

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\
 Data File : BF094630.D
 Acq On : 26 Apr 2017 3:46
 Operator : SJ/MA
 Sample : I2820-01 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB433A

Manual Integrations
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mohammad
 4/26/2017 2:22:35 PM

Quant Time: Apr 26 06:54:35 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.75	152	119001	20.00	ng	-0.01
21) Naphthalene-d8	7.25	136	462245	20.00	ng	-0.01
38) Acenaphthene-d10	9.38	164	179191	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	270278	20.00	ng	-0.02
75) Chrysene-d12	14.46	240	241405	20.00	ng	0.00
86) Perylene-d12	16.08	264	172288	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.30	112	165818	23.12	ng	0.00
7) Phenol-d6	5.37	99	207477	24.54	ng	-0.02
23) Nitrobenzene-d5	6.40	82	112251	14.99	ng	-0.02
41) 2,4,6-Tribromophenol	10.35	330	24663	17.60	ng	-0.02
44) 2-Fluorobiphenyl	8.57	172	177120	14.54	ng	-0.02
78) Terphenyl-d14	13.18	244	99657	11.03	ng	-0.02
Target Compounds						Qvalue
57) Fluorene	10.05	166	27337	2.22	ng	96
70) Phenanthrene	11.23	178	418858	27.52	ng	99
71) Anthracene	11.30	178	121984	7.75	ng	97
72) Carbazole	11.51	167	39297	2.66	ng	98
74) Fluoranthene	12.70	202	805429	51.06	ng	98
77) Pyrene	12.98	202	812669	48.18	ng	99
80) Benzo(a)anthracene	14.45	228	425980	30.36	ng	99
82) Chrysene	14.49	228	397794	31.02	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	137060	11.23	ng	93
87) Benzo(b)fluoranthene	15.69	252	367663m	34.88	ng	
88) Benzo(k)fluoranthene	15.71	252	150173m	15.06	ng	
89) Benzo(a)pyrene	16.03	252	256413	26.15	ng	98
90) Dibenzo(a,h)anthracene	17.37	278	37384	4.59	ng	# 82
91) Benzo(a,h,i)perylene	17.74	276	125486	15.14	ng	98

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

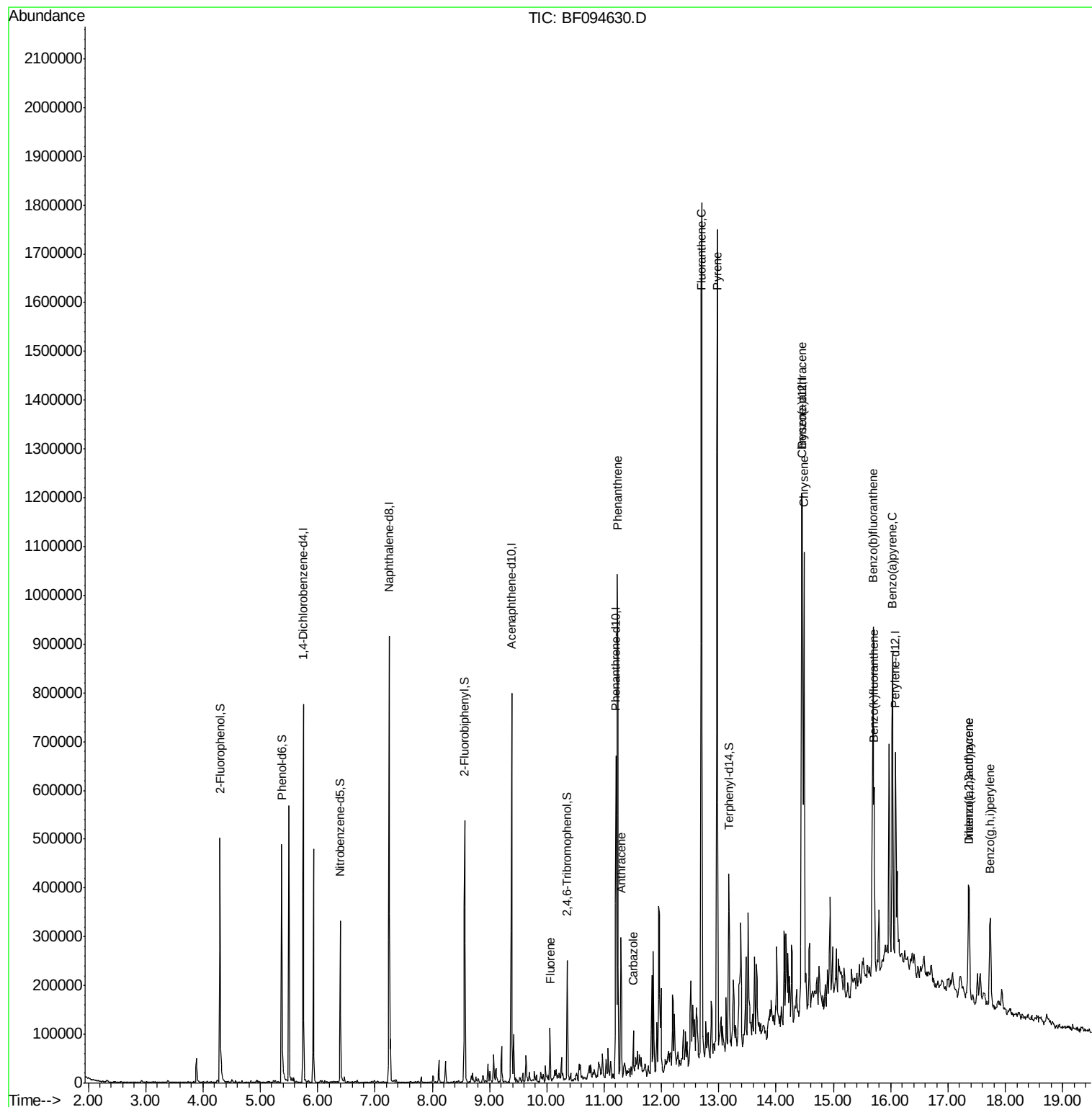
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042517\
Data File : BF094630.D
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Sample : I2820-01 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

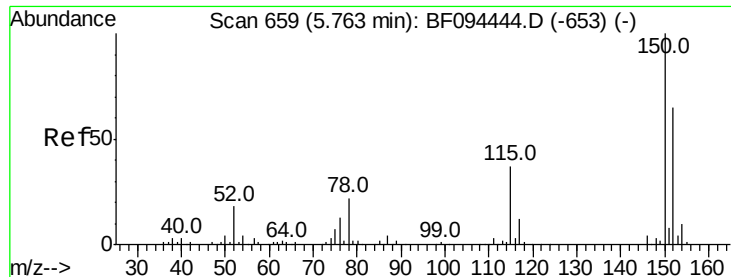
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
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QLast Update : Mon Apr 17 14:59:23 2017
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.75 min Scan# 648

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

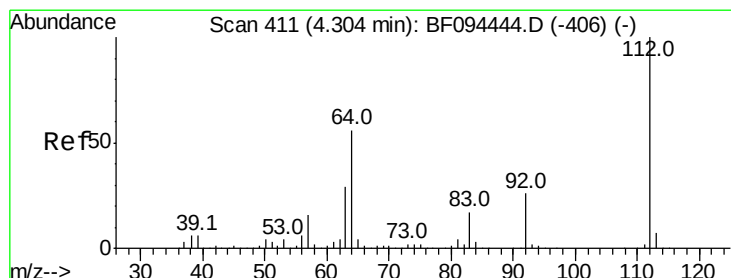
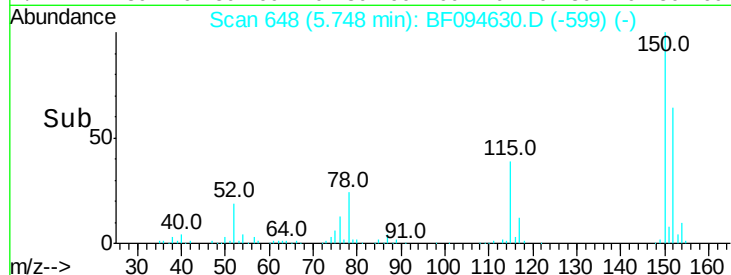
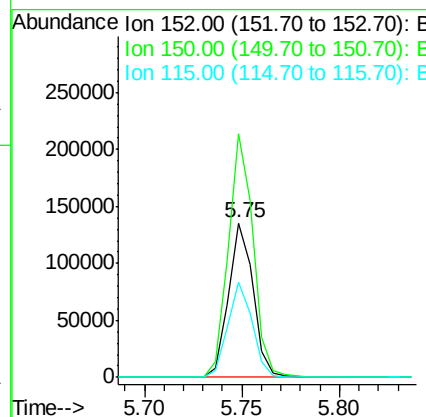
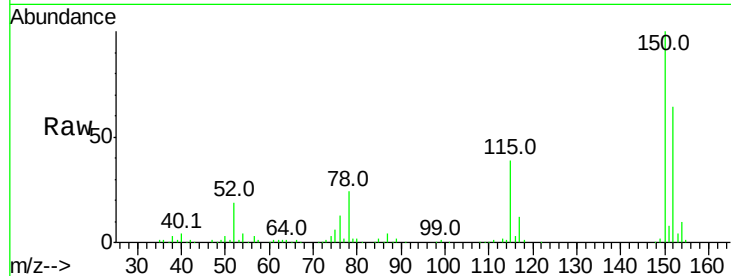
ClientSampleId :

HY-SB433A

Tot Ion:	152	Resp:	119001
Ion Ratio	Lower	Upper	
152	100		
150	157.4	126.2	189.2
115	61.2	52.2	78.2

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#5

2-Fluorophenol

Concen: 23.12 ng

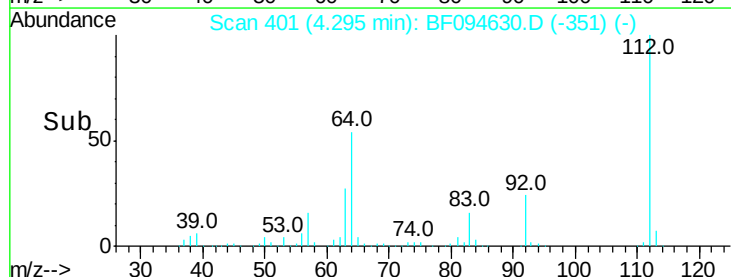
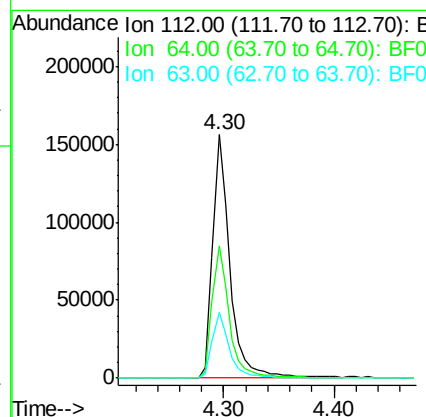
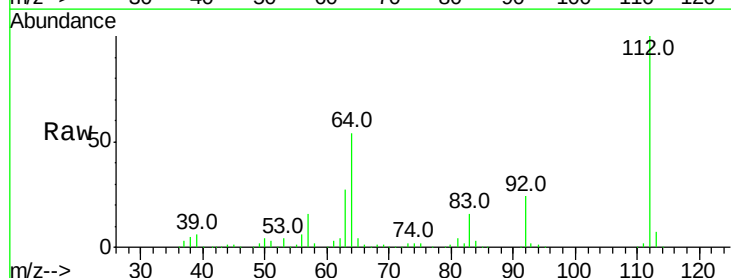
RT: 4.30 min Scan# 401

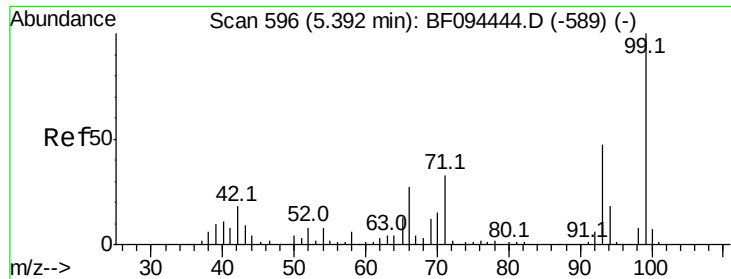
Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion:	112	Resp:	165818
Ion Ratio	Lower	Upper	
112	100		
64	54.2	46.0	69.0
63	27.2	23.4	35.0





#7

Phenol-d6

Concen: 24.54 ng

RT: 5.37 min Scan# 584

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

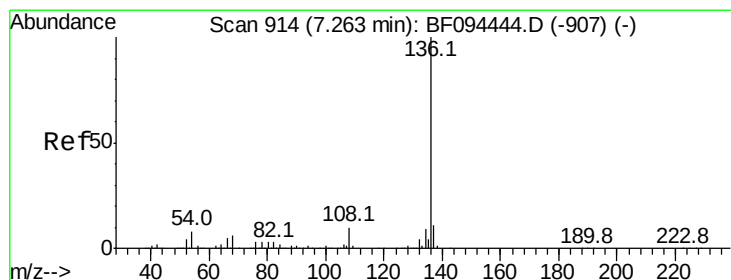
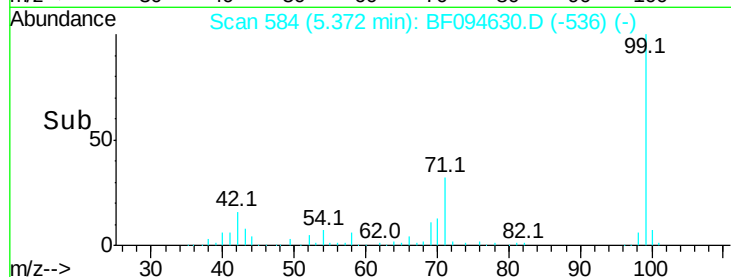
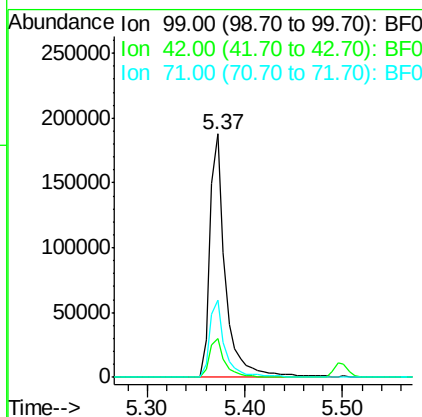
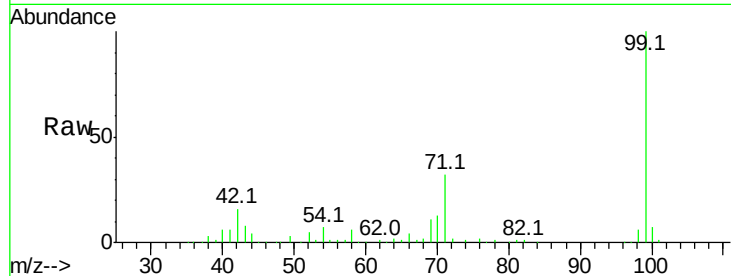
ClientSampleId :

HY-SB433A

Tot Ion:	99	Resp:	207477
Ion Ratio	Lower	Upper	
99	100		
42	15.9	13.5	20.3
71	31.5	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.00 ng

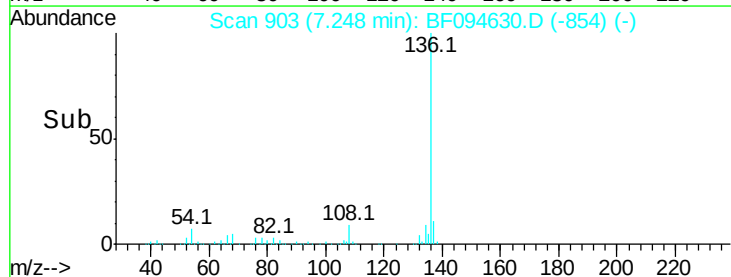
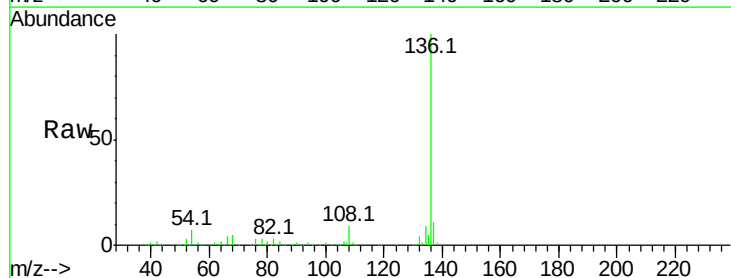
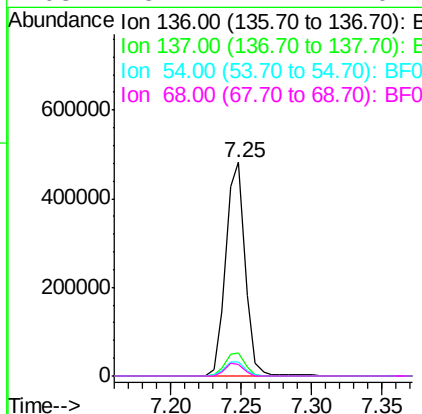
RT: 7.25 min Scan# 903

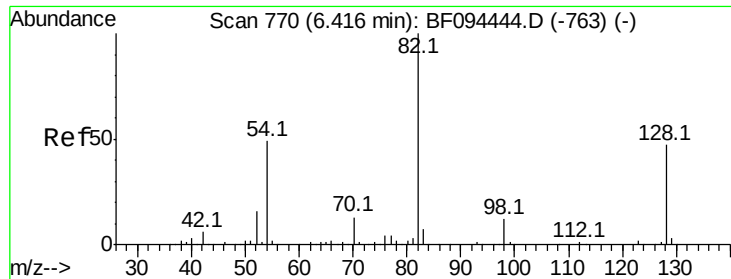
Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion:	136	Resp:	462245
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.5	12.7
54	6.6	4.9	7.3
68	5.2	4.1	6.1





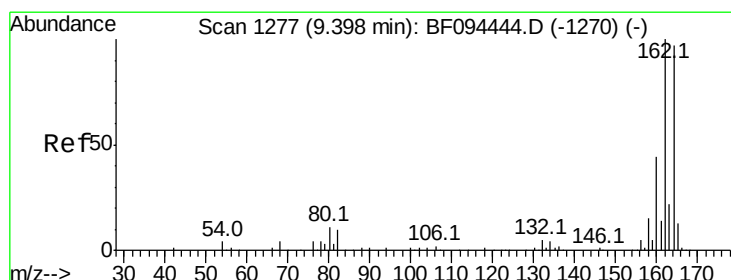
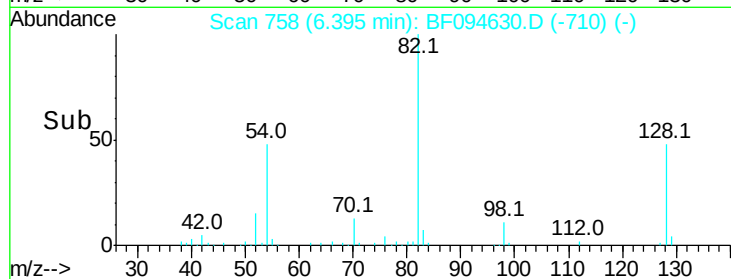
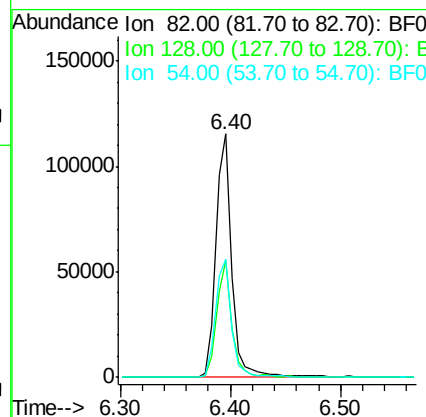
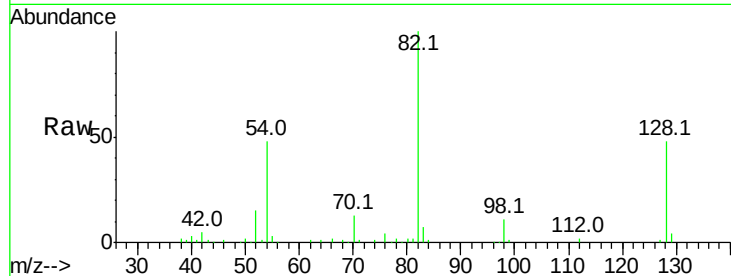
#23
 Nitrobenzene-d5
 Concen: 14.99 ng
 RT: 6.40 min Scan# 758
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB433A

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.0	34.0	51.0	
54	48.5	42.2	63.2	

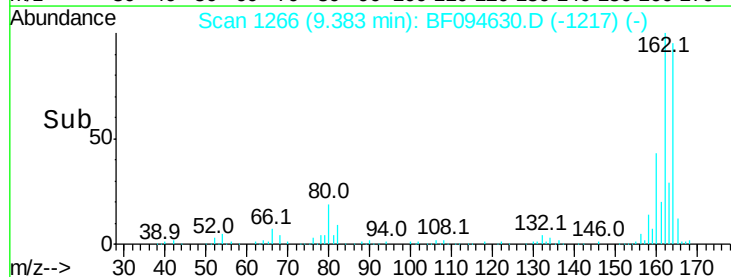
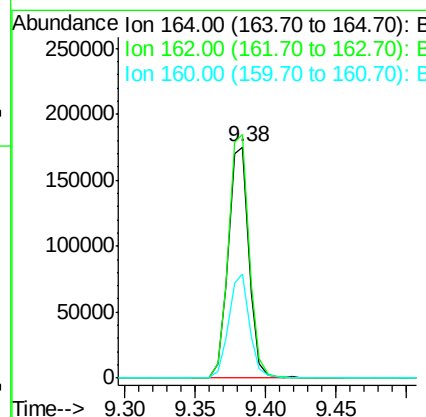
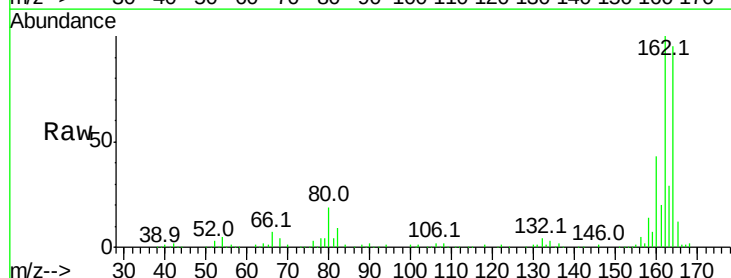
Manual Integrations
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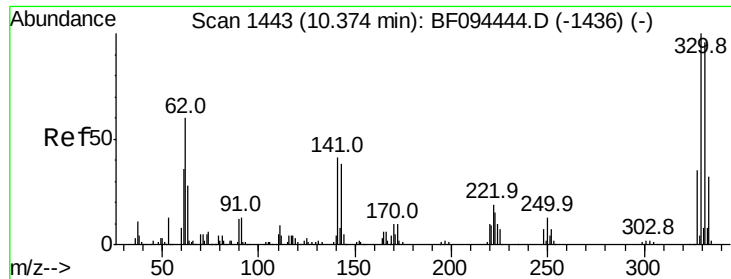
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.38 min Scan# 1266
 Delta R.T. -0.01 min
 Lab File: BF094630.D
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Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.5	82.6	123.8	
160	44.9	36.2	54.2	





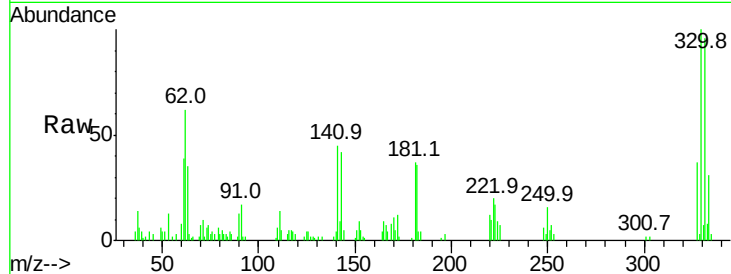
#41
 2,4,6-Tribromophenol
 Concen: 17.60 ng
 RT: 10.35 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB433A

Tot Ion	Ratio	Resp	Lower	Upper
330	100	24663		
332	95.4	76.6	115.0	
141	46.0	31.4	47.2	

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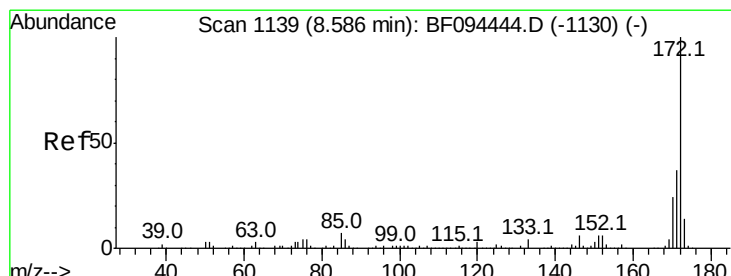
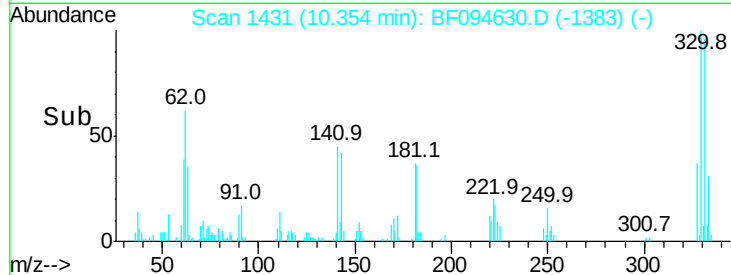
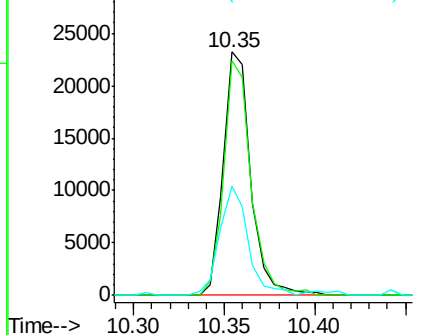


Abundance

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: 14.54 ng
 RT: 8.57 min Scan# 1127
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

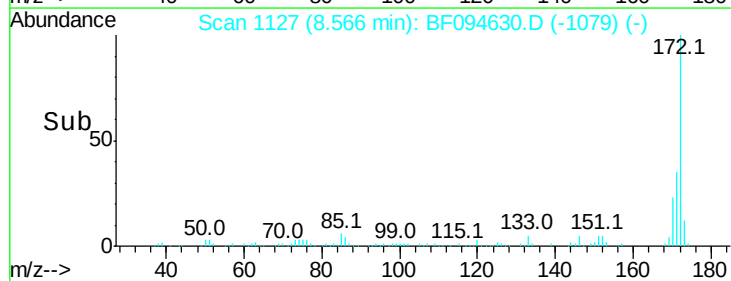
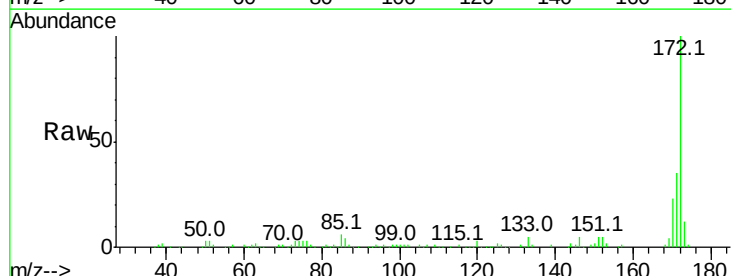
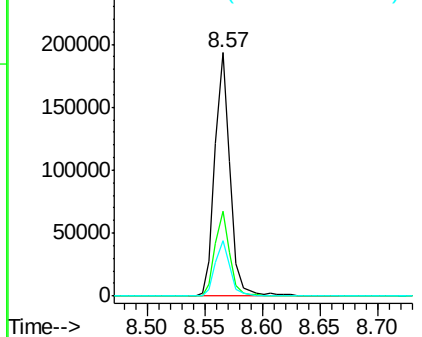
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	177120		
171	34.7	29.6	44.4	
170	22.7	19.8	29.8	

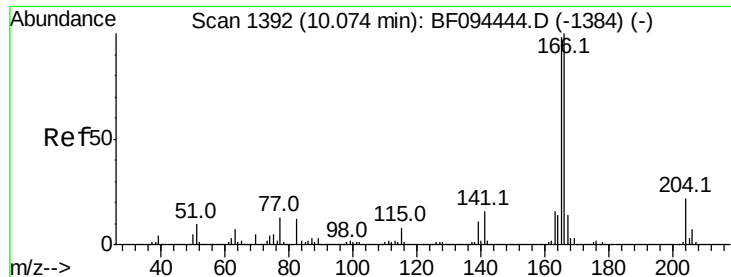
Abundance

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





#57

Fluorene

Concen: 2.22 ng

RT: 10.05 min Scan# 1380

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampleId :

HY-SB433A

Tot Ion:166 Resp: 27337

Ion Ratio Lower Upper

166 100

165 95.0 78.8 118.2

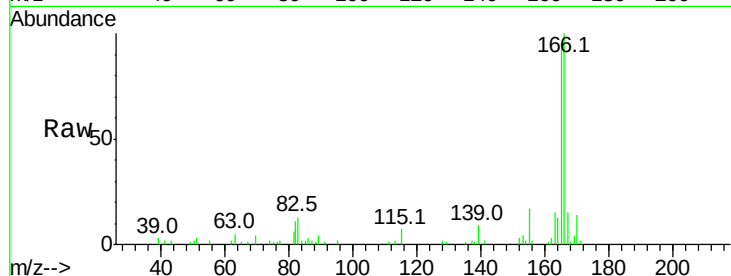
167 14.8 10.6 16.0

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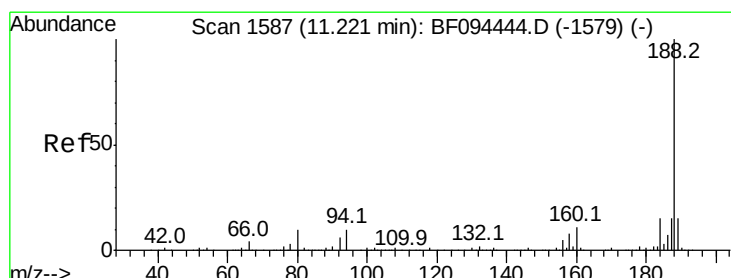
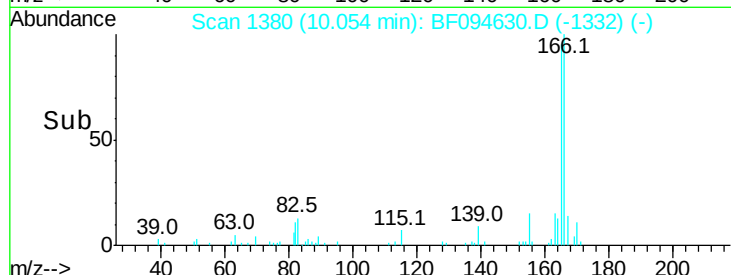
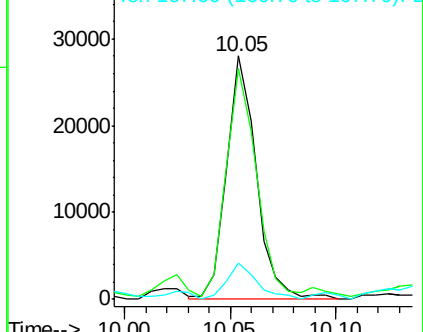
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Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.20 min Scan# 1575

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

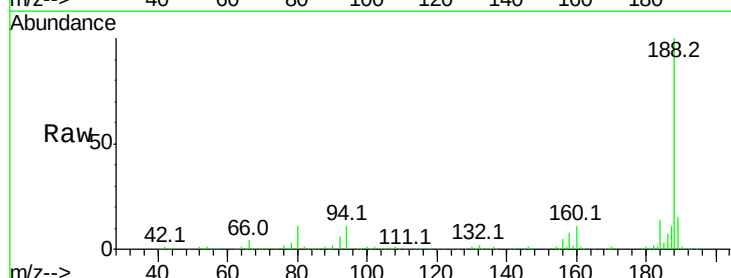
Tgt Ion:188 Resp: 270278

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

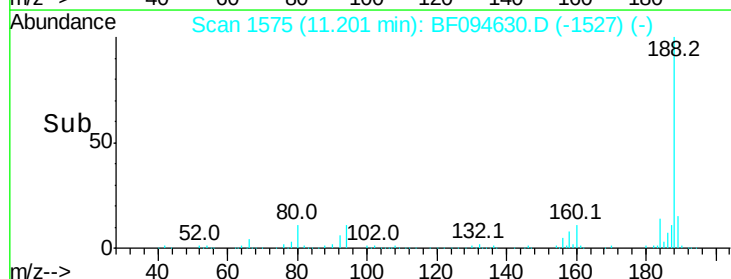
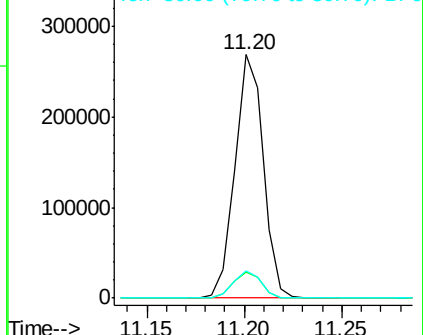
80 11.3 10.2 15.2

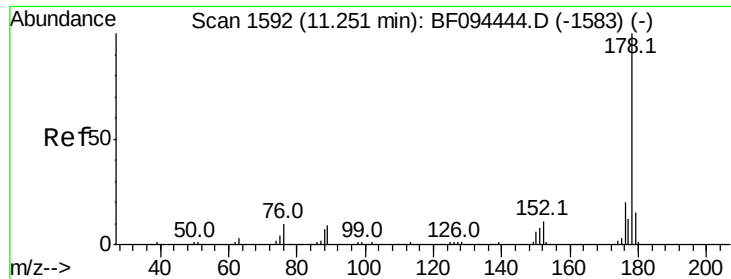


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 27.52 ng

RT: 11.23 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

ClientSampled :

HY-SB433A

Tot Ion:178 Resp: 418858

Ion Ratio Lower Upper

178 100

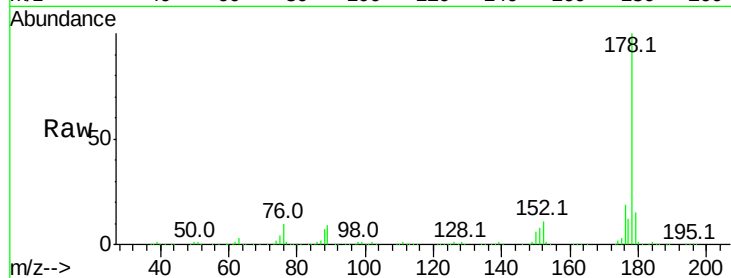
176 19.5 16.2 24.4

179 15.4 12.6 19.0

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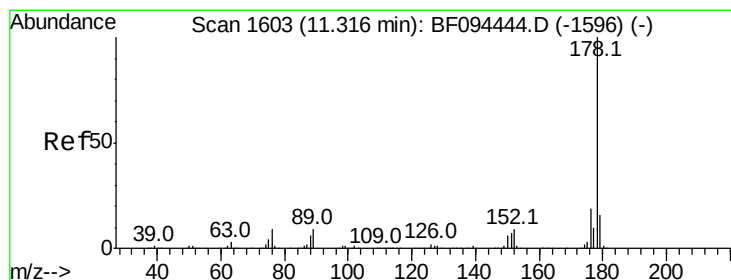
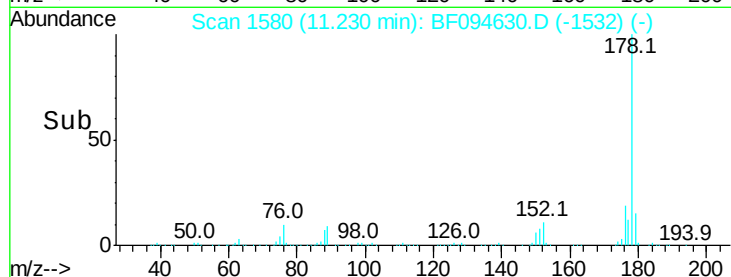
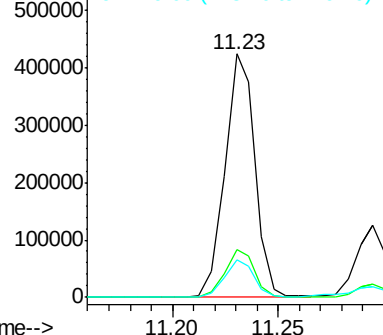
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 7.75 ng

RT: 11.30 min Scan# 1591

Delta R.T. -0.02 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion:178 Resp: 121984

Ion Ratio Lower Upper

178 100

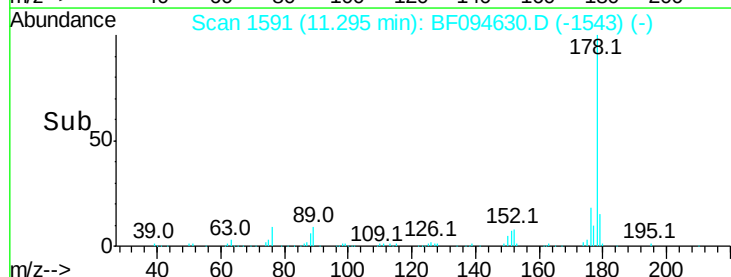
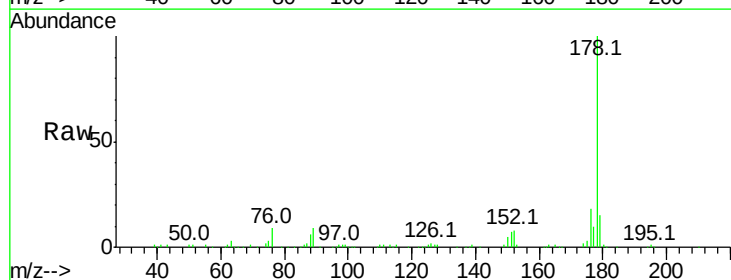
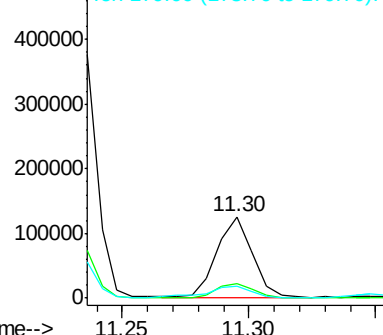
176 18.1 15.8 23.8

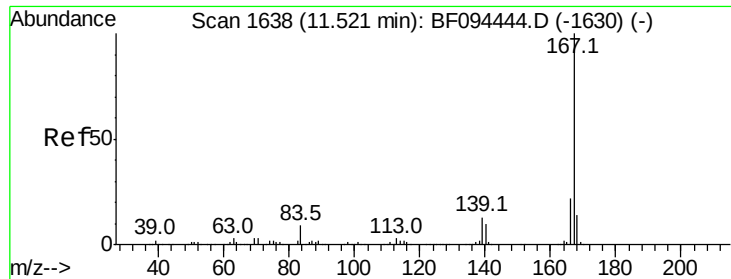
179 15.4 12.7 19.1

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





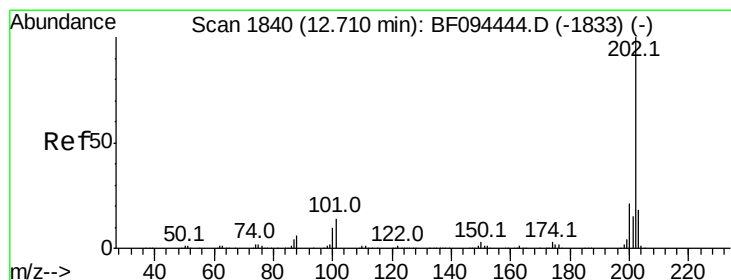
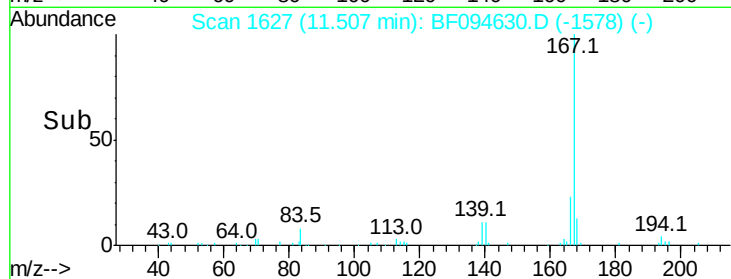
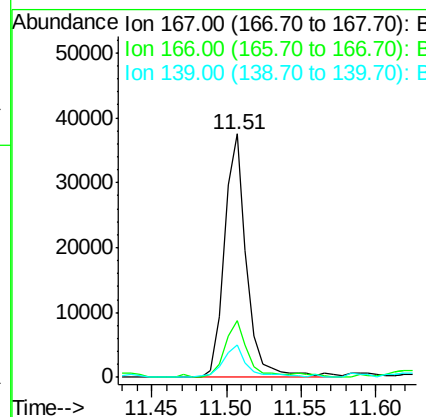
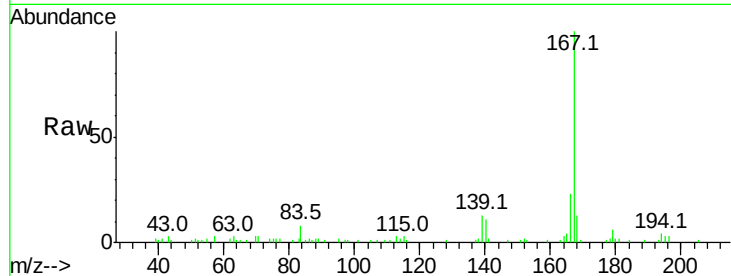
#72
Carbazole
 Concen: 2.66 ng
 RT: 11.51 min Scan# 1627
 Delta R.T. -0.01 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB433A

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	23.3	18.1	27.1	
139	13.3	11.7	17.5	

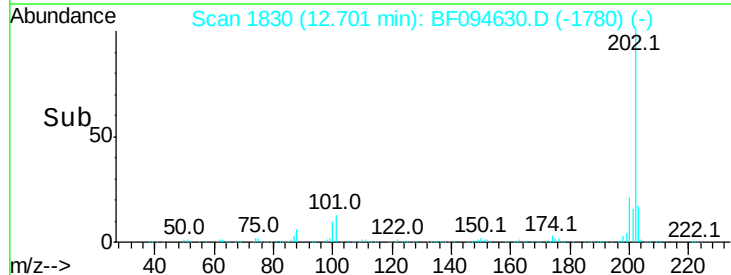
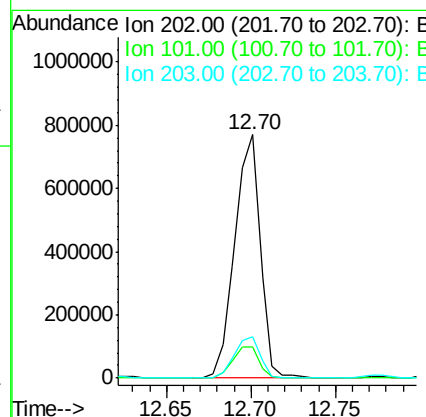
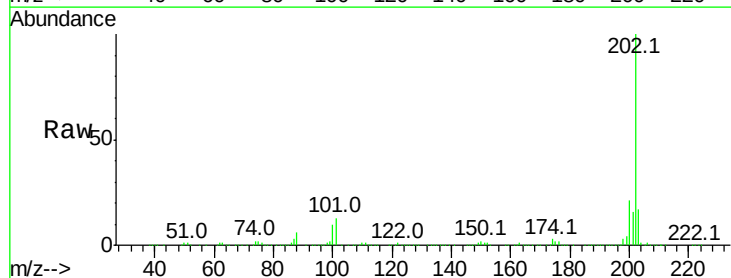
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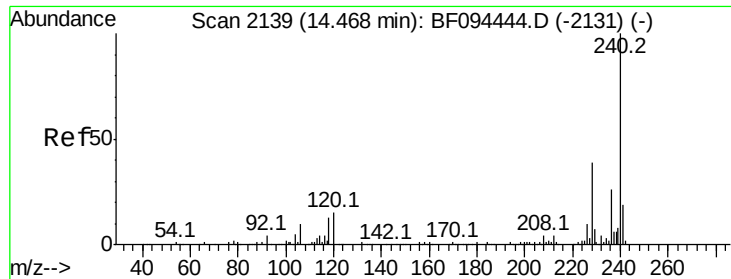
mohammad
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#74
Fluoranthene
 Concen: 51.06 ng
 RT: 12.70 min Scan# 1830
 Delta R.T. -0.01 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	12.9	0.0	33.2	
203	17.0	0.0	38.1	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Instrument :

BNA_F

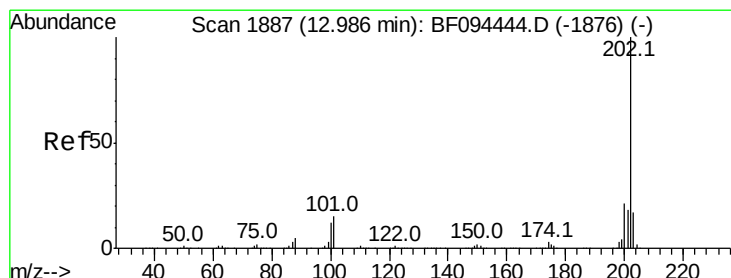
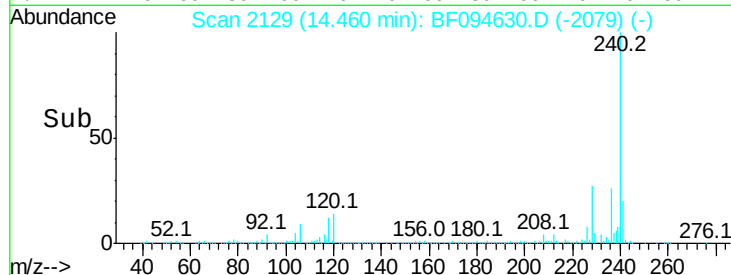
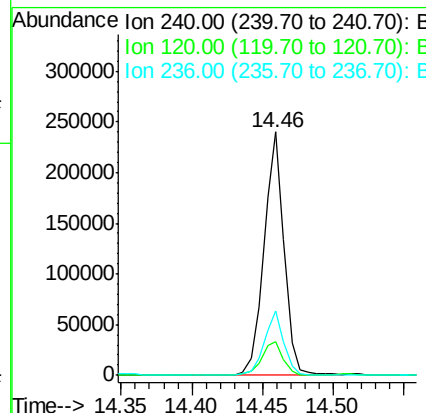
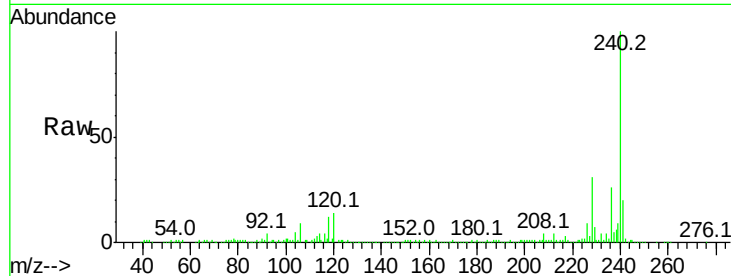
ClientSampleId :

HY-SB433A

Tot Ion	Ratio	Resp	Lower	Upper
240	100	241405		
120	13.8	5.8	8.8#	
236	26.2	20.5	30.7	

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#77

Pyrene

Concen: 48.18 ng

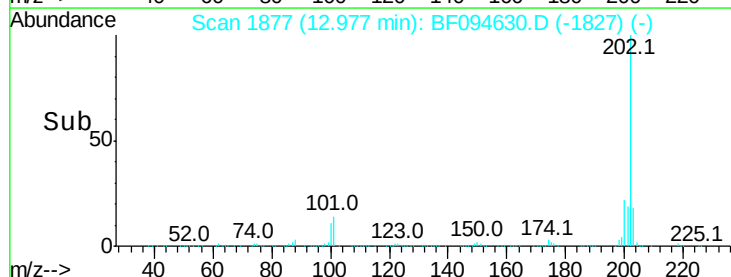
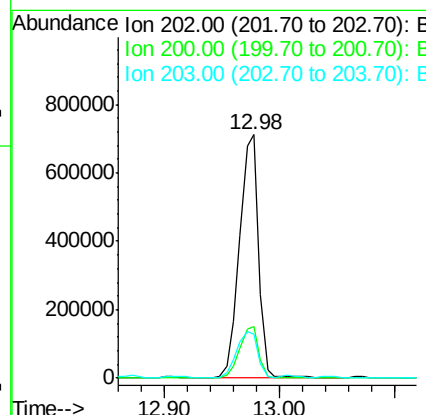
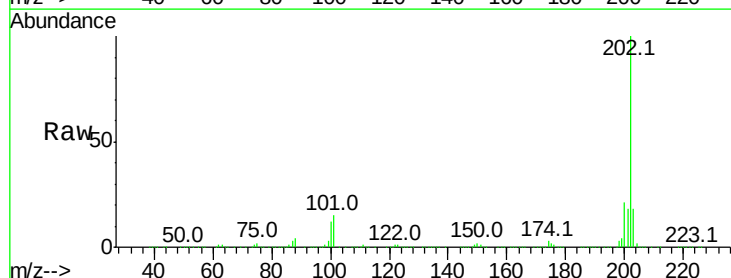
RT: 12.98 min Scan# 1877

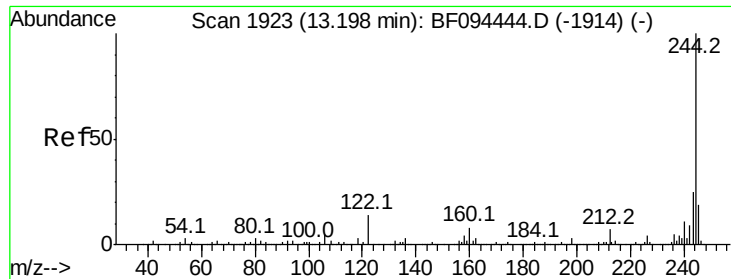
Delta R.T. -0.01 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	812669		
200	21.3	17.6	26.4	
203	18.1	14.4	21.6	





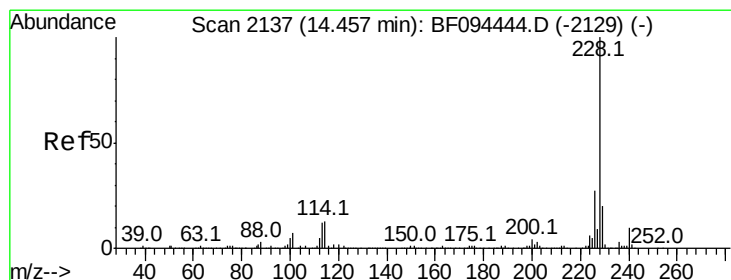
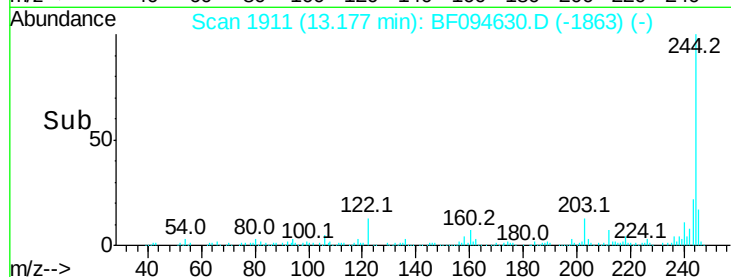
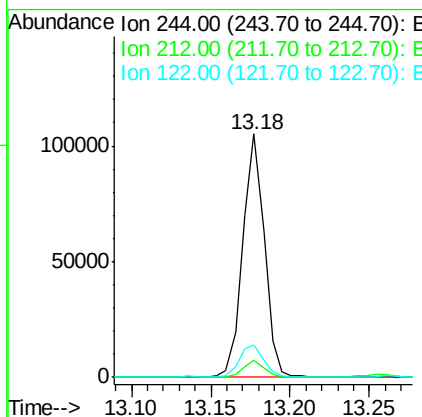
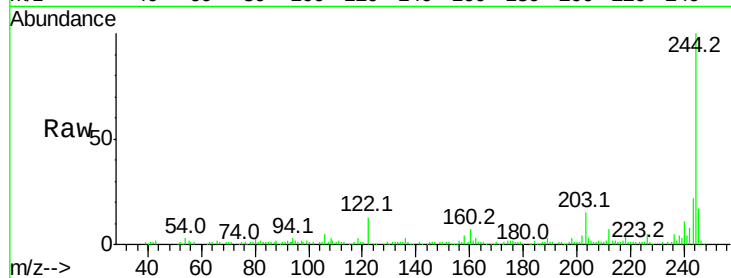
#78
 Terphenyl-d14
 Concen: 11.03 ng
 RT: 13.18 min Scan# 1911
 Delta R.T. -0.02 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB433A

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

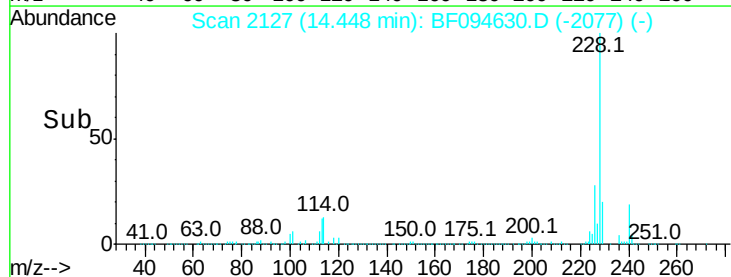
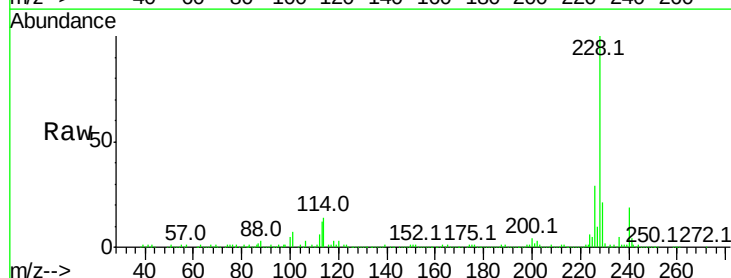
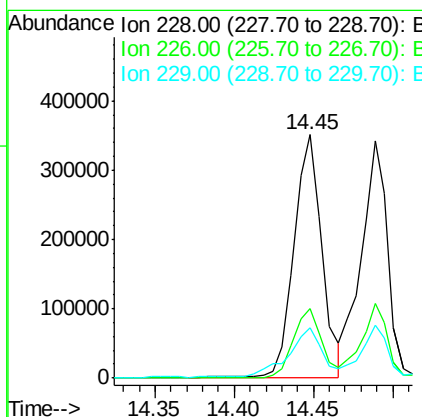
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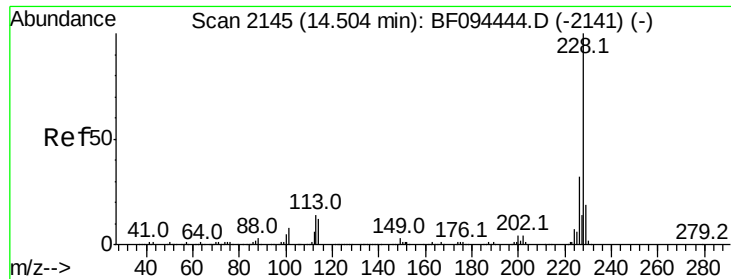
mohammad
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#80
 Benzo(a)anthracene
 Concen: 30.36 ng
 RT: 14.45 min Scan# 2127
 Delta R.T. -0.01 min
 Lab File: BF094630.D
 Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.6	16.3	24.5





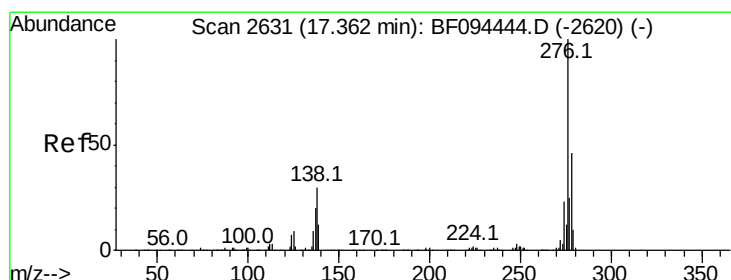
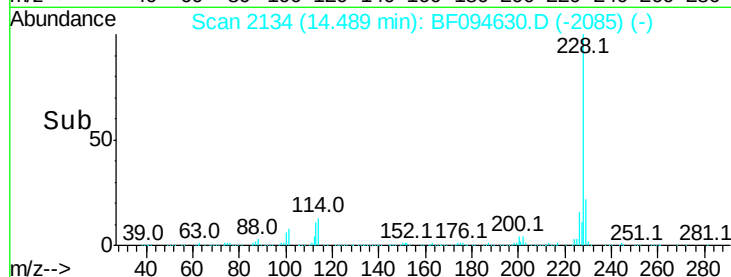
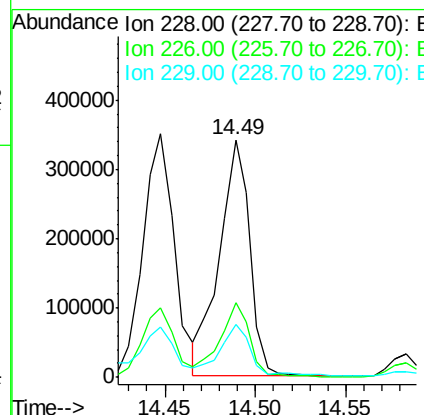
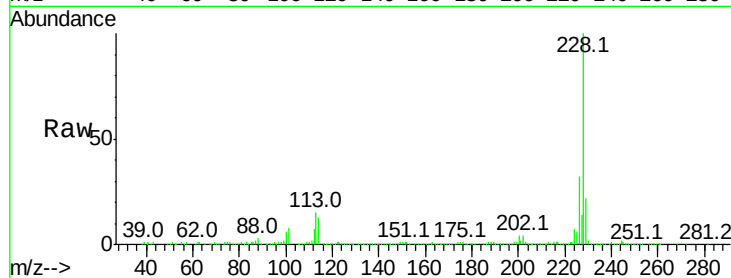
#82
Chrysene
Concen: 31.02 ng
RT: 14.49 min Scan# 2134
Delta R.T. -0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampleId :
HY-SB433A

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.9	37.3
229	22.2	15.8	23.6

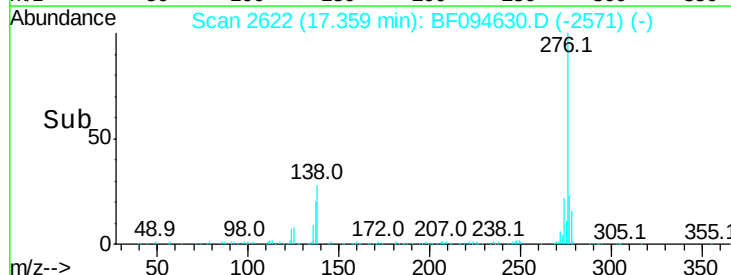
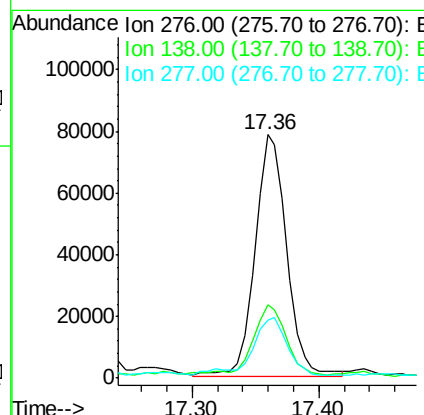
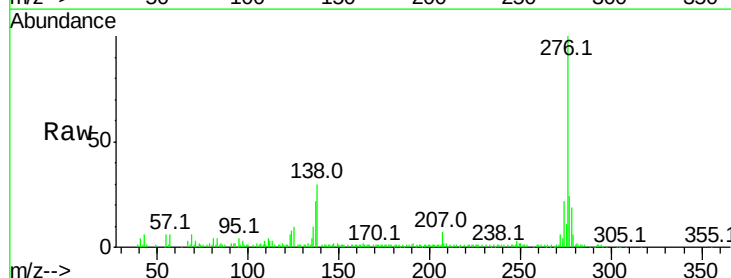
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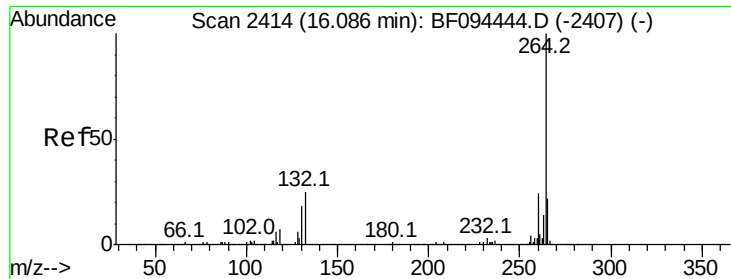
mohammad
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#85
Indeno(1,2,3-cd)pyrene
Concen: 11.23 ng
RT: 17.36 min Scan# 2622
Delta R.T. -0.00 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.8	27.8	41.6
277	24.1	20.2	30.4





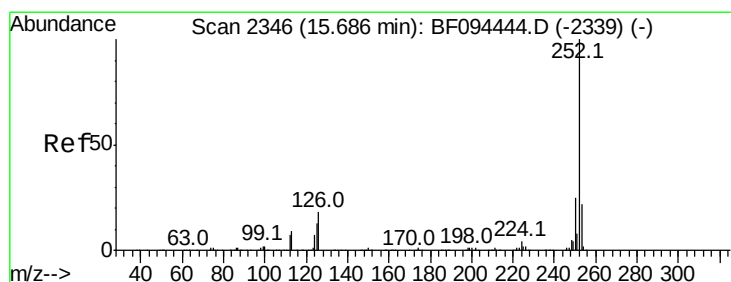
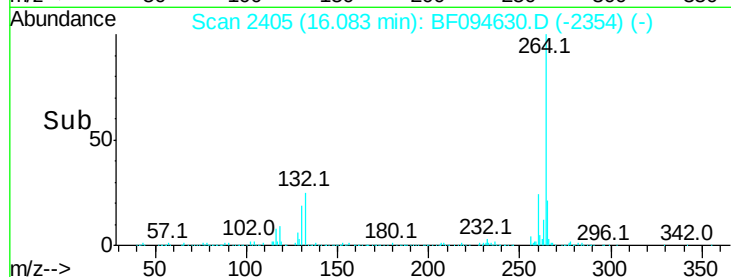
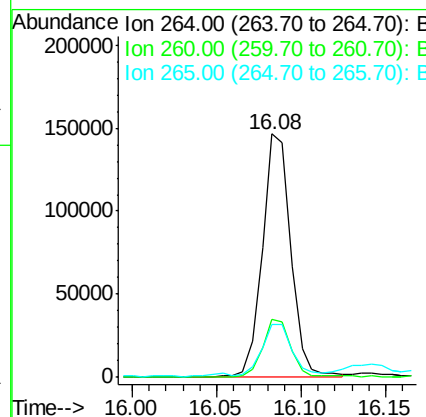
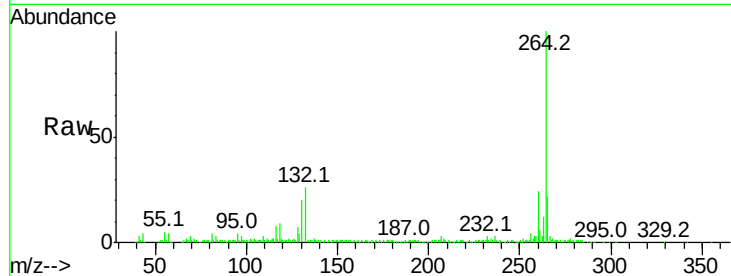
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.08 min Scan# 2405
Delta R.T. -0.00 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampleId :
HY-SB433A

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	21.7	17.2	25.8

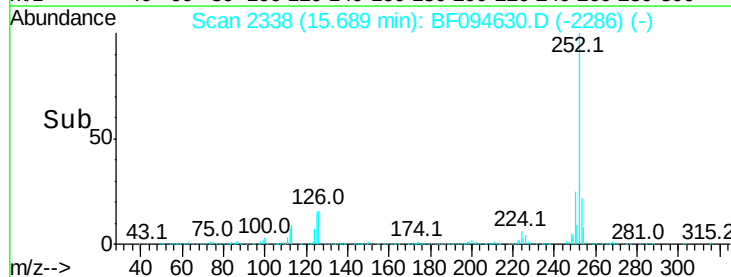
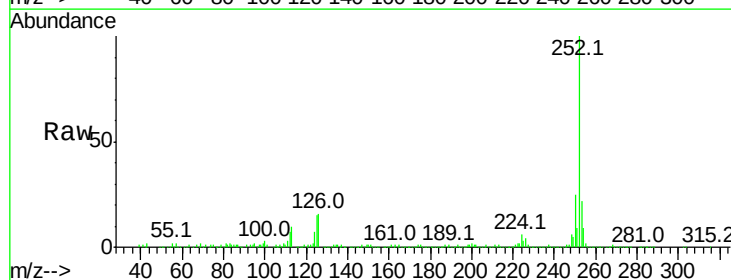
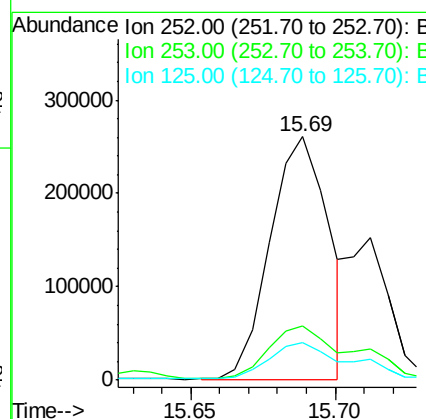
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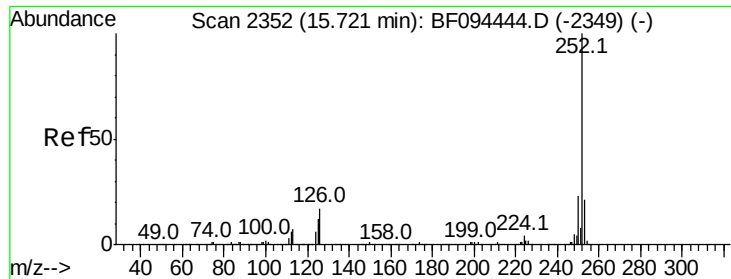
mohammad
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#87
Benzo(b)fluoranthene
Concen: 34.88 ng m
RT: 15.69 min Scan# 2338
Delta R.T. 0.00 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.1	27.1
125	15.3	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 15.06 ng

RT: 15.71 min Scan# 2342

Delta R.T. -0.01 min

Lab File: BF094630.D

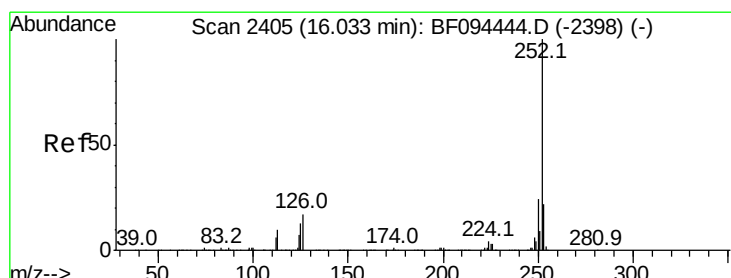
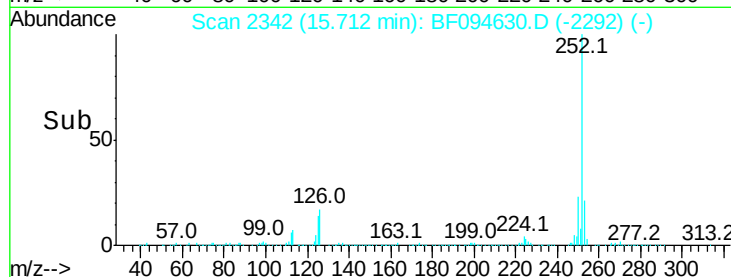
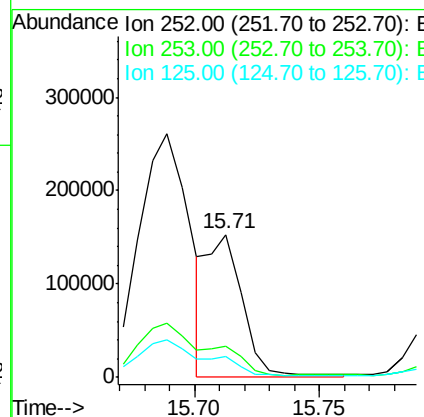
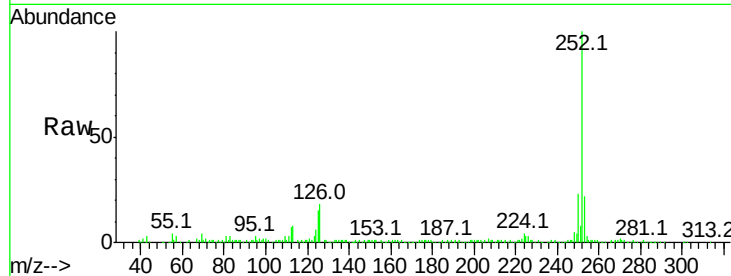
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampleId :
HY-SB433A

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.4	27.6
125	14.9	13.1	19.7

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#89

Benzo(a)pyrene

Concen: 26.15 ng

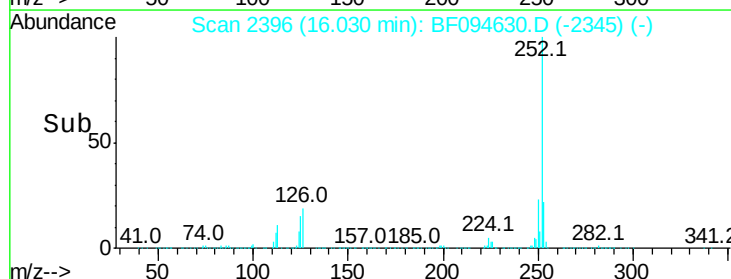
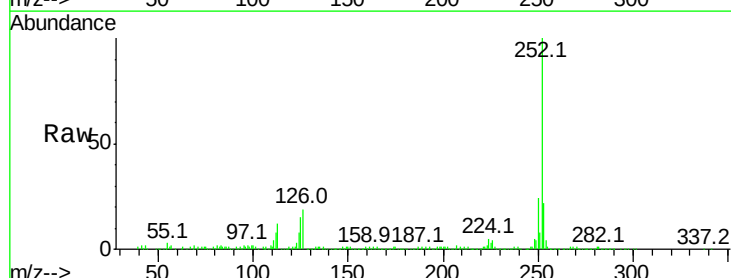
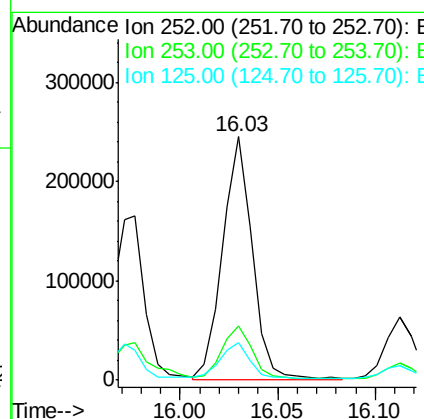
RT: 16.03 min Scan# 2396

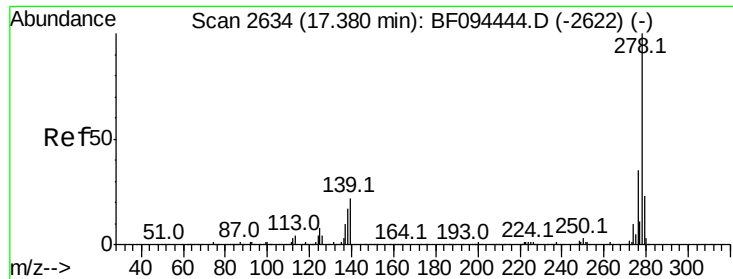
Delta R.T. -0.00 min

Lab File: BF094630.D

Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	15.2	11.0	16.4





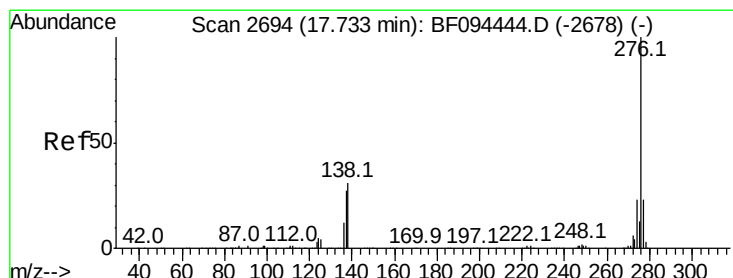
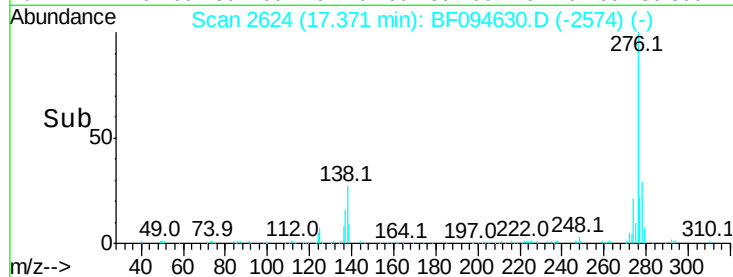
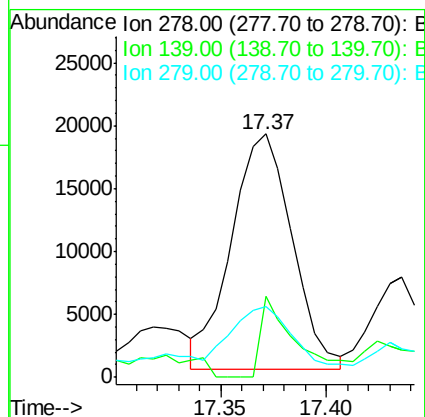
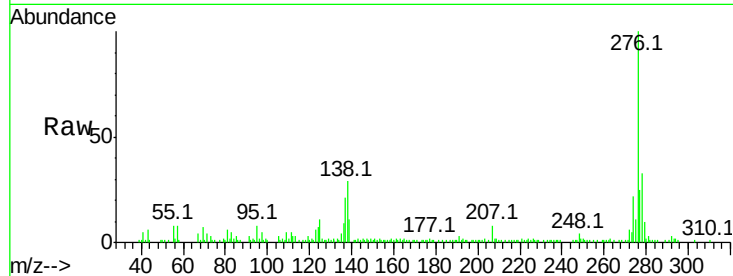
#90
Dibenzo(a,h)anthracene
Concen: 4.59 ng
RT: 17.37 min Scan# 2624
Delta R.T. -0.01 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Instrument :
BNA_F
ClientSampled :
HY-SB433A

Tot Ion	Ratio	Lower	Upper
278	100		
139	33.6	16.6	24.8#
279	29.0	19.3	28.9#

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#91
Benzo(g,h,i)perylene
Concen: 15.14 ng
RT: 17.74 min Scan# 2686
Delta R.T. 0.00 min
Lab File: BF094630.D
Acq: 26 Apr 2017 3:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.9	18.6	28.0
138	30.4	25.4	38.0

