

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094509.D
 Acq On : 19 Apr 2017 1:46
 Operator : SJ/MA
 Sample : I2708-08 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-Y10-BASE

Manual Integrations
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 4/19/2017 1:34:02 PM

Quant Time: Apr 19 07:41:34 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	5.77	152	110204	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	429618	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	160299	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	259258	20.00	ng	0.00
75) Chrysene-d12	14.48	240	262747	20.00	ng	0.00
86) Perylene-d12	16.10	264	197756	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.32	112	148191	22.31	ng	0.02
7) Phenol-d6	5.40	99	184482	23.56	ng	0.00
23) Nitrobenzene-d5	6.41	82	43646	6.27	ng	0.00
41) 2,4,6-Tribromophenol	10.38	330	20466	16.32	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	212009	19.46	ng	0.00
78) Terphenyl-d14	13.20	244	147753	15.03	ng	0.00
Target Compounds						Qvalue
20) 3+4-Methylphenols	6.28	107	16908	2.09	ng	# 64
27) 2,4-Dimethylphenol	6.91	122	15257m	2.39	ng	
37) 2-Methylnaphthalene	8.14	142	43111	3.05	ng	99
49) Dimethylphthalate	9.09	163	71482	5.98	ng	98
51) Acenaphthene	9.44	154	22895	2.35	ng	98
57) Fluorene	10.08	166	34758	3.16	ng	# 92
70) Phenanthrene	11.25	178	309250	21.18	ng	98
71) Anthracene	11.31	178	85059m	5.63	ng	
74) Fluoranthene	12.72	202	277761	18.36	ng	99
77) Pyrene	12.99	202	297859	16.23	ng	98
80) Benzo(a)anthracene	14.47	228	119954	7.85	ng	99
82) Chrysene	14.51	228	129831m	9.30	ng	
85) Indeno(1,2,3-cd)pyrene	17.38	276	40822	3.07	ng	92
87) Benzo(b)fluoranthene	15.70	252	106397m	8.80	ng	
88) Benzo(k)fluoranthene	15.72	252	40749m	3.56	ng	
89) Benzo(a)pyrene	16.04	252	78788	7.00	ng	# 93
91) Benzo(a,h,i)perylene	17.75	276	38425	4.04	ng	94

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

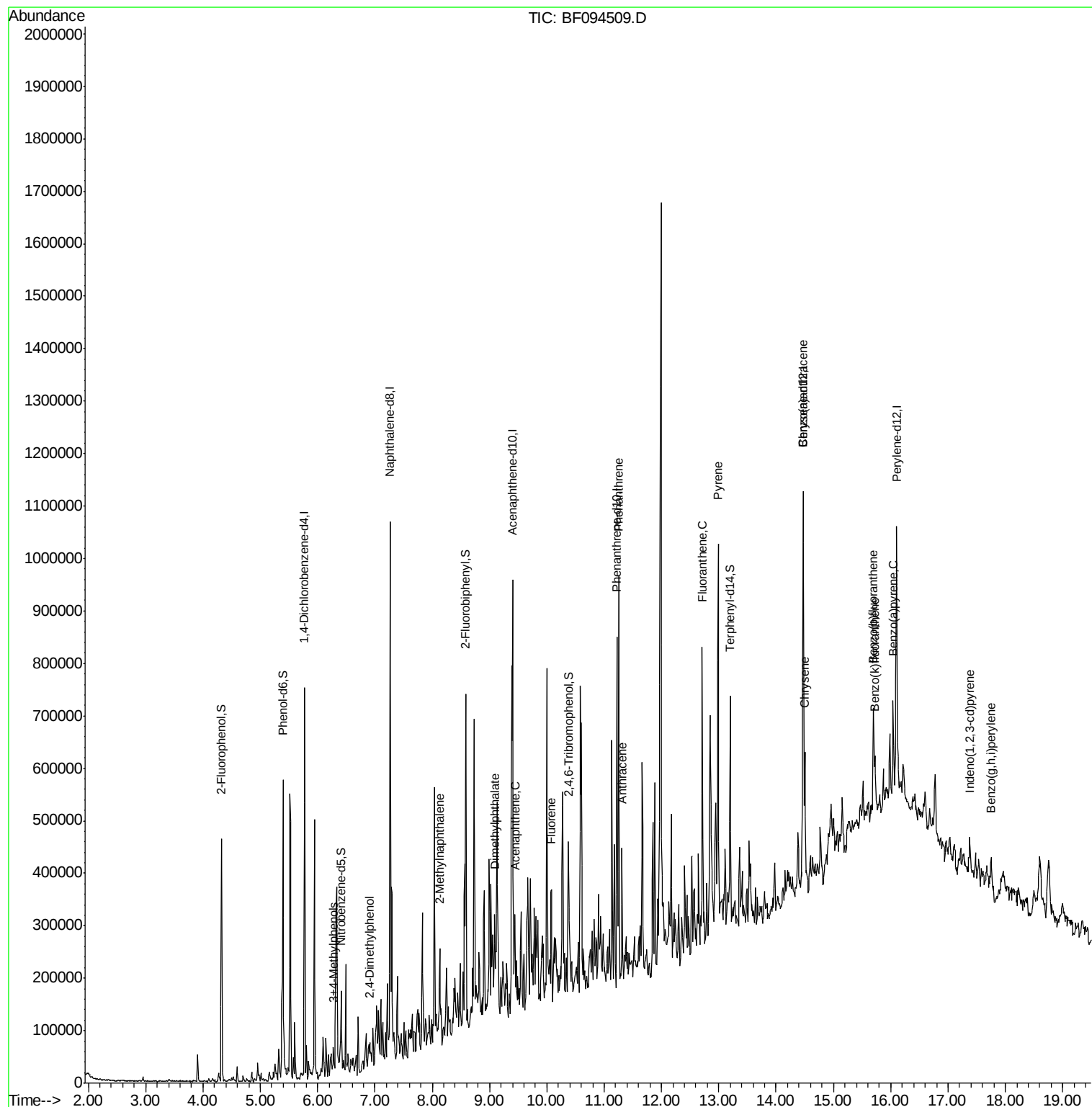
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#1

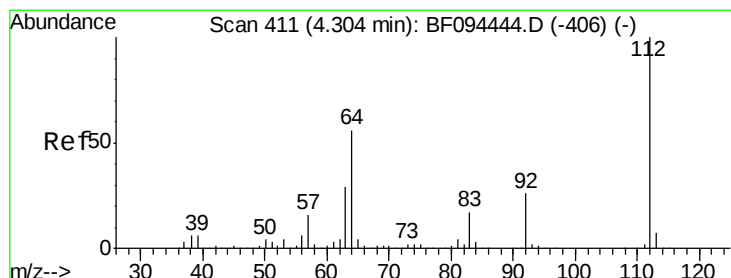
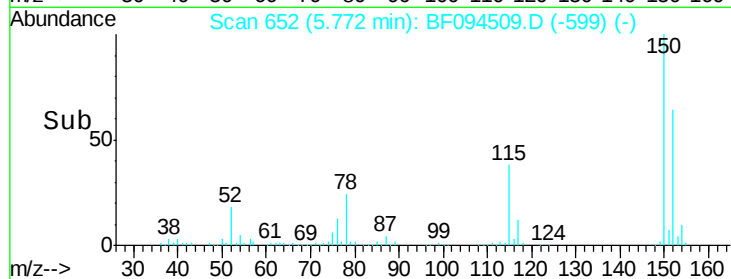
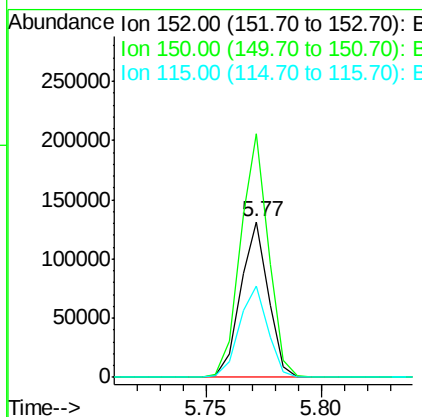
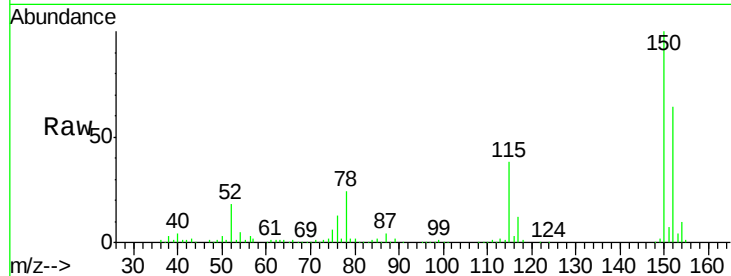
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Instrument :
BNA_F
ClientSampleId :
E2-Y10-BASE

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	126.2	189.2
115	58.7	52.2	78.2

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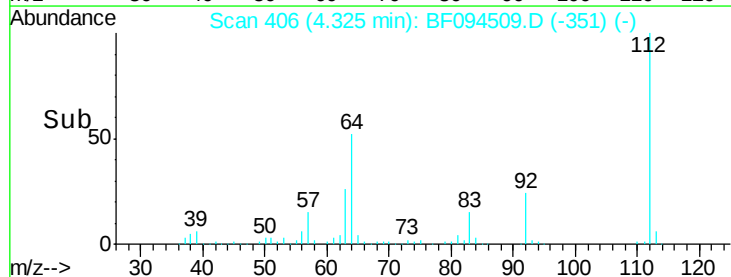
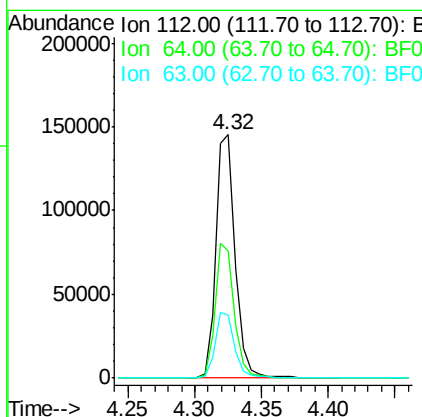
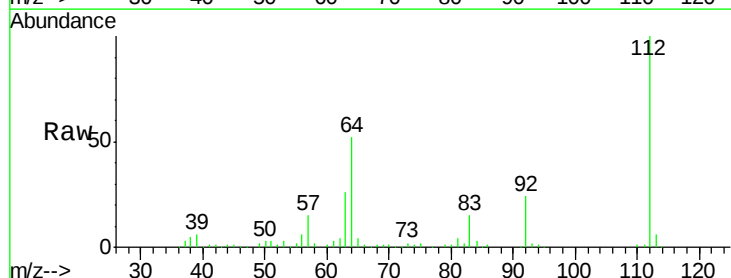
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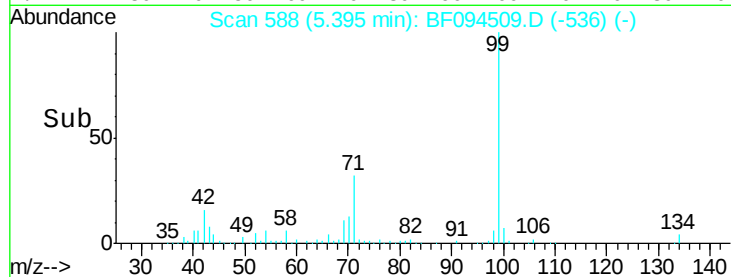
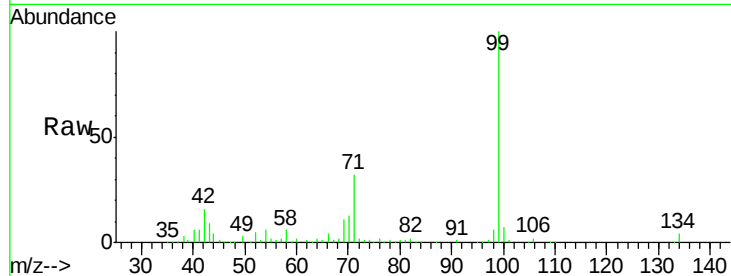
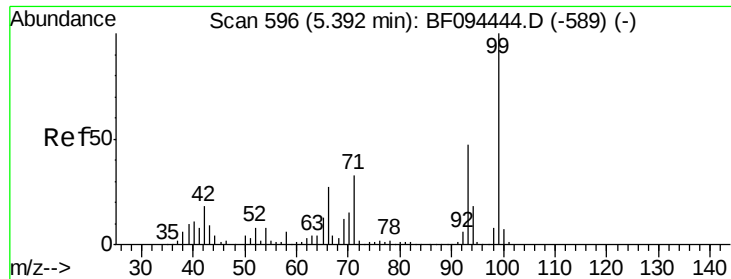


#5

2-Fluorophenol
Concen: 22.31 ng
RT: 4.32 min Scan# 406
Delta R.T. 0.02 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.3	46.0	69.0
63	25.7	23.4	35.0





#7

Phenol-d6

Concen: 23.56 ng

RT: 5.40 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Tot Ion:	99	Resp:	184482
Ion Ratio	Lower	Upper	
99	100		
42	16.4	13.5	20.3
71	32.3	24.5	36.7

Instrument :

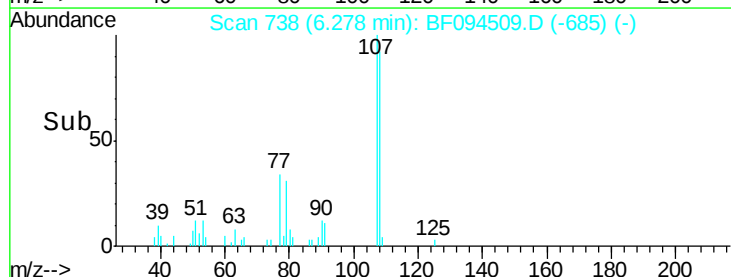
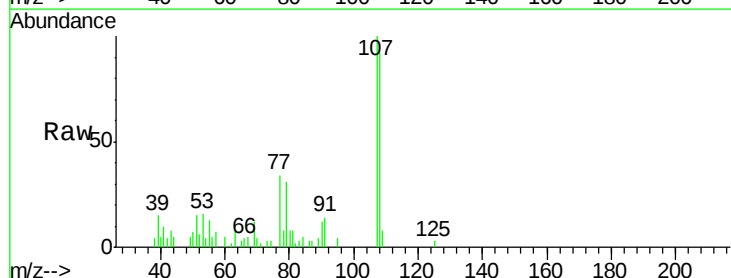
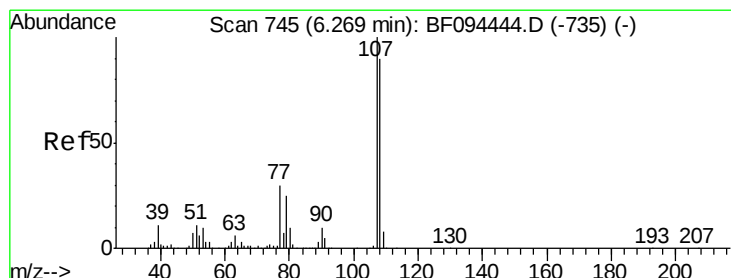
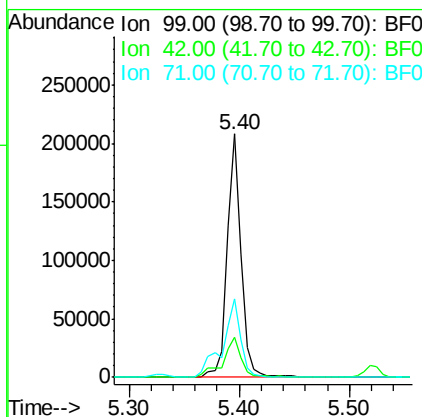
BNA_F

ClientSampleId :

E2-Y10-BASE

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#20

3+4-Methylphenols

Concen: 2.09 ng

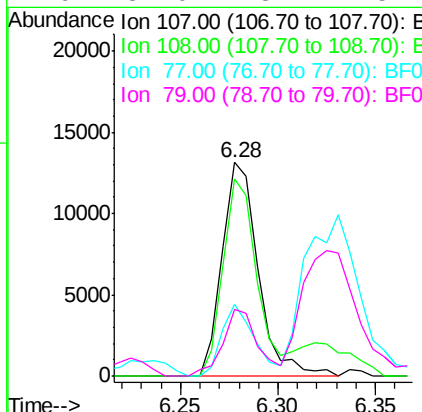
RT: 6.28 min Scan# 738

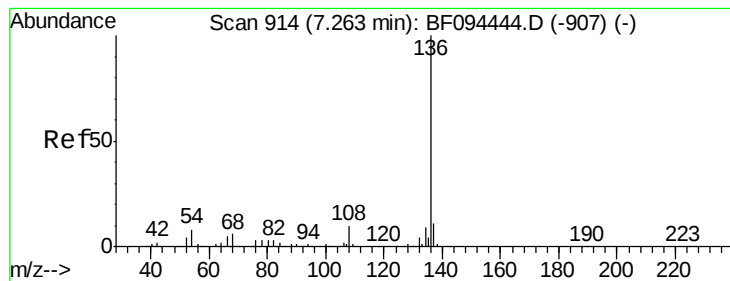
Delta R.T. 0.01 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Tgt Ion:	107	Resp:	16908
Ion Ratio	Lower	Upper	
107	100		
108	92.3	71.0	111.0
77	33.9	90.5	130.5#
79	31.0	8.4	48.4





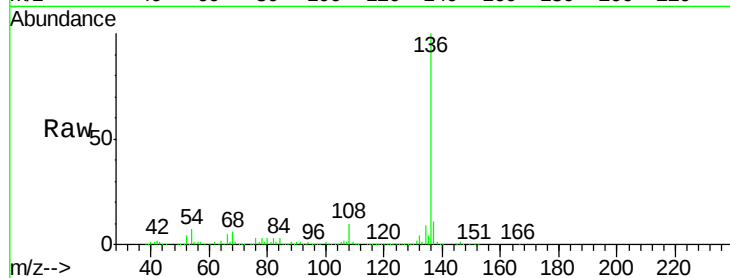
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.27 min Scan# 906
Delta R.T. 0.00 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Instrument :
BNA_F
ClientSampleId :
E2-Y10-BASE

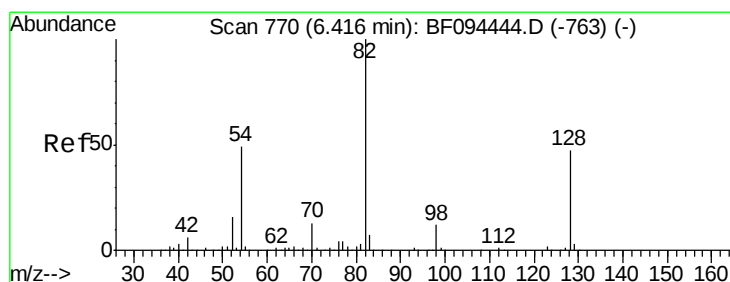
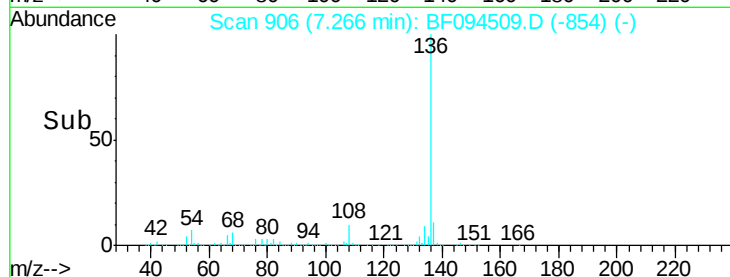
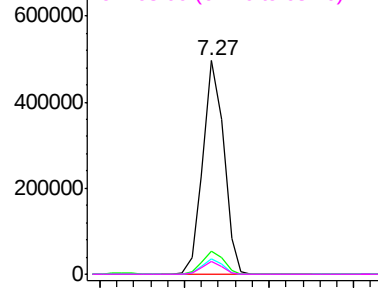
Tot Ion	Ratio	Resp	Lower	Upper
136	100	429618		
137	10.6		8.5	12.7
54	7.2		4.9	7.3
68	5.9		4.1	6.1

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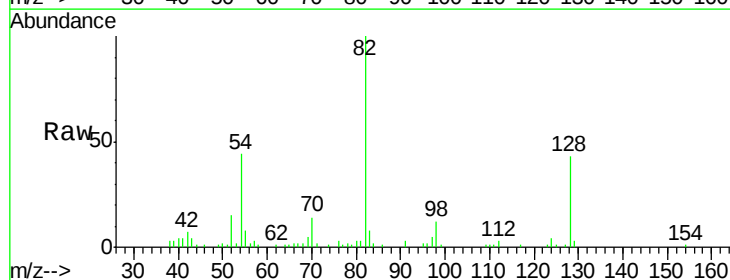


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

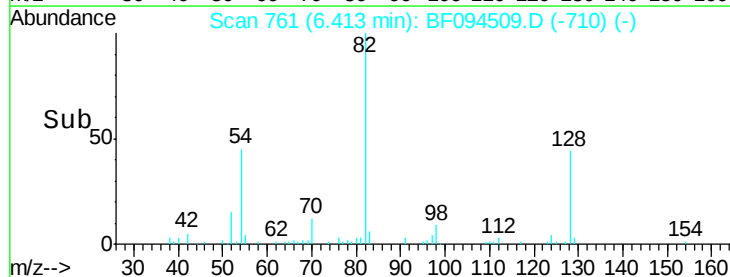
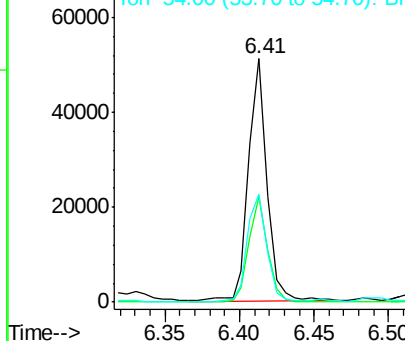


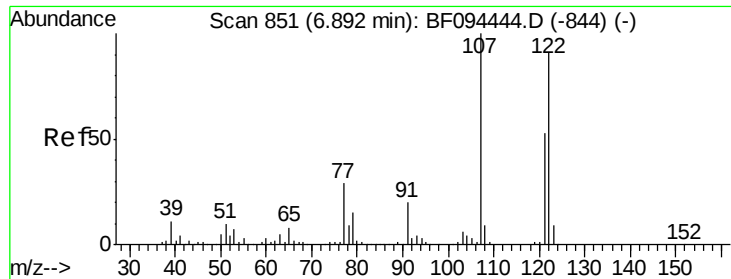
#23
Nitrobenzene-d5
Concen: 6.27 ng
RT: 6.41 min Scan# 761
Delta R.T. -0.00 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	43646		
128	43.2		34.0	51.0
54	44.3		42.2	63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





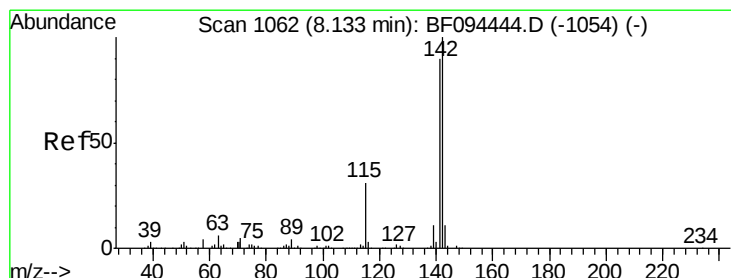
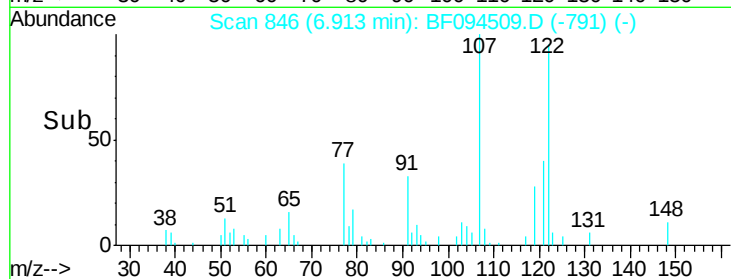
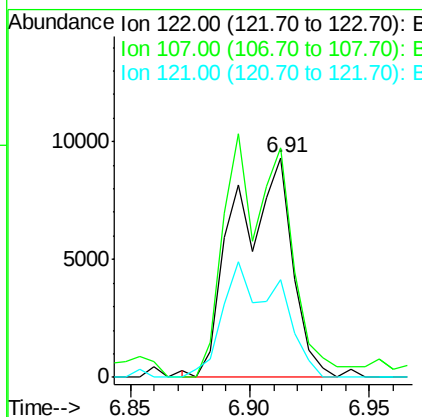
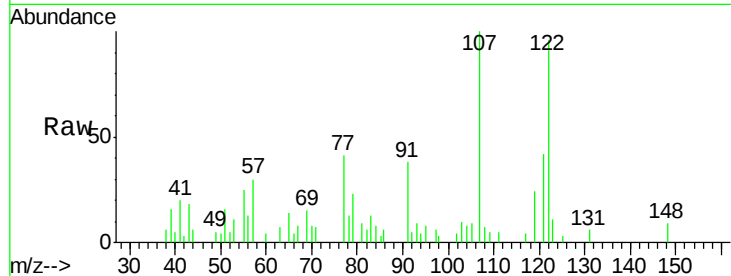
#27
 2,4-Dimethylphenol
 Concen: 2.39 ng/ml
 RT: 6.91 min Scan# 846
 Delta R.T. 0.02 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-Y10-BASE

Tot Ion	Ratio	Lower	Upper
122	100		
107	104.2	89.2	133.8
121	44.2	45.2	67.8

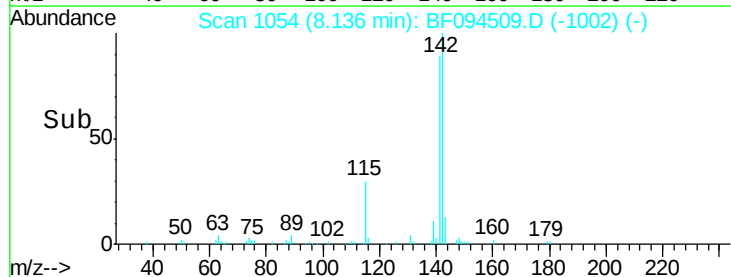
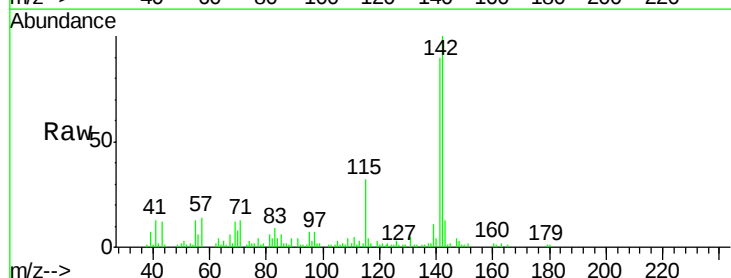
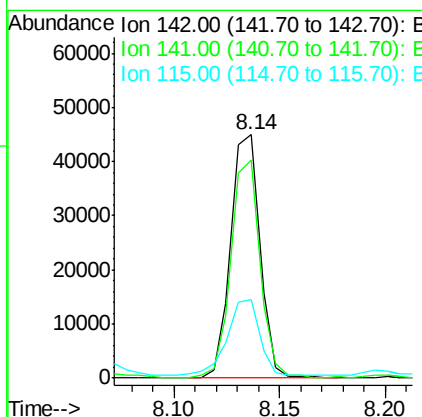
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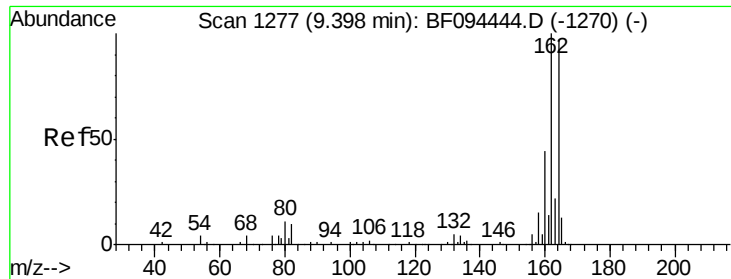
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#37
 2-Methylnaphthalene
 Concen: 3.05 ng
 RT: 8.14 min Scan# 1054
 Delta R.T. 0.00 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.3	106.9
115	32.4	27.1	40.7





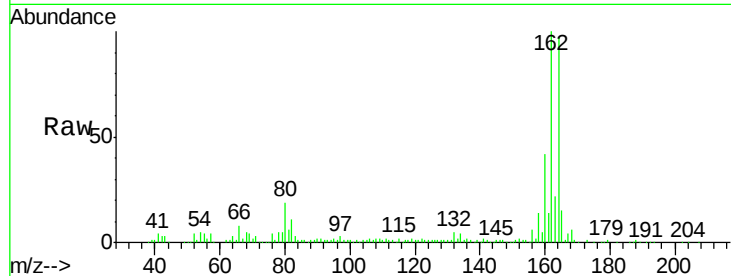
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.40 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-Y10-BASE

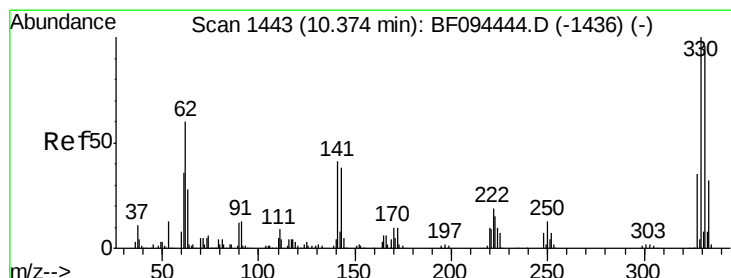
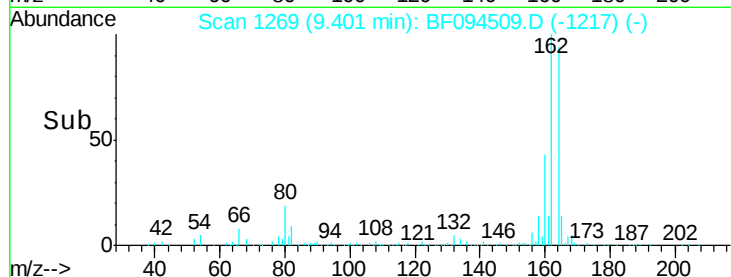
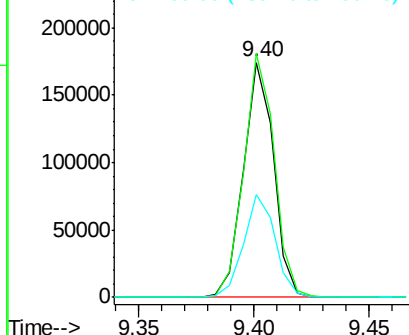
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.5	82.6	123.8	
160	43.9	36.2	54.2	

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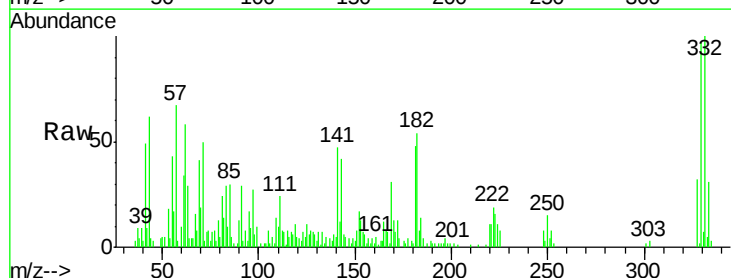


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

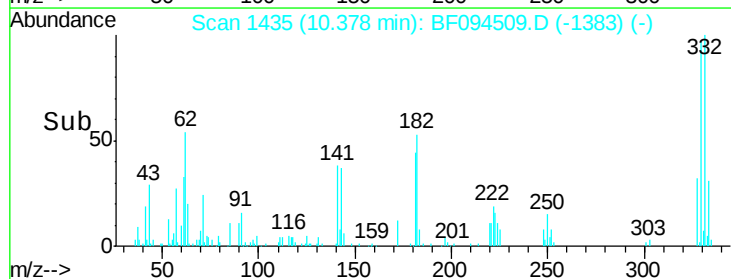
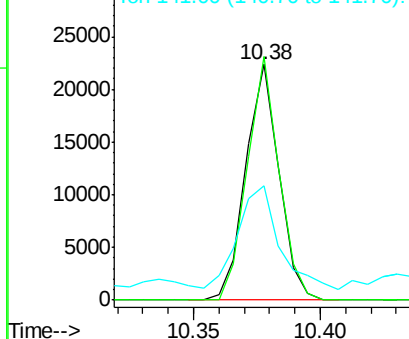


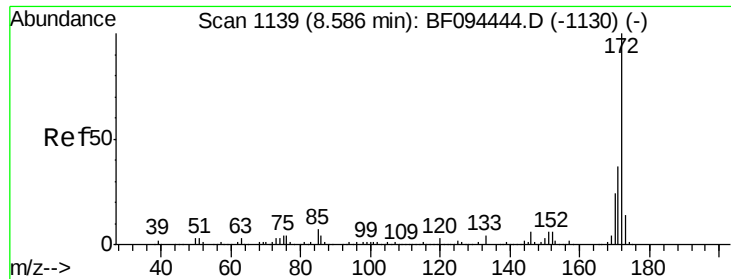
#41
 2,4,6-Tribromophenol
 Concen: 16.32 ng
 RT: 10.38 min Scan# 1435
 Delta R.T. 0.00 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.2	76.6	115.0	
141	53.5	31.4	47.2	



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: 19.46 ng

RT: 8.58 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Instrument :

BNA_F

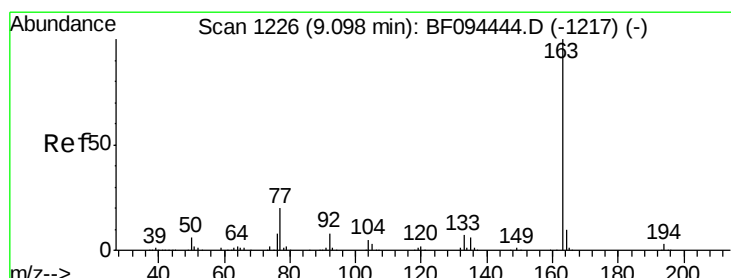
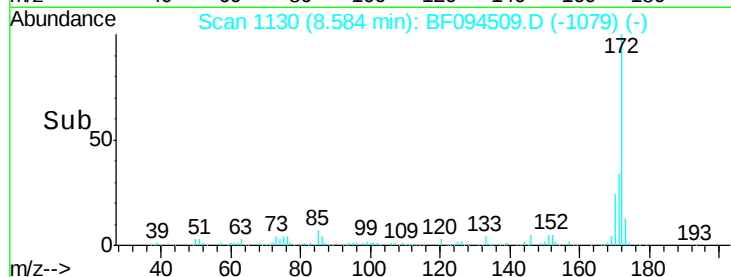
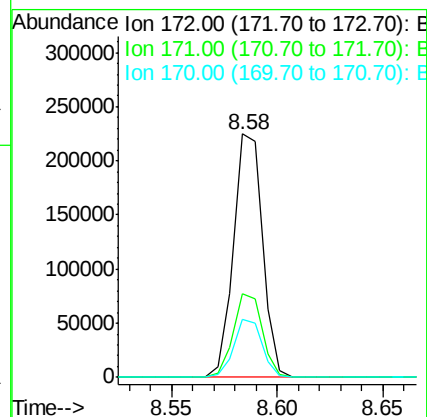
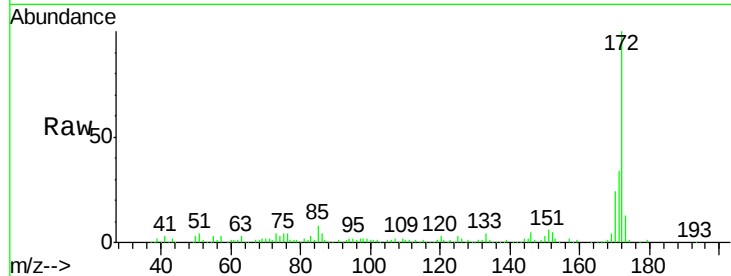
ClientSampleId :

E2-Y10-BASE

Tot Ion:172	Resp:	212009
Ion Ratio	Lower	Upper
172 100		
171 34.4	29.6	44.4
170 23.9	19.8	29.8

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#49

Dimethylphthalate

Concen: 5.98 ng

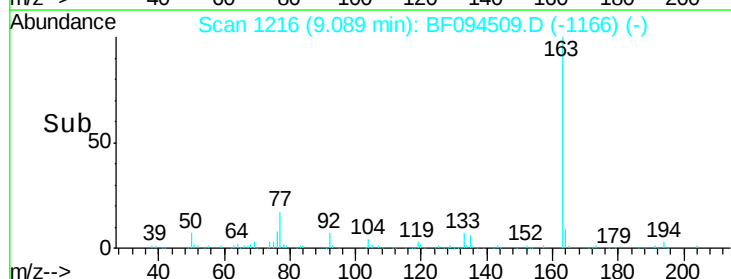
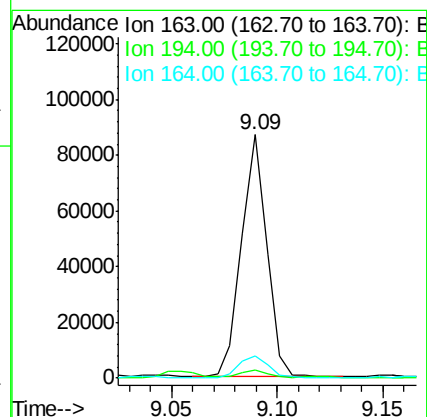
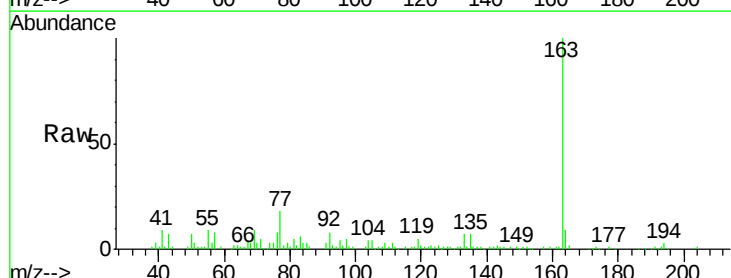
RT: 9.09 min Scan# 1216

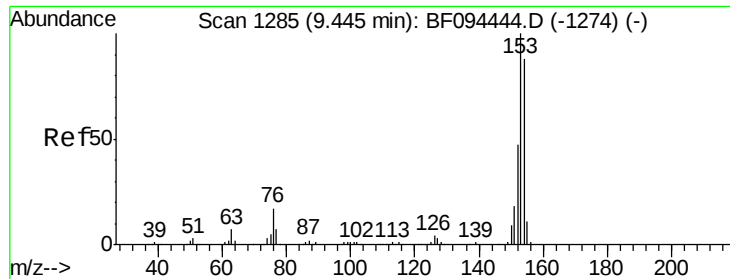
Delta R.T. -0.01 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Tgt Ion:163	Resp:	71482
Ion Ratio	Lower	Upper
163 100		
194 3.5	2.6	4.0
164 9.4	8.4	12.6





#51

Acenaphthene

Concen: 2.35 ng

RT: 9.44 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Instrument :

BNA_F

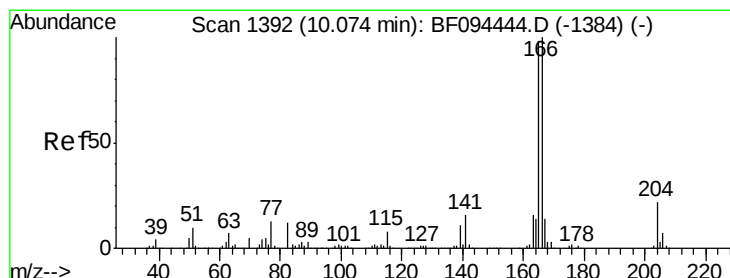
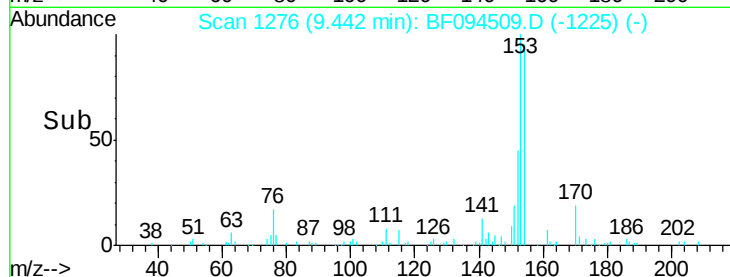
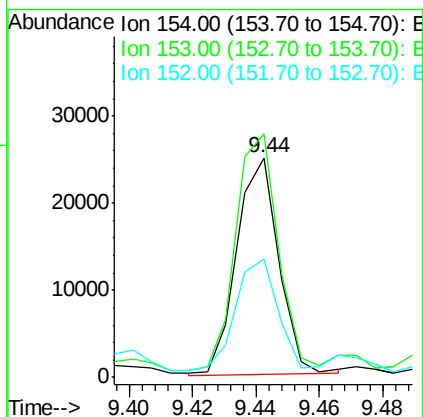
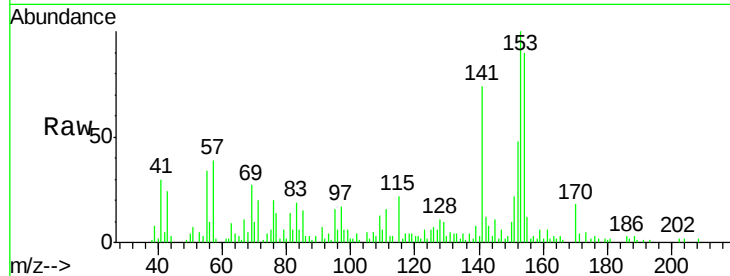
ClientSampleId :

E2-Y10-BASE

Tot Ion:	154	Resp:	22895
Ion Ratio	Lower	Upper	
154	100		
153	110.8	90.5	135.7
152	53.7	43.6	65.4

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#57

Fluorene

Concen: 3.16 ng

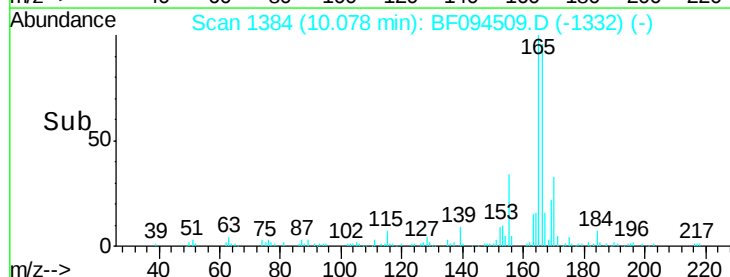
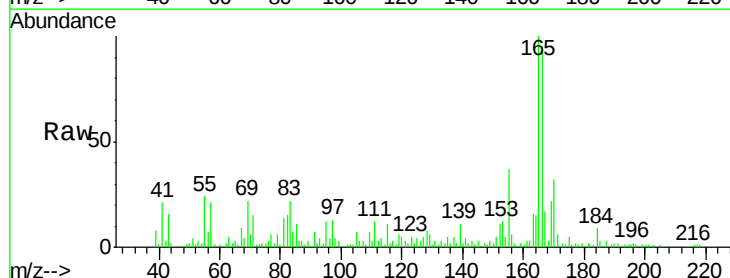
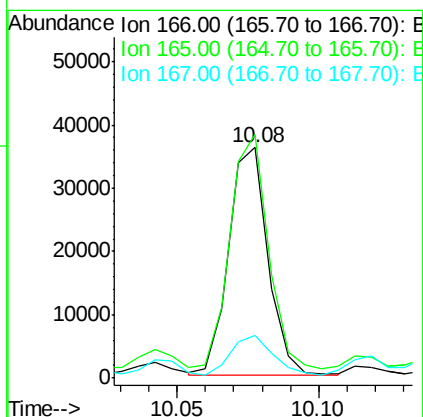
RT: 10.08 min Scan# 1384

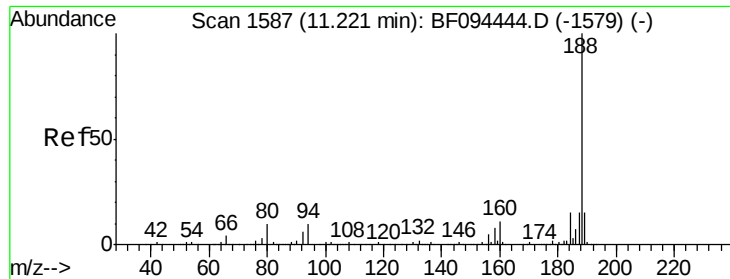
Delta R.T. 0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Tgt Ion:	166	Resp:	34758
Ion Ratio	Lower	Upper	
166	100		
165	105.7	78.8	118.2
167	18.4	10.6	16.0#





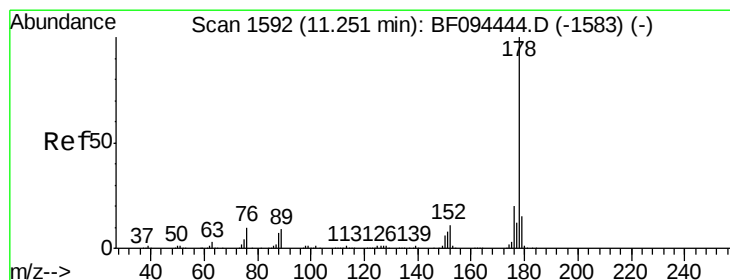
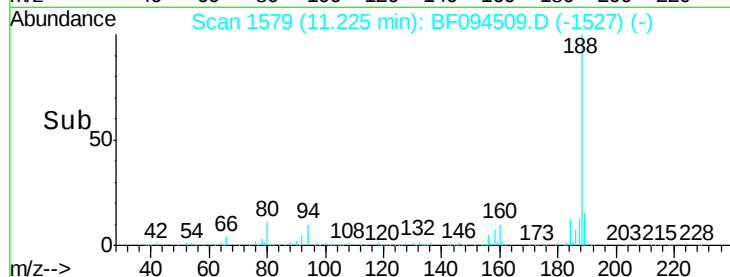
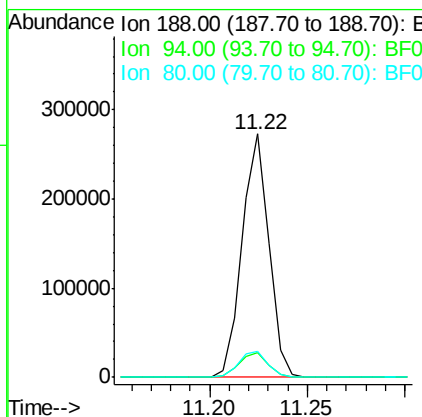
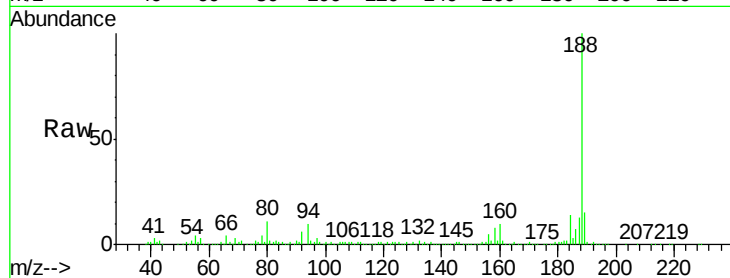
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Instrument :
BNA_F
ClientSampleId :
E2-Y10-BASE

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.3	9.4	14.2
80	10.9	10.2	15.2

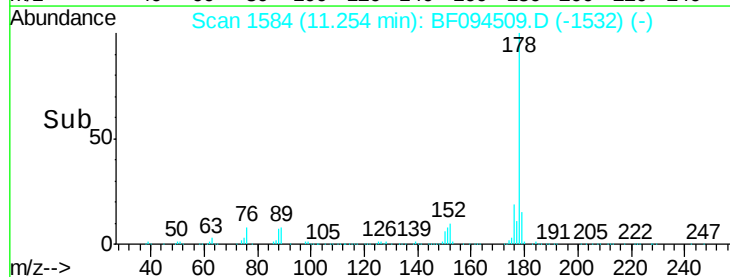
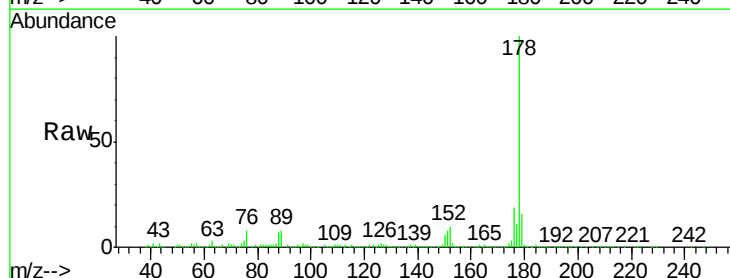
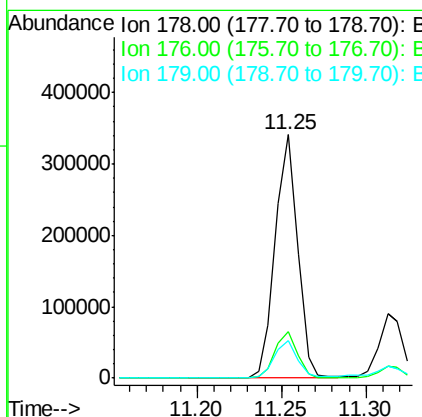
Manual Integrations
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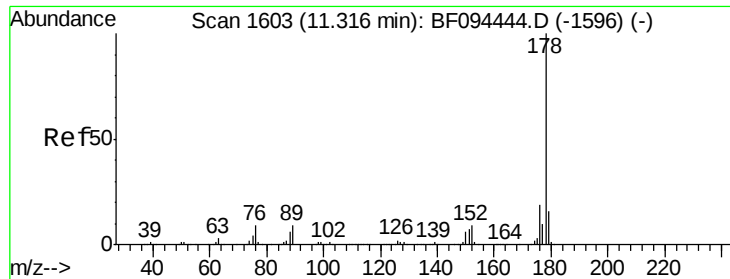
mohammad
4/19/2017 1:34:02 PM



#70
Phenanthrene
Concen: 21.18 ng
RT: 11.25 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.1	16.2	24.4
179	15.5	12.6	19.0





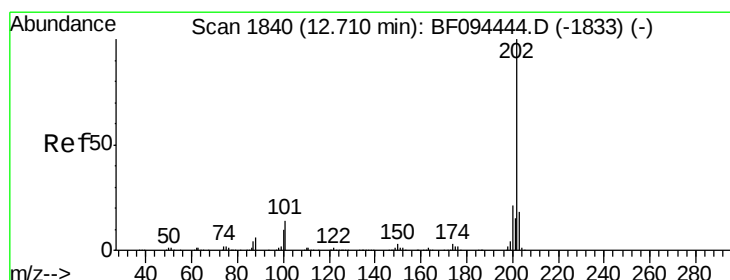
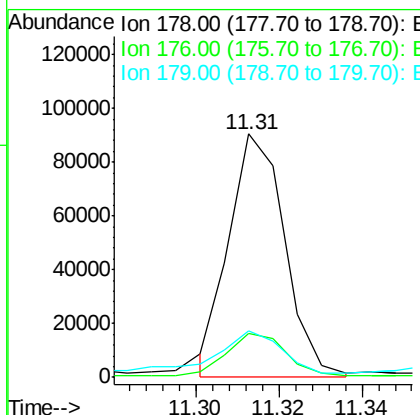
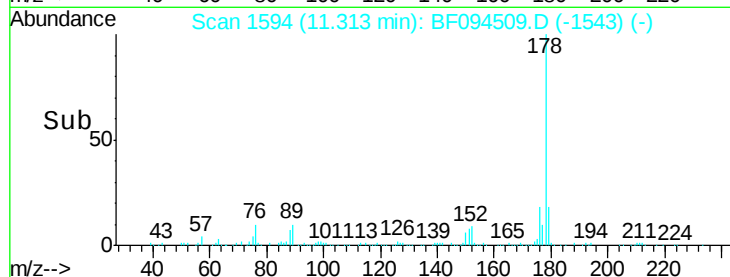
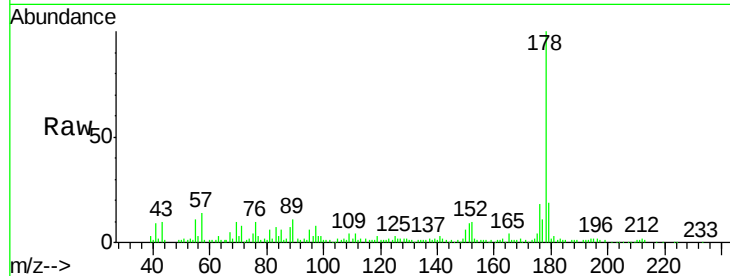
#71
 Anthracene
 Concen: 5.63 ng/mL
 RT: 11.31 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-Y10-BASE

Tot Ion:	178	Resp:	85059
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.8	23.8
179	19.3	12.7	19.1

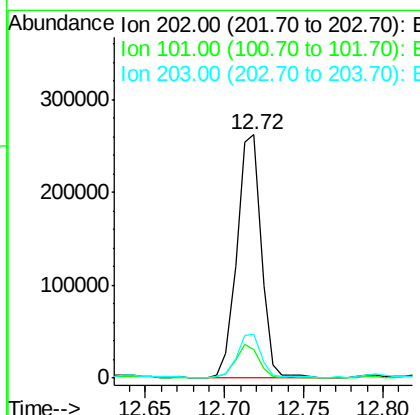
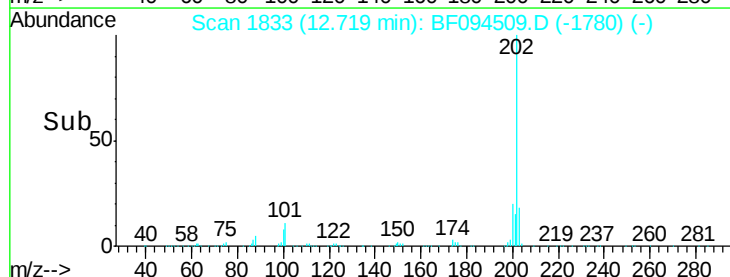
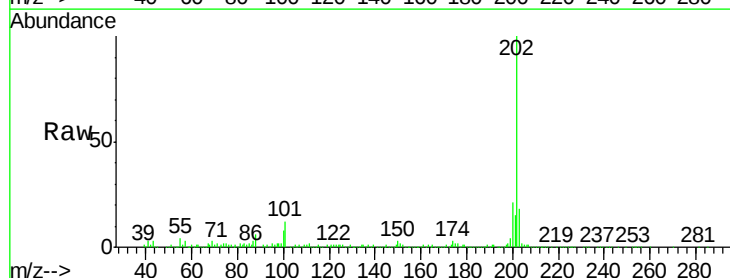
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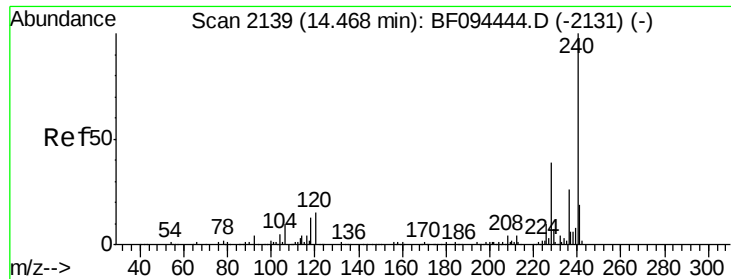
mohammad
 4/19/2017 1:34:02 PM



#74
 Fluoranthene
 Concen: 18.36 ng/mL
 RT: 12.72 min Scan# 1833
 Delta R.T. 0.01 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Tgt Ion:	202	Resp:	277761
Ion Ratio	Lower	Upper	
202	100		
101	11.9	0.0	33.2
203	18.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.48 min Scan# 2132

Delta R.T. 0.01 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Instrument :

BNA_F

ClientSampleId :

E2-Y10-BASE

Tot Ion:240 Resp: 262747

Ion Ratio Lower Upper

240 100

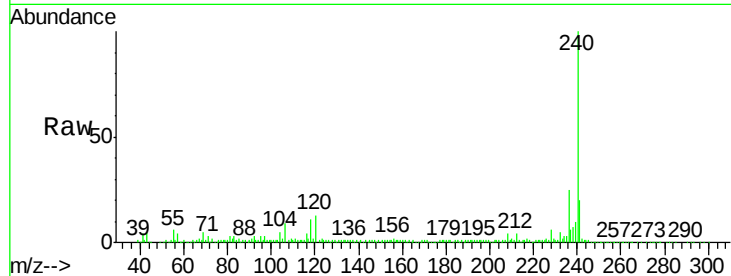
120 13.5 5.8 8.8#

236 25.0 20.5 30.7

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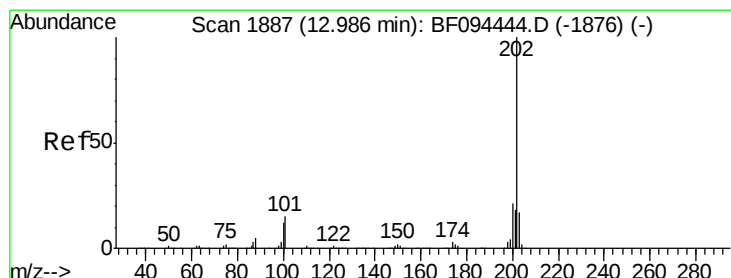
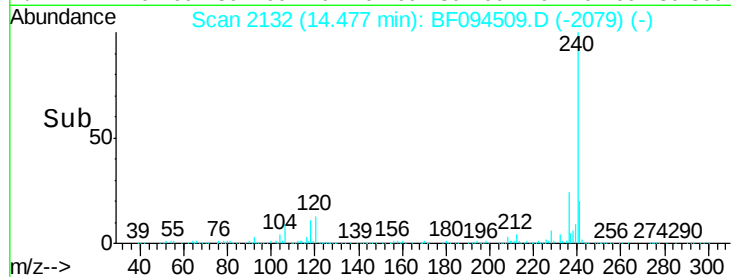
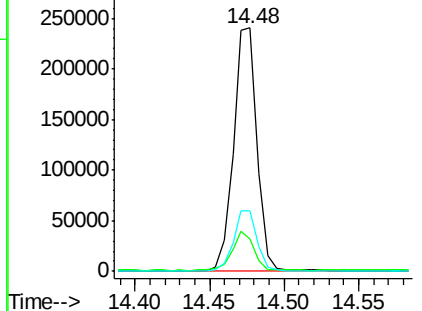
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.23 ng

RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

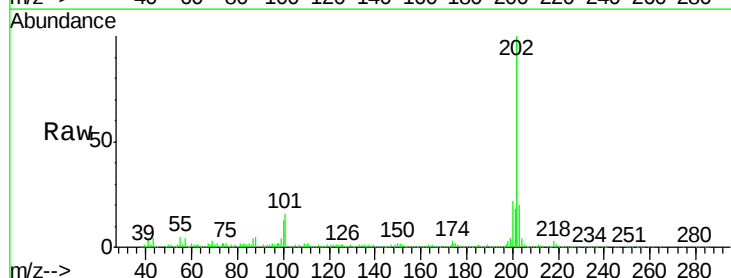
Tgt Ion:202 Resp: 297859

Ion Ratio Lower Upper

202 100

200 22.2 17.6 26.4

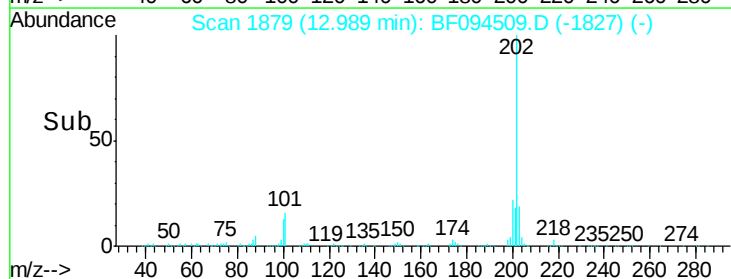
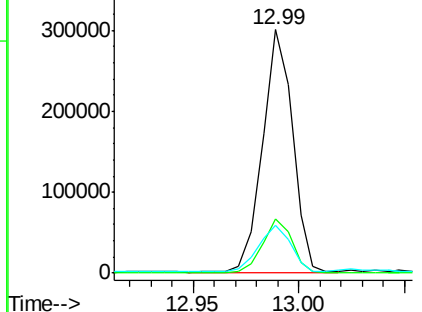
203 19.7 14.4 21.6

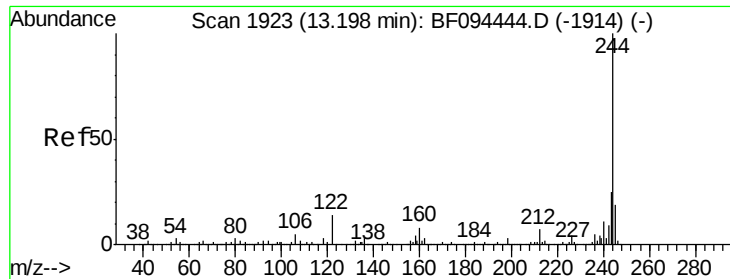


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





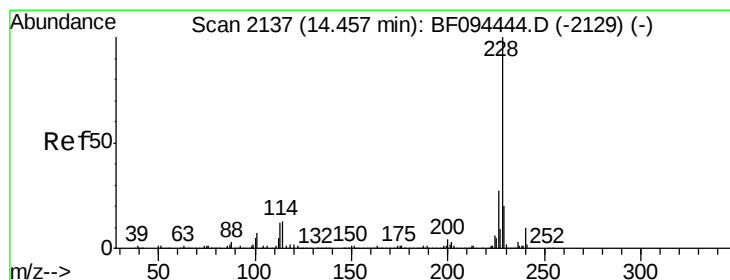
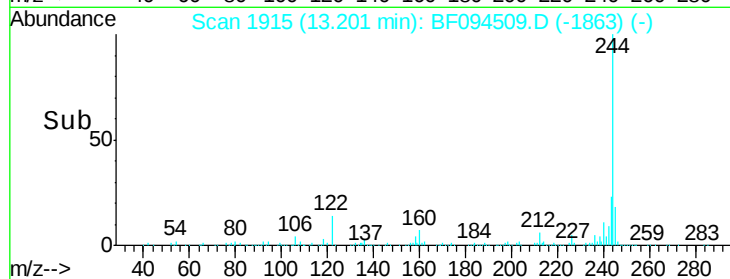
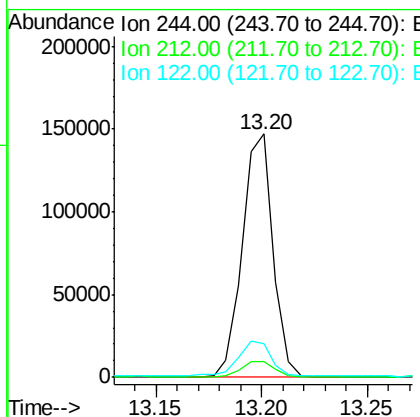
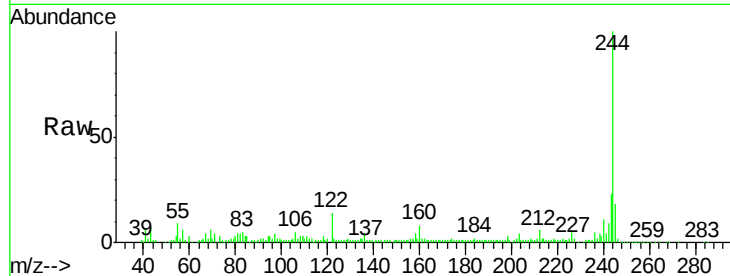
#78
 Terphenyl-d14
 Concen: 15.03 ng
 RT: 13.20 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Instrument :
 BNA_F
 ClientSampleId :
 E2-Y10-BASE

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.0	9.0
122	14.1	10.3	15.5

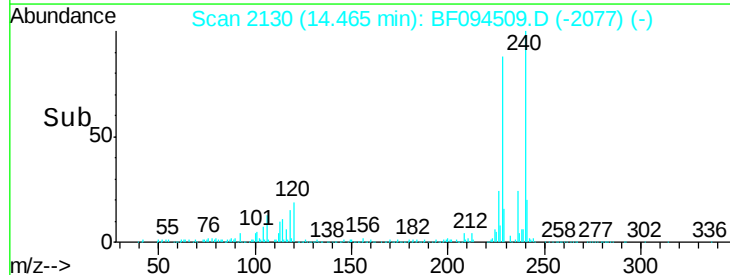
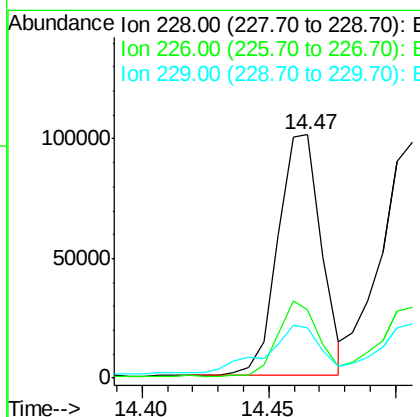
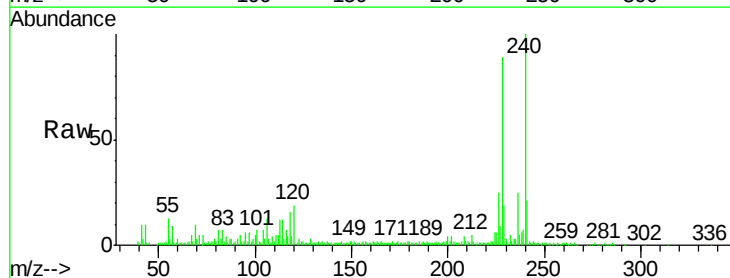
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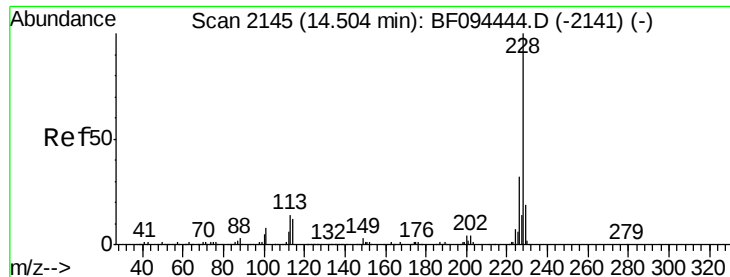
mohammad
 4/19/2017 1:34:02 PM



#80
 Benzo(a)anthracene
 Concen: 7.85 ng
 RT: 14.47 min Scan# 2130
 Delta R.T. 0.01 min
 Lab File: BF094509.D
 Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	20.9	16.3	24.5





#82

Chrysene

Concen: 9.30 ng/mL

RT: 14.51 min Scan# 2137

Delta R.T. 0.00 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Instrument :

BNA_F

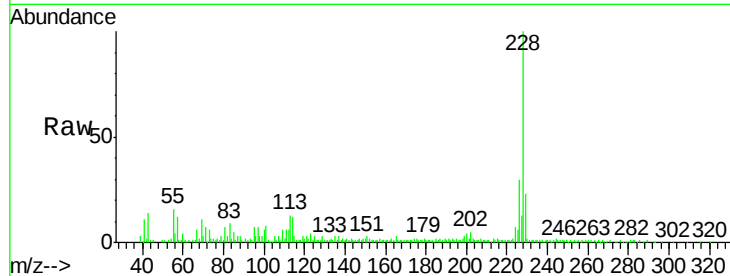
ClientSampleId :

E2-Y10-BASE

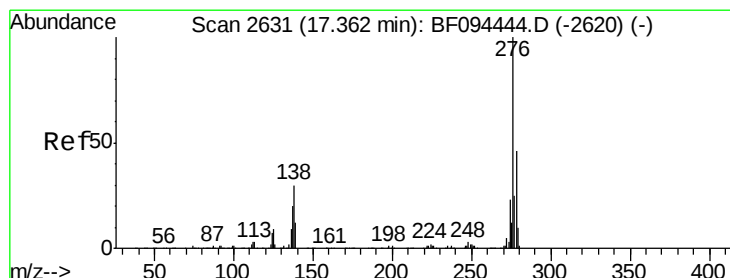
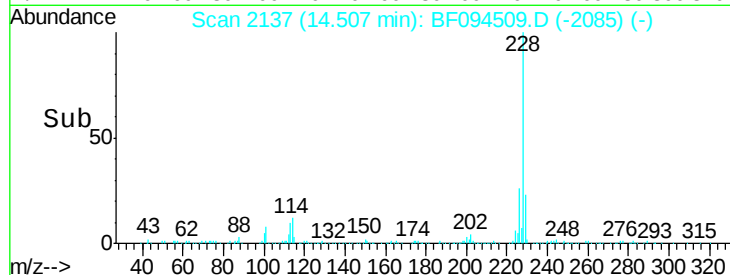
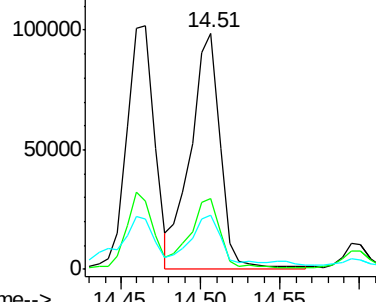
Tot Ion:	228	Resp:	129831
Ion Ratio	Lower	Upper	
228	100		
226	29.9	24.9	37.3
229	23.1	15.8	23.6

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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.07 ng/mL

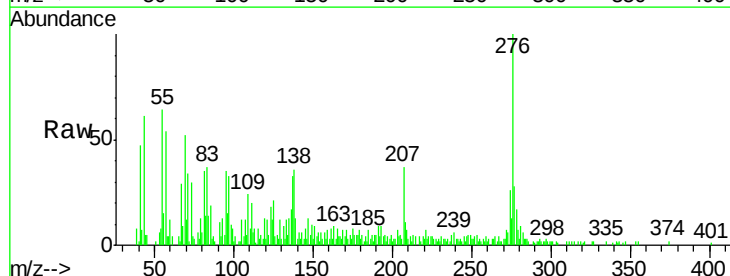
RT: 17.38 min Scan# 2625

Delta R.T. 0.01 min

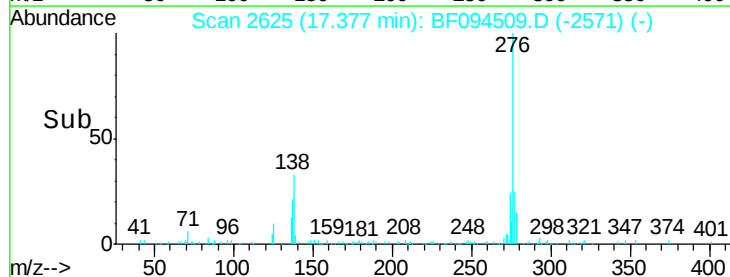
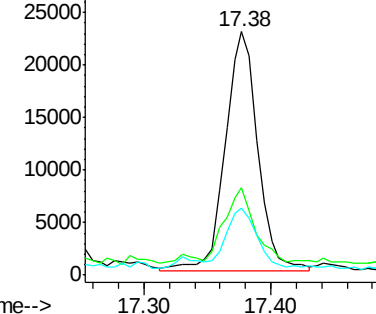
Lab File: BF094509.D

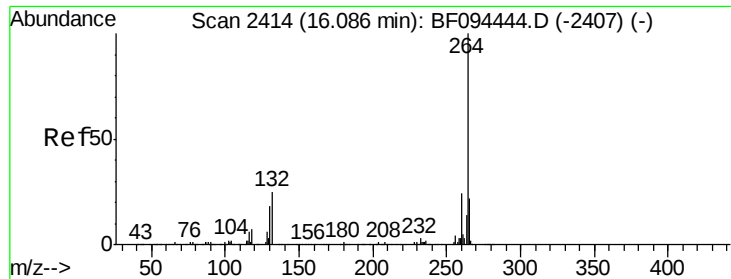
Acq: 19 Apr 2017 1:46

Tgt Ion:	276	Resp:	40822
Ion Ratio	Lower	Upper	
276	100		
138	28.0	27.8	41.6
277	23.4	20.2	30.4



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





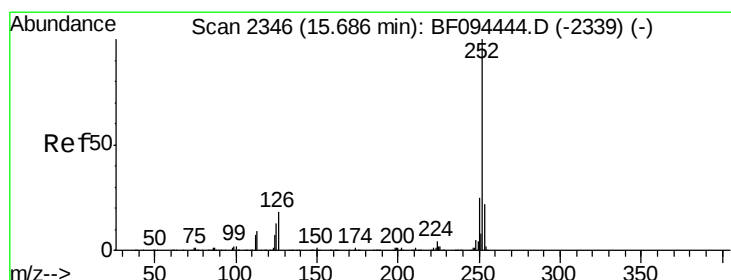
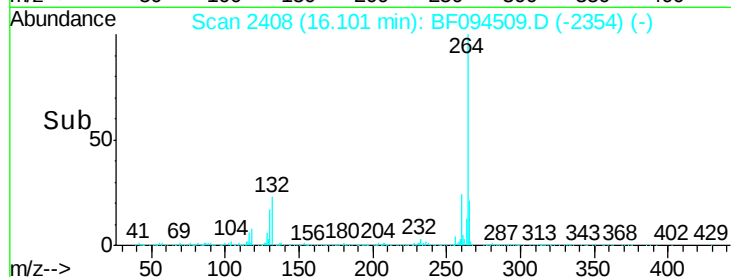
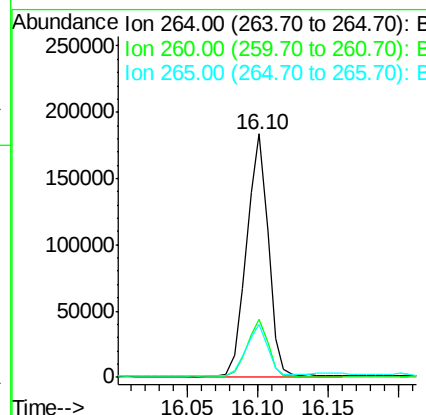
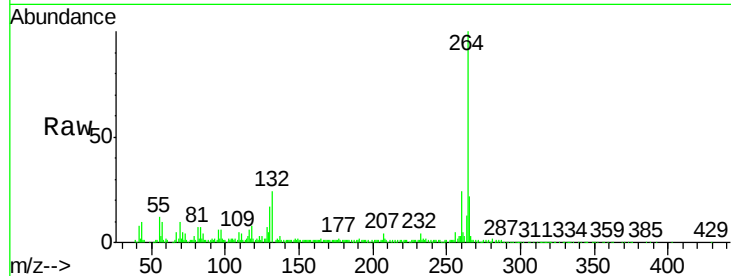
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.10 min Scan# 2408
Delta R.T. 0.01 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Instrument :
BNA_F
ClientSampleId :
E2-Y10-BASE

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	21.7	17.2	25.8

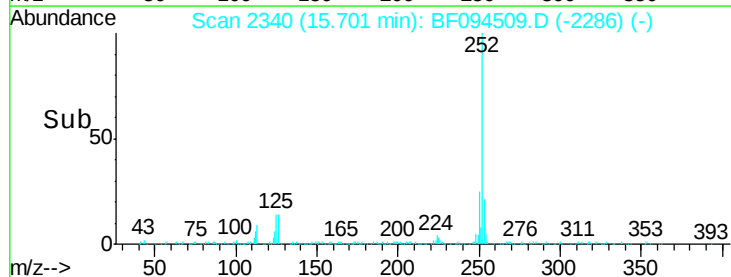
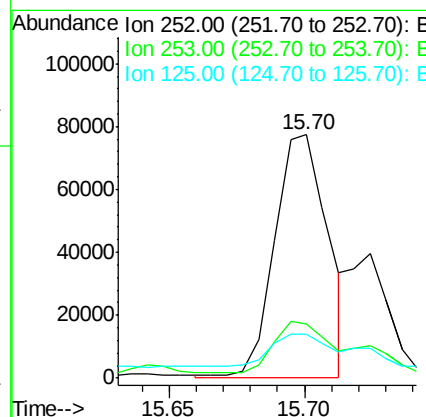
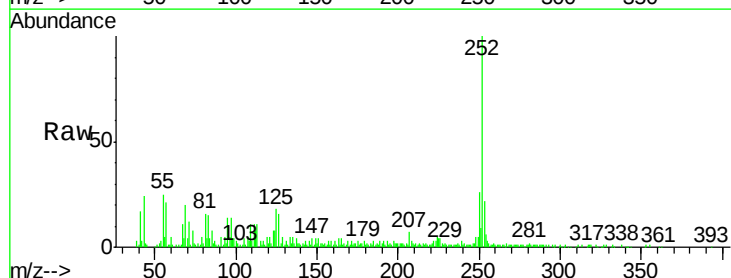
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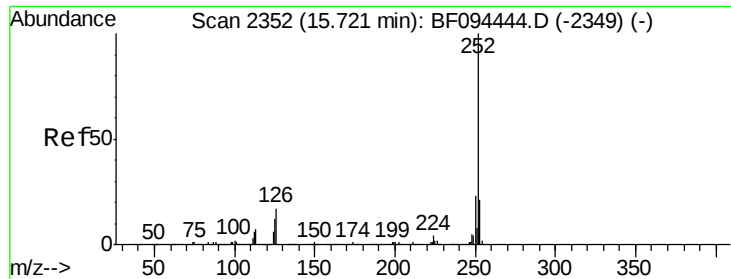
mohammad
4/19/2017 1:34:02 PM



#87
Benzo(b)fluoranthene
Concen: 8.80 ng m
RT: 15.70 min Scan# 2340
Delta R.T. 0.01 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	18.1	9.8	14.8#





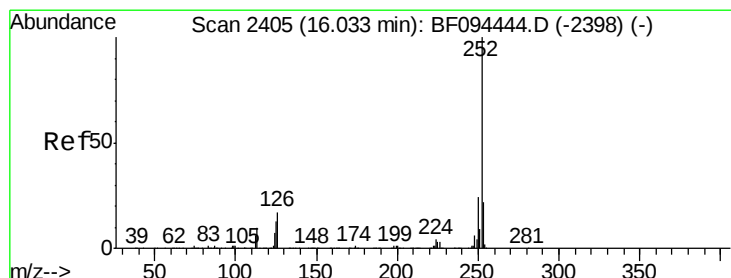
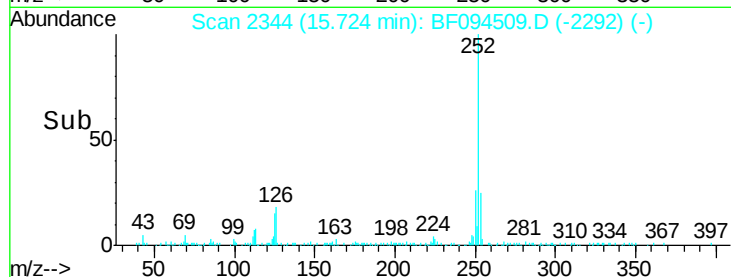
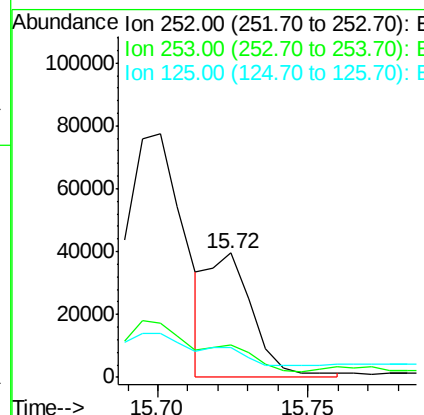
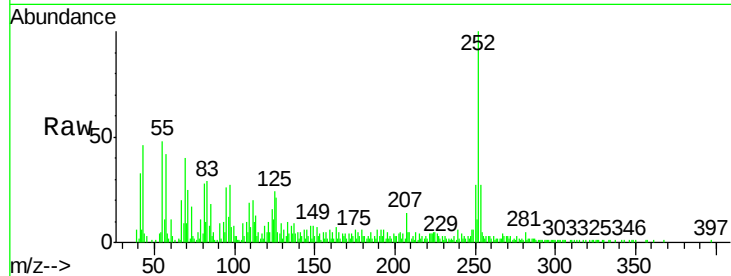
#88
Benzo(k)fluoranthene
Concen: 3.56 ng m
RT: 15.72 min Scan# 2344
Delta R.T. 0.00 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Instrument :
BNA_F
ClientSampleId :
E2-Y10-BASE

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.6	18.4	27.6
125	24.0	13.1	19.7

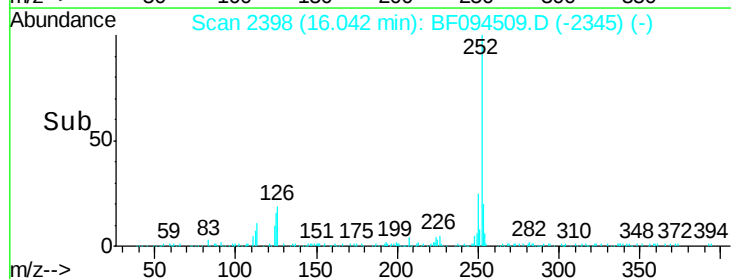
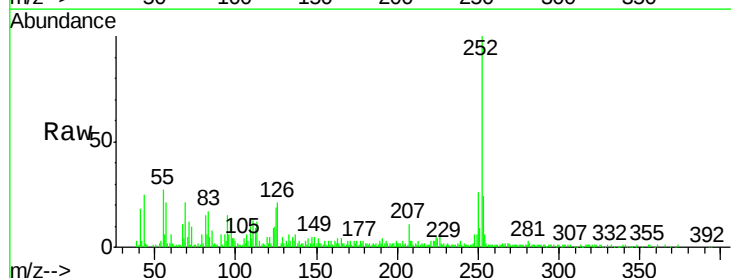
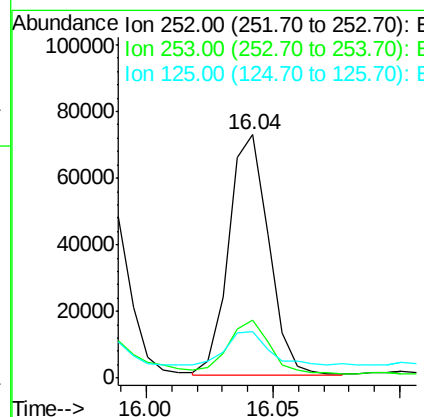
Manual Integrations
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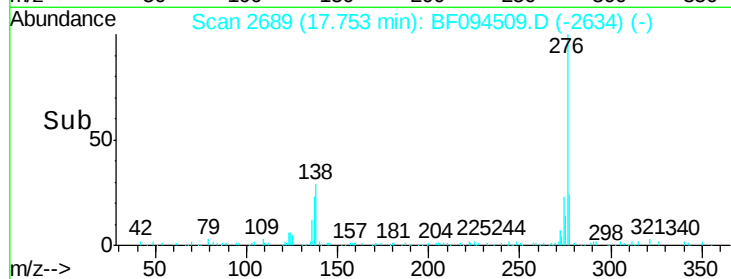
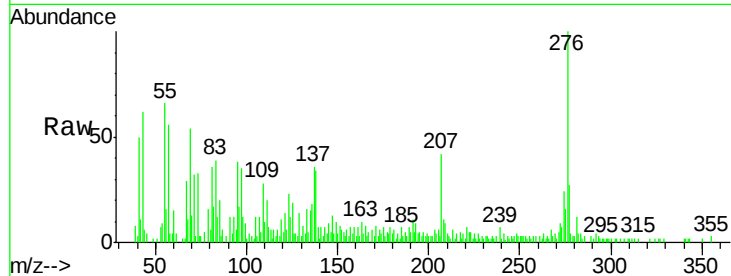
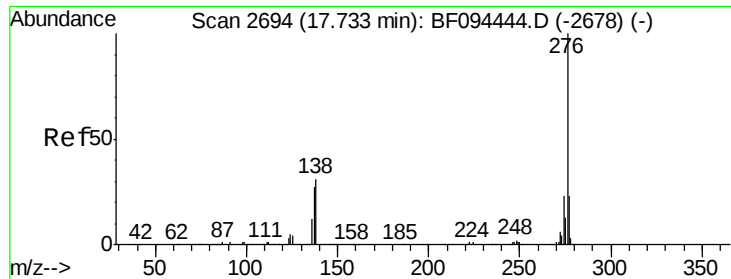
mohammad
4/19/2017 1:34:02 PM



#89
Benzo(a)pyrene
Concen: 7.00 ng
RT: 16.04 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BF094509.D
Acq: 19 Apr 2017 1:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	18.9	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 4.04 ng

RT: 17.75 min Scan# 2689

Delta R.T. 0.02 min

Lab File: BF094509.D

Acq: 19 Apr 2017 1:46

Instrument :

BNA_F

ClientSampleId :

E2-Y10-BASE

Tot Ion: 276 Resp: 38425

Ion Ratio Lower Upper

276 100

277 27.0 18.6 28.0

138 34.2 25.4 38.0

Manual Integrations

APPROVED

mohammad

4/19/2017 1:34:02 PM

