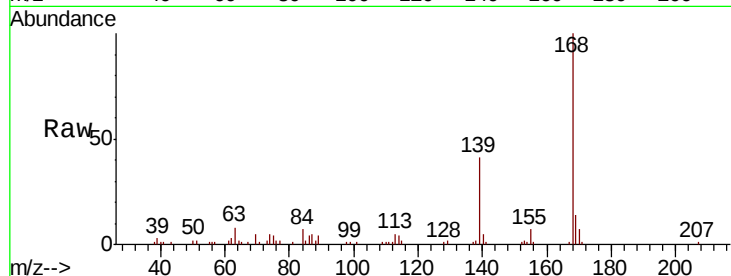
Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



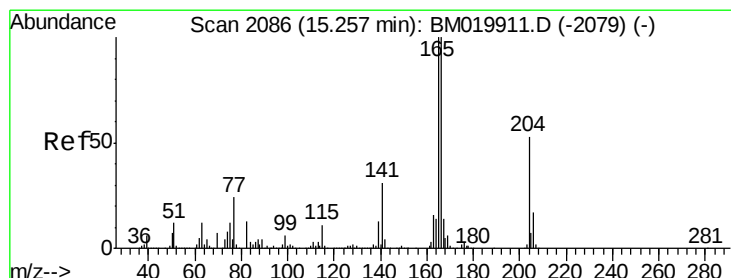
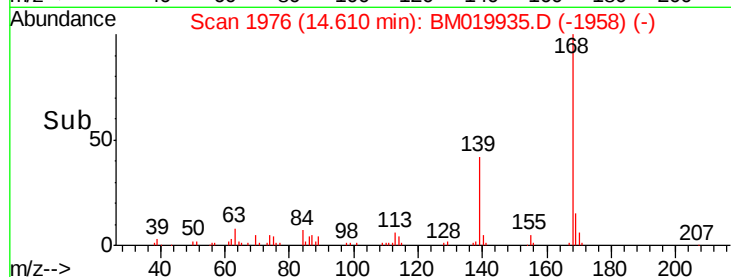
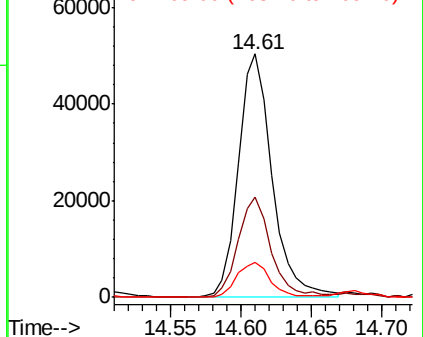


#55
Dibenzofuran
Concen: 2.785 ng
RT: 14.61 min Scan# 1976
Delta R.T. 0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion:168 Resp: 84334
Ion Ratio Lower Upper
168 100
139 41.2 31.5 47.3
169 14.4 10.6 16.0

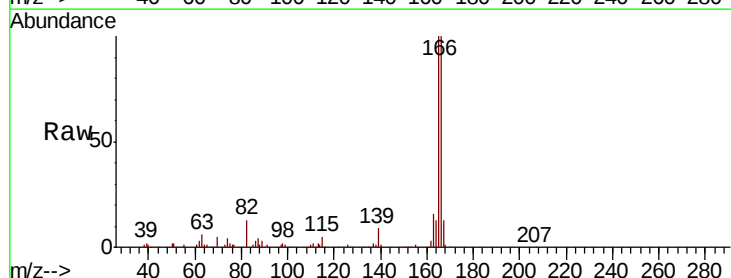


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

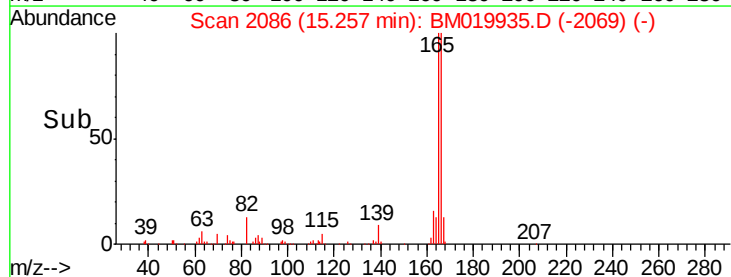
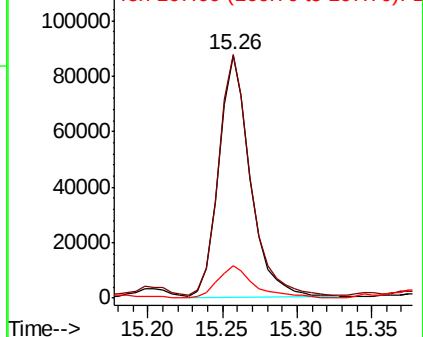


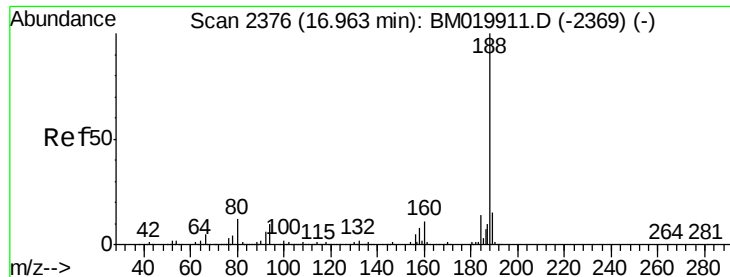
#58
Fluorene
Concen: 5.014 ng
RT: 15.26 min Scan# 2086
Delta R.T. 0.00 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt Ion:166 Resp: 128651
Ion Ratio Lower Upper
166 100
165 100.4 80.1 120.1
167 13.5 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.96 min Scan# 2375

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

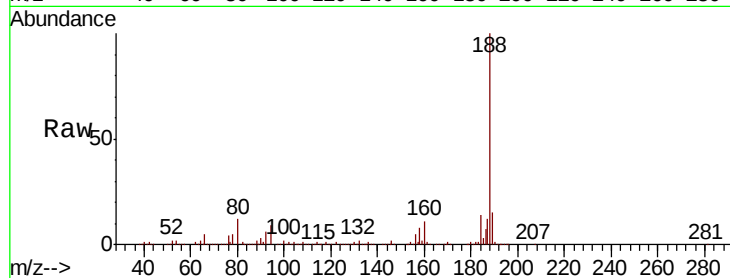
Tot Ion:188 Resp: 617083

Ion Ratio Lower Upper

188 100

94 9.0 7.6 11.4

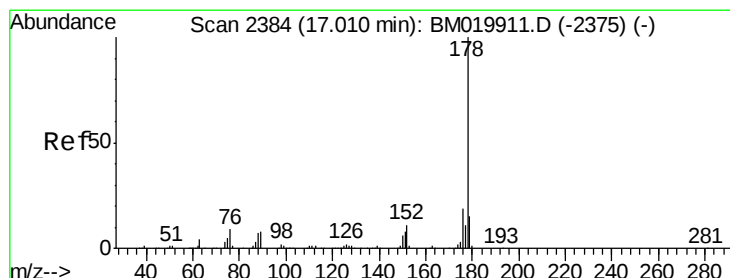
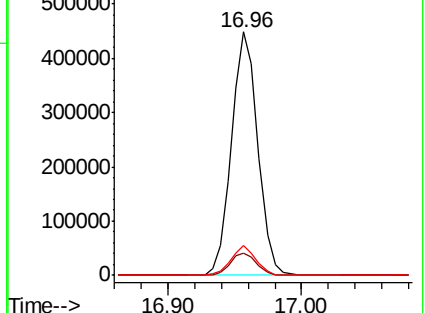
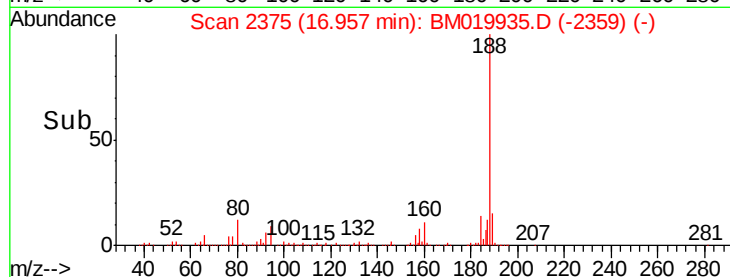
80 12.0 9.4 14.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#71

Phenanthrene

Concen: 51.859 ng

RT: 17.00 min Scan# 2382

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

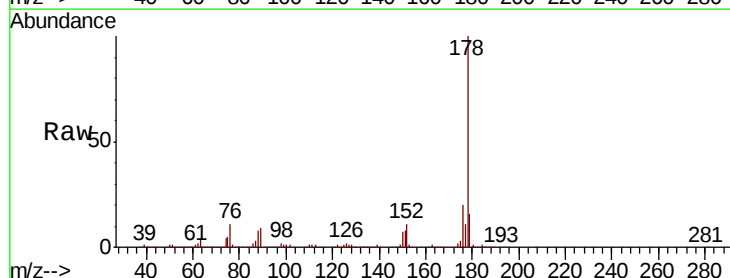
Tgt Ion:178 Resp: 1899059

Ion Ratio Lower Upper

178 100

176 19.5 15.2 22.8

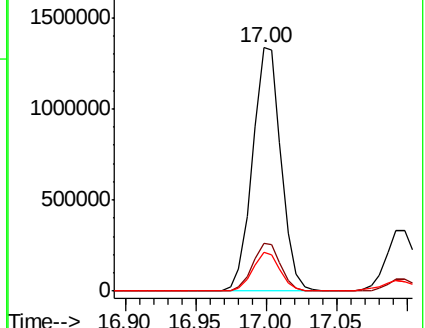
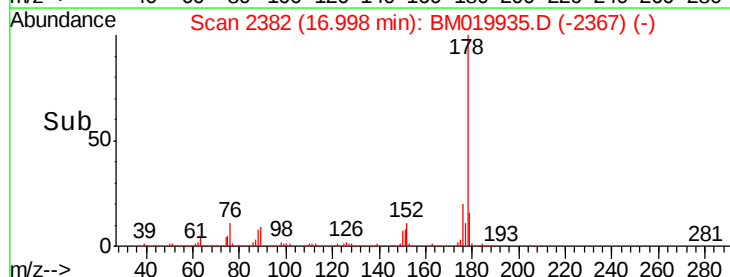
179 15.8 12.2 18.4

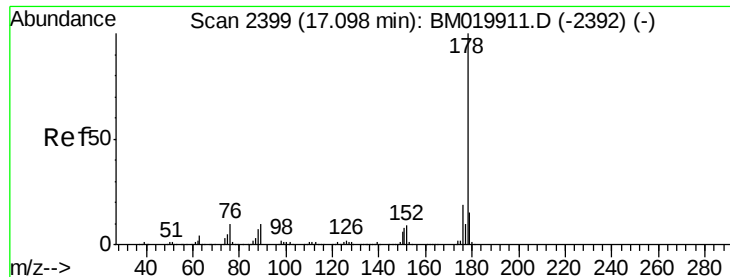


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 13.562 ng

RT: 17.09 min Scan# 2398

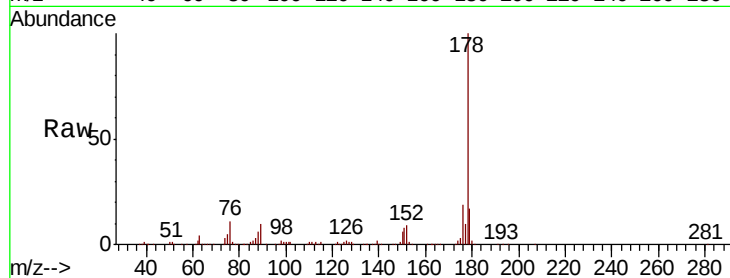
Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

Tot Ion:178 Resp: 494359

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.4
179	16.6	12.2	18.4

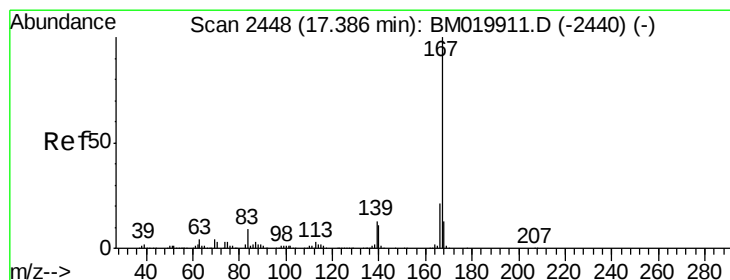
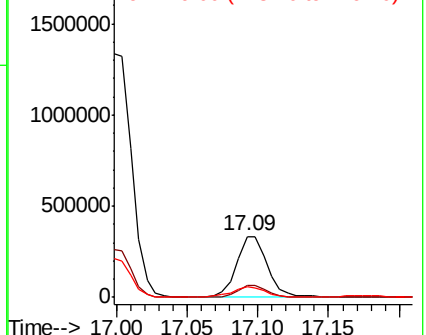
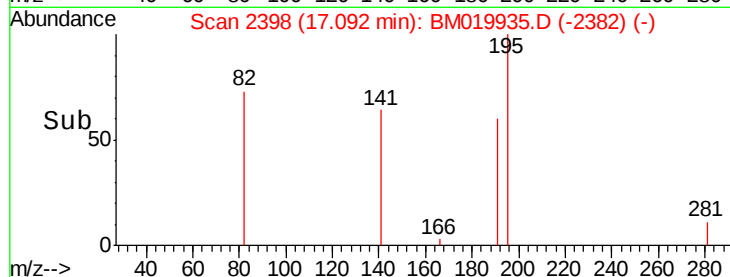


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 3.401 ng

RT: 17.39 min Scan# 2448

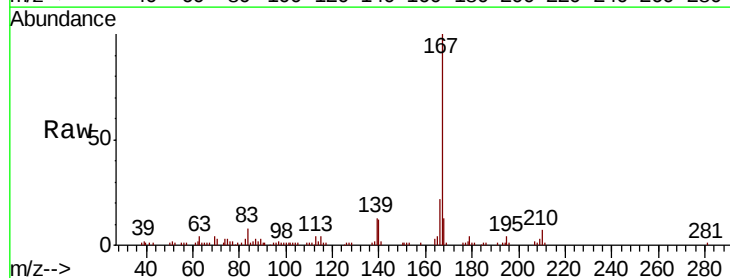
Delta R.T. 0.00 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

Tgt Ion:167 Resp: 115758

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.2	25.8
139	12.6	10.7	16.1

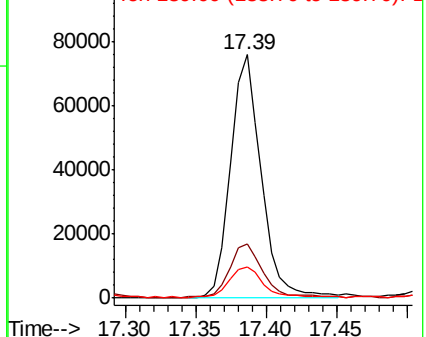
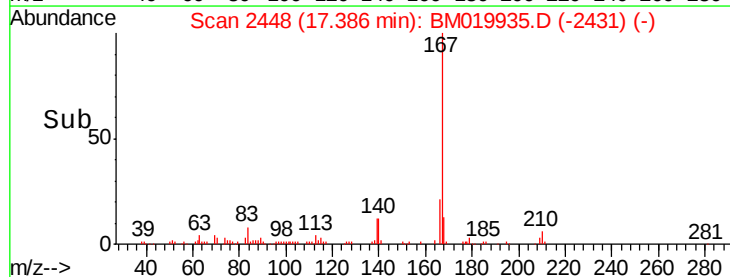


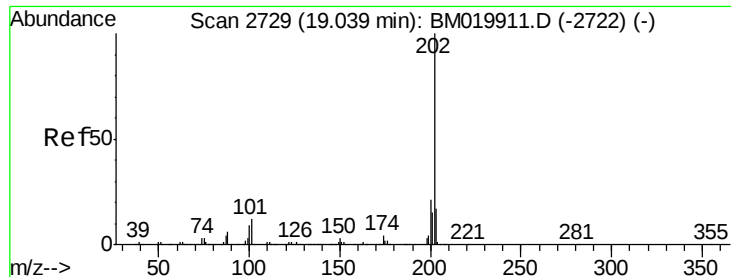
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 74.214 ng

RT: 19.03 min Scan# 2728

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

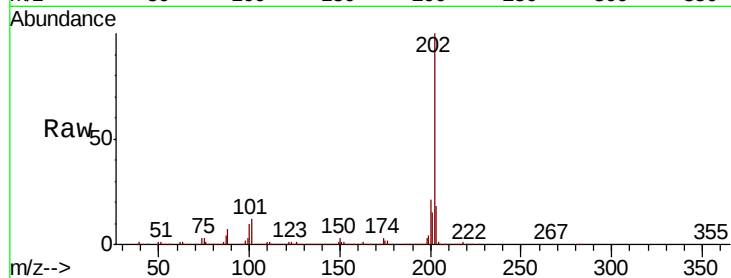
Tot Ion:202 Resp: 3127556

Ion Ratio Lower Upper

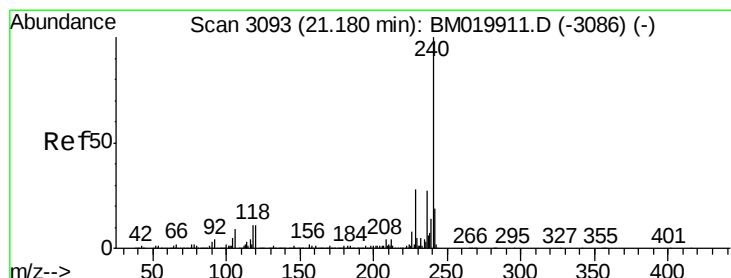
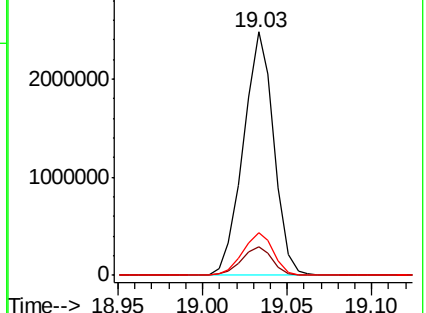
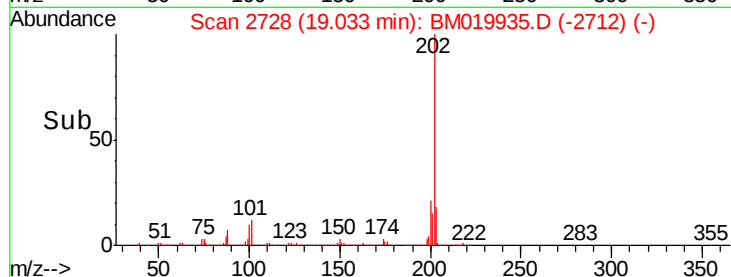
202 100

101 11.9 0.0 31.7

203 17.7 0.0 37.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.17 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

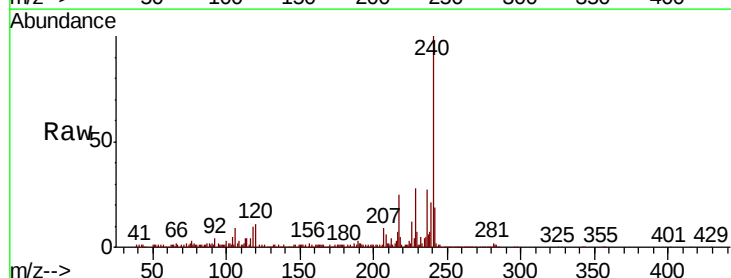
Tgt Ion:240 Resp: 614645

Ion Ratio Lower Upper

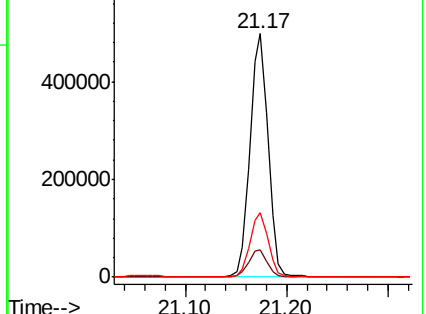
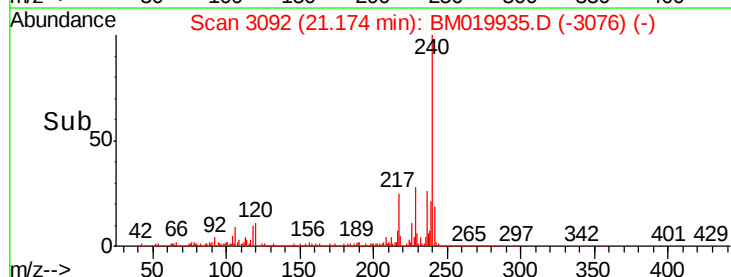
240 100

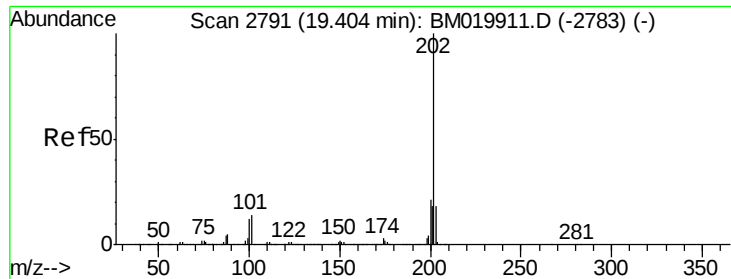
120 11.3 8.6 13.0

236 26.5 21.4 32.2



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 62.111 ng

RT: 19.40 min Scan# 2790

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

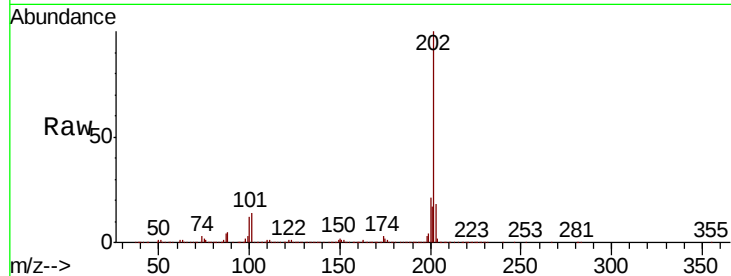
Tot Ion:202 Resp: 2528153

Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 17.6 14.0 21.0

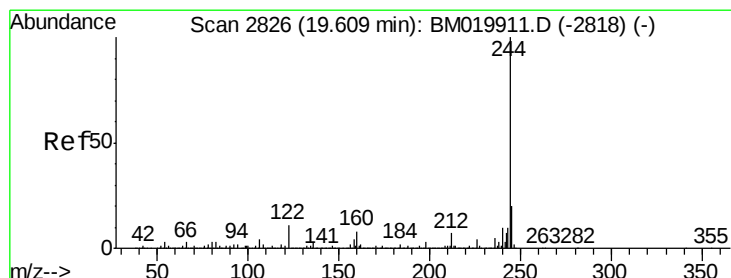
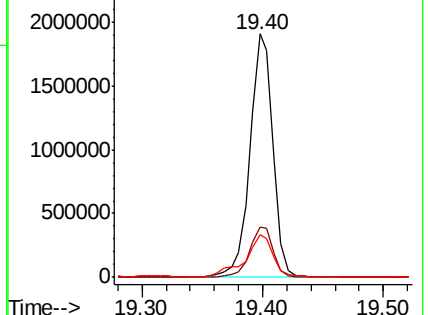
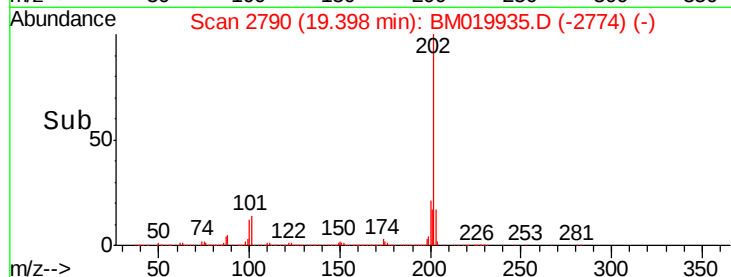


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 26.499 ng

RT: 19.60 min Scan# 2825

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

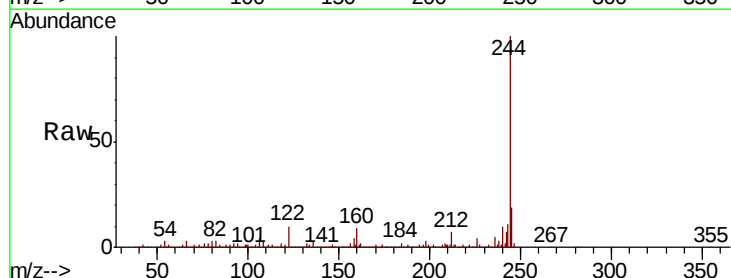
Tgt Ion:244 Resp: 923424

Ion Ratio Lower Upper

244 100

212 7.1 5.7 8.5

122 10.3 9.1 13.7

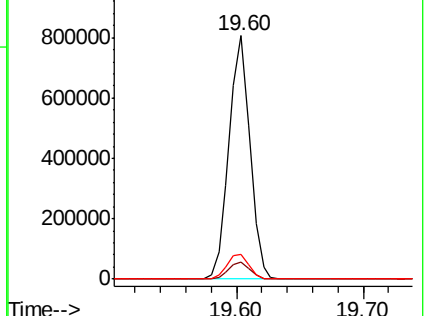
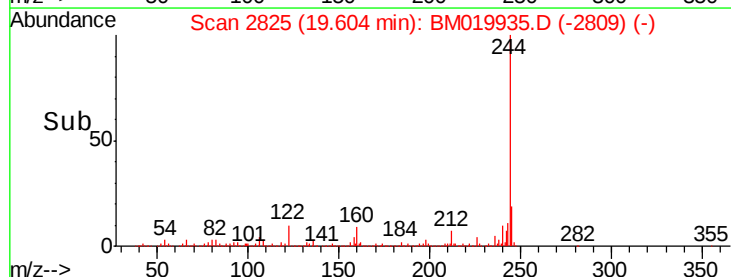


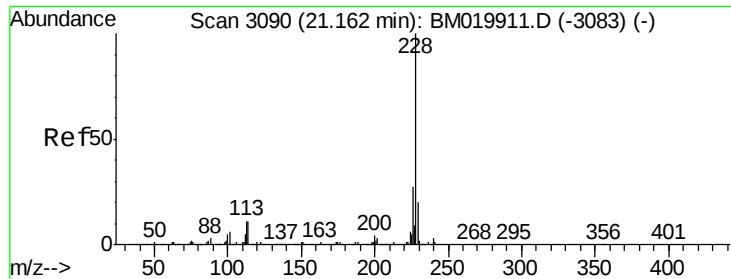
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

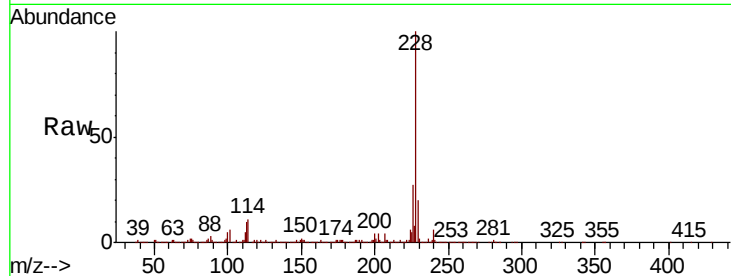




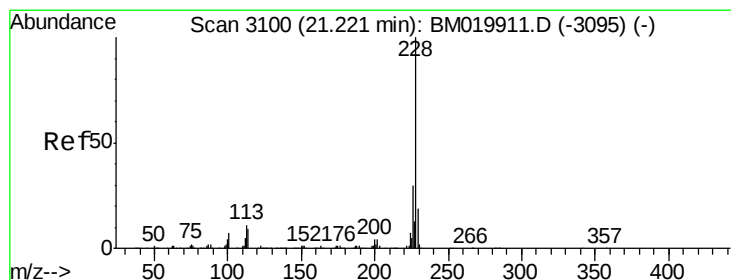
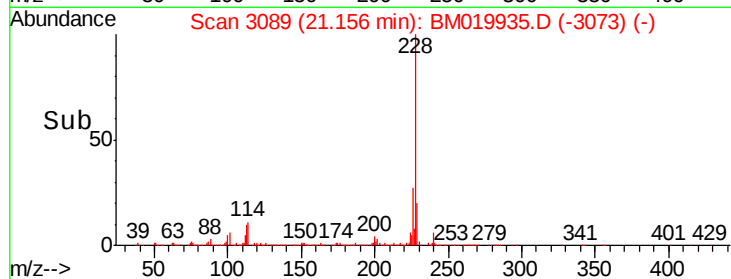
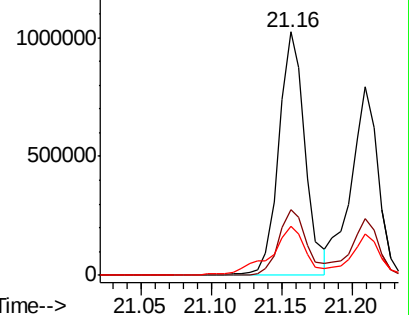
#81
Benzo(a)anthracene
Concen: 33.852 ng
RT: 21.16 min Scan# 3089
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tot Ion:228 Resp: 1318069

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	20.2	15.9	23.9



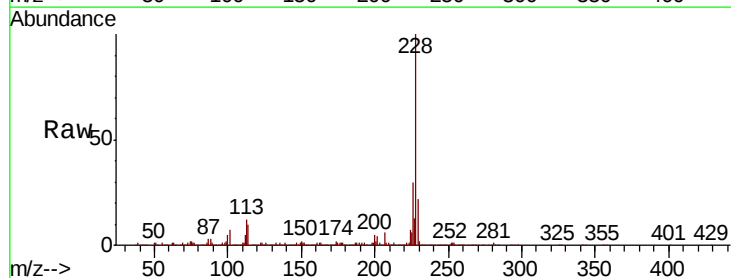
Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E



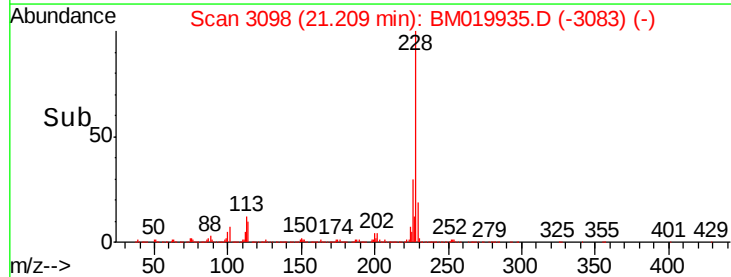
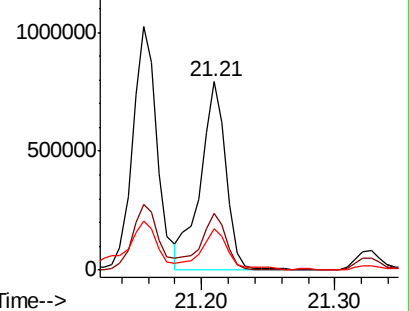
#83
Chrysene
Concen: 28.328 ng
RT: 21.21 min Scan# 3098
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

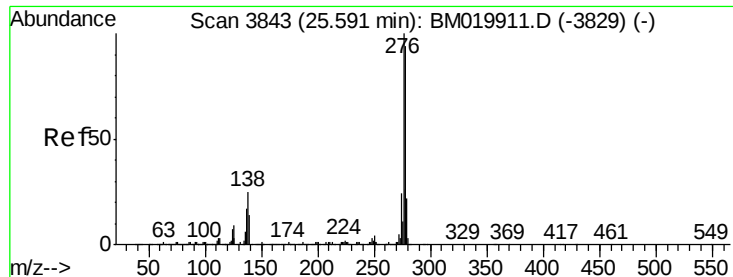
Tgt Ion:228 Resp: 1057774

Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.7	35.5
229	22.1	15.6	23.4



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E

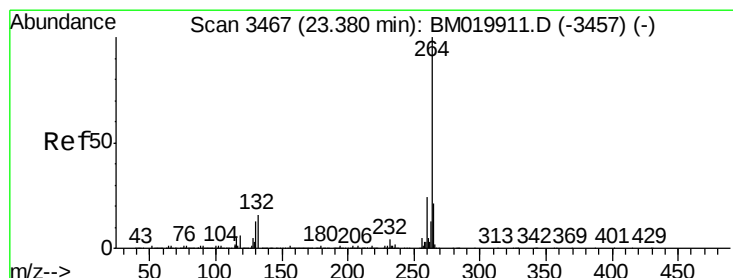
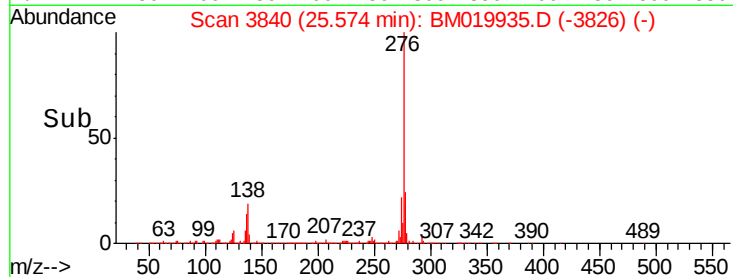
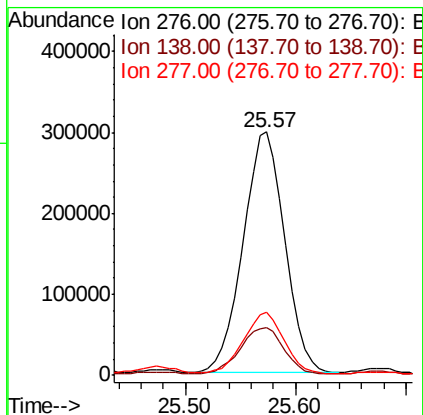
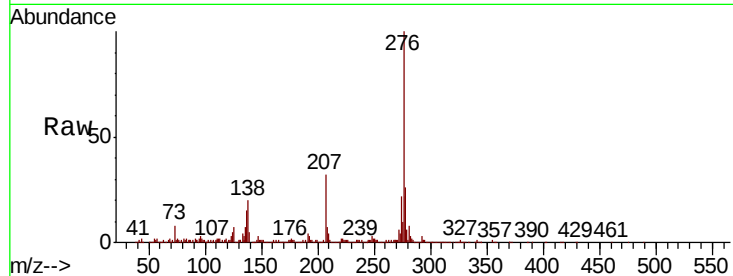




#86

Indeno(1,2,3-cd)pyrene
Concen: 21.389 ng
RT: 25.57 min Scan# 3840
Delta R.T. -0.02 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

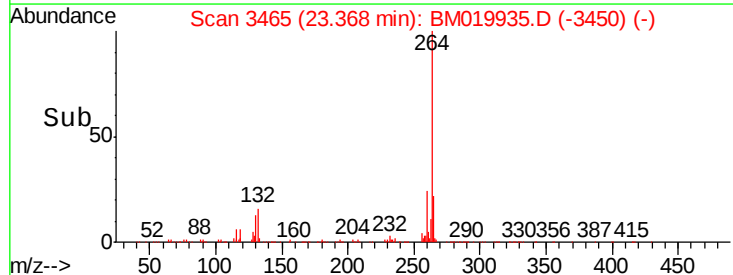
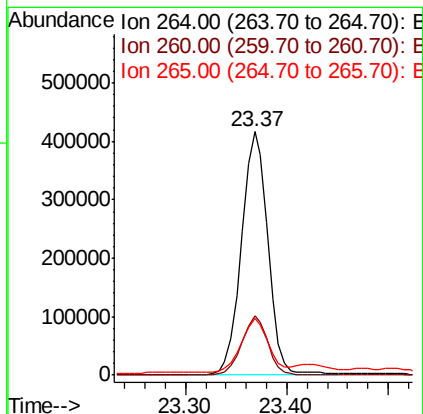
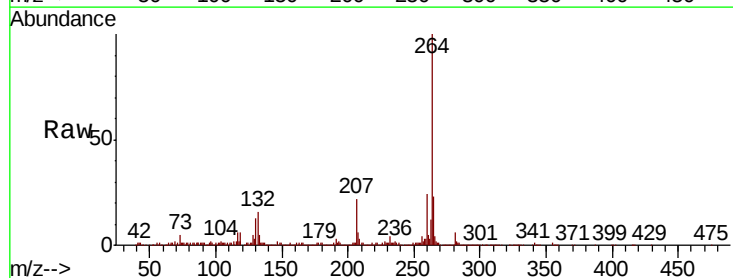
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.2	19.0	28.6
277	24.6	20.3	30.5

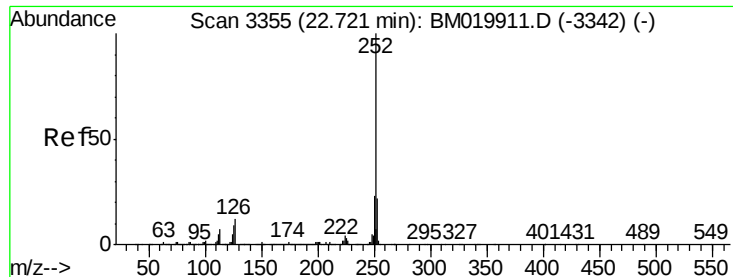


#87

Perylene-d12
Concen: 20.000 ng
RT: 23.37 min Scan# 3465
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

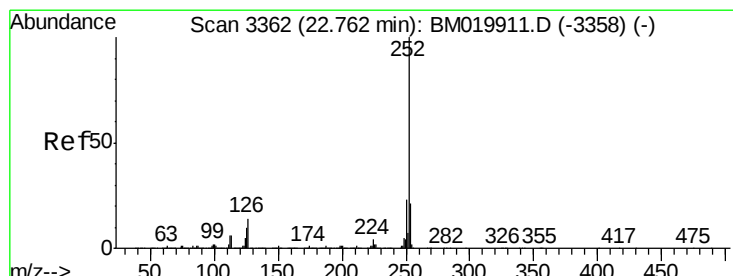
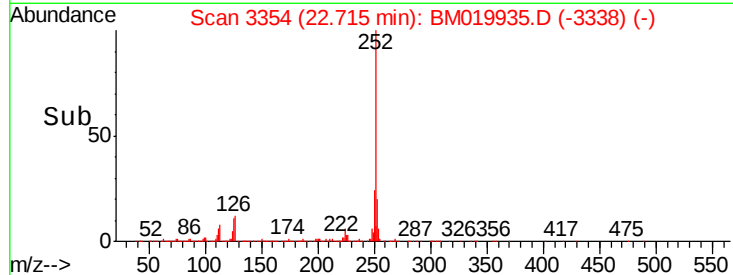
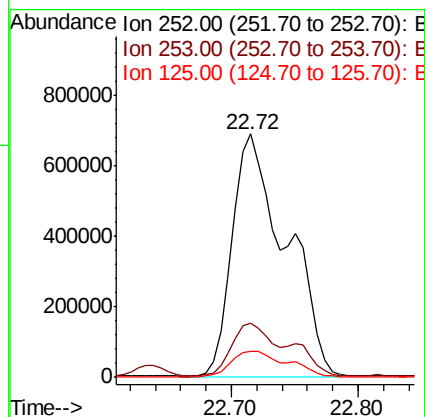
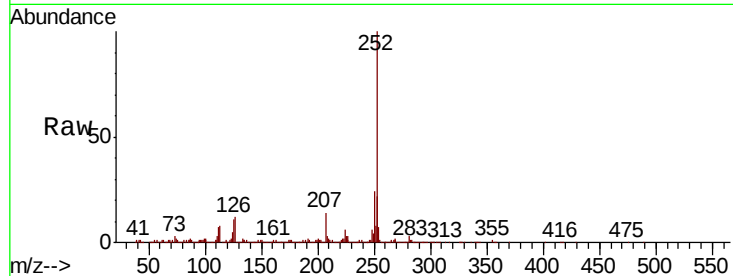
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	23.4	17.2	25.8





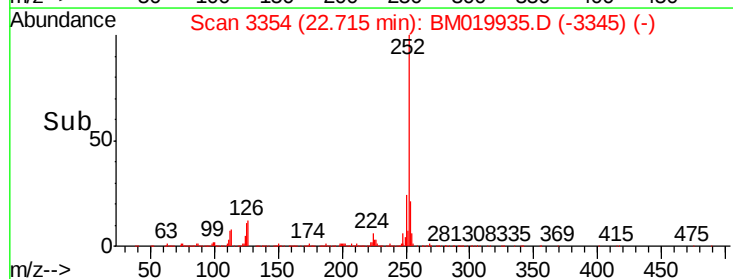
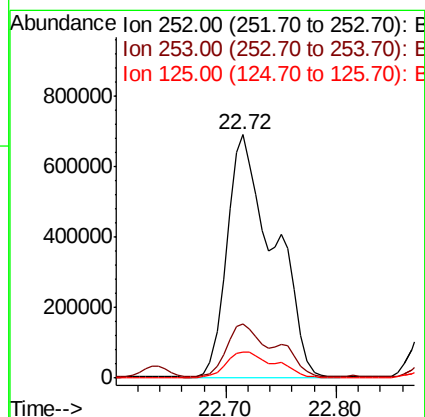
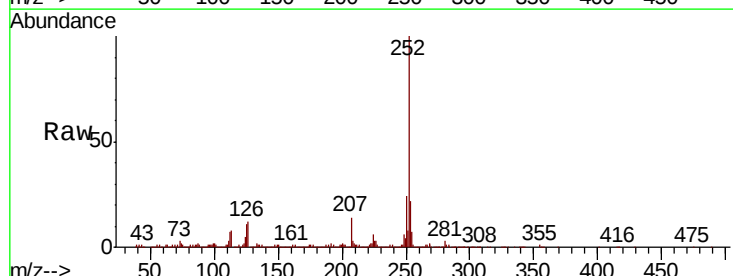
#88
Benzo(b)fluoranthene
Concen: 40.660 ng
RT: 22.72 min Scan# 3354
Delta R.T. -0.01 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

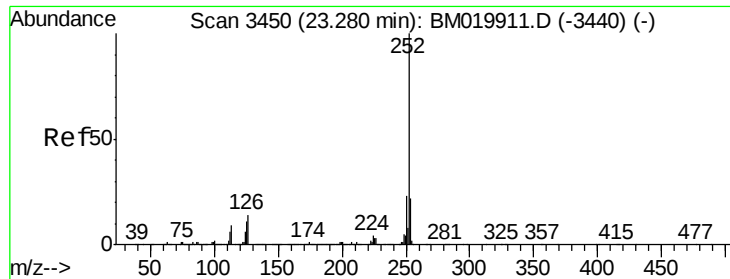
Tot	Ion:252	Resp:	2021369
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.8	7.6	11.4



#89
Benzo(k)fluoranthene
Concen: 43.233 ng
RT: 22.72 min Scan# 3354
Delta R.T. -0.05 min
Lab File: BM019935.D
Acq: 17 Apr 2019 13:09

Tgt	Ion:252	Resp:	2023416
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9
125	10.8	8.2	12.4





#90

Benzo(a)pyrene

Concen: 25.056 ng

RT: 23.27 min Scan# 3449

Delta R.T. -0.01 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

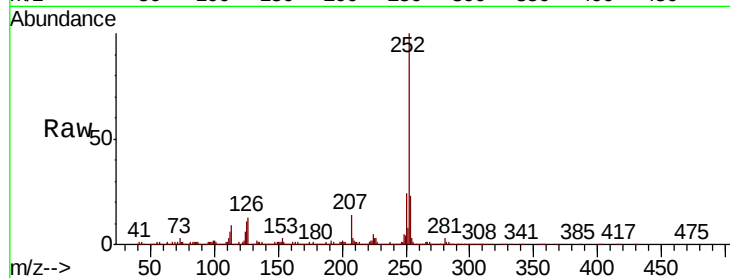
Tot Ion:252 Resp: 1103688

Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

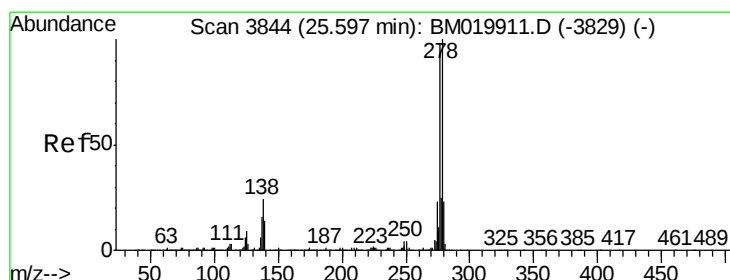
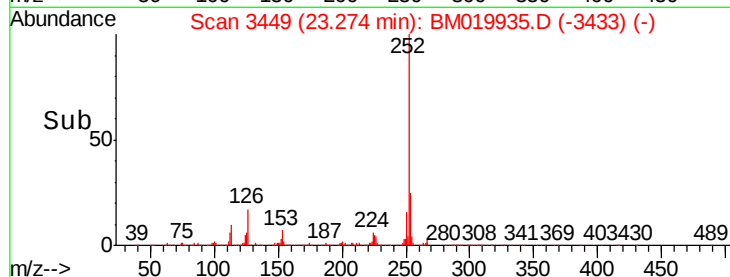
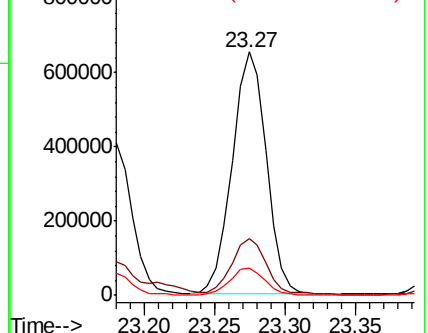
125 11.2 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 5.073 ng

RT: 25.57 min Scan# 3839

Delta R.T. -0.03 min

Lab File: BM019935.D

Acq: 17 Apr 2019 13:09

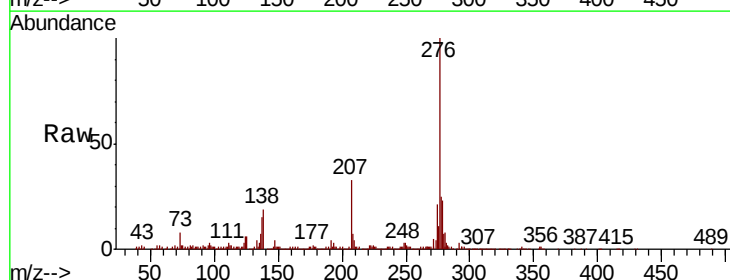
Tgt Ion:278 Resp: 215435

Ion Ratio Lower Upper

278 100

139 0.0 11.6 17.4#

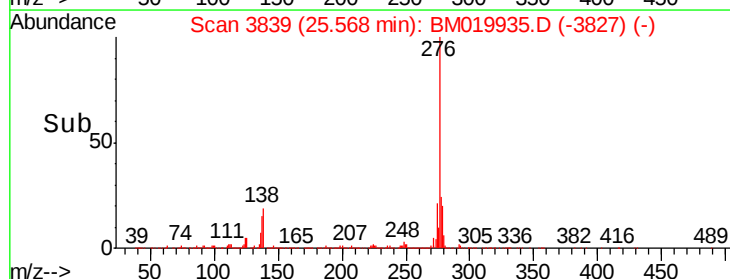
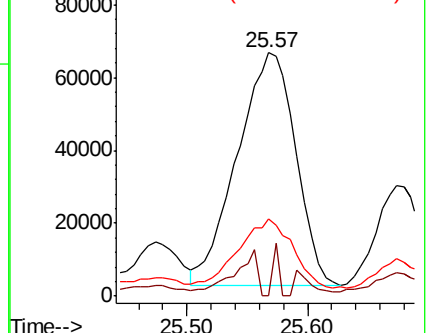
279 31.5 18.4 27.6#

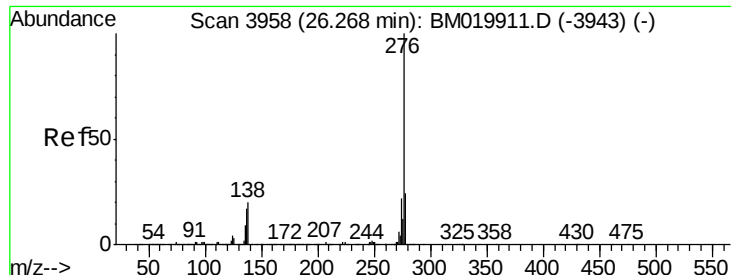


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

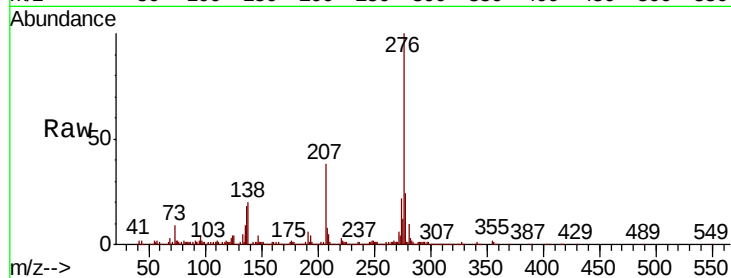
Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 18.990 ng
 RT: 26.25 min Scan# 3955
 Delta R.T. -0.02 min
 Lab File: BM019935.D
 Acq: 17 Apr 2019 13:09

Tot	Ion:276	Resp:	730462
Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.8	28.2
138	20.3	16.2	24.4



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

