

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
 Data File : BF094107.D
 Acq On : 31 Mar 2017 20:20
 Operator : SJ/MA
 Sample : I2463-05
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-R-Q-11-12-BASE

Manual Integrations
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Quant Time: Apr 01 00:33:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.90	152	137227	20.00	ng	0.00
21) Naphthalene-d8	7.40	136	545789	20.00	ng	-0.01
38) Acenaphthene-d10	9.54	164	237832	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	386096	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	244289	20.00	ng	-0.01
86) Perylene-d12	16.25	264	227264	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.44	112	1070402	131.75	ng	0.00
7) Phenol-d6	5.50	99	1379788	137.28	ng	0.00
23) Nitrobenzene-d5	6.55	82	855836	89.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	246988	131.42	ng	0.00
44) 2-Fluorobiphenyl	8.73	172	1169155	74.98	ng	0.00
78) Terphenyl-d14	13.35	244	652608	59.88	ng	0.00
Target Compounds						Qvalue
11) bis(2-Chloroethyl)ether	5.60	93	19020	2.13	ng	100
31) Naphthalene	7.43	128	171735	6.54	ng	97
48) Acenaphthylene	9.36	152	129849	5.20	ng	97
49) Dimethylphthalate	9.22	163	84705	5.01	ng	99
51) Acenaphthene	9.58	154	37588	2.58	ng	95
57) Fluorene	10.22	166	36517	2.22	ng	97
70) Phenanthrene	11.39	178	341261	15.89	ng	98
71) Anthracene	11.46	178	140137	6.34	ng	97
74) Fluoranthene	12.86	202	650117	29.56	ng	98
77) Pyrene	13.14	202	1034898	58.37	ng	99
80) Benzo(a)anthracene	14.60	228	325468m	22.85	ng	
82) Chrysene	14.65	228	289346	21.89	ng	98
85) Indeno(1,2,3-cd)pyrene	17.59	276	243080	21.23	ng	94
87) Benzo(b)fluoranthene	15.84	252	429633m	30.84	ng	
88) Benzo(k)fluoranthene	15.87	252	98250m	7.21	ng	
89) Benzo(a)pyrene	16.19	252	452013	35.24	ng	99
90) Dibenzo(a,h)anthracene	17.60	278	50268	4.63	ng	98
91) Benzo(g,h,i)perylene	17.99	276	321357	29.35	ng	99

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

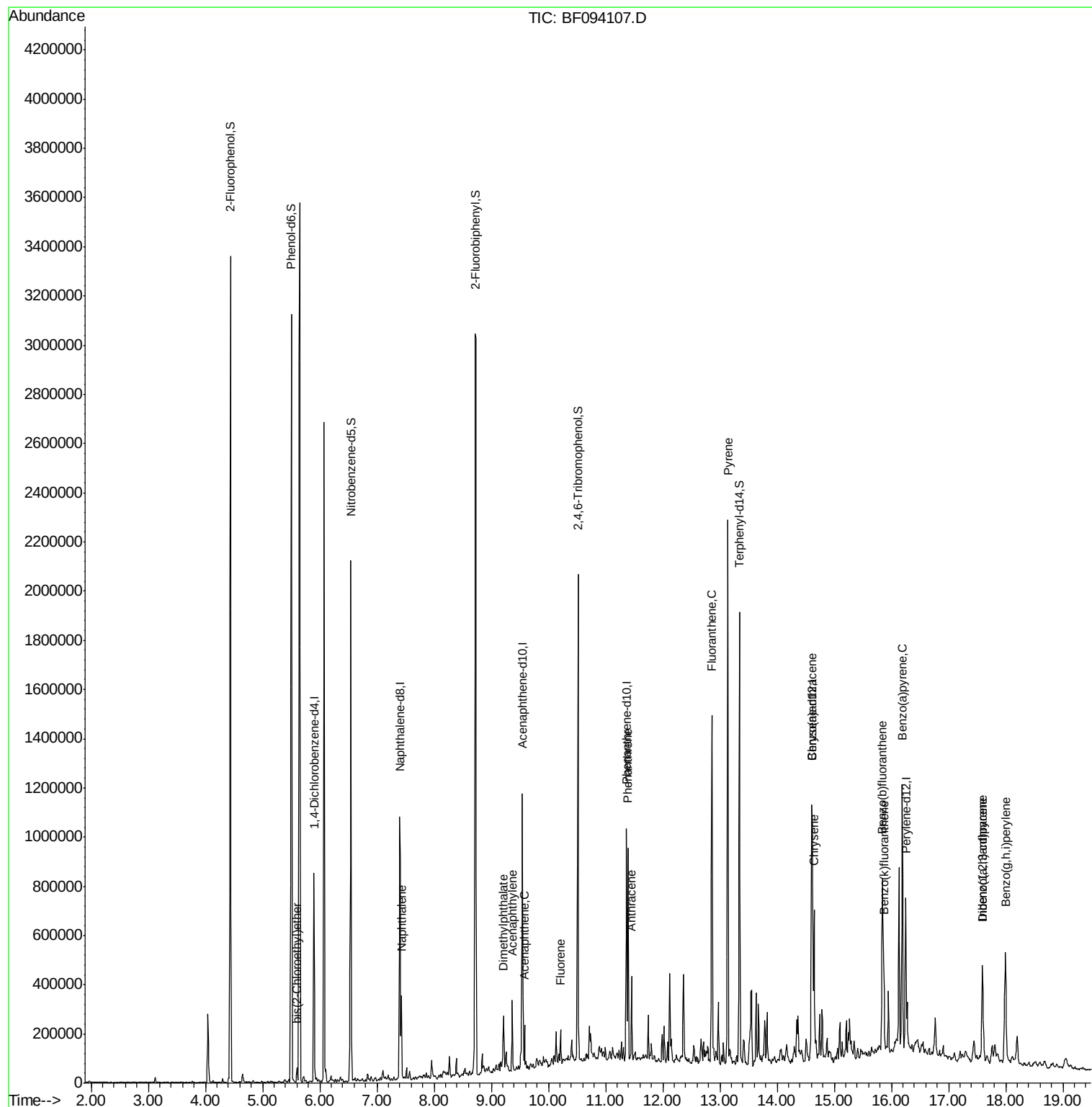
Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
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ALS Vial : 21 Sample Multiplier: 1

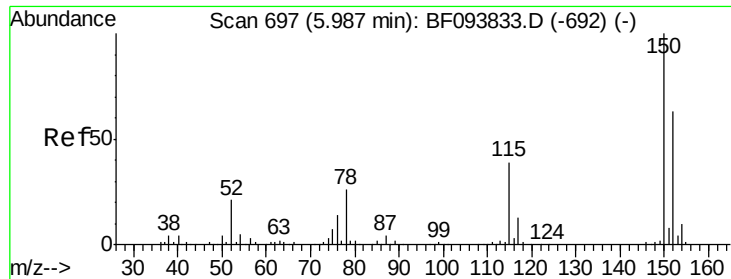
Instrument :
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#1

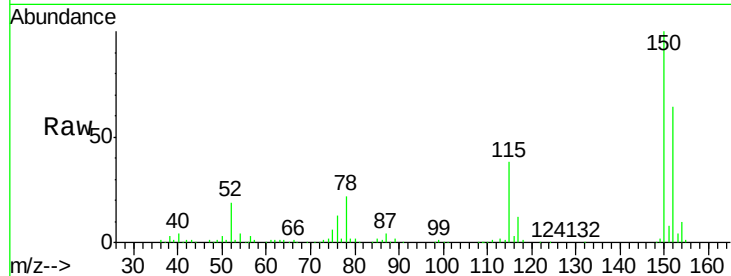
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.90 min Scan# 682
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	126.2	189.2
115	58.7	52.2	78.2

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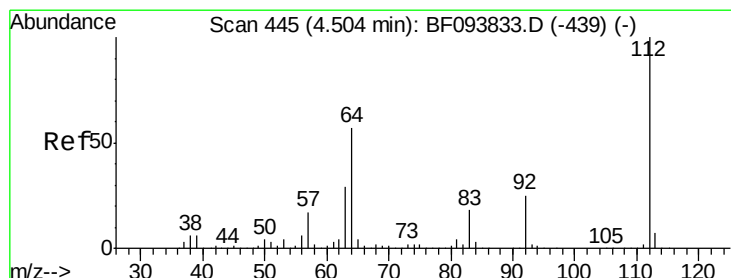
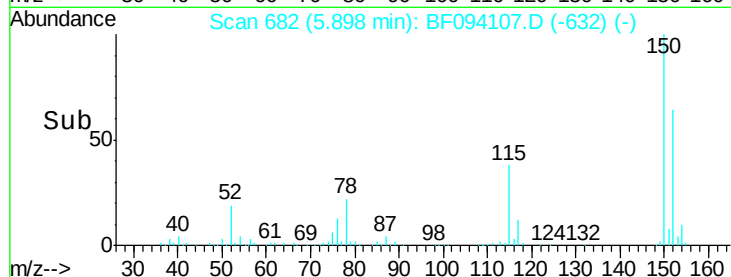
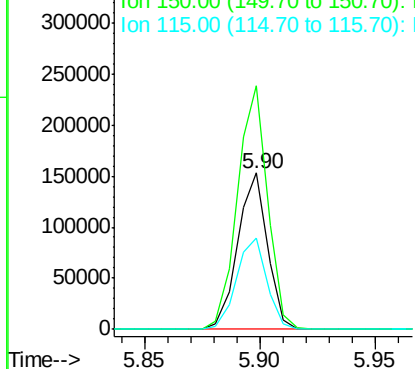


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

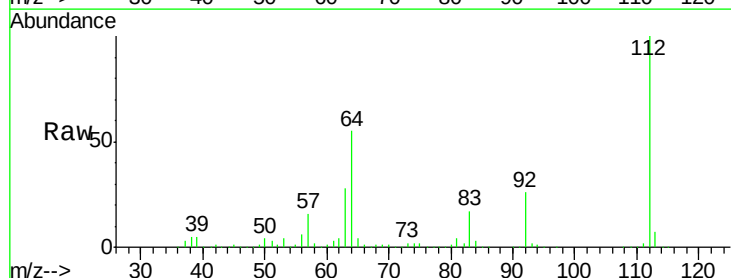
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 131.75 ng
RT: 4.44 min Scan# 434
Delta R.T. 0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.6	46.0	69.0
63	27.8	23.4	35.0

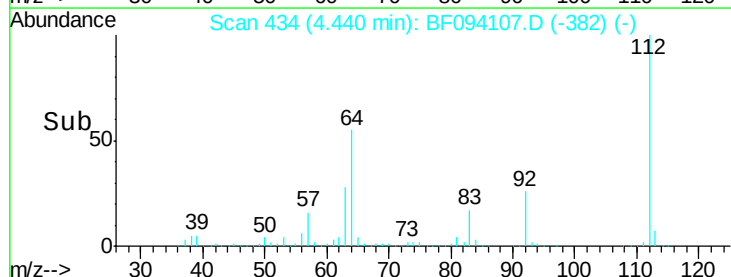
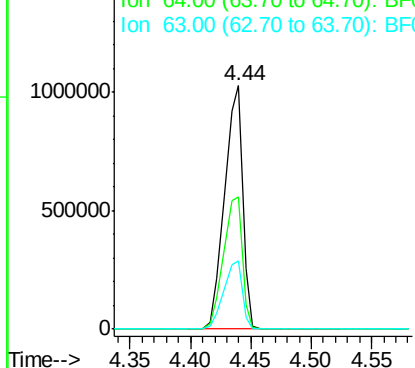


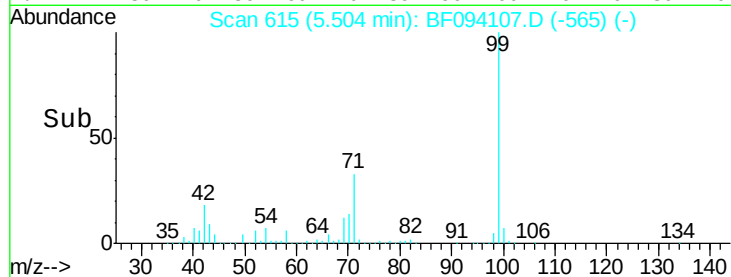
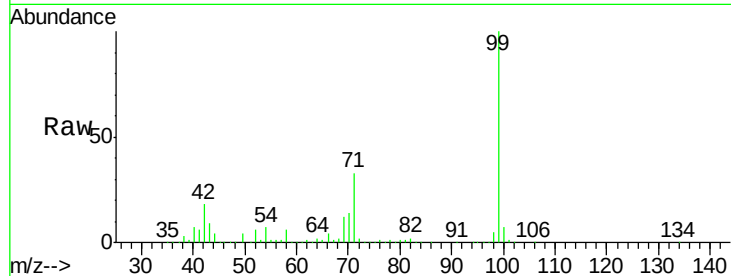
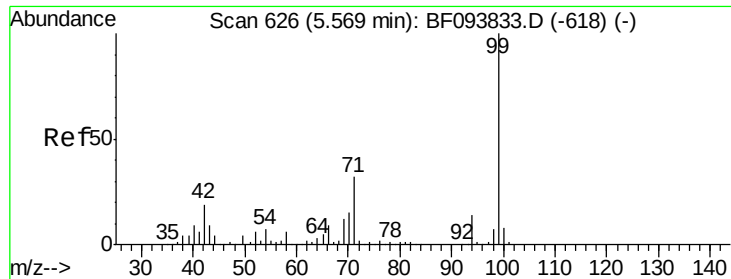
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 137.28 ng

RT: 5.50 min Scan# 615

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Tot Ion: 99 Resp: 1379788

Ion Ratio Lower Upper

99 100

42 18.0 13.5 20.3

71 33.5 24.5 36.7

Instrument :

BNA_F

ClientSampleId :

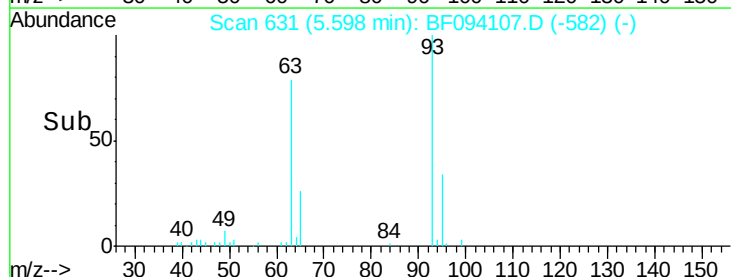
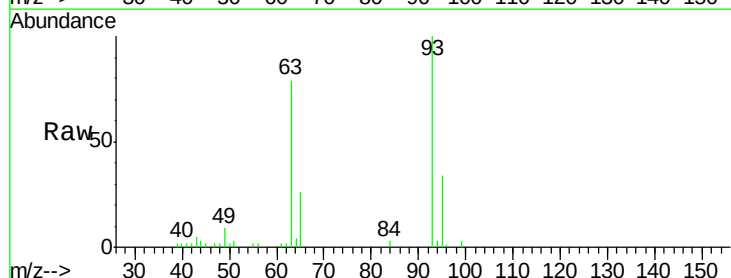
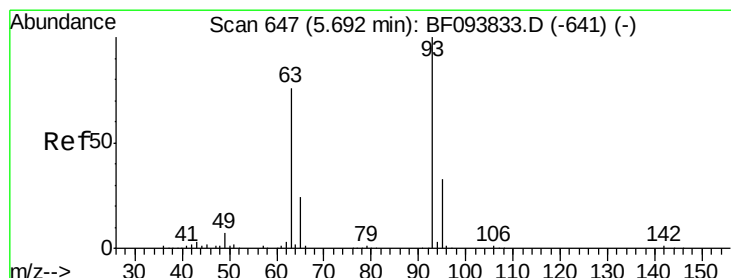
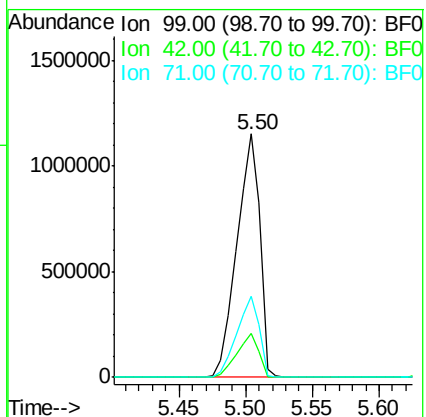
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#11

bis(2-Chloroethyl)ether

Concen: 2.13 ng

RT: 5.60 min Scan# 631

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

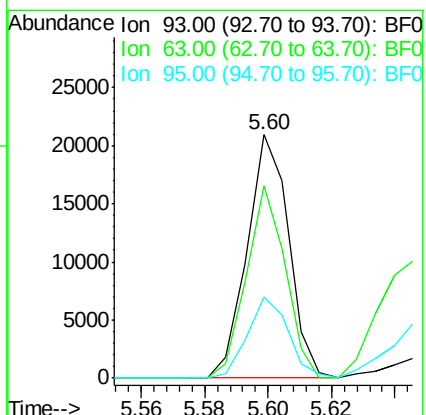
Tgt Ion: 93 Resp: 19020

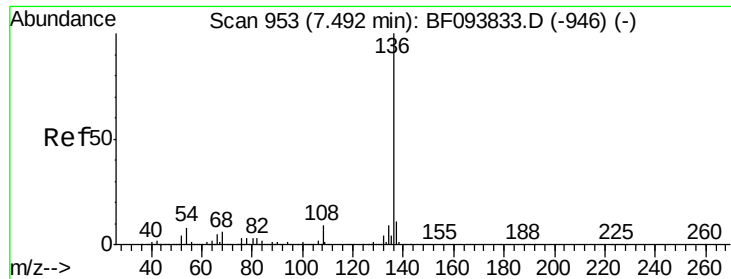
Ion Ratio Lower Upper

93 100

63 79.1 59.2 99.2

95 33.5 12.8 52.8





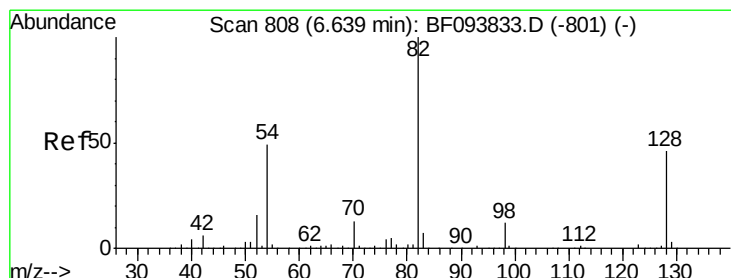
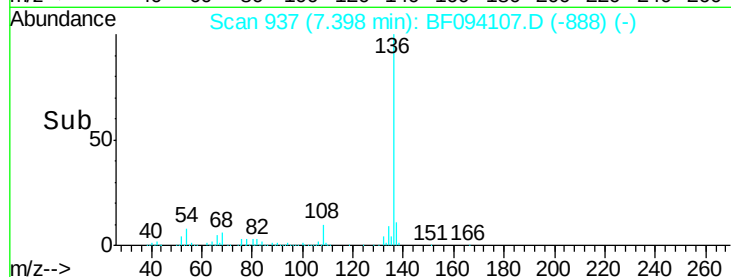
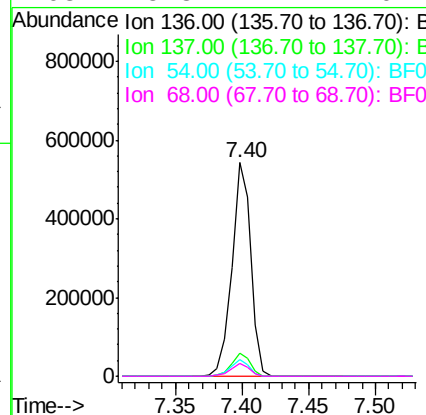
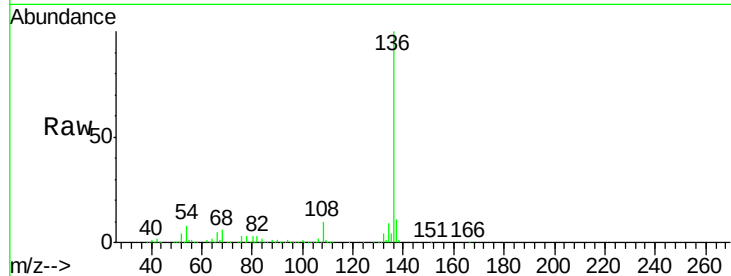
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.40 min Scan# 937
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	10.9		8.5	12.7	
54	7.6		4.9	7.3	
68	5.8		4.1	6.1	

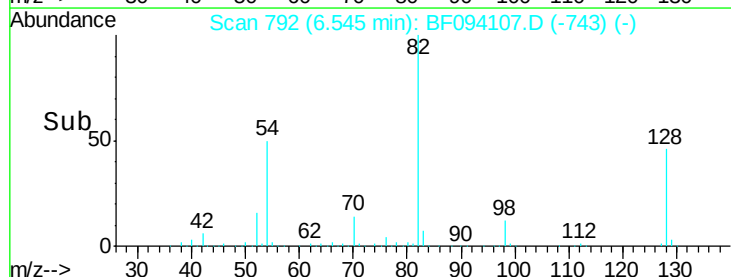
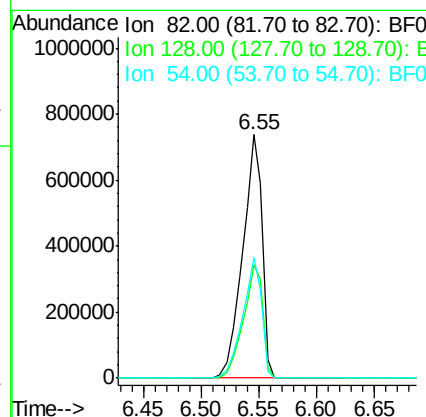
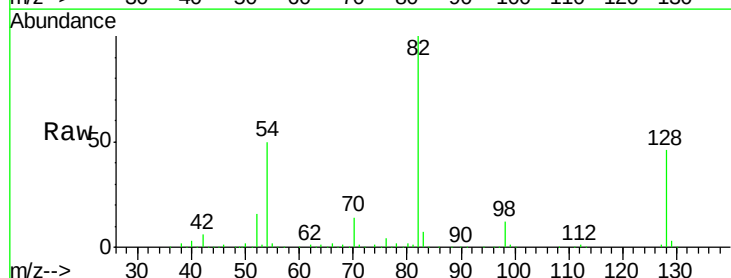
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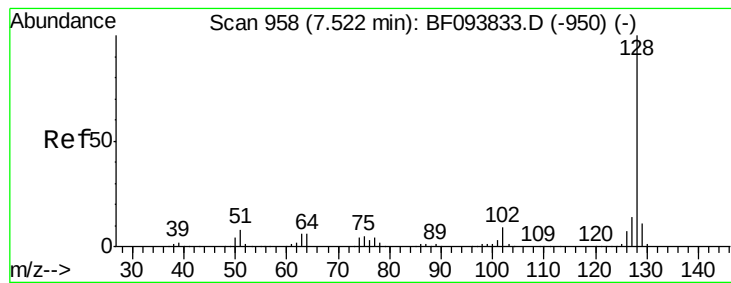
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#23
Nitrobenzene-d5
Concen: 89.49 ng
RT: 6.55 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	46.3		34.0	51.0	
54	49.6		42.2	63.2	





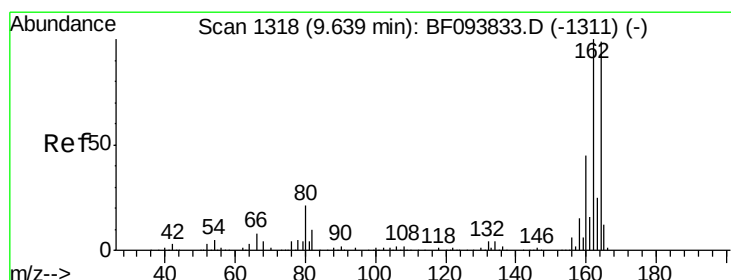
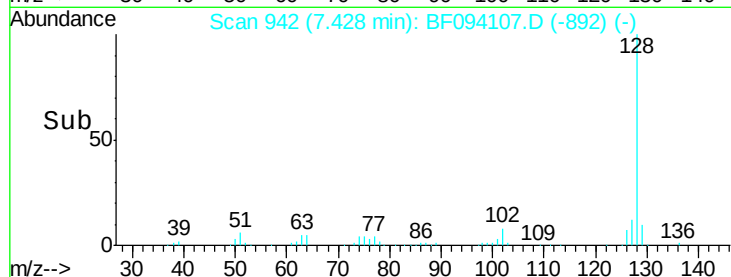
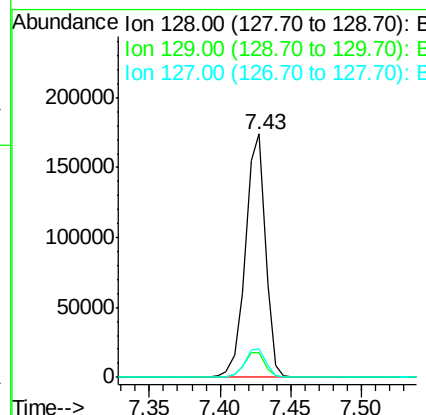
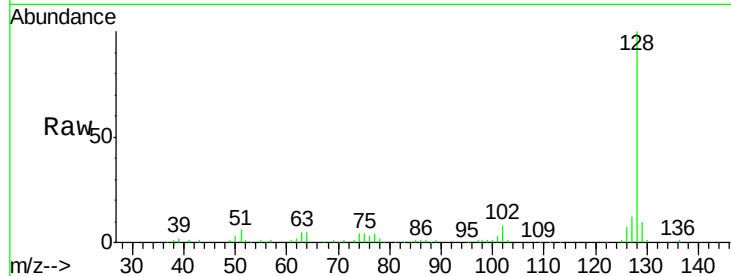
#31
Naphthalene
Concen: 6.54 ng
RT: 7.43 min Scan# 942
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.3	9.0	13.6
127	11.9	10.8	16.2

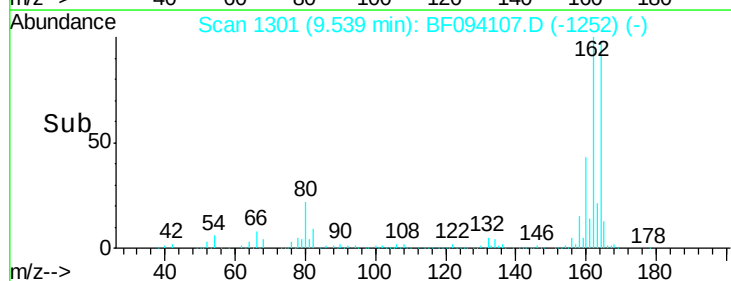
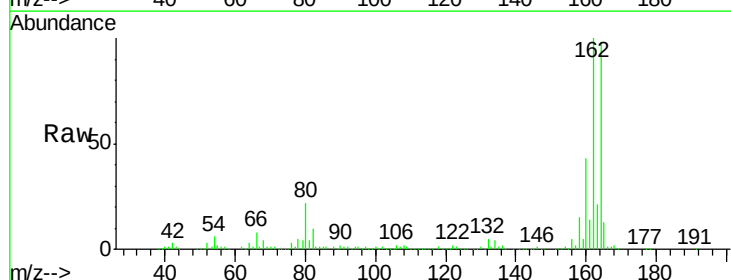
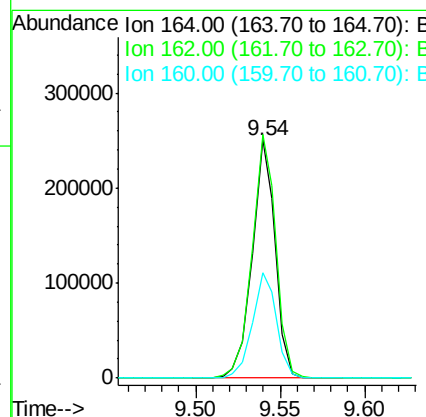
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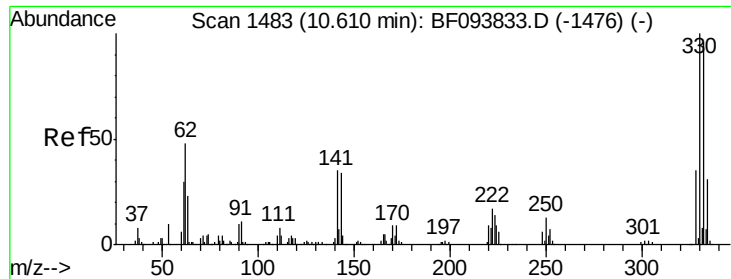
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.54 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.4	82.6	123.8
160	44.1	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 131.42 ng

RT: 10.52 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

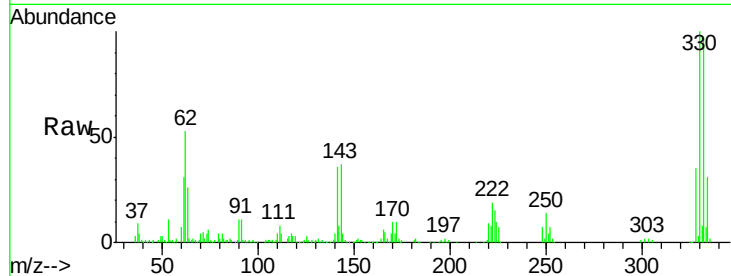
ClientSampleId :

E2-R-Q-11-12-BASE

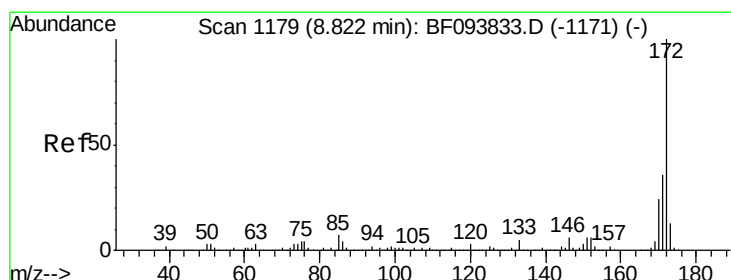
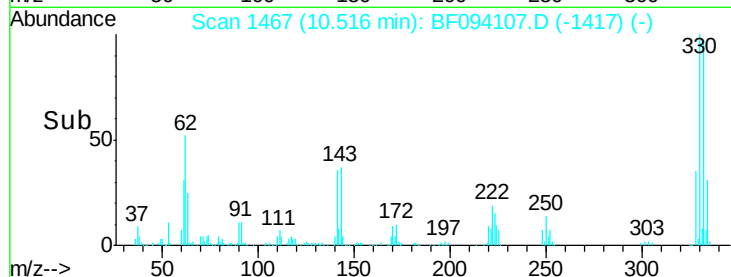
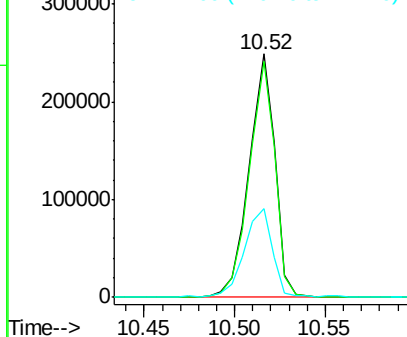
Tot Ion:	330	Resp:	246988
Ion Ratio	Lower	Upper	
330	100		
332	96.8	76.6	115.0
141	39.1	31.4	47.2

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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



#44

2-Fluorobiphenyl

Concen: 74.98 ng

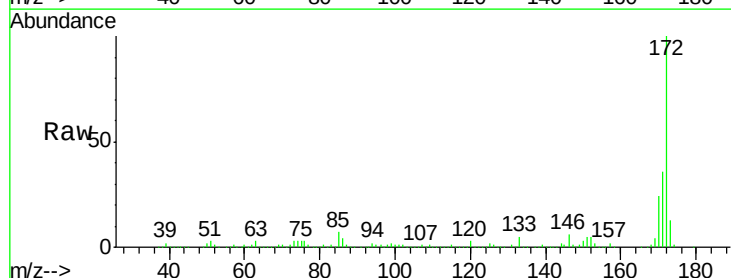
RT: 8.73 min Scan# 1163

Delta R.T. -0.01 min

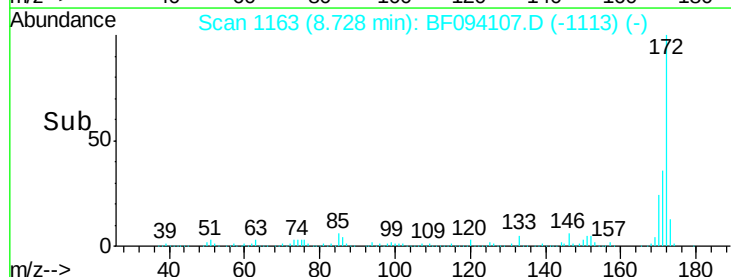
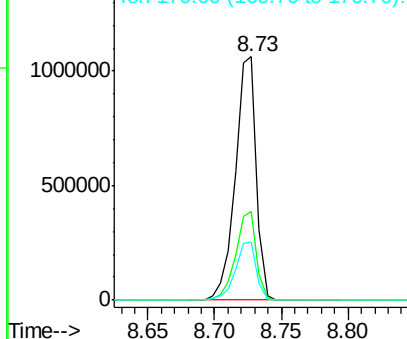
Lab File: BF094107.D

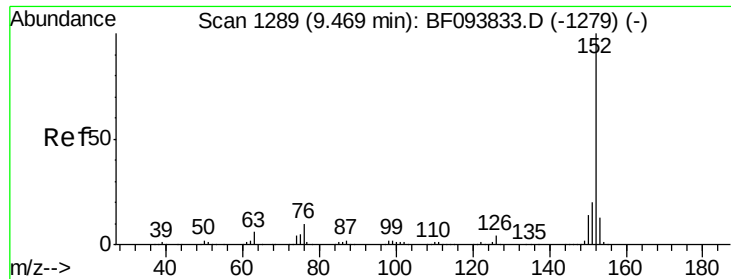
Acq: 31 Mar 2017 20:20

Tgt Ion:	172	Resp:	1169155
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.6	44.4
170	23.7	19.8	29.8



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





#48

Acenaphthylene

Concen: 5.20 ng

RT: 9.36 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

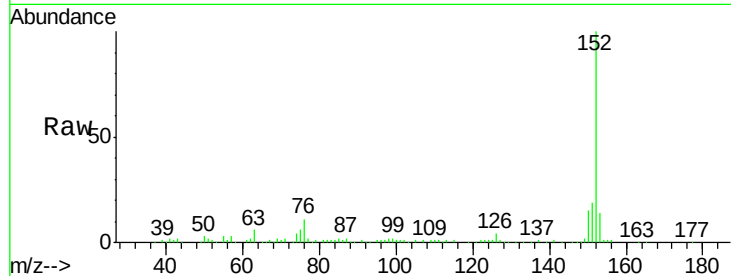
ClientSampleId :

E2-R-Q-11-12-BASE

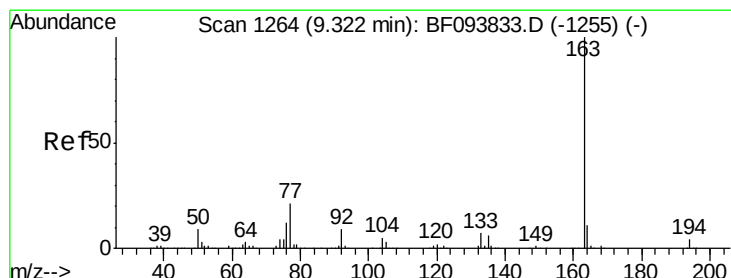
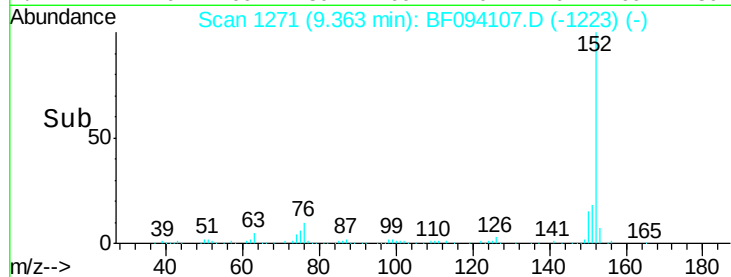
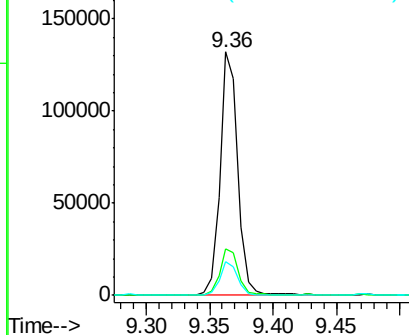
Tot Ion	Ratio	Resp	Lower	Upper
152	100	129849		
151	19.2		16.8	25.2
153	13.8		10.8	16.2

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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



#49

Dimethylphthalate

Concen: 5.01 ng

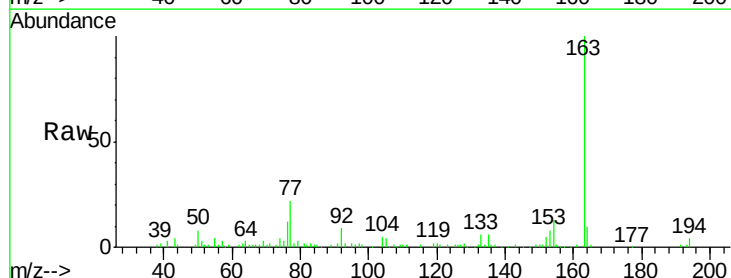
RT: 9.22 min Scan# 1246

Delta R.T. -0.03 min

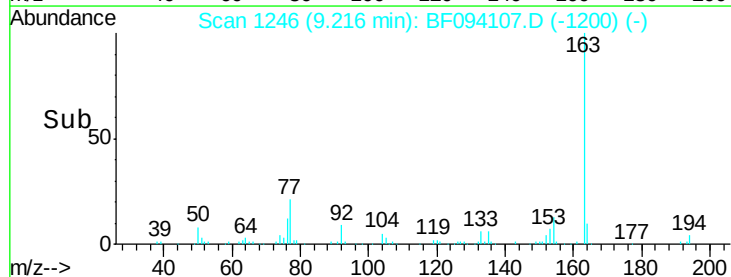
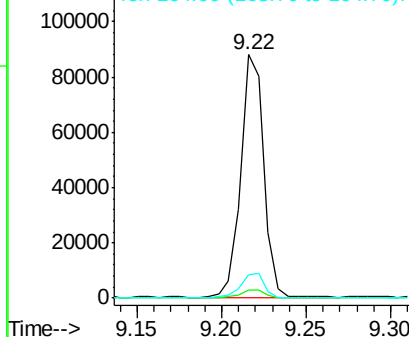
Lab File: BF094107.D

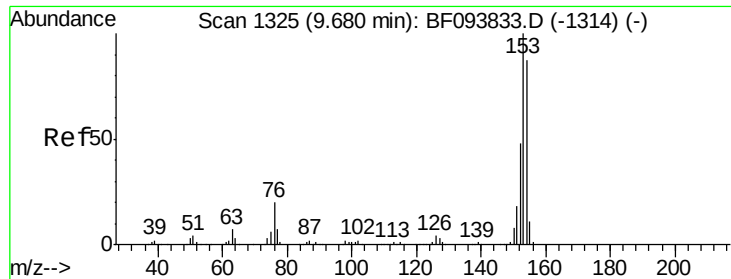
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	84705		
194	3.5		2.6	4.0
164	9.9		8.4	12.6



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





#51

Acenaphthene

Concen: 2.58 ng

RT: 9.58 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

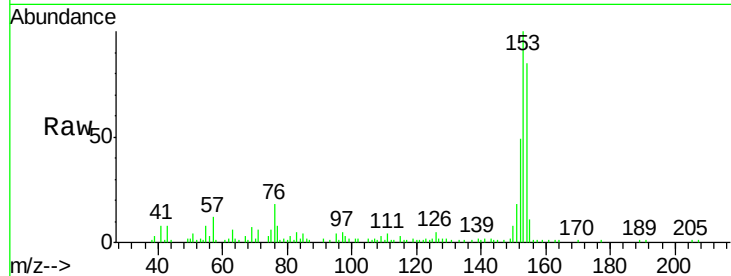
ClientSampleId :

E2-R-Q-11-12-BASE

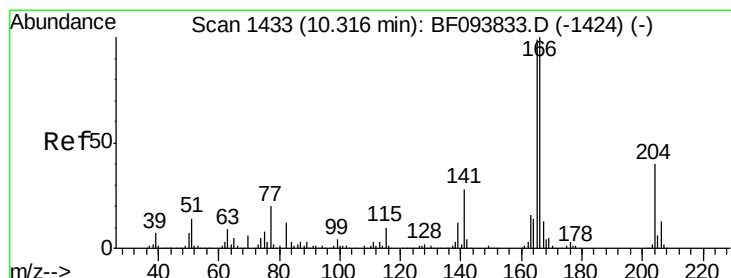
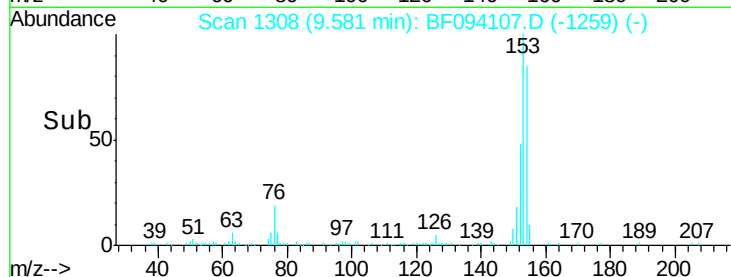
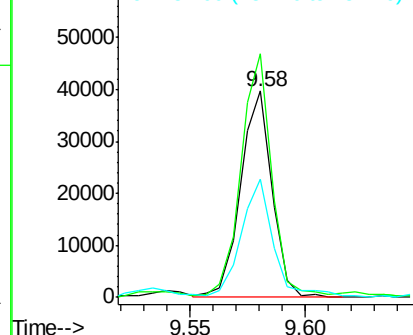
Tot Ion:	154	Resp:	37588
Ion	Ratio	Lower	Upper
154	100		
153	118.2	90.5	135.7
152	57.5	43.6	65.4

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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



#57

Fluorene

Concen: 2.22 ng

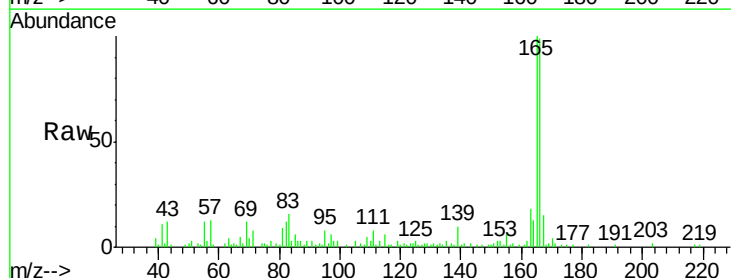
RT: 10.22 min Scan# 1416

Delta R.T. -0.01 min

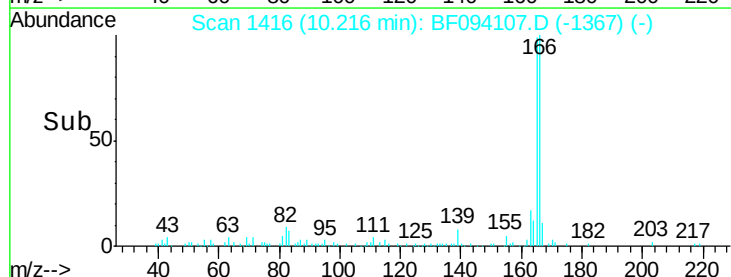
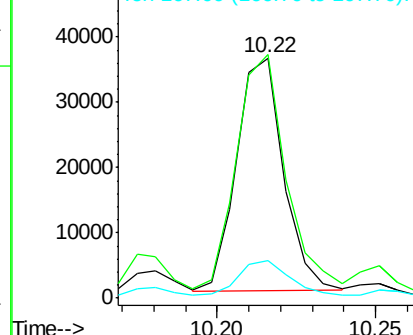
Lab File: BF094107.D

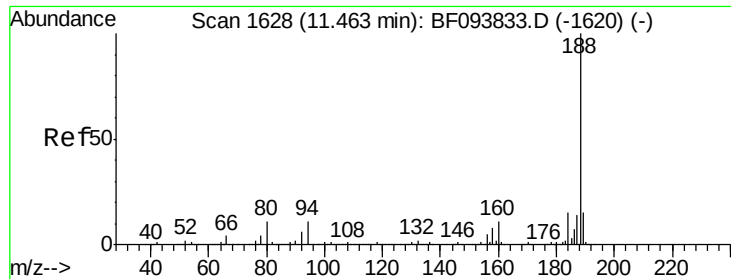
Acq: 31 Mar 2017 20:20

Tgt Ion:	166	Resp:	36517
Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.8	118.2
167	15.5	10.6	16.0



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





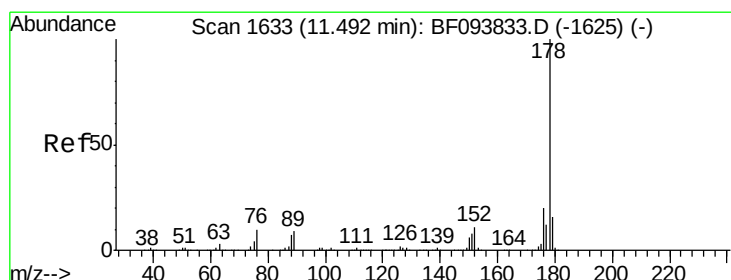
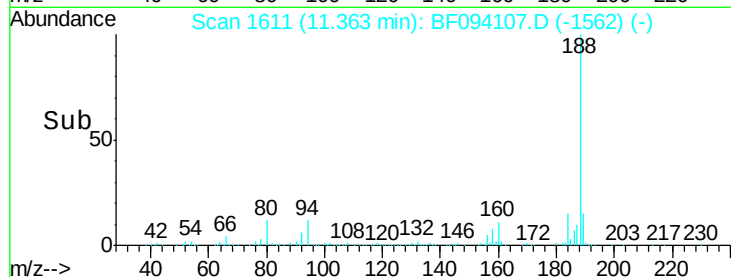
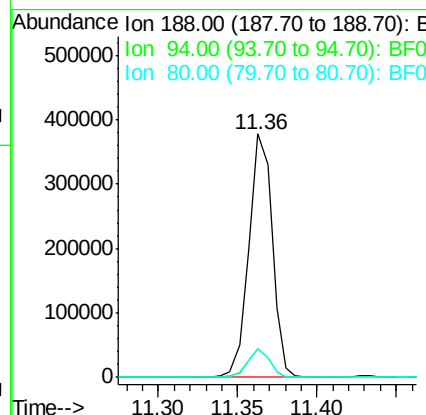
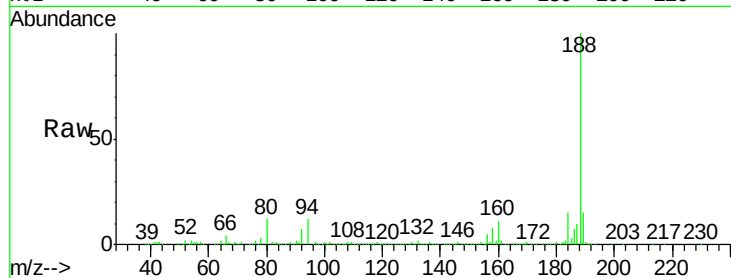
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1611
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	386096		
94	11.7		9.4	14.2
80	11.6		10.2	15.2

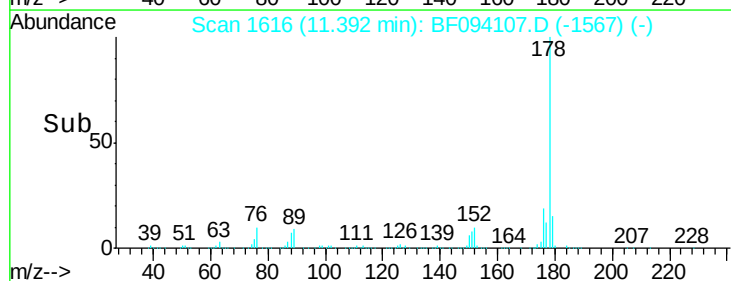
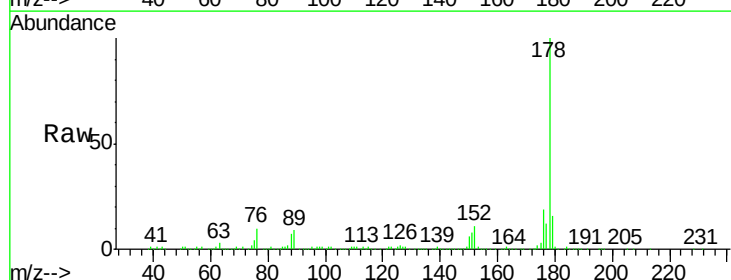
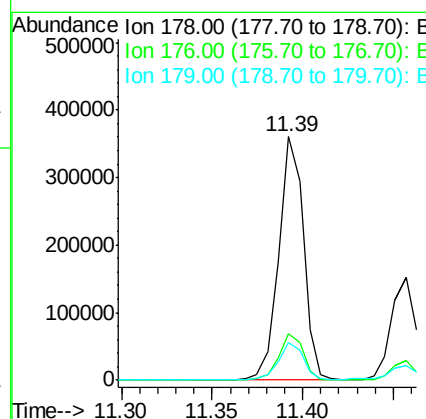
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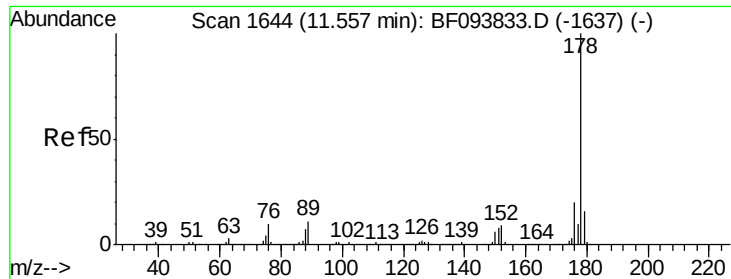
mohammad
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#70
Phenanthrene
Concen: 15.89 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	341261		
176	19.1		16.2	24.4
179	15.6		12.6	19.0





#71

Anthracene

Concen: 6.34 ng

RT: 11.46 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

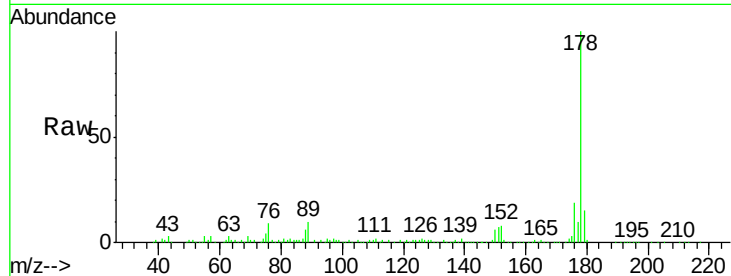
ClientSampleId :

E2-R-Q-11-12-BASE

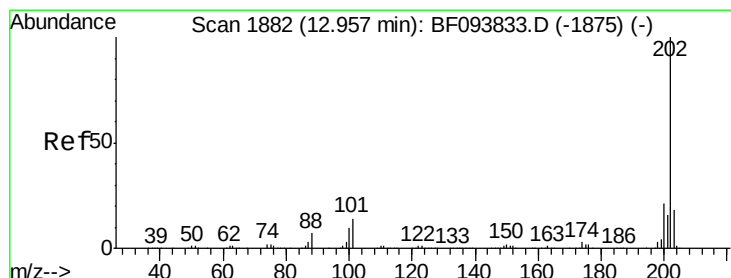
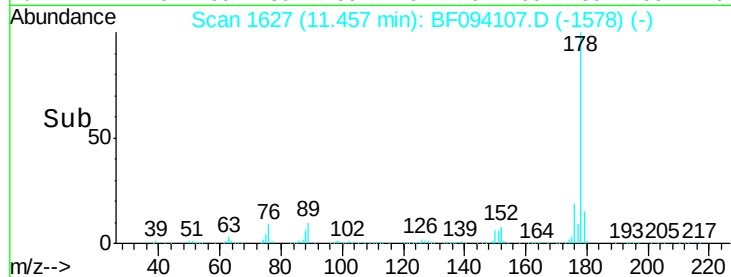
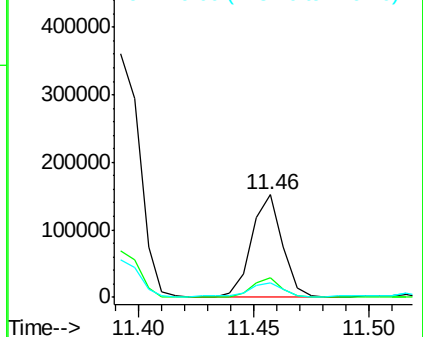
Tot Ion:	178	Resp:	140137
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.8	23.8
179	14.7	12.7	19.1

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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



#74

Fluoranthene

Concen: 29.56 ng

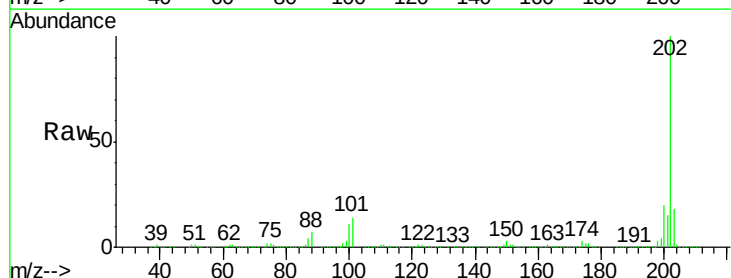
RT: 12.86 min Scan# 1865

Delta R.T. -0.01 min

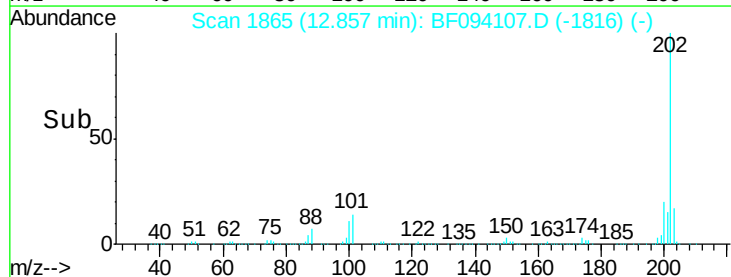
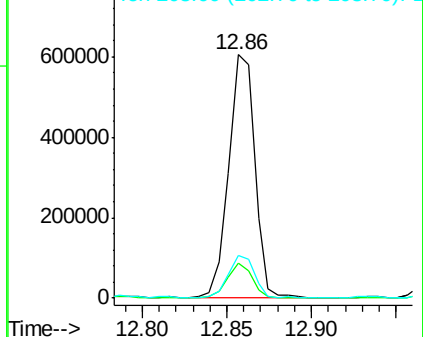
Lab File: BF094107.D

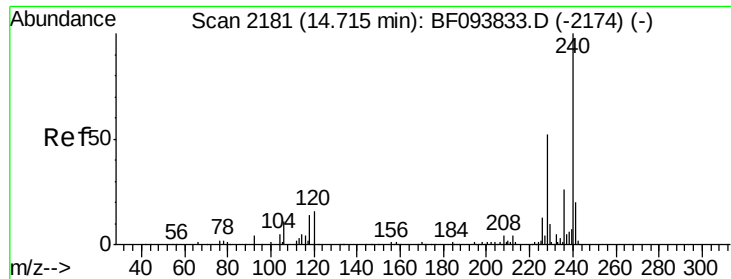
Acq: 31 Mar 2017 20:20

Tgt Ion:	202	Resp:	650117
Ion Ratio	Lower	Upper	
202	100		
101	14.2	0.0	33.2
203	17.6	0.0	38.1



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

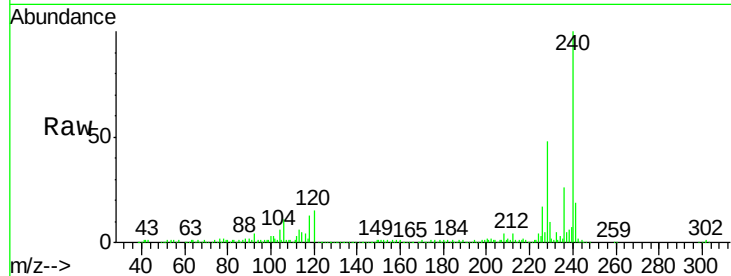
ClientSampleId :

E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.4	5.8	8.8#
236	25.7	20.5	30.7

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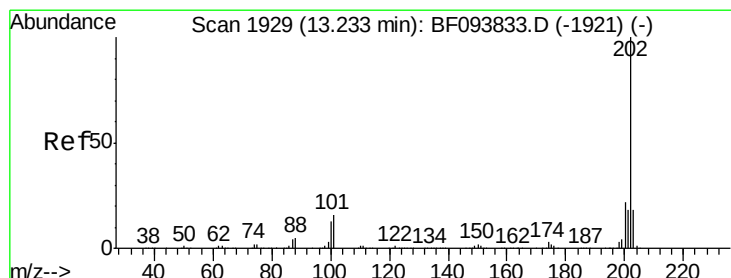
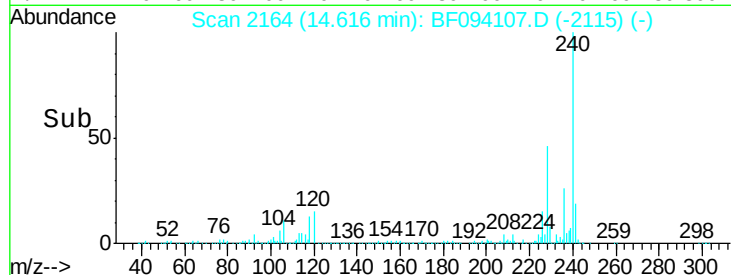
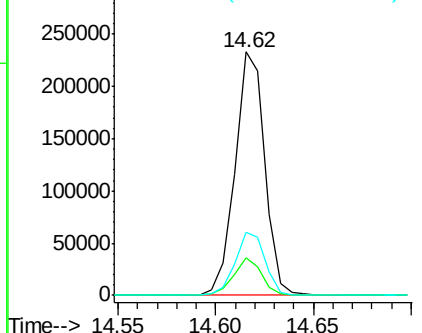
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 58.37 ng

RT: 13.14 min Scan# 1913

Delta R.T. -0.01 min

Lab File: BF094107.D

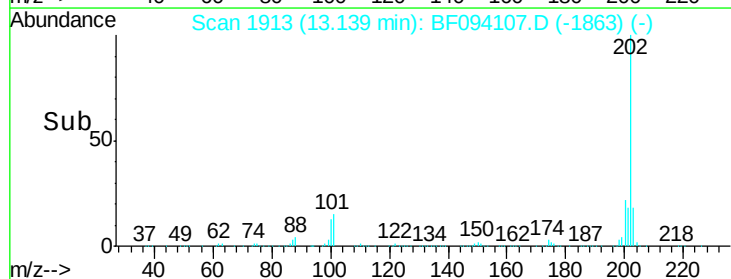
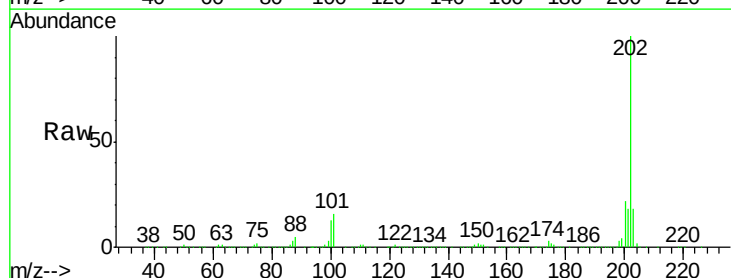
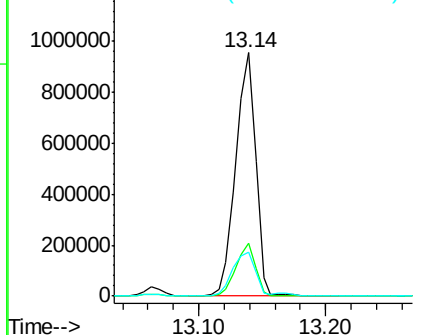
Acq: 31 Mar 2017 20:20

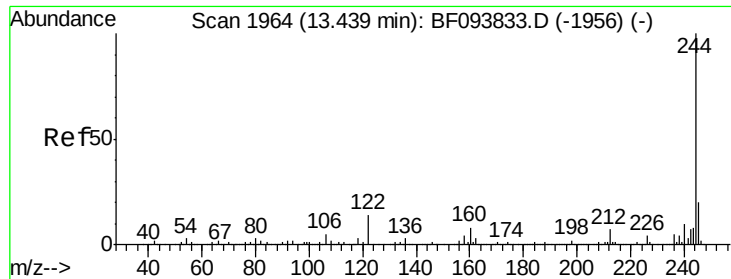
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.6	26.4
203	18.3	14.4	21.6

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





#78

Terphenyl-d14

Concen: 59.88 ng

RT: 13.35 min Scan# 1948

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

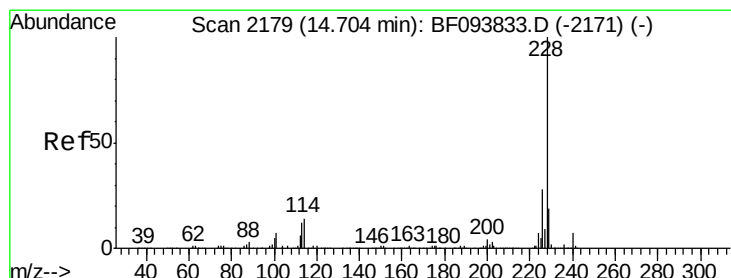
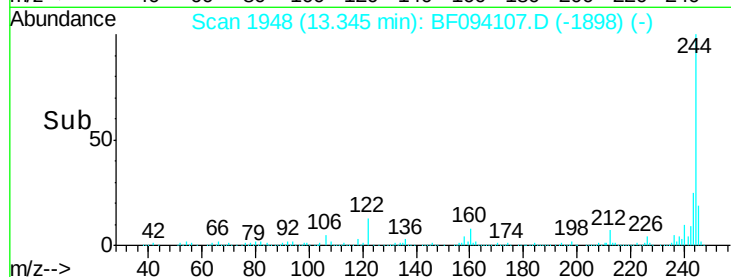
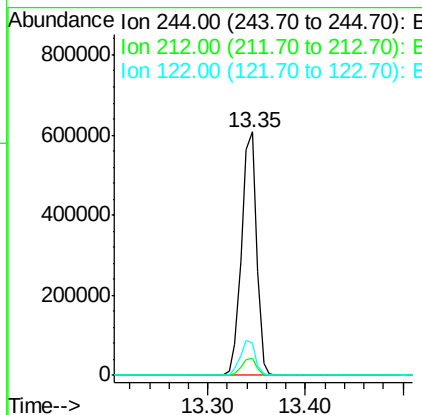
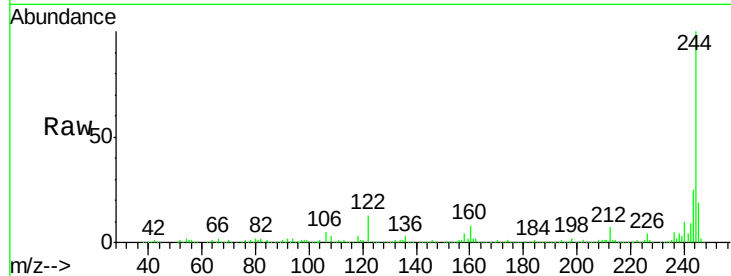
ClientSampleId :

E2-R-Q-11-12-BASE

Tot Ion:	244	Resp:	652608
Ion Ratio	Lower	Upper	
244	100		
212	6.9	6.0	9.0
122	13.3	10.3	15.5

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#80

Benzo(a)anthracene

Concen: 22.85 ng m

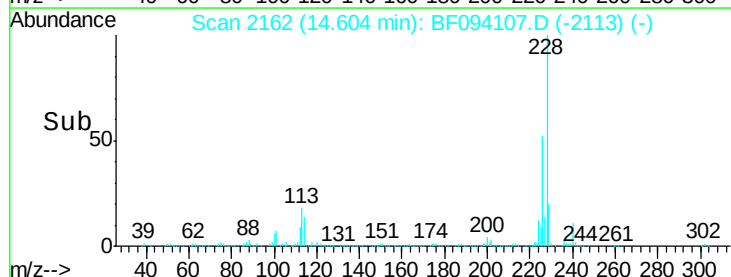
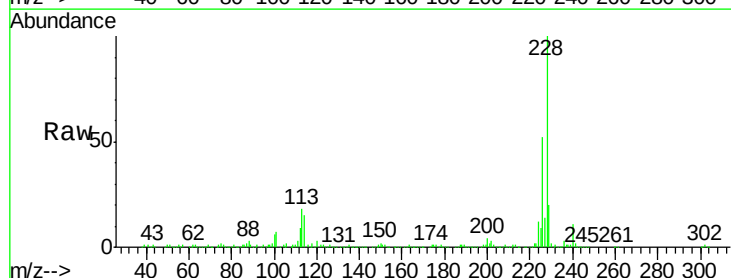
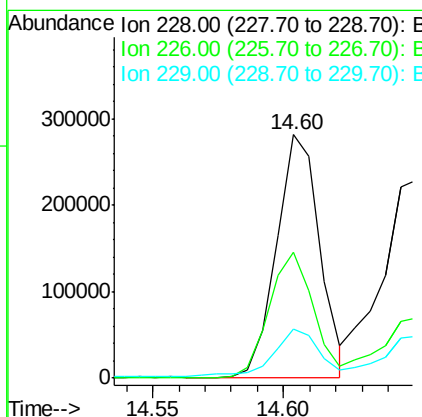
RT: 14.60 min Scan# 2162

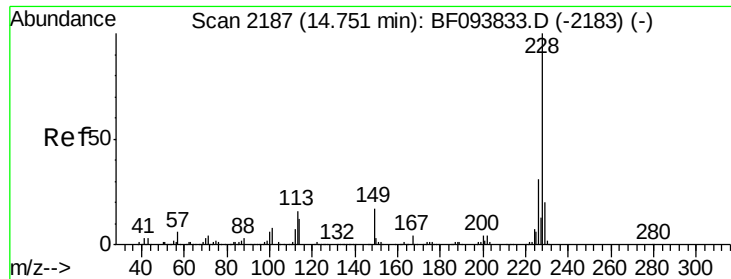
Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Tgt Ion:	228	Resp:	325468
Ion Ratio	Lower	Upper	
228	100		
226	51.9	22.6	33.8#
229	20.4	16.3	24.5





#82

Chrysene

Concen: 21.89 ng

RT: 14.65 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Instrument :

BNA_F

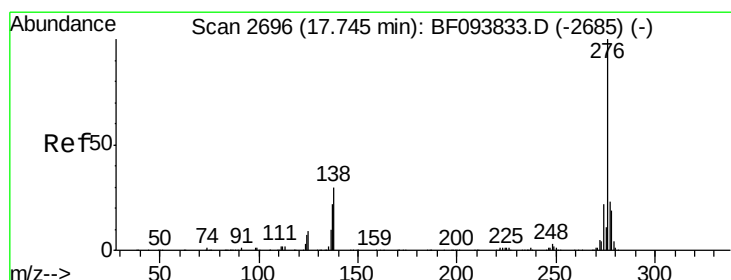
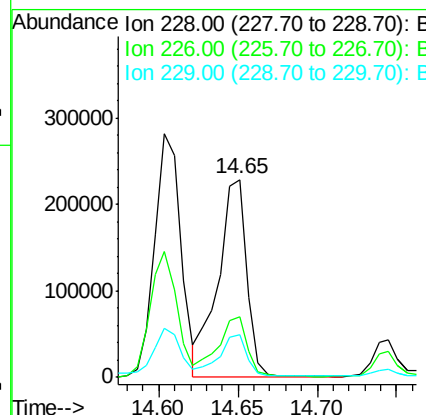
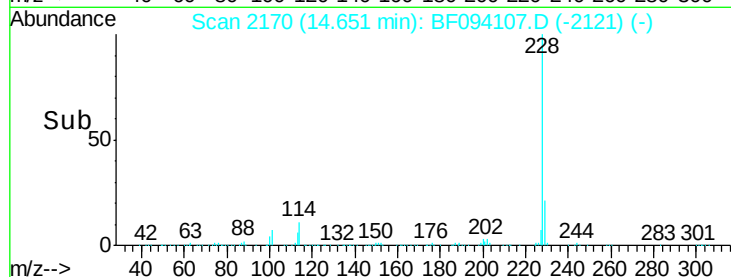
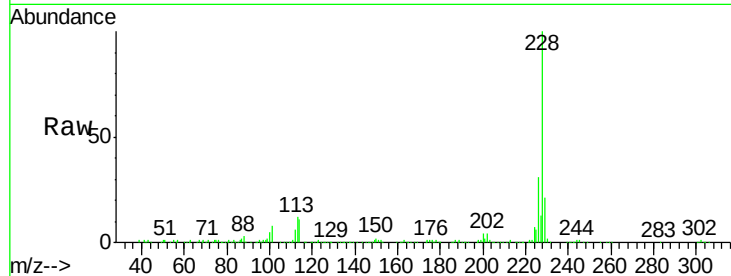
ClientSampleId :

E2-R-Q-11-12-BASE

Tot Ion:	228	Resp:	289346
Ion Ratio	Lower	Upper	
228	100		
226	30.7	24.9	37.3
229	21.3	15.8	23.6

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#85

Indeno(1,2,3-cd)pyrene

Concen: 21.23 ng

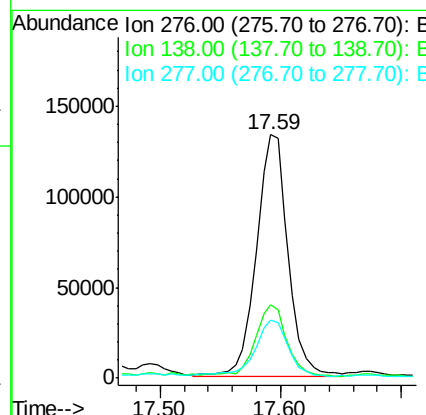
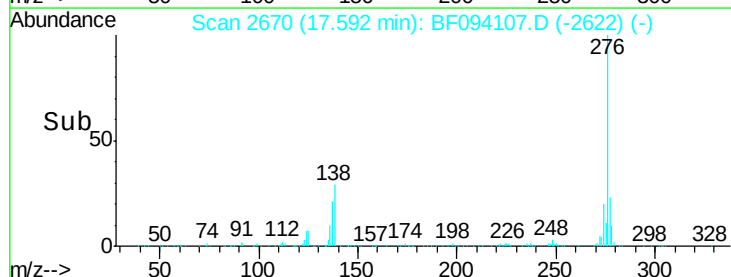
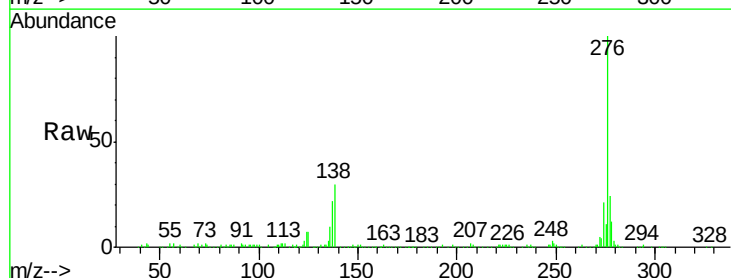
RT: 17.59 min Scan# 2670

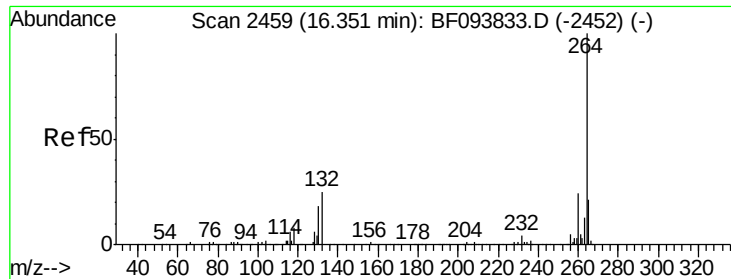
Delta R.T. -0.02 min

Lab File: BF094107.D

Acq: 31 Mar 2017 20:20

Tgt Ion:	276	Resp:	243080
Ion Ratio	Lower	Upper	
276	100		
138	29.5	27.8	41.6
277	26.0	20.2	30.4





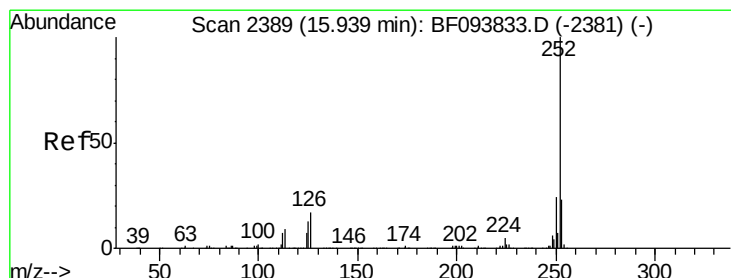
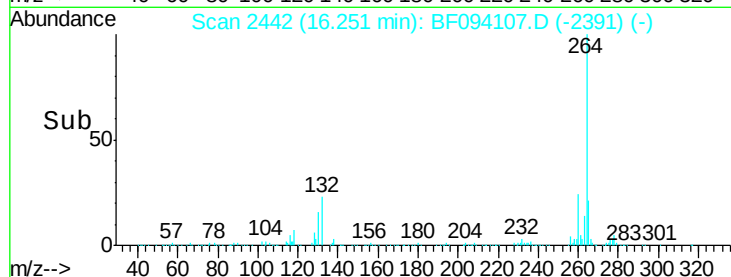
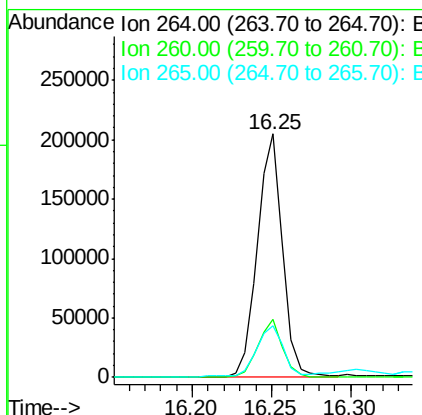
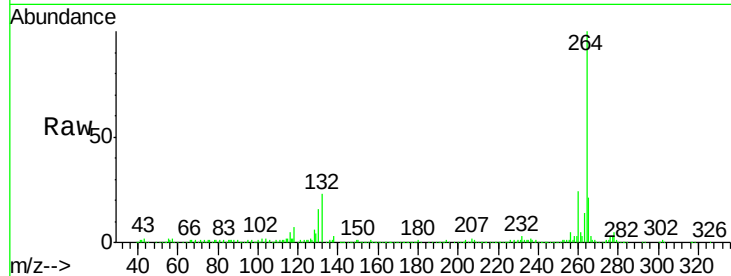
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.25 min Scan# 2442
Delta R.T. 0.00 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	21.2	17.2	25.8

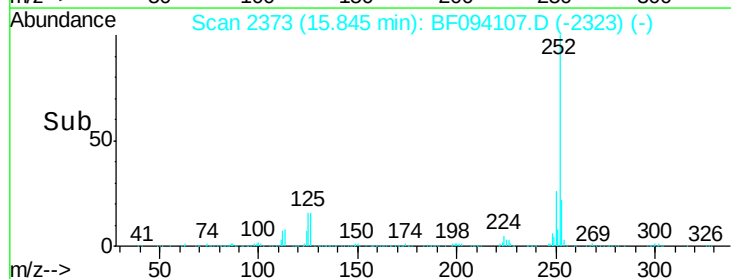
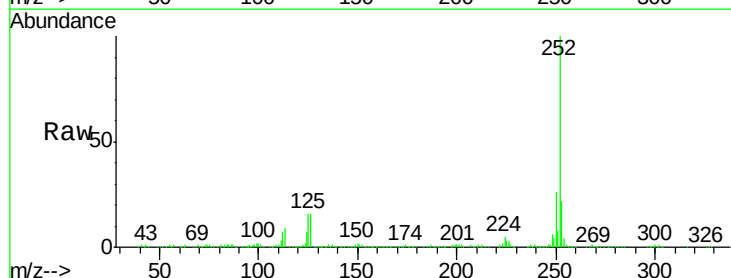
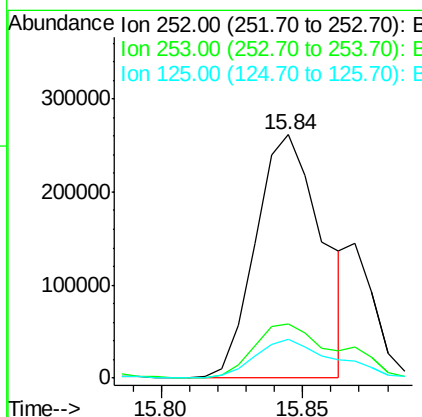
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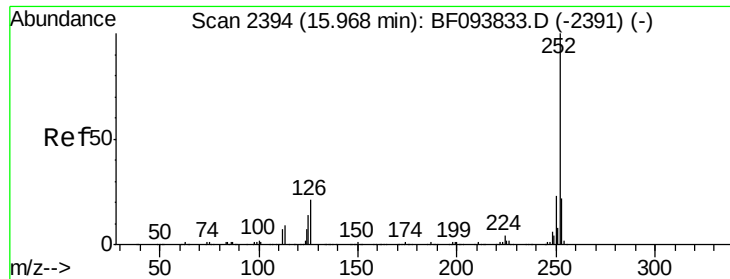
mohammad
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#87
Benzo(b)fluoranthene
Concen: 30.84 ng m
RT: 15.84 min Scan# 2373
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.1	27.1
125	16.0	9.8	14.8#





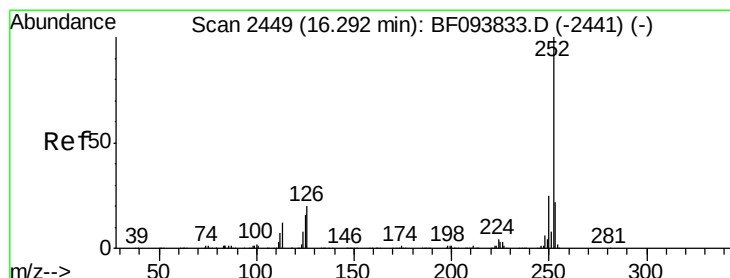
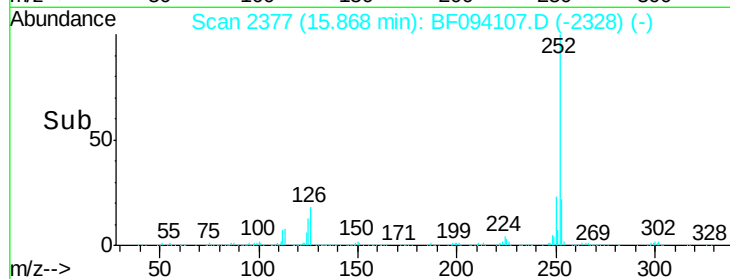
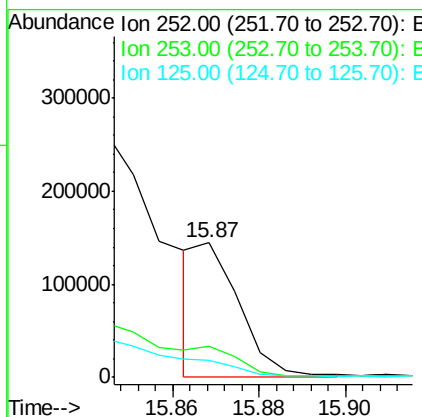
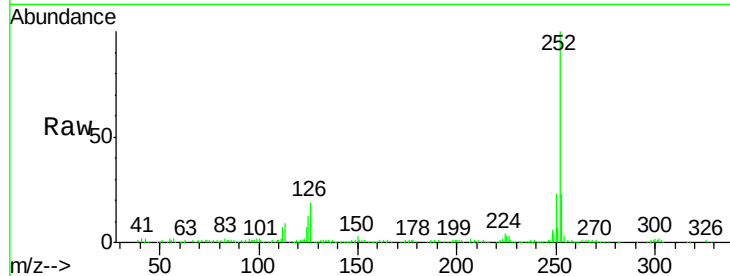
#88
Benzo(k)fluoranthene
Concen: 7.21 ng m
RT: 15.87 min Scan# 2377
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	13.1	13.1	19.7

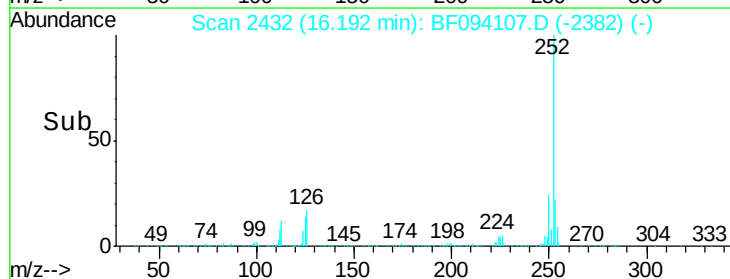
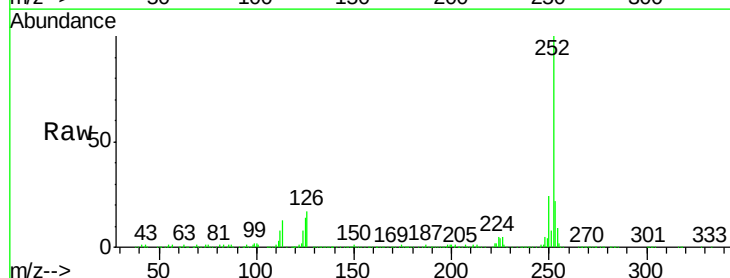
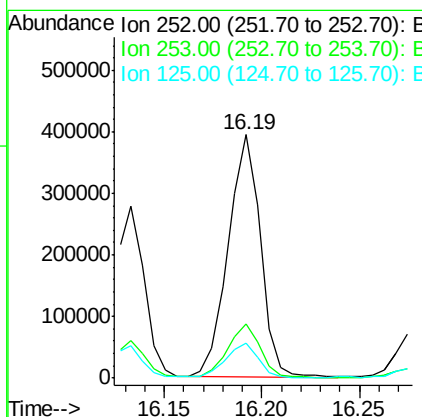
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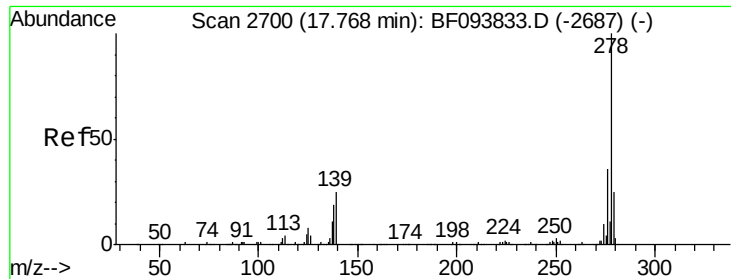
mohammad
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#89
Benzo(a)pyrene
Concen: 35.24 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	14.1	11.0	16.4





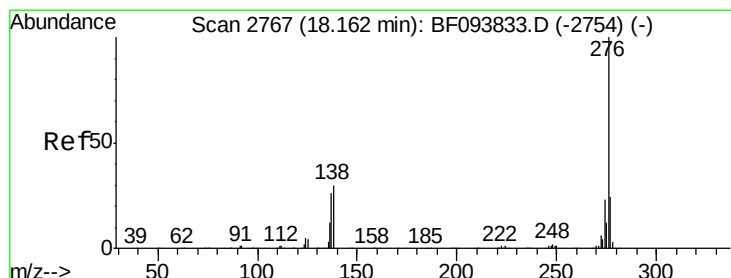
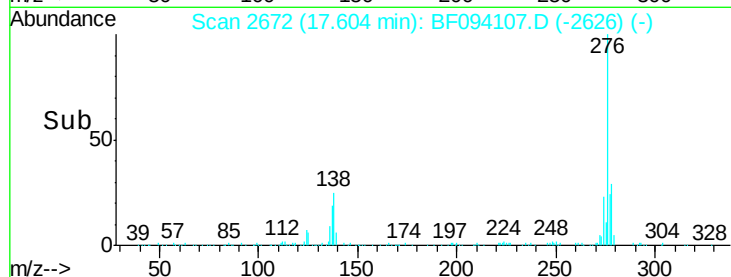
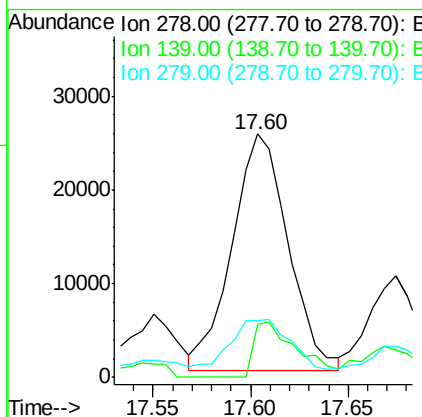
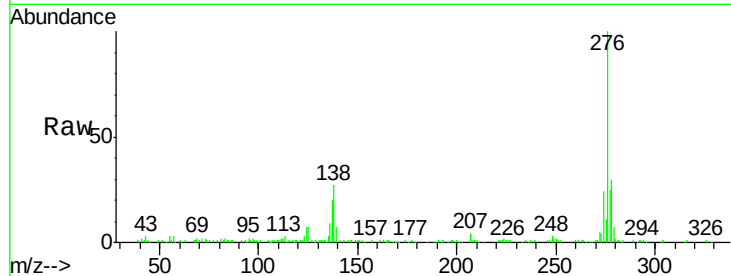
#90
Dibenzo(a,h)anthracene
Concen: 4.63 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.03 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Instrument :
BNA_F
ClientSampleId :
E2-R-Q-11-12-BASE

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.0	16.6	24.8
279	23.4	19.3	28.9

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#91
Benzo(g,h,i)perylene
Concen: 29.35 ng
RT: 17.99 min Scan# 2738
Delta R.T. -0.02 min
Lab File: BF094107.D
Acq: 31 Mar 2017 20:20

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.6	28.0
138	31.1	25.4	38.0

