

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Manual Integrations
 APPROVED

Sohil
 10/31/2018 11:14:59 AM

Quant Time: Oct 31 04:53:06 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	114922	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	470433	20.00	ng	0.00
39) Acenaphthene-d10	10.01	164	209426	20.00	ng	0.00
64) Phenanthrene-d10	11.51	188	339949	20.00	ng	0.00
76) Chrysene-d12	14.16	240	212510	20.00	ng	0.00
87) Perylene-d12	15.70	264	191630	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	621301	88.04	ng	0.01
7) Phenol-d6	6.59	99	786646	87.15	ng	0.00
23) Nitrobenzene-d5	7.53	82	491910	62.02	ng	0.00
42) 2,4,6-Tribromophenol	10.80	330	163549	78.84	ng	0.00
45) 2-Fluorobiphenyl	9.33	172	873846	65.52	ng	0.00
79) Terphenyl-d14	13.09	244	595069	58.24	ng	0.00
Target Compounds						
10) Phenol	6.60	94	58914	6.106	ng	Qvalue # 64
31) Naphthalene	8.27	128	75715	3.492	ng	98
50) Dimethylphthalate	9.72	163	79851	5.165	ng	100
52) Acenaphthene	10.05	154	80591	6.071	ng	98
55) Dibenzofuran	10.22	168	83779	4.508	ng	97
58) Fluorene	10.56	166	139075	10.055	ng	99
71) Phenanthrene	11.54	178	1233498	69.345	ng	99
72) Anthracene	11.59	178	394303	22.115	ng	98
73) Carbazole	11.74	167	147415	8.468	ng	98
75) Fluoranthene	12.73	202	1517557	84.064	ng	98
78) Pyrene	12.97	202	1279028	83.953	ng	98
81) Benzo(a)anthracene	14.15	228	656630	52.104	ng	98
83) Chrysene	14.19	228	535698	44.754	ng	97
86) Indeno(1,2,3-cd)pyrene	17.27	276	231332	23.296	ng	99
88) Benzo(b)fluoranthene	15.24	252	634310m	57.321	ng	
89) Benzo(k)fluoranthene	15.27	252	235986m	21.692	ng	
90) Benzo(a)pyrene	15.63	252	458393	45.018	ng	99
91) Dibenzo(a,h)anthracene	17.27	278	62525m	7.116	ng	
92) Benzo(a,h,i)perylene	17.75	276	213480	24.658	ng	99

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

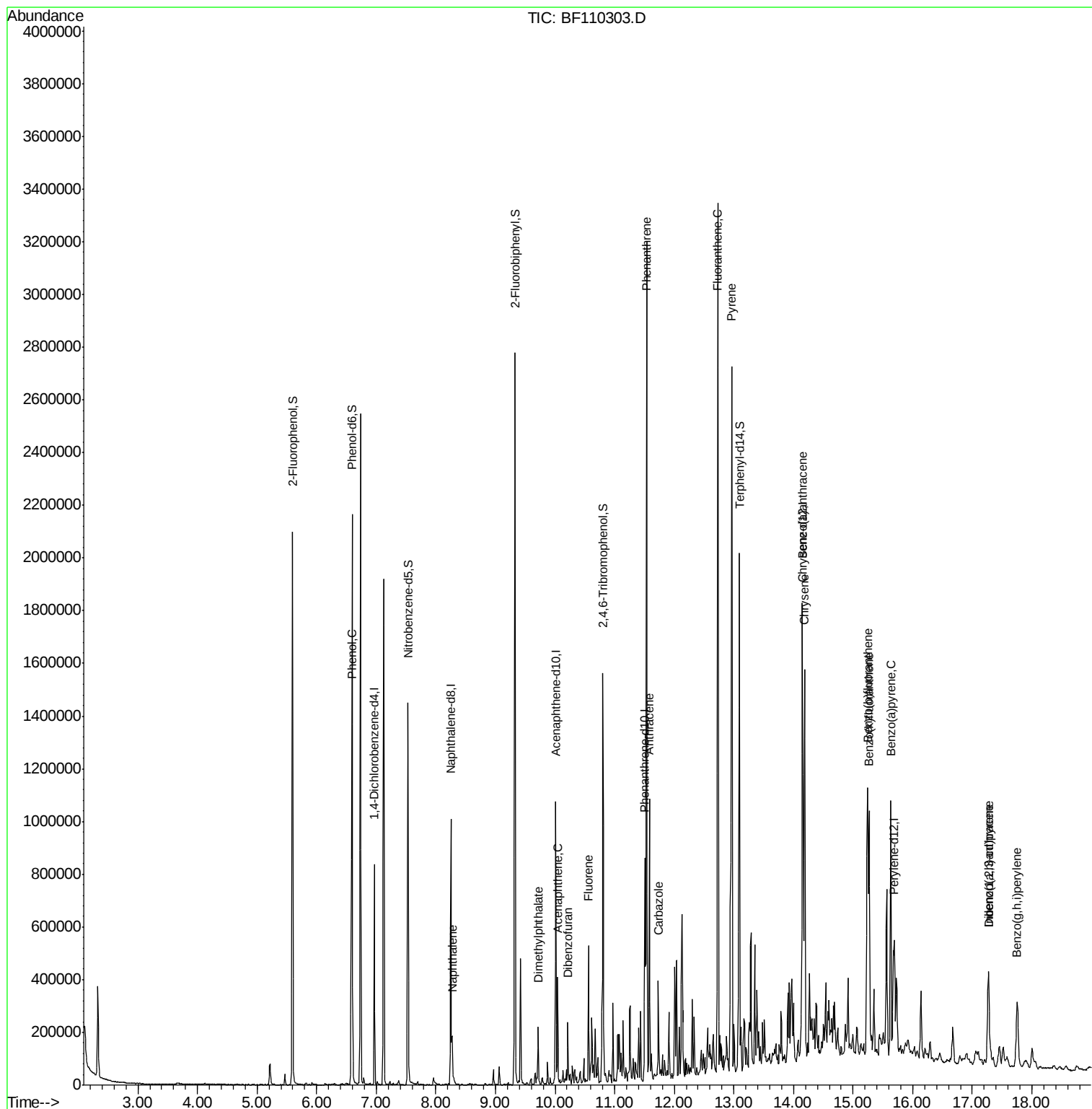
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
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ALS Vial : 7 Sample Multiplier: 1

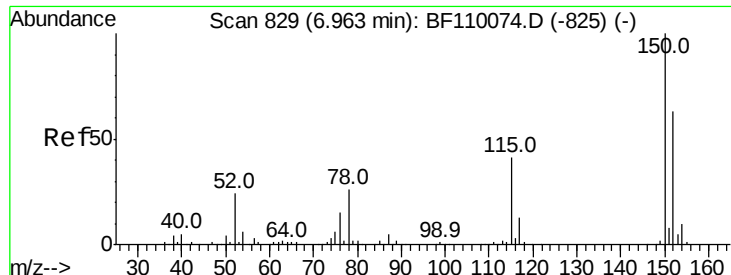
Instrument :
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#1

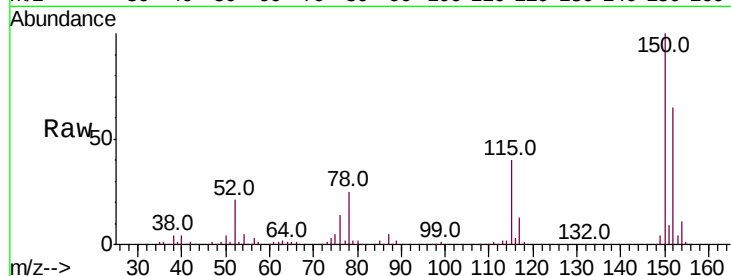
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	122.7	184.1
115	61.6	49.1	73.7

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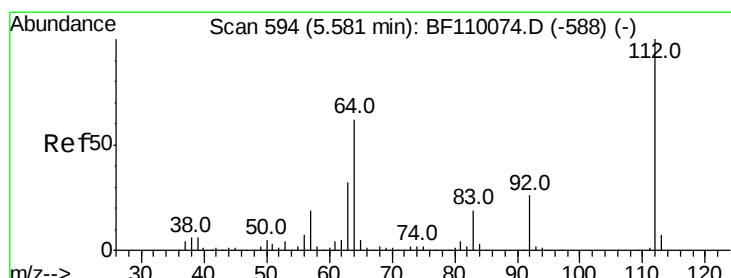
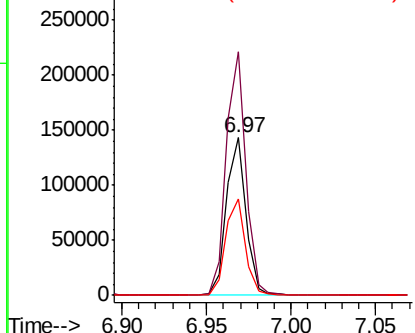
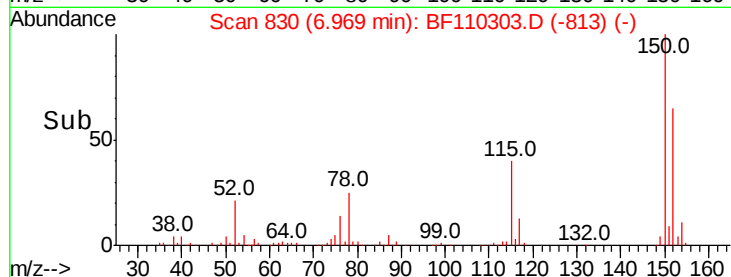


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

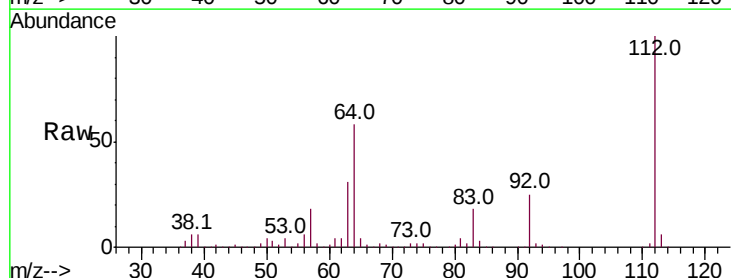
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 88.039 ng
RT: 5.60 min Scan# 597
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	44.1	66.1
63	30.8	23.7	35.5

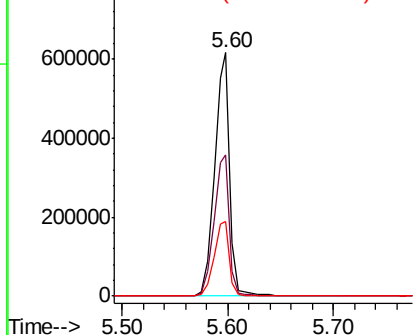
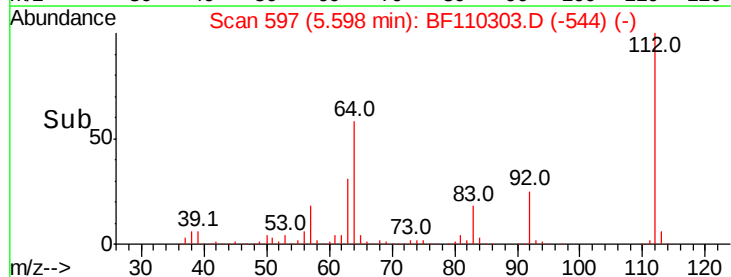


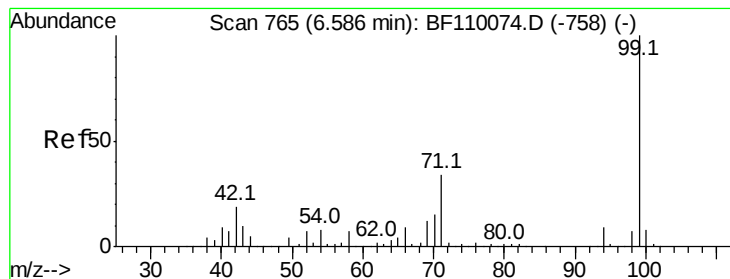
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 87.147 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

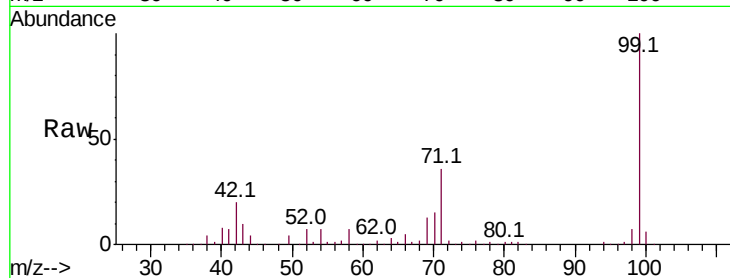
ClientSampleId :

RED-SHALE

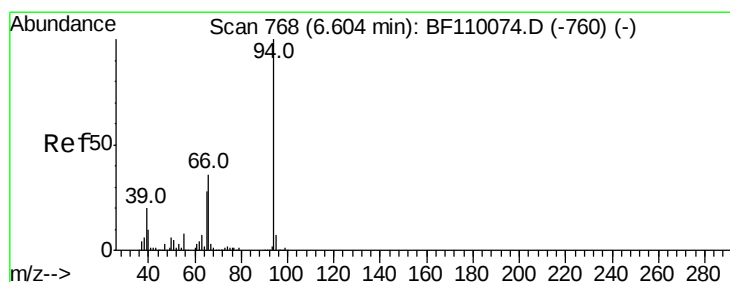
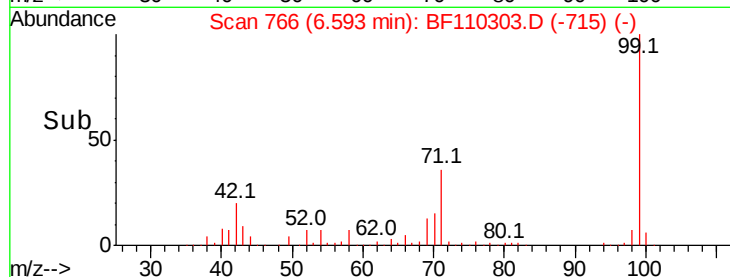
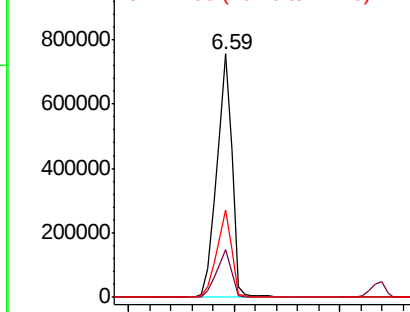
Tot Ion:	99	Resp:	786646
Ion Ratio	Lower	Upper	
99	100		
42	19.6	15.8	23.6
71	35.9	28.0	42.0

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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 6.106 ng

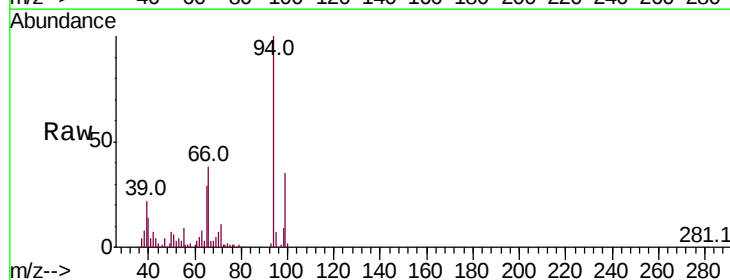
RT: 6.60 min Scan# 768

Delta R.T. 0.00 min

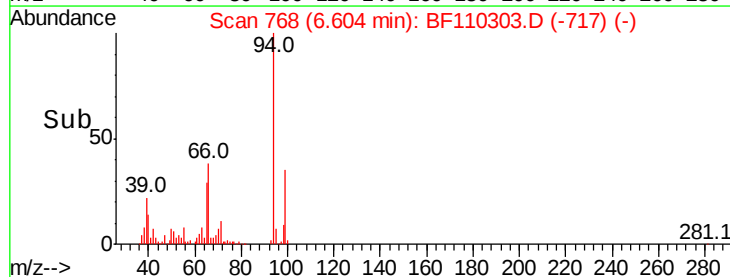
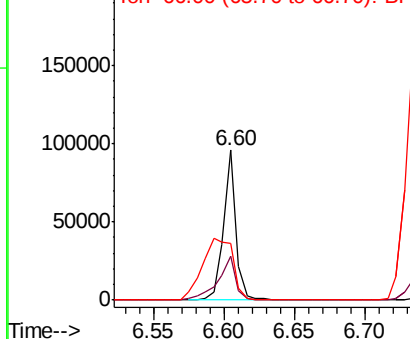
Lab File: BF110303.D

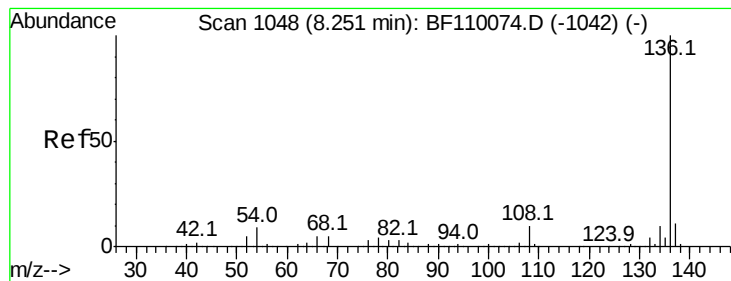
Acq: 30 Oct 2018 15:20

Tgt Ion:	94	Resp:	58914
Ion Ratio	Lower	Upper	
94	100		
65	29.1	25.3	65.3
66	38.2	54.5	94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

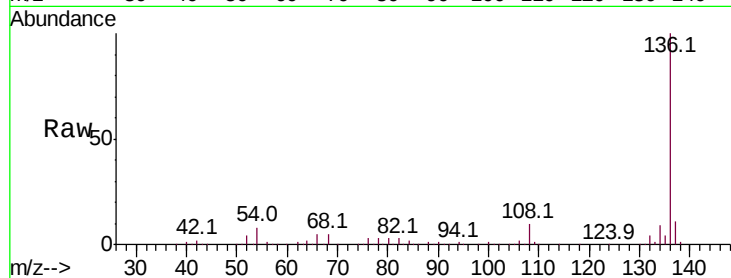
ClientSampleId :

RED-SHALE

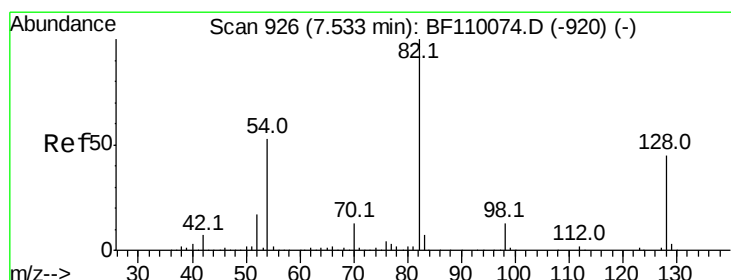
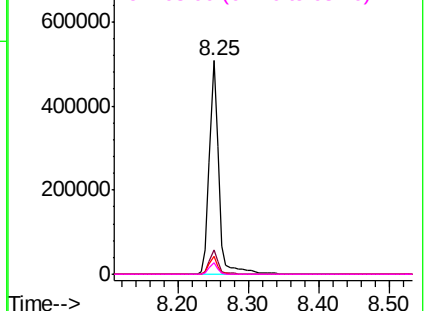
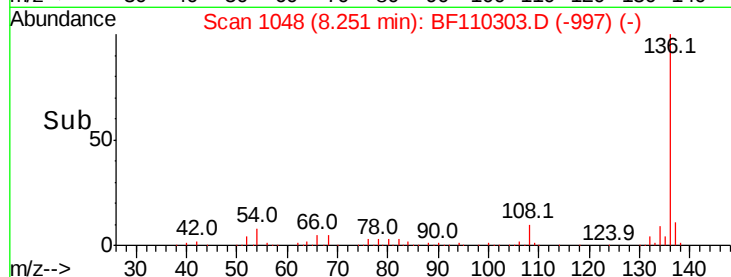
Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	8.8	13.2
54	8.2	5.4	8.2#
68	5.2	4.2	6.2

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 62.021 ng

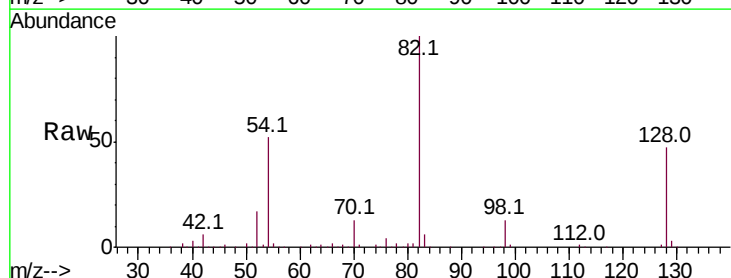
RT: 7.53 min Scan# 926

Delta R.T. 0.00 min

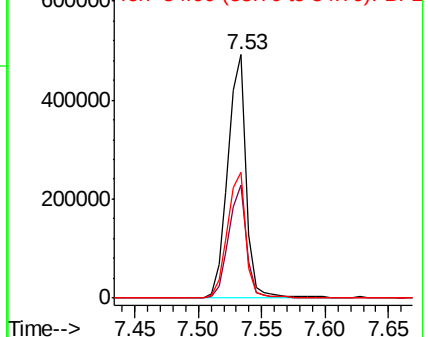
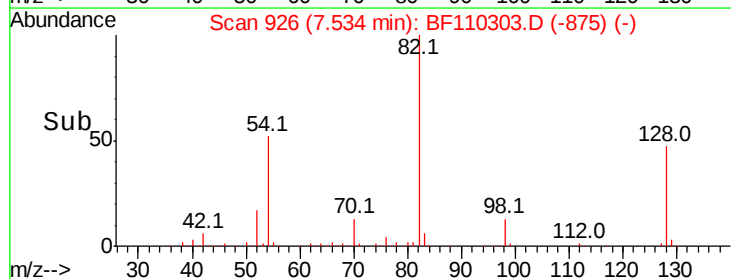
Lab File: BF110303.D

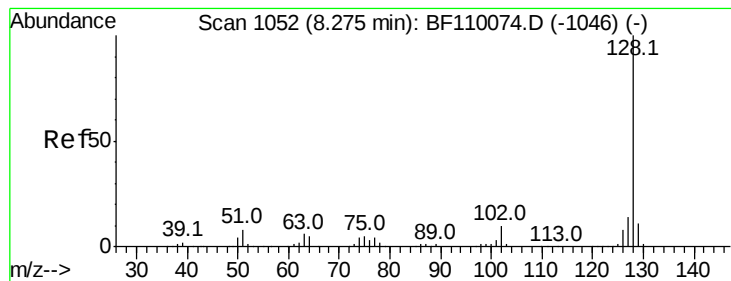
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	46.7	34.2	51.2
54	51.6	38.6	58.0



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1





#31

Naphthalene

Concen: 3.492 ng

RT: 8.27 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

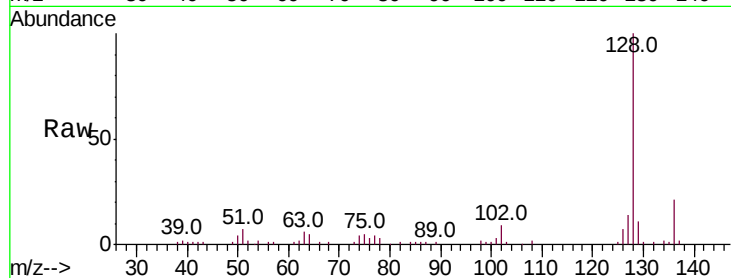
ClientSampled :

RED-SHALE

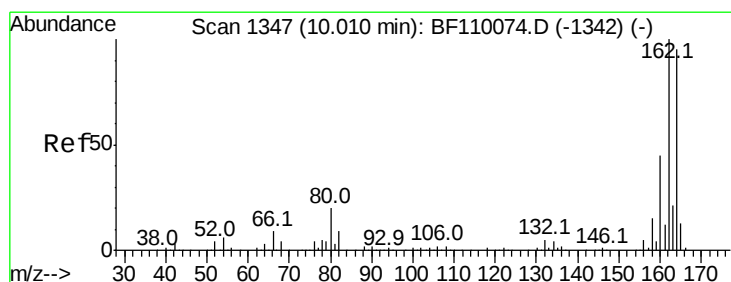
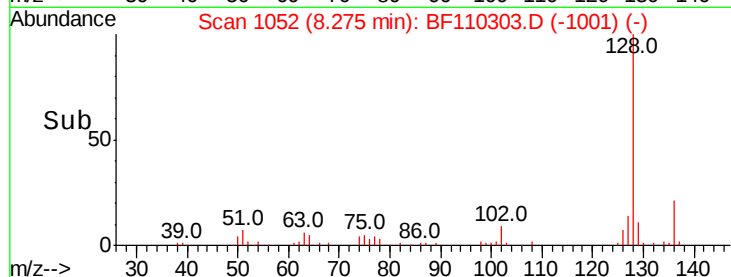
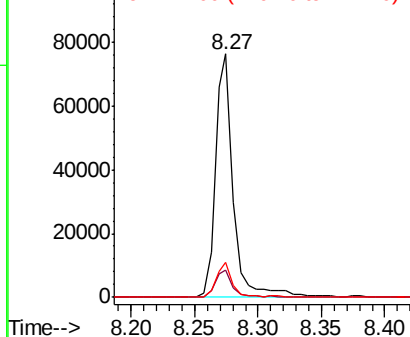
Tot Ion:128	Resp:	75715
Ion Ratio	Lower	Upper
128 100		
129 11.4	8.8	13.2
127 14.5	10.8	16.2

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

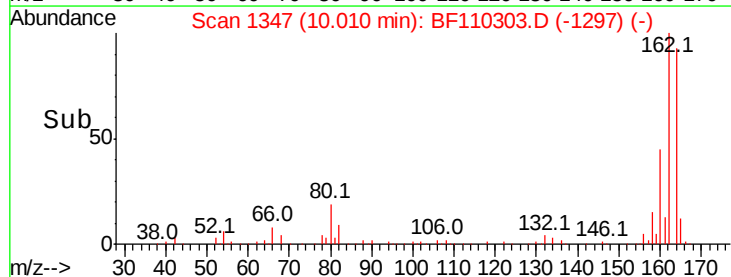
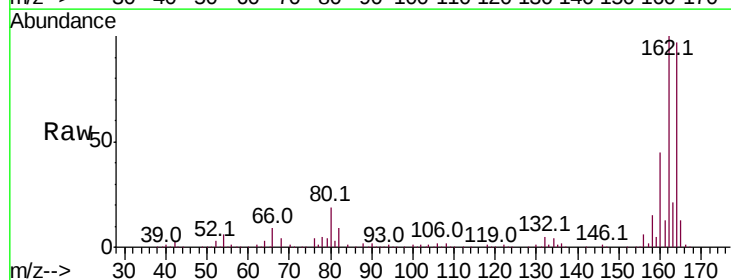
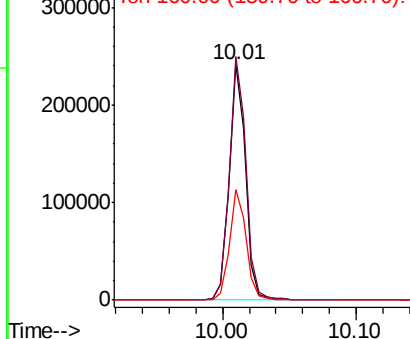
Delta R.T. -0.01 min

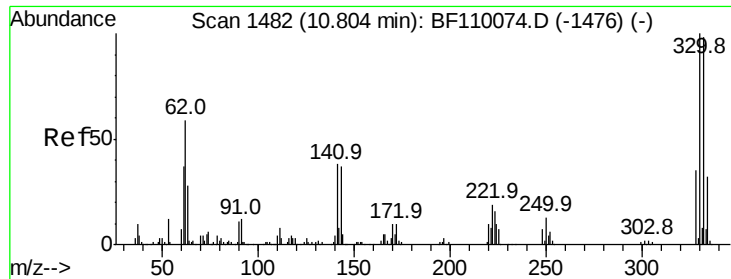
Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Tgt Ion:164	Resp:	209426
Ion Ratio	Lower	Upper
164 100		
162 103.3	83.0	124.6
160 46.7	37.0	55.6

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





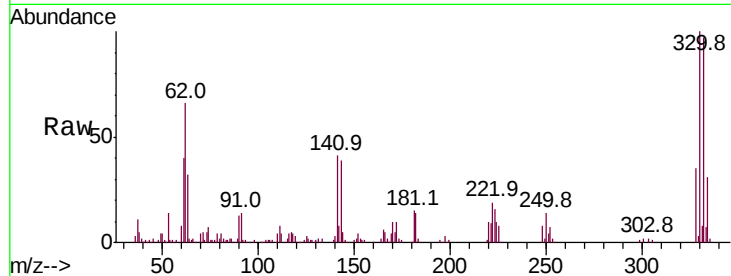
#42
 2,4,6-Tribromophenol
 Concen: 78.838 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Instrument :
 BNA_F
 ClientSampleId :
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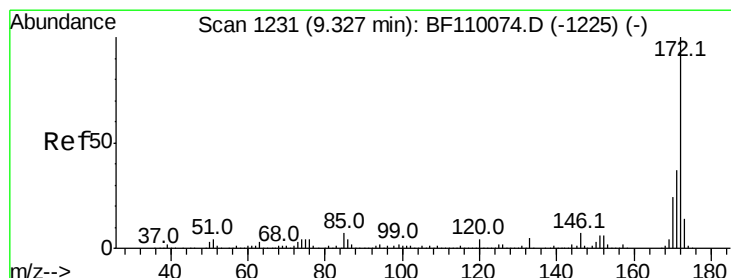
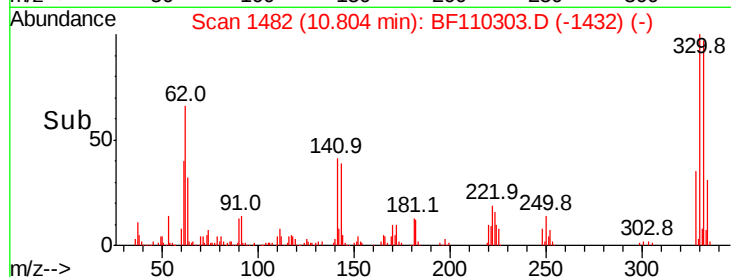
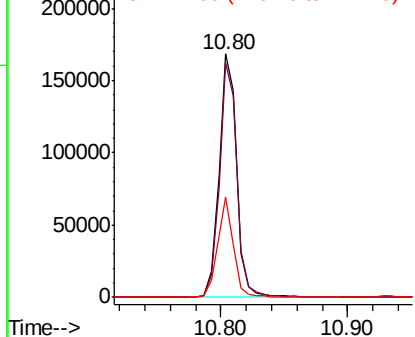
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.1	115.7
141	37.9	27.0	40.4

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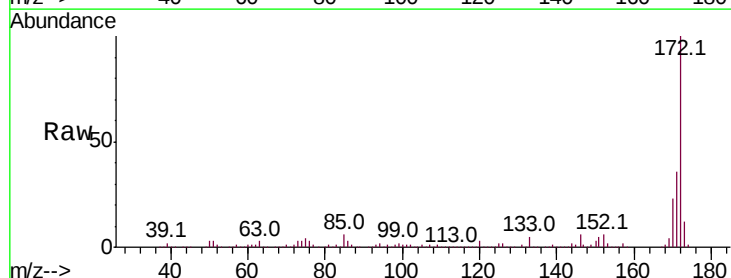


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

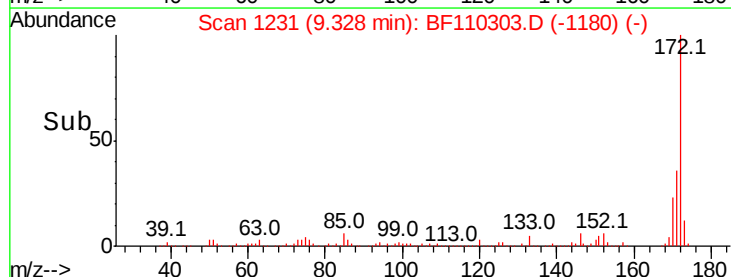
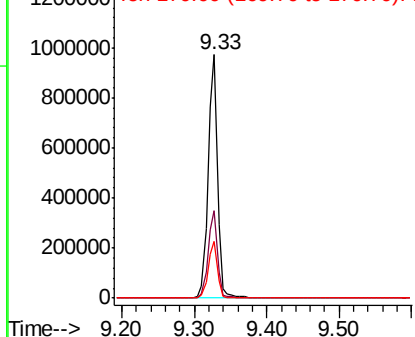


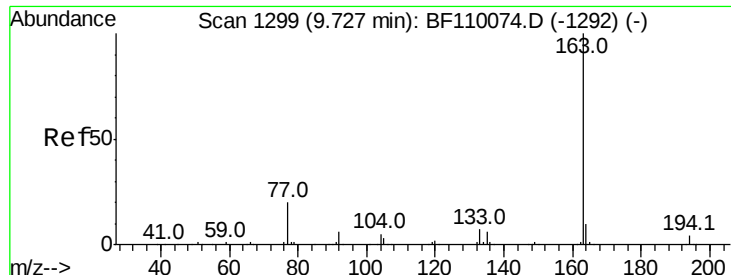
#45
 2-Fluorobiphenyl
 Concen: 65.520 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.2	19.7	29.5



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





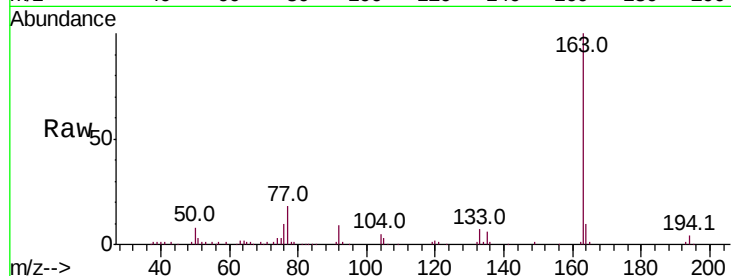
#50
Dimethylphthalate
Concen: 5.165 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.7		3.2	4.8
164	10.1		8.1	12.1

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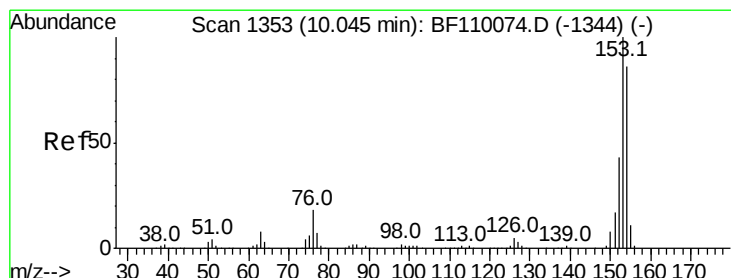
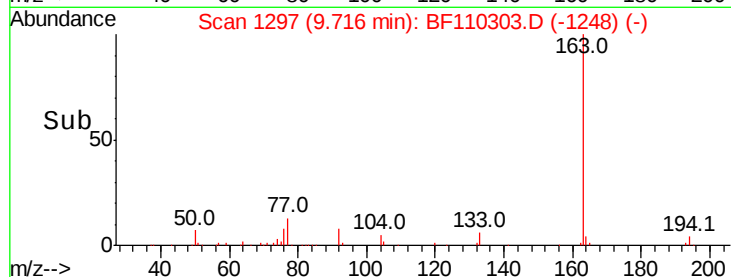
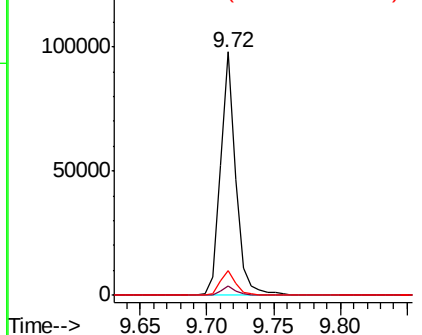


Abundance

Ion 163.00 (162.70 to 163.70): E

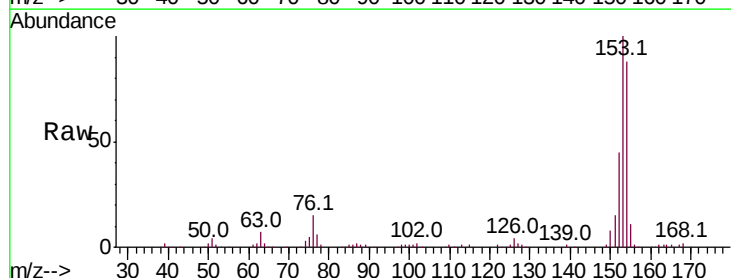
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 6.071 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	113.9		90.1	135.1
152	51.1		43.4	65.2

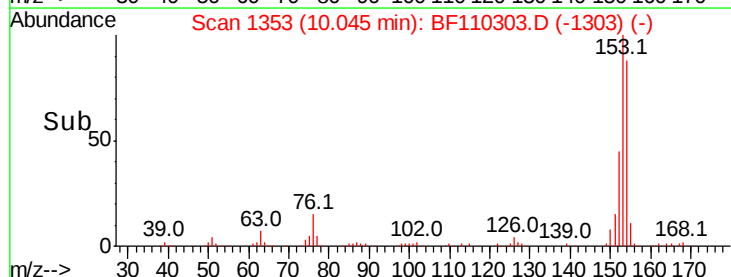
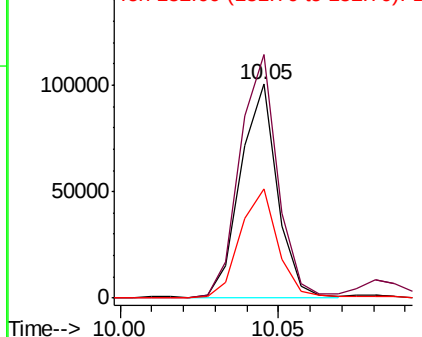


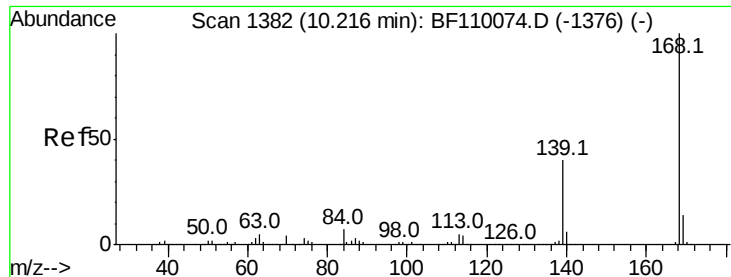
Abundance

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





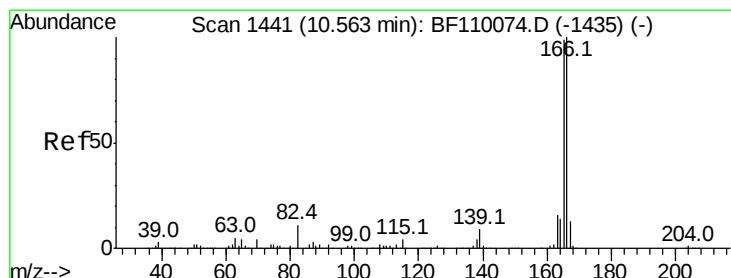
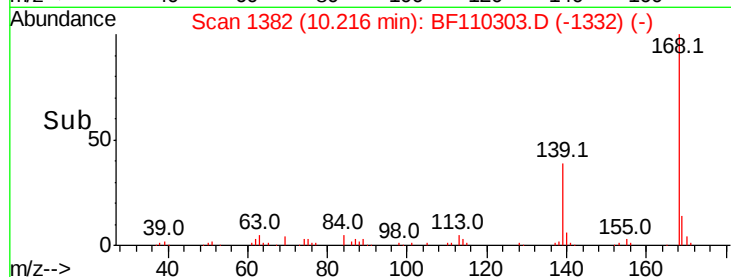
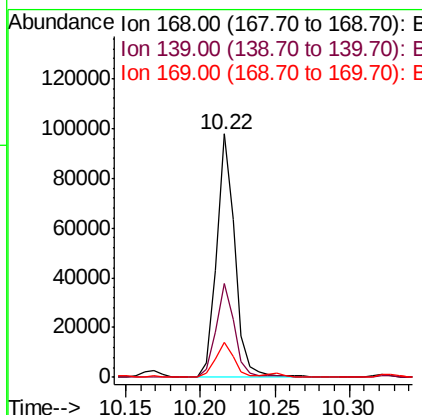
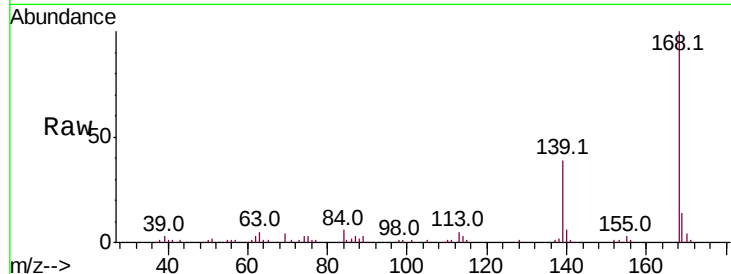
#55
Dibenzofuran
Concen: 4.508 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.6	33.0	49.6
169	14.3	11.3	16.9

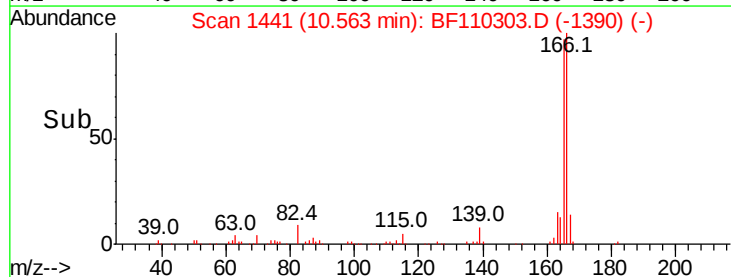
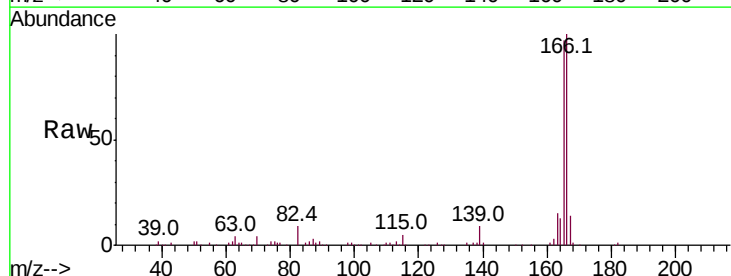
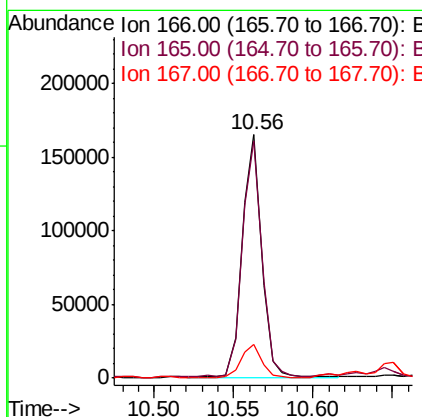
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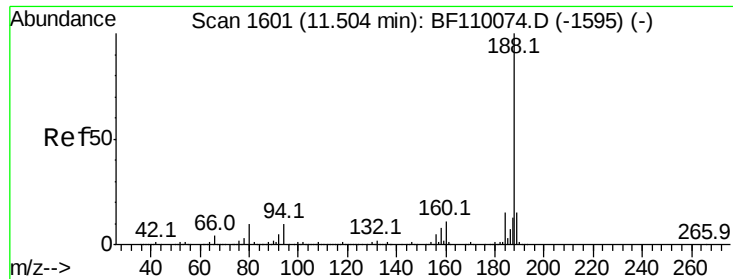
Sohil
10/31/2018 11:14:59 AM



#58
Fluorene
Concen: 10.055 ng
RT: 10.56 min Scan# 1441
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.6	117.8
167	13.6	10.8	16.2





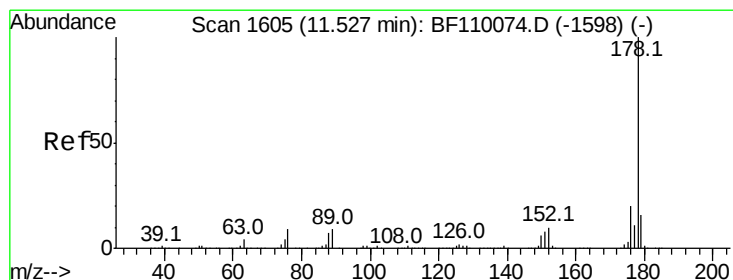
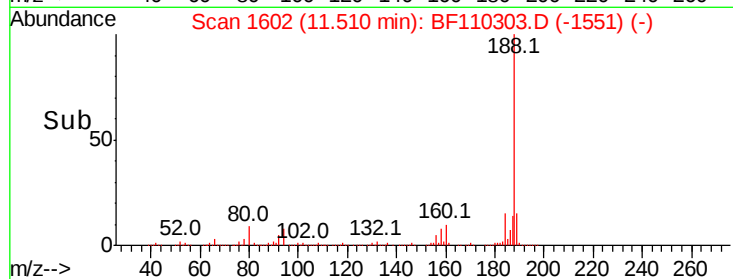
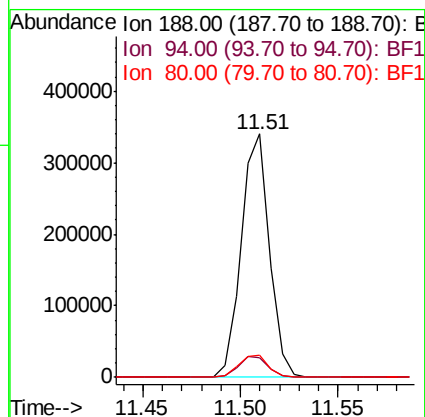
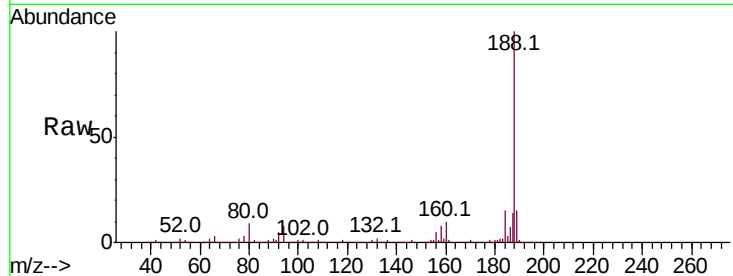
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1602
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	339949		
94	8.2		7.2	10.8
80	9.2		7.9	11.9

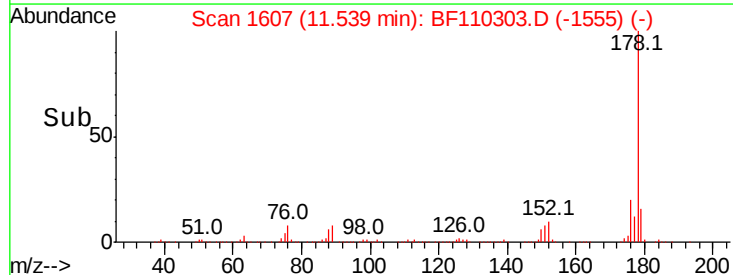
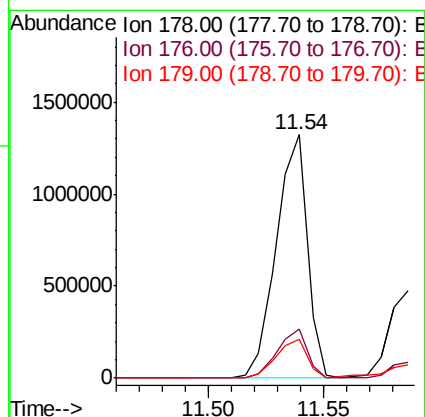
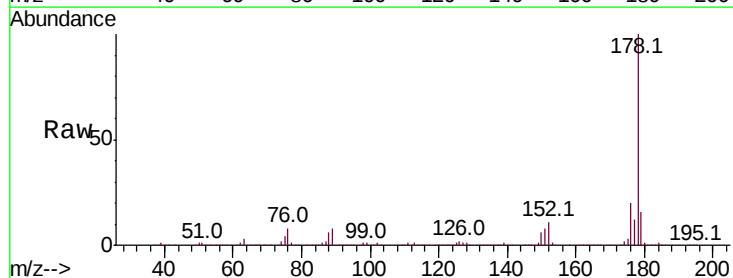
Manual Integrations
APPROVED

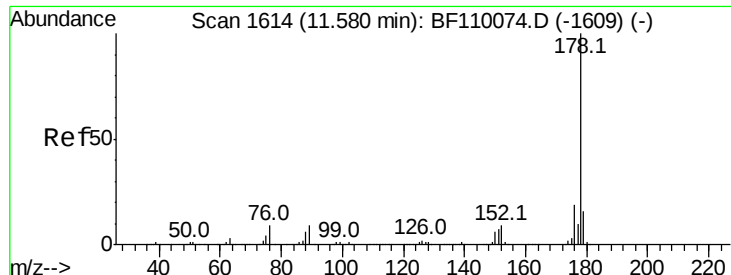
Sohil
10/31/2018 11:14:59 AM



#71
Phenanthrene
Concen: 69.345 ng
RT: 11.54 min Scan# 1607
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1233498		
176	20.0		15.5	23.3
179	15.8		12.5	18.7





#72

Anthracene

Concen: 22.115 ng

RT: 11.59 min Scan# 1615

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

Tot Ion:178 Resp: 394303

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

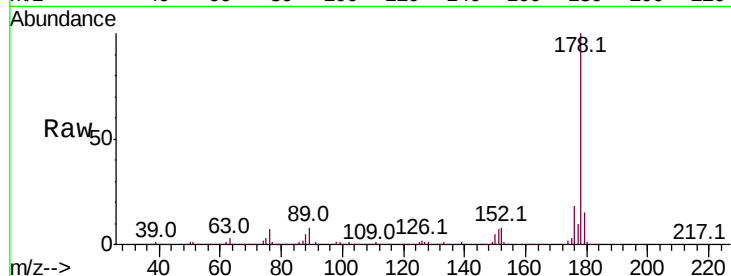
179 14.8 12.6 18.8

Manual Integrations

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Sohil

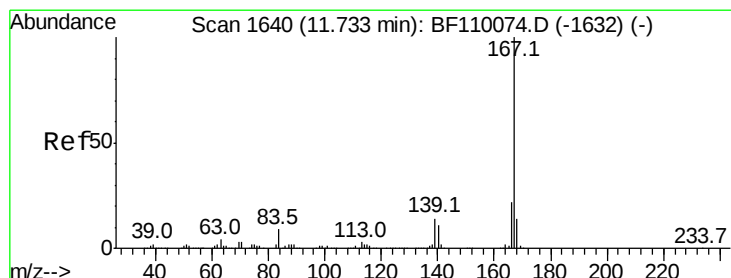
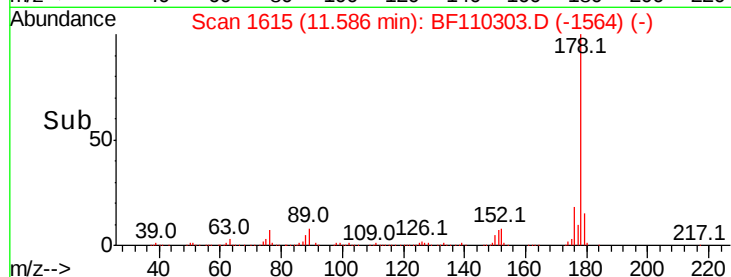
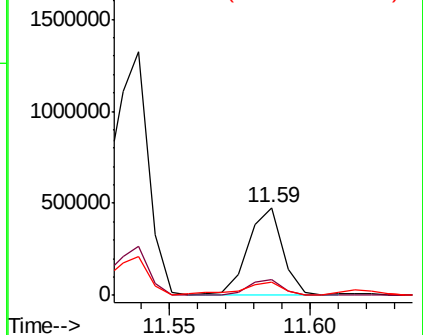
10/31/2018 11:14:59 AM



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: 8.468 ng

RT: 11.74 min Scan# 1641

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

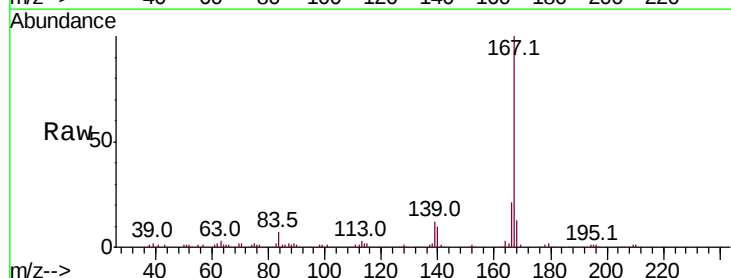
Tgt Ion:167 Resp: 147415

Ion Ratio Lower Upper

167 100

166 21.1 17.4 26.0

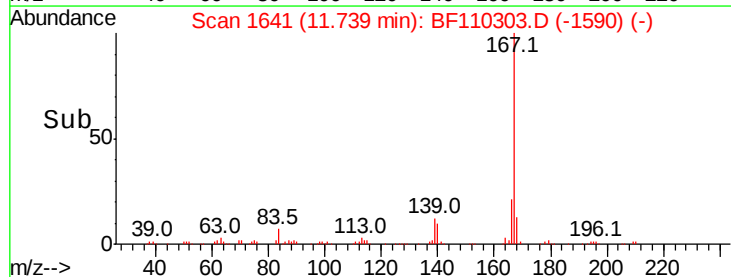
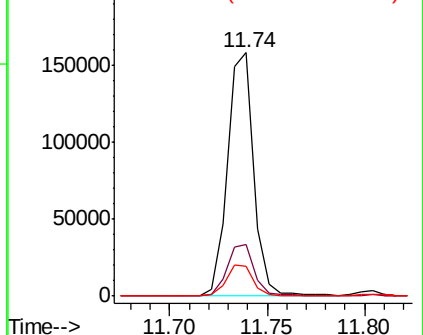
139 12.3 10.9 16.3

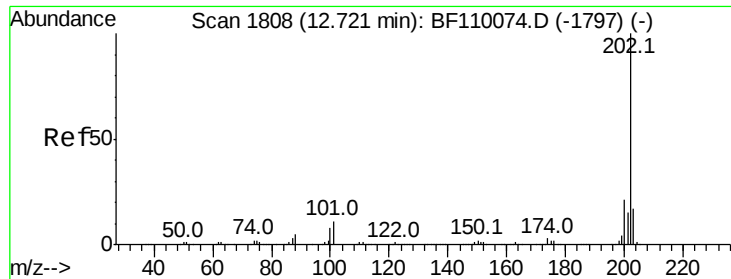


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 84.064 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

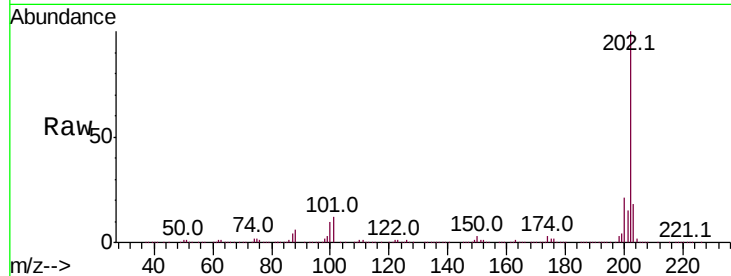
ClientSampleId :

RED-SHALE

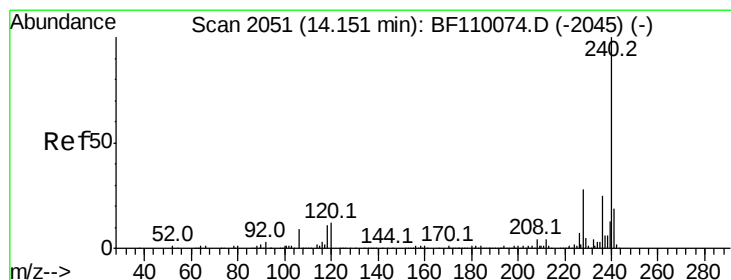
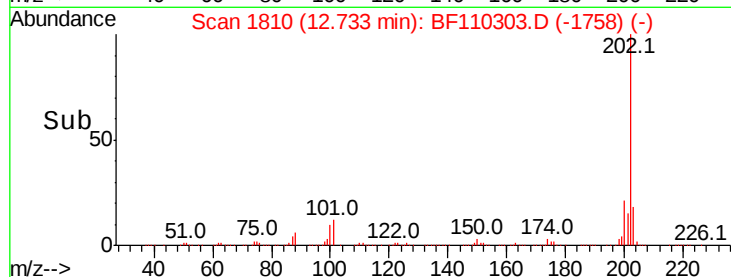
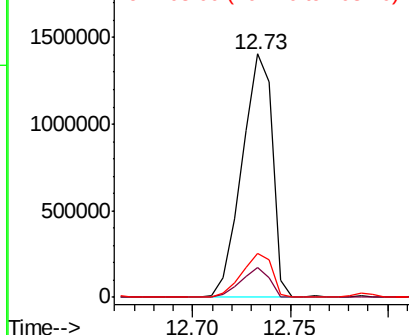
Tot Ion:202	Resp: 1517557
Ion Ratio	Lower Upper
202 100	
101 12.4	0.0 31.4
203 18.1	0.0 37.7

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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: 14.16 min Scan# 2053

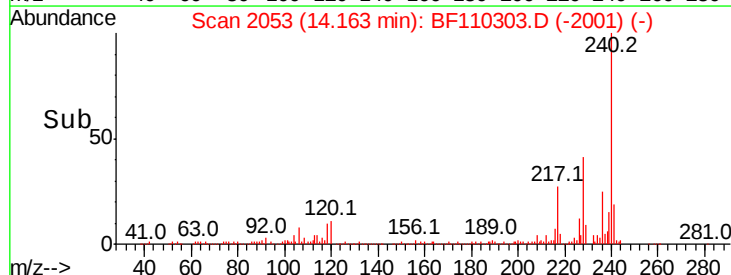
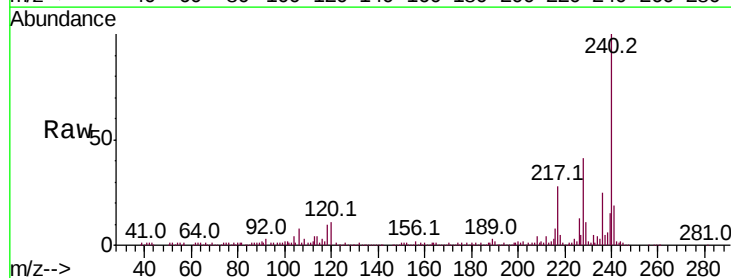
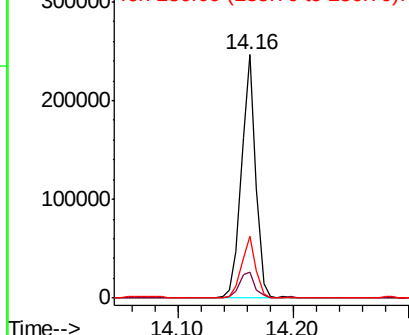
Delta R.T. 0.01 min

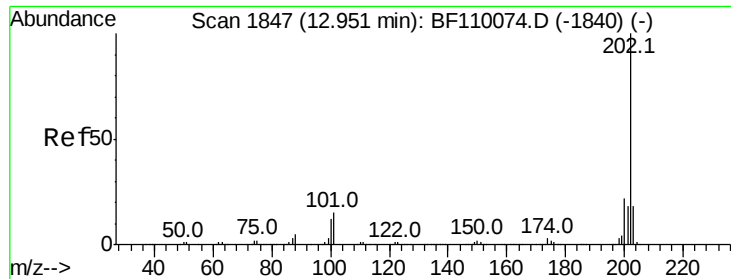
Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Tgt Ion:240	Resp: 212510
Ion Ratio	Lower Upper
240 100	
120 10.6	8.3 12.5
236 25.2	21.2 31.8

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





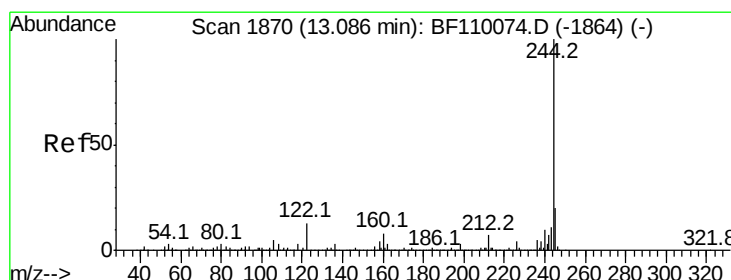
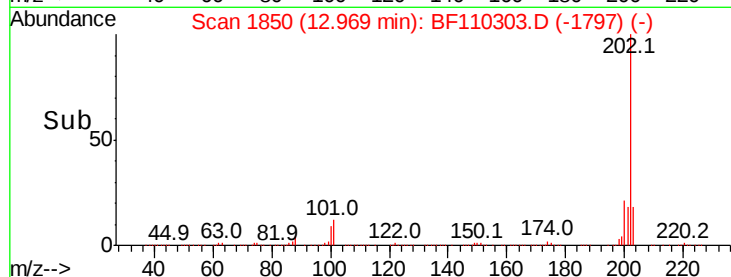
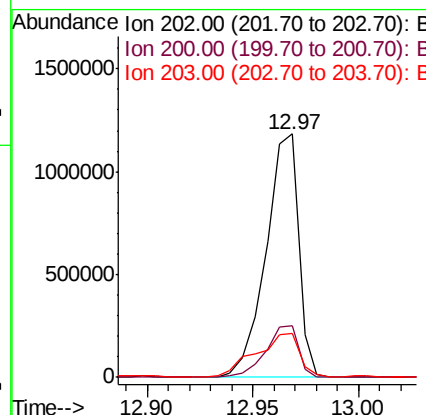
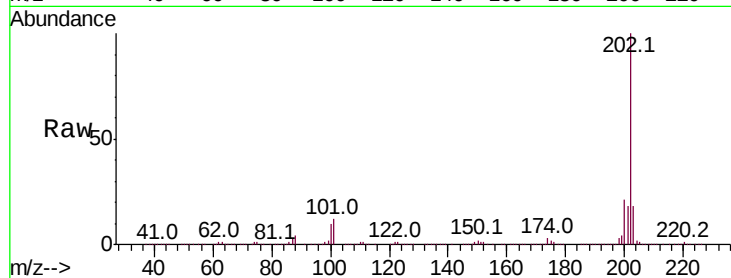
#78
Pvrene
Concen: 83.953 ng
RT: 12.97 min Scan# 1850
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.8	26.6
203	18.3	14.2	21.4

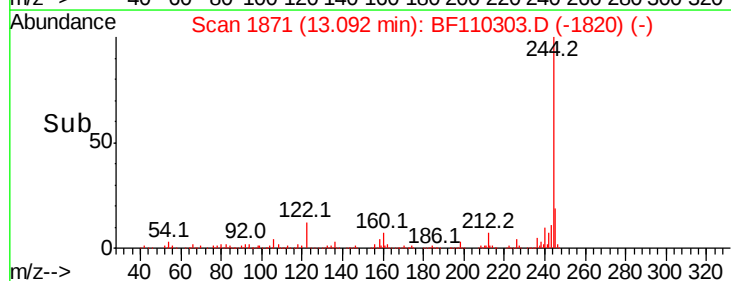
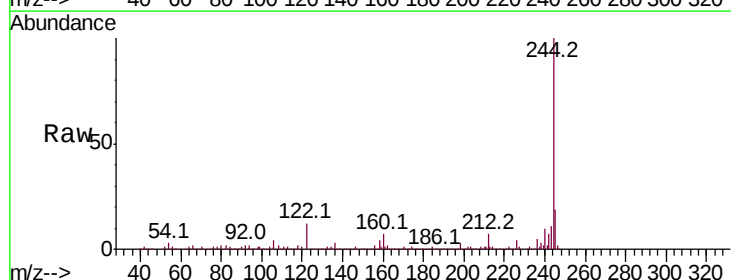
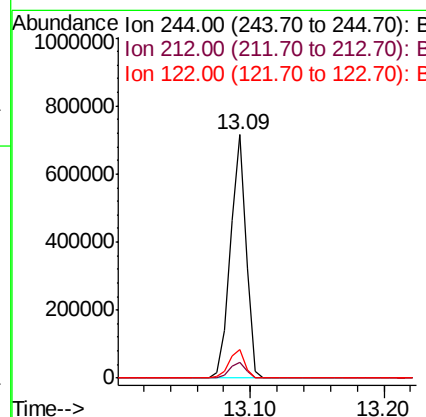
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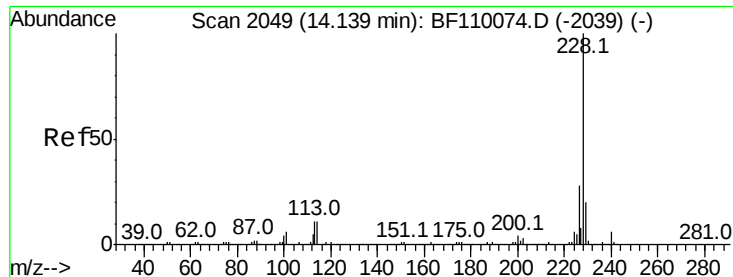
Sohil
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#79
Terphenyl-d14
Concen: 58.236 ng
RT: 13.09 min Scan# 1871
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.8	8.8
122	11.5	8.7	13.1





#81

Benzo(a)anthracene

Concen: 52.104 ng

RT: 14.15 min Scan# 2051

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

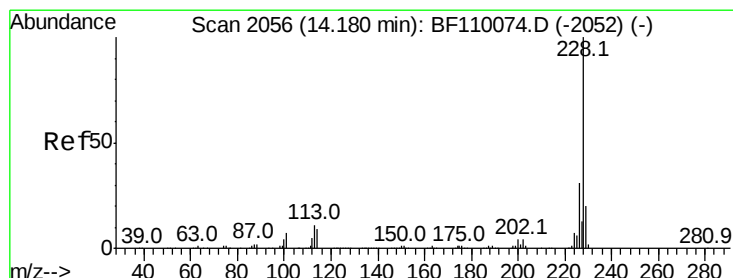
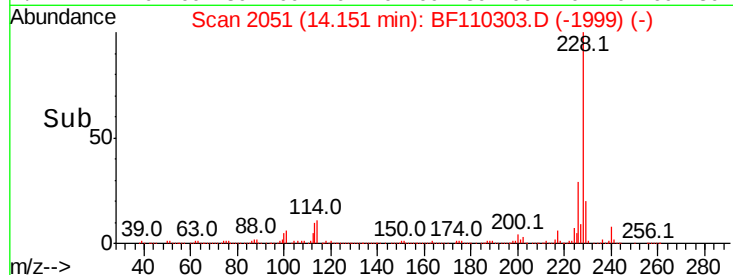
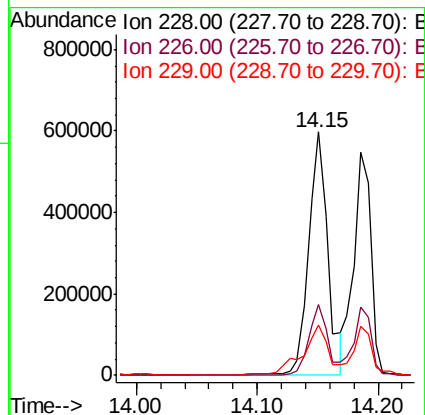
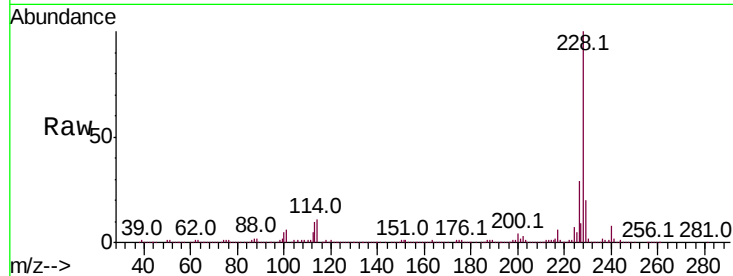
ClientSampleId :

RED-SHALE

Tot Ion:	228	Resp:	656630
Ion Ratio	Lower	Upper	
228	100		
226	28.9	22.1	33.1
229	20.4	15.6	23.4

Manual Integrations
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#83

Chrysene

Concen: 44.754 ng

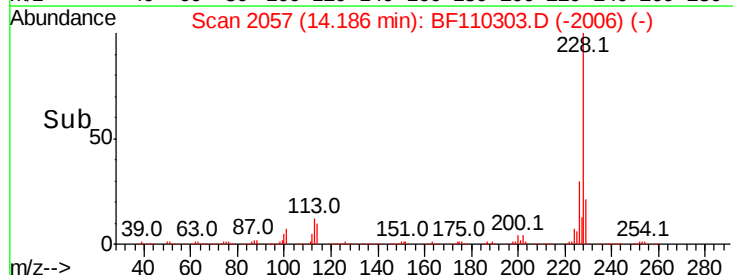
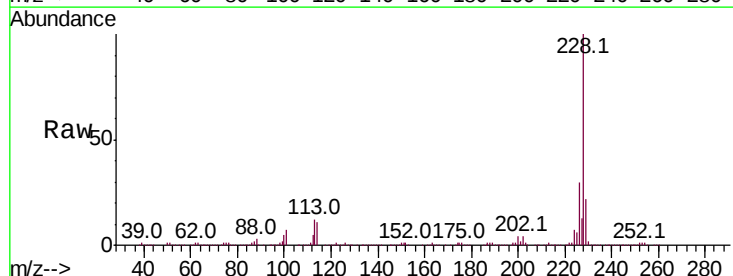
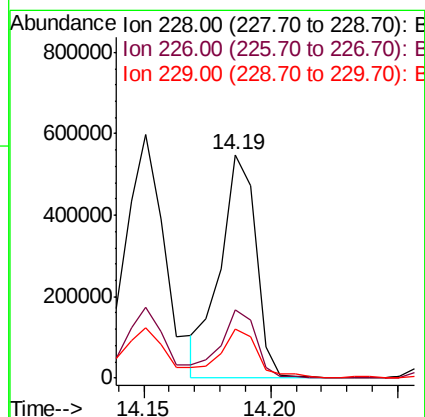
RT: 14.19 min Scan# 2057

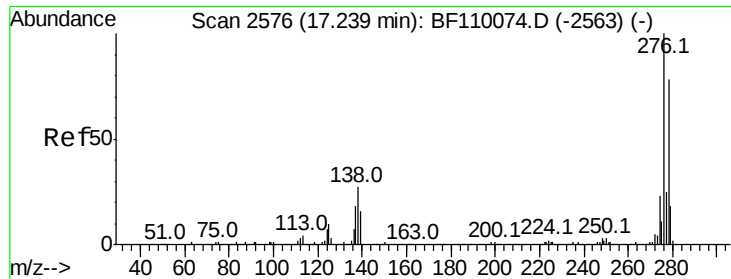
Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Tgt Ion:	228	Resp:	535698
Ion Ratio	Lower	Upper	
228	100		
226	30.3	24.7	37.1
229	22.1	15.9	23.9





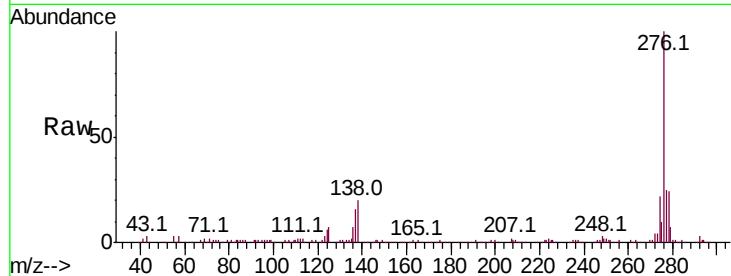
#86
Indeno(1,2,3-cd)pyrene
Concen: 23.296 ng
RT: 17.27 min Scan# 2582
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.4	18.5	27.7
277	24.4	20.0	30.0

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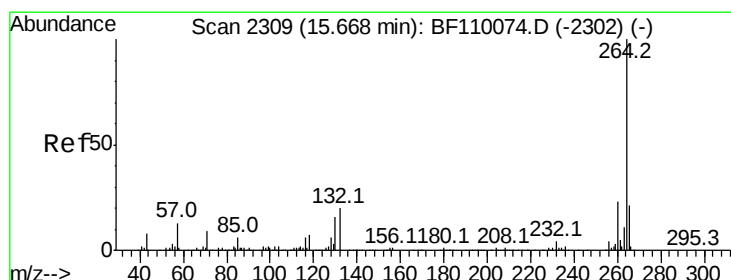
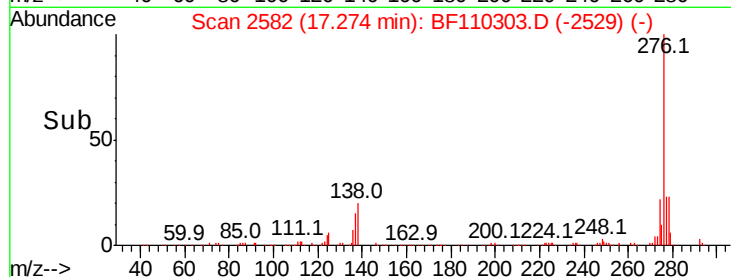
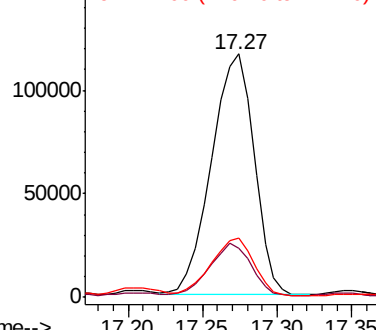


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

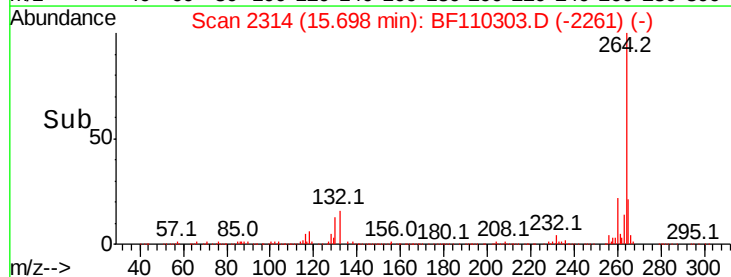
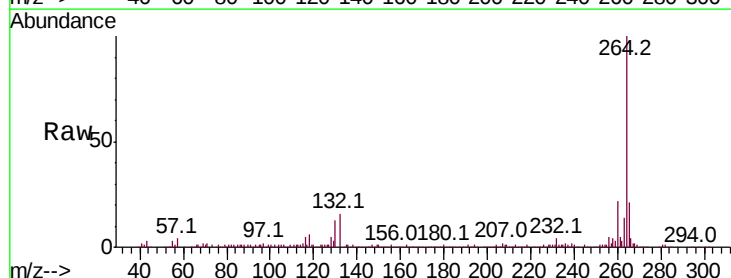
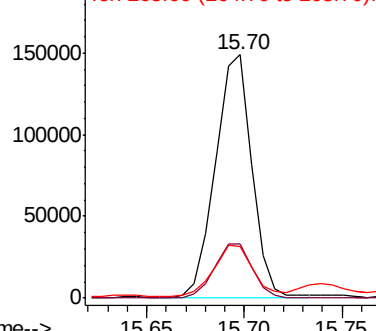
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.2	18.7	28.1
265	21.1	16.7	25.1

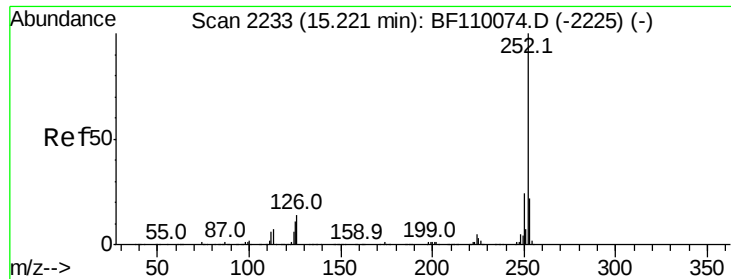
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





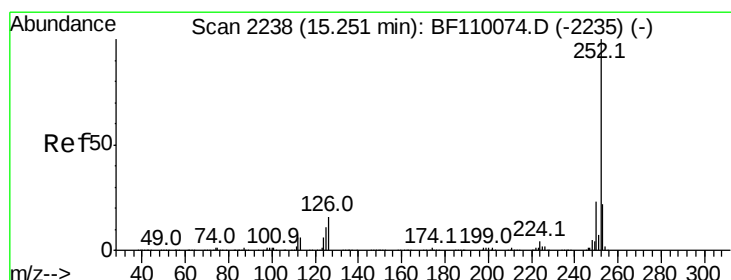
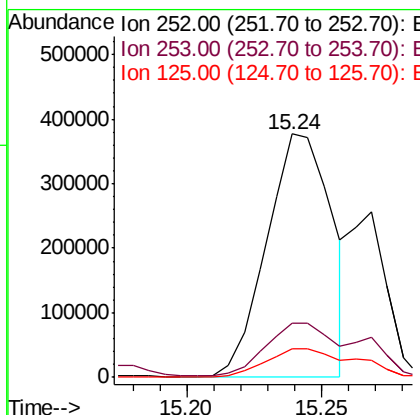
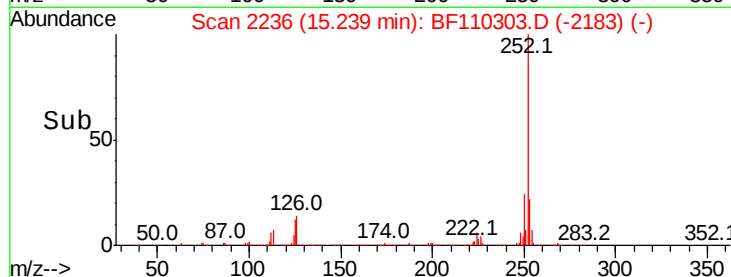
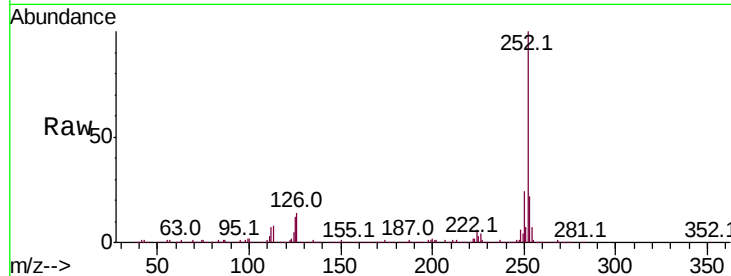
#88
Benzo(b)fluoranthene
Concen: 57.321 ng m
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	11.8	8.2	12.4

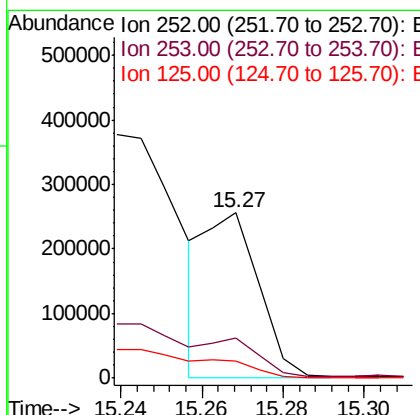
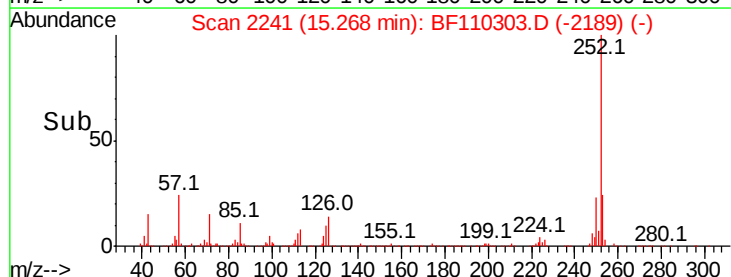
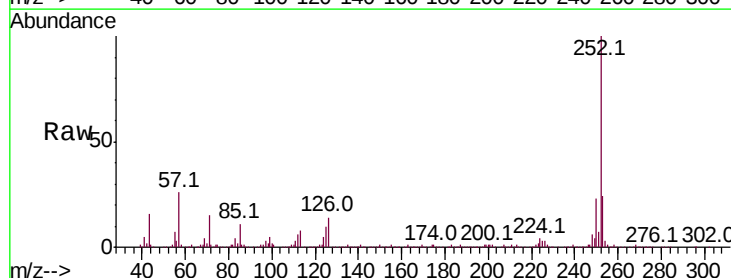
Manual Integrations
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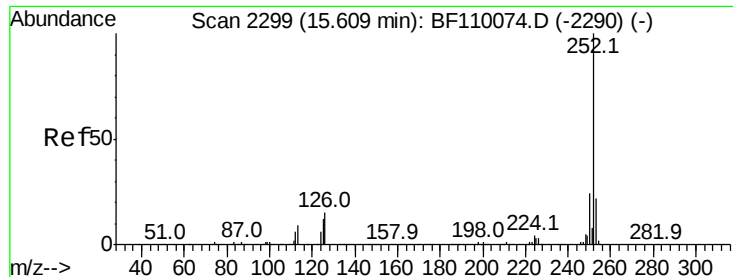
Sohil
10/31/2018 11:14:59 AM



#89
Benzo(k)fluoranthene
Concen: 21.692 ng m
RT: 15.27 min Scan# 2241
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.2	25.8
125	10.4	7.4	11.0





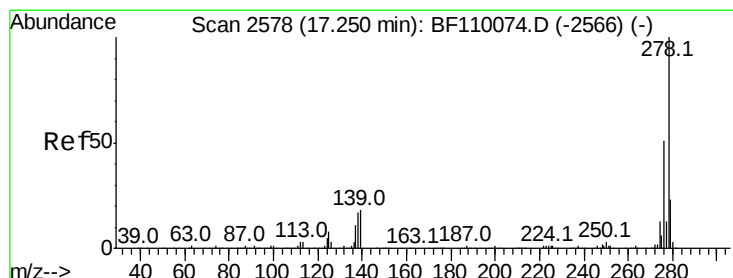
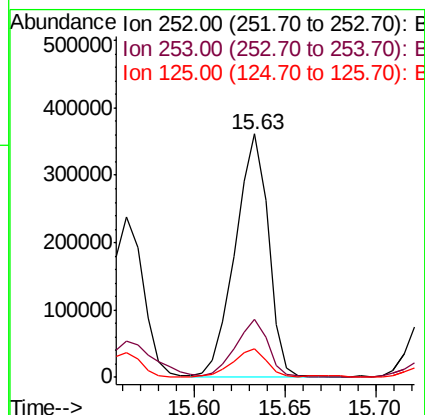
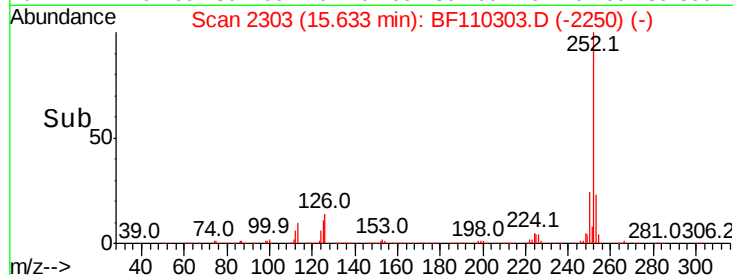
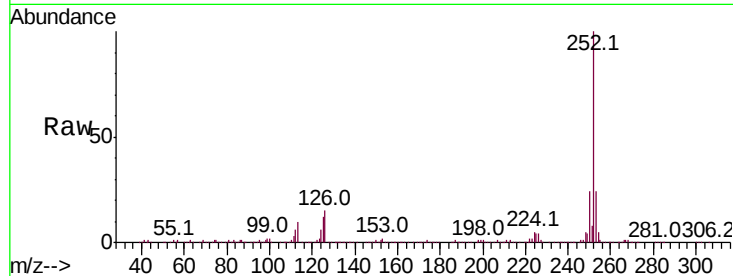
#90
Benzo(a)pyrene
Concen: 45.018 ng
RT: 15.63 min Scan# 2303
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tot Ion:	252	Resp:	458393
Ion Ratio	Lower	Upper	
252	100		
253	23.7	18.2	27.4
125	11.6	9.0	13.6

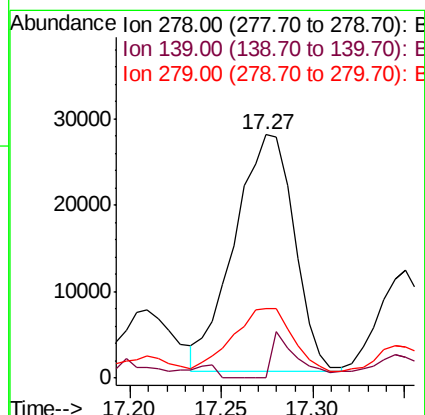
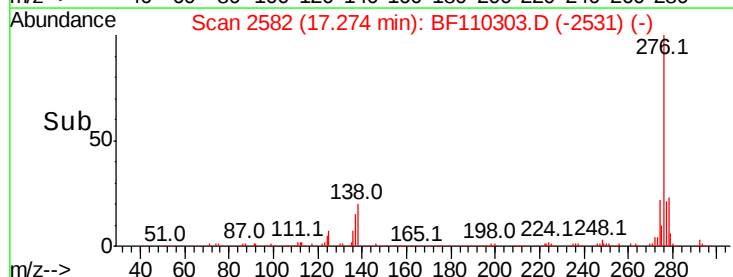
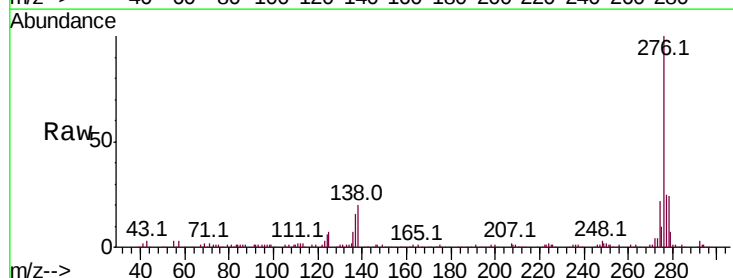
Manual Integrations
APPROVED

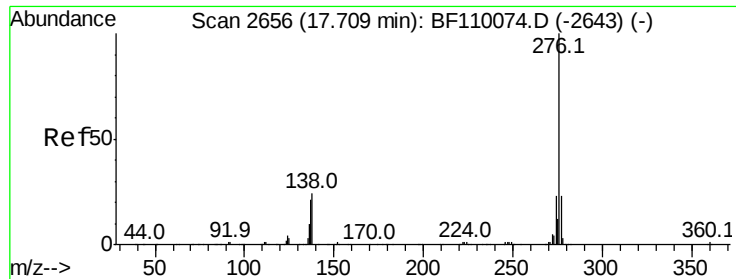
Sohil
10/31/2018 11:14:59 AM



#91
Dibenzo(a,h)anthracene
Concen: 7.116 ng m
RT: 17.27 min Scan# 2582
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion:	278	Resp:	62525
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.7	19.1#
279	28.4	19.0	28.4





#92
 Benzo(a,h,i)perylene
 Concen: 24.658 ng
 RT: 17.75 min Scan# 2663
 Delta R.T. 0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Tot Ion:	276	Resp:	213480
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.8	28.2
138	19.9	16.0	24.0

Manual Integrations
 APPROVED

Sohil
 10/31/2018 11:14:59 AM

