

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
 Data File : BF093266.D
 Acq On : 1 Mar 2017 1:47
 Operator : SJ/MA
 Sample : I1997-03DL 20X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-W6-BASEDL

Manual Integrations
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Quant Time: Mar 01 03:13:24 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	120971	20.00	ng	-0.05
21) Naphthalene-d8	8.10	136	425041	20.00	ng	-0.05
38) Acenaphthene-d10	9.85	164	177996	20.00	ng	-0.05
63) Phenanthrene-d10	11.33	188	302051	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	270998	20.00	ng	-0.05
86) Perylene-d12	15.40	264	190719	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	44408	6.30	ng	-0.03
7) Phenol-d6	6.49	99	54584	6.02	ng	0.00
23) Nitrobenzene-d5	7.38	82	32409	4.25	ng	-0.05
41) 2,4,6-Tribromophenol	10.65	330	6867	5.33	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	53175	5.41	ng	-0.05
78) Terphenyl-d14	12.91	244	44246	3.84	ng	-0.06
Target Compounds						Qvalue
51) Acenaphthene	9.88	154	32991	3.17	ng	95
54) Dibenzofuran	10.05	168	28637	2.06	ng	93
57) Fluorene	10.40	166	52539m	4.90	ng	
70) Phenanthrene	11.36	178	667104	38.55	ng	98
71) Anthracene	11.41	178	199439	11.48	ng	98
72) Carbazole	11.57	167	37157	2.24	ng	98
74) Fluoranthene	12.54	202	920387	51.56	ng	97
77) Pyrene	12.77	202	916345	45.18	ng	99
80) Benzo(a)anthracene	13.96	228	578259	34.89	ng	99
82) Chrysene	14.00	228	409899	26.41	ng	97
85) Indeno(1,2,3-cd)pyrene	16.80	276	156961	13.06	ng	96
87) Benzo(b)fluoranthene	15.00	252	499131m	39.76	ng	
88) Benzo(k)fluoranthene	15.01	252	104928m	9.68	ng	
89) Benzo(a)pyrene	15.35	252	328737	30.27	ng	100
90) Dibenzo(a,h)anthracene	16.80	278	44804m	5.11	ng	
91) Benzo(g,h,i)perylene	17.22	276	154695	17.45	ng	# 93

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

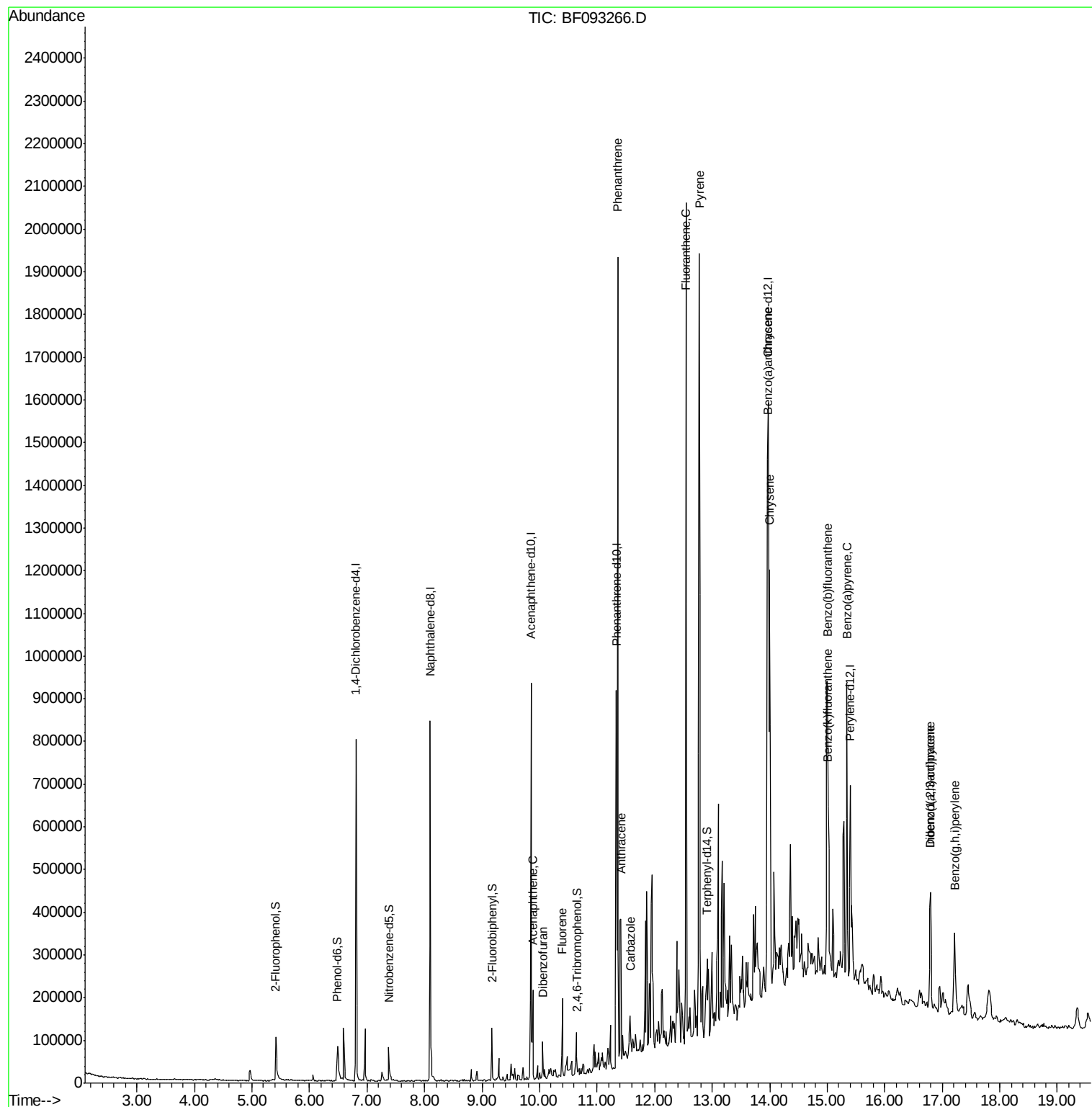
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF022817\
Data File : BF093266.D
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ALS Vial : 27 Sample Multiplier: 1

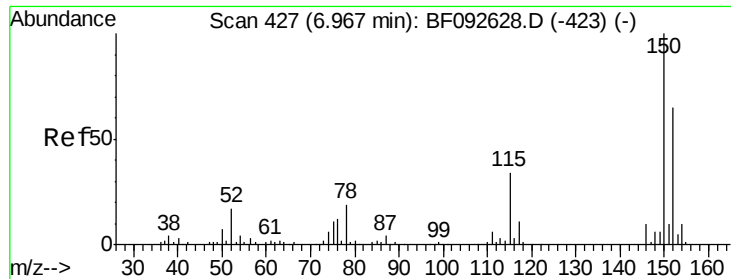
Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

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Quant Time: Mar 01 03:13:24 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
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#1

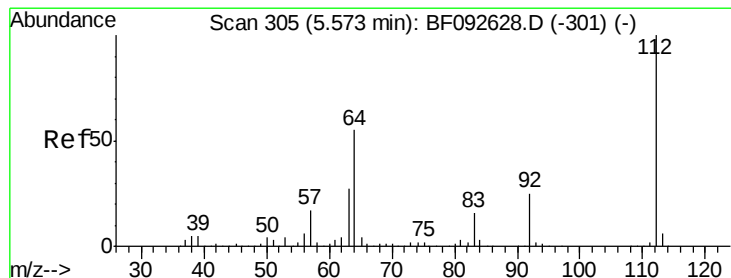
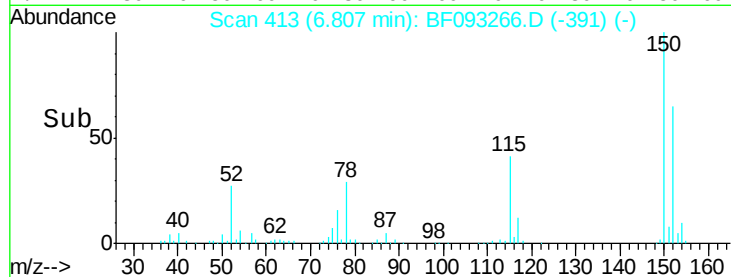
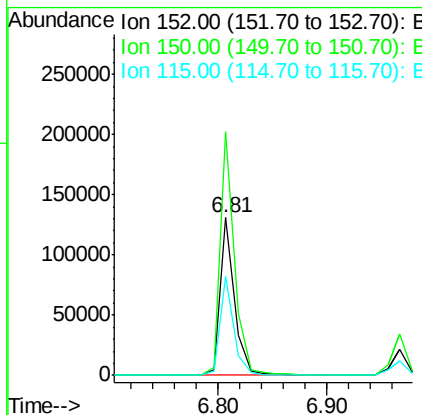
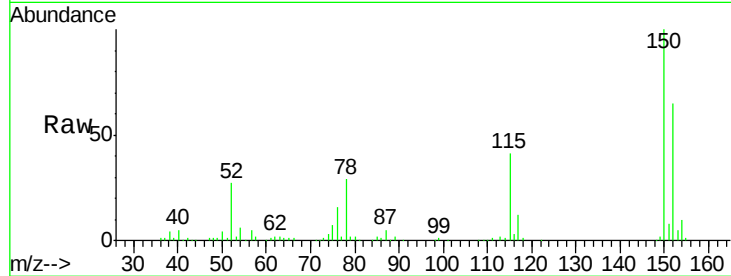
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.81 min Scan# 413
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.9	187.3
115	63.0	46.0	69.0

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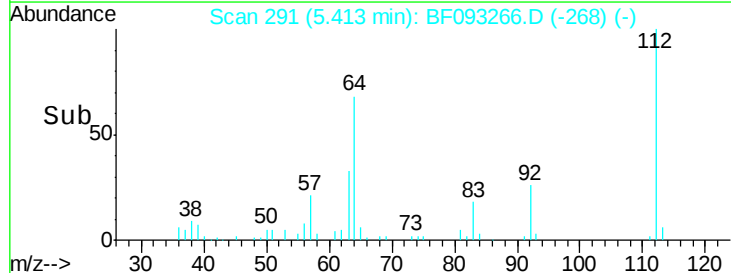
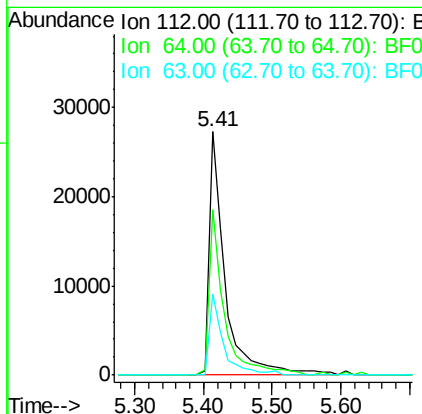
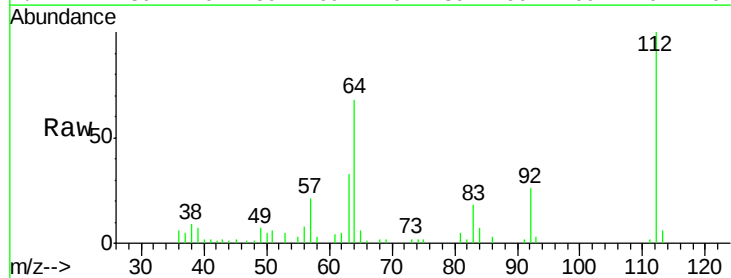
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#5

2-Fluorophenol
Concen: 6.30 ng
RT: 5.41 min Scan# 291
Delta R.T. -0.03 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.1	46.1	69.1
63	33.2	23.8	35.6





#7

Phenol-d6

Concen: 6.02 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Instrument :

BNA_F

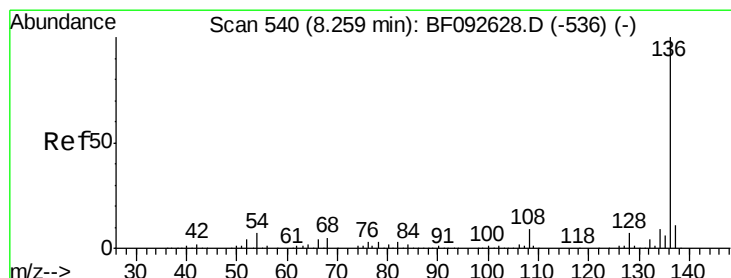
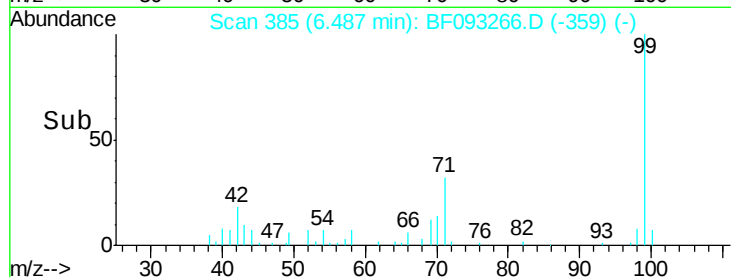
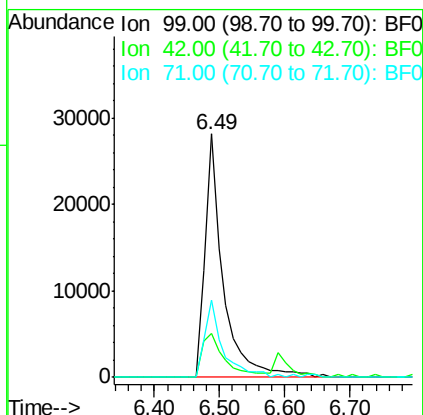
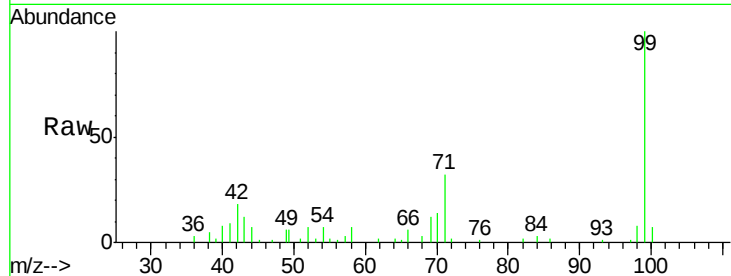
ClientSampleId :

E2-W6-BASEDL

Tgt Ion:	99	Resp:	54584
Ion	Ratio	Lower	Upper
99	100		
42	17.8	15.6	23.4
71	31.7	27.5	41.3

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#21

Naphthalene-d8

Concen: 20.00 ng

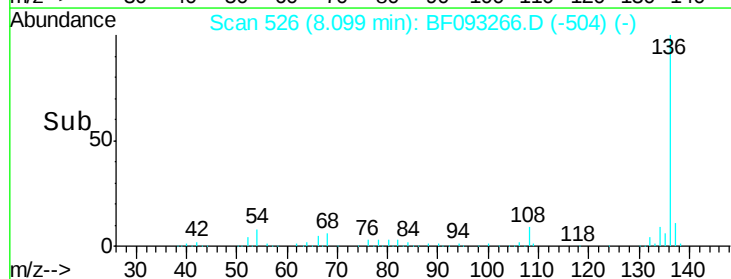
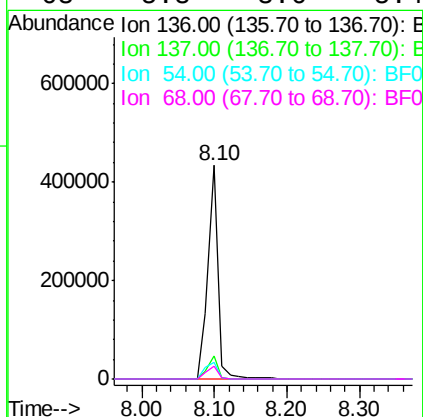
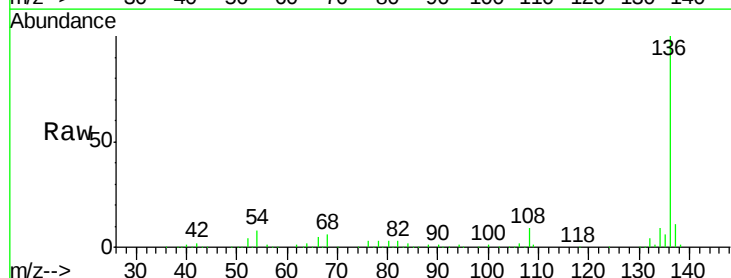
RT: 8.10 min Scan# 526

Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Tgt Ion:	136	Resp:	425041
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.4	12.6
54	8.0	4.5	6.7#
68	5.8	3.6	5.4#





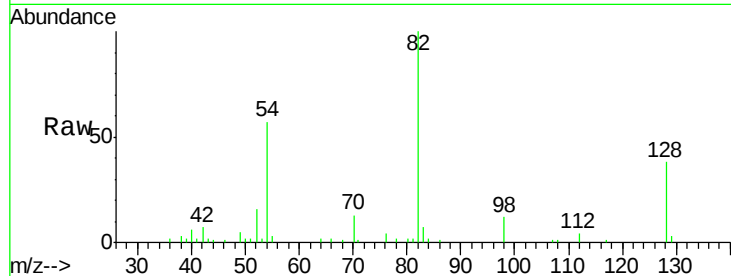
#23
 Nitrobenzene-d5
 Concen: 4.25 ng
 RT: 7.38 min Scan# 463
 Delta R.T. -0.05 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

Instrument :
 BNA_F
 ClientSampleId :
 E2-W6-BASEDL

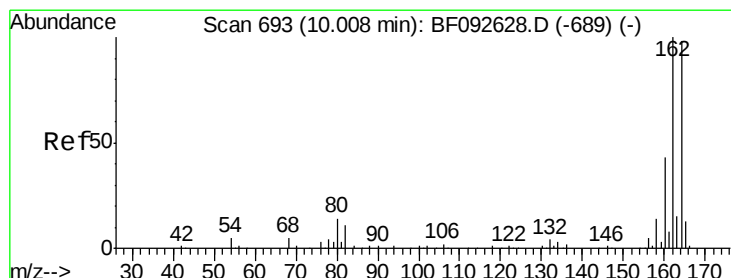
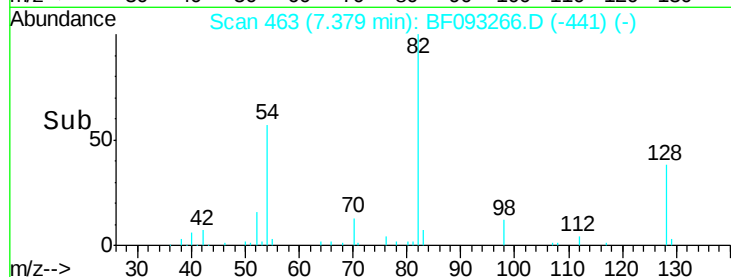
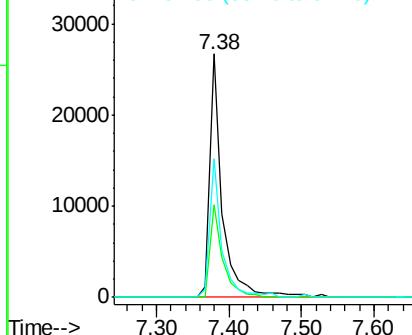
Tgt Ion	Ratio	Lower	Upper
82	100		
128	38.2	34.6	52.0
54	56.8	39.5	59.3

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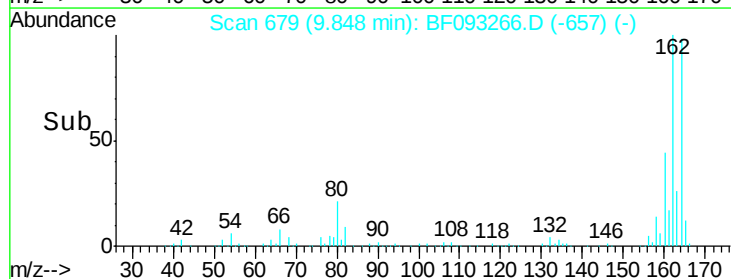
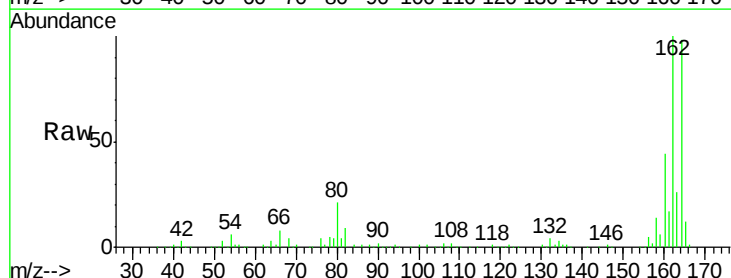
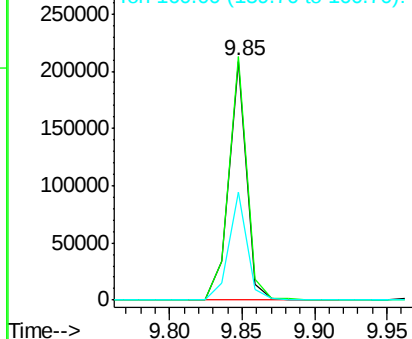
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

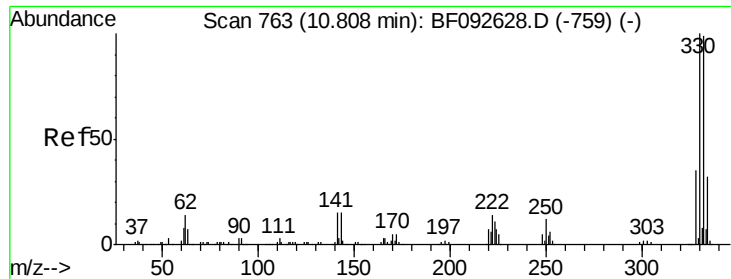


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.85 min Scan# 679
 Delta R.T. -0.05 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.2	120.2
160	45.1	36.9	55.3

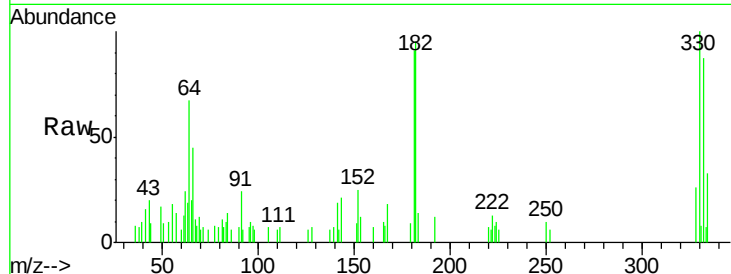
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





#41
 2,4,6-Tribromophenol
 Concen: 5.33 ng
 RT: 10.65 min Scan# 749
 Delta R.T. -0.03 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

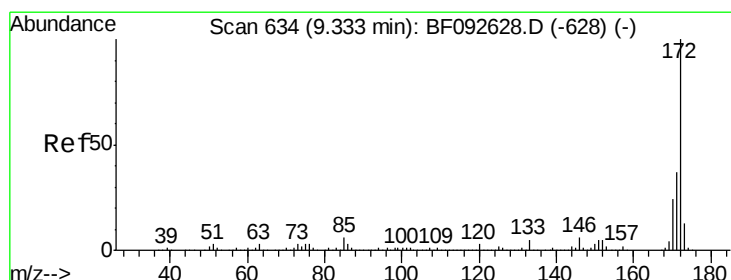
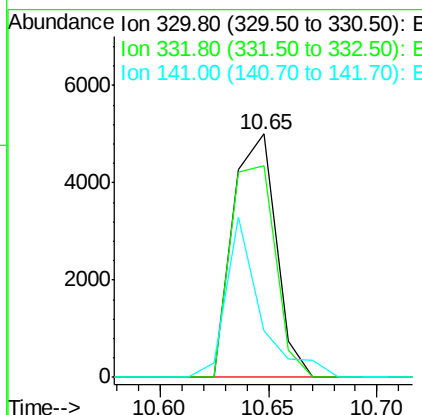
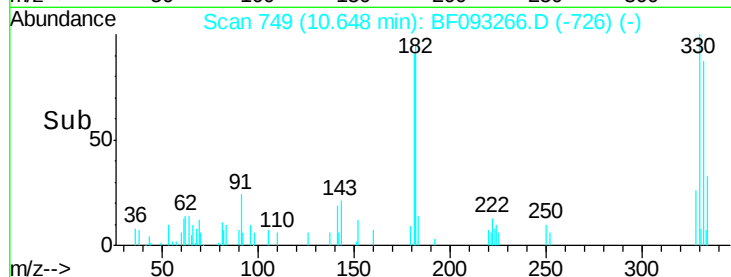
Instrument :
 BNA_F
 ClientSampleId :
 E2-W6-BASEDL



Tgt Ion: 330 Resp: 6867
 Ion Ratio Lower Upper
 330 100
 332 91.3 77.4 116.2
 141 52.8 34.1 51.1#

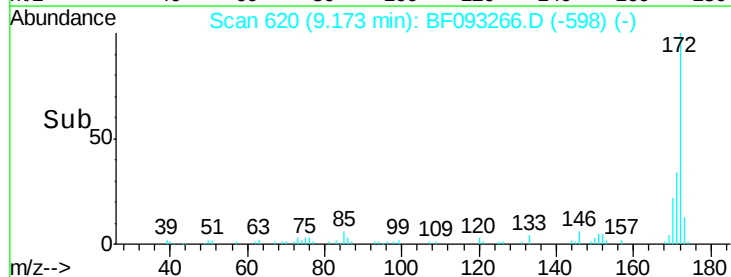
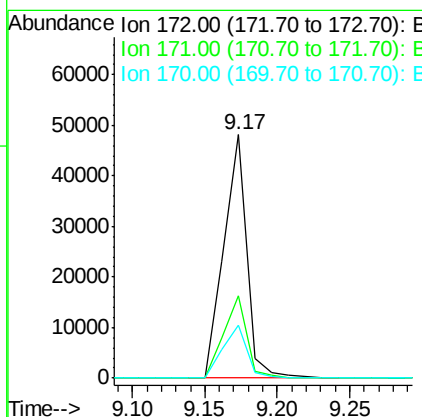
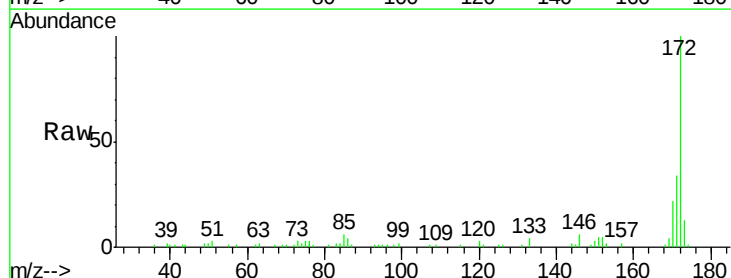
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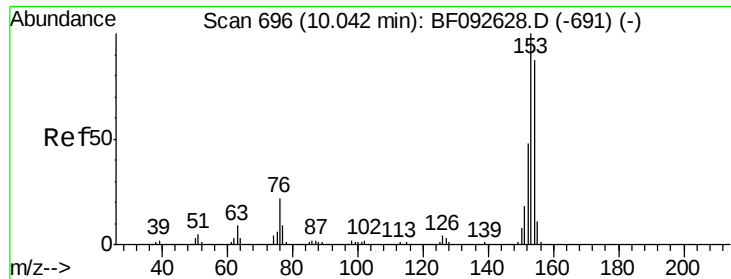
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#44
 2-Fluorobiphenyl
 Concen: 5.41 ng
 RT: 9.17 min Scan# 620
 Delta R.T. -0.05 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

Tgt Ion: 172 Resp: 53175
 Ion Ratio Lower Upper
 172 100
 171 34.0 29.4 44.0
 170 21.9 20.2 30.4





#51

Acenaphthene

Concen: 3.17 ng

RT: 9.88 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Instrument :

BNA_F

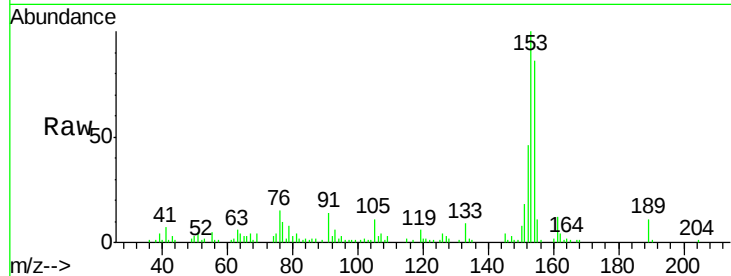
ClientSampleId :

E2-W6-BASEDL

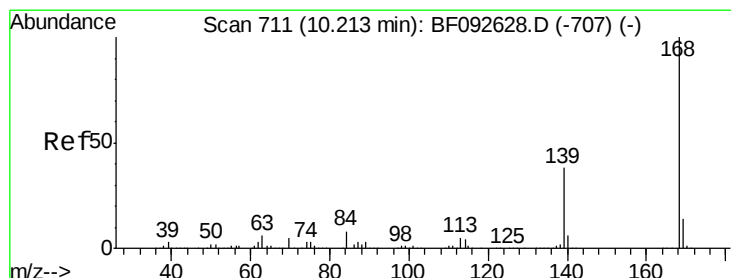
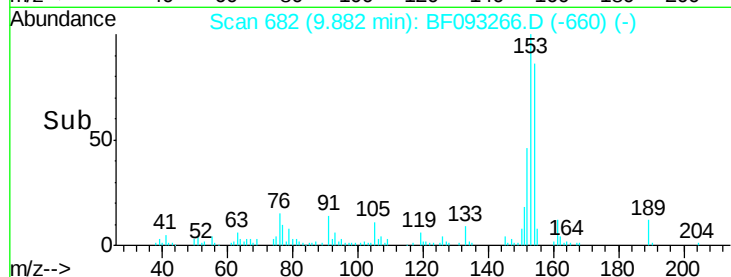
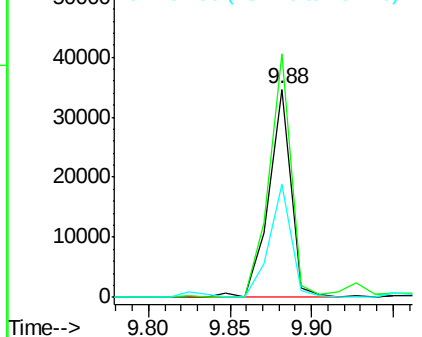
Tgt Ion:	154	Resp:	32991
Ion Ratio	Lower	Upper	
154	100		
153	116.8	88.6	133.0
152	54.2	41.6	62.4

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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



#54

Dibenzofuran

Concen: 2.06 ng

RT: 10.05 min Scan# 697

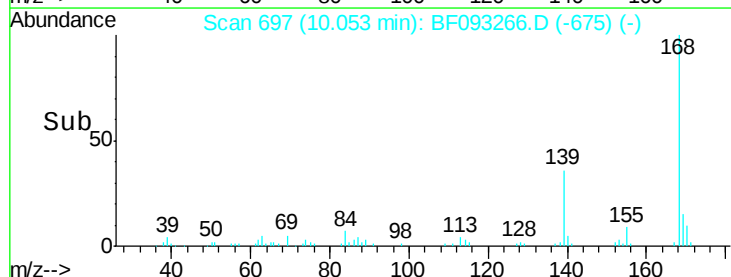
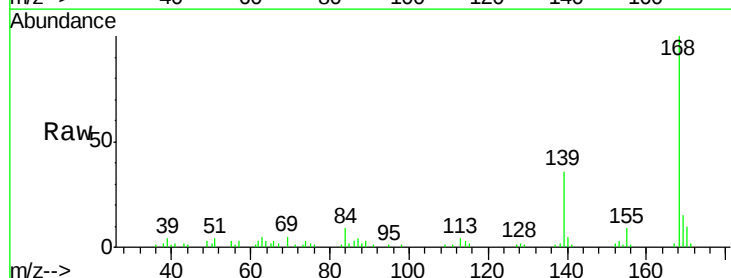
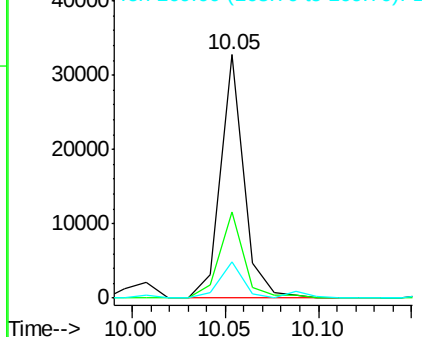
Delta R.T. -0.05 min

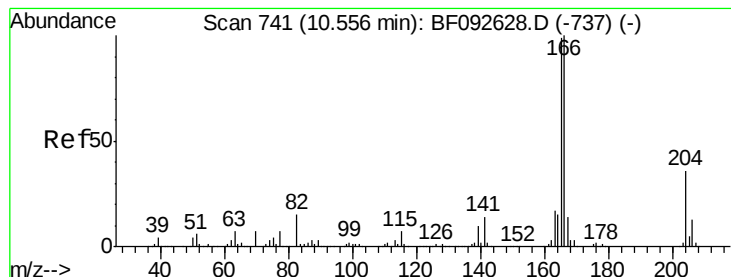
Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Tgt Ion:	168	Resp:	28637
Ion Ratio	Lower	Upper	
168	100		
139	35.7	32.6	49.0
169	15.0	11.3	16.9

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





#57

Fluorene

Concen: 4.90 ng m

RT: 10.40 min Scan# 727

Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Instrument :

BNA_F

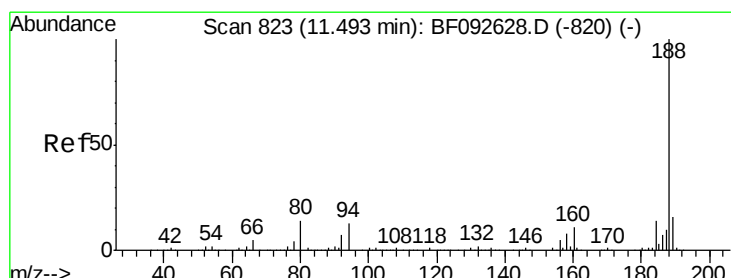
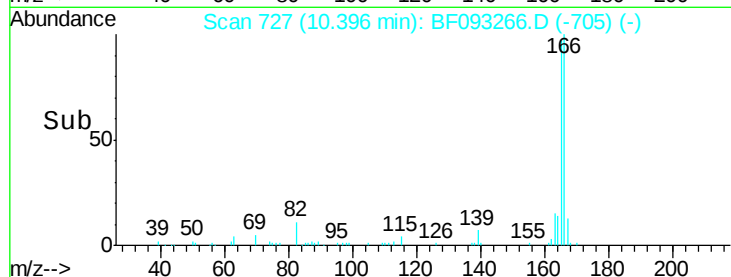
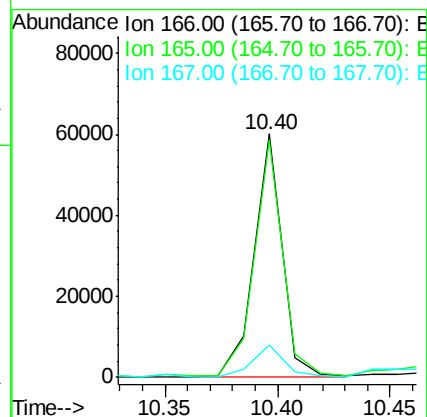
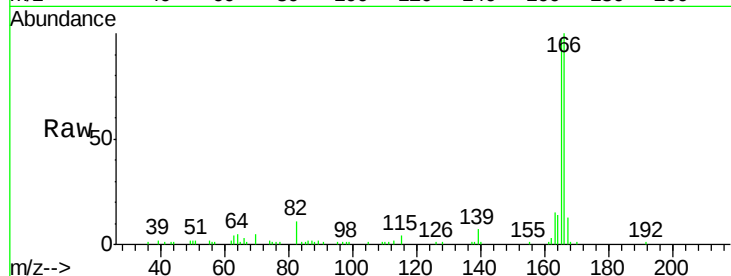
ClientSampleId :

E2-W6-BASEDL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	52539		
165	97.2	77.8	116.8	
167	13.3	10.8	16.2	

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#63

Phenanthrene-d10

Concen: 20.00 ng

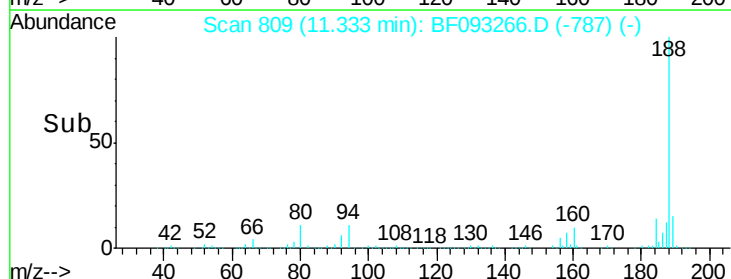
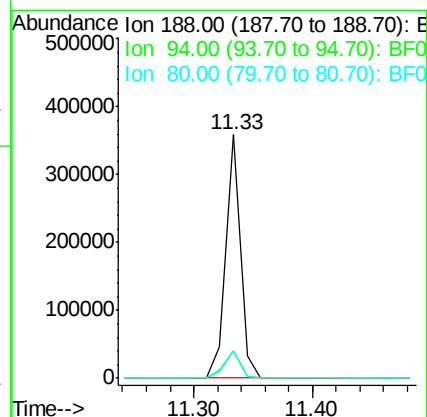
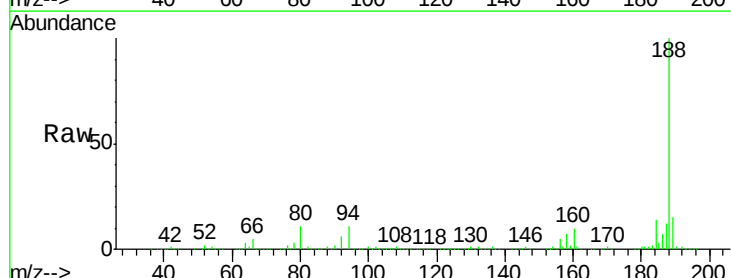
RT: 11.33 min Scan# 809

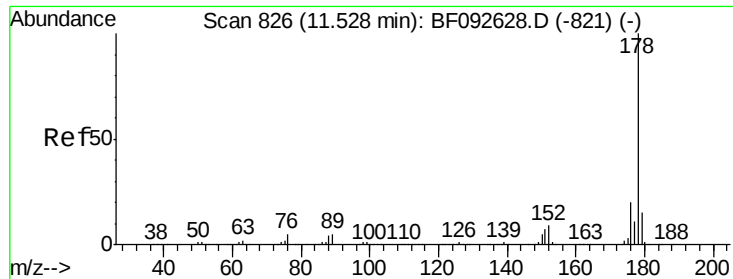
Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	302051		
94	11.0	10.0	15.0	
80	11.1	11.2	16.8#	





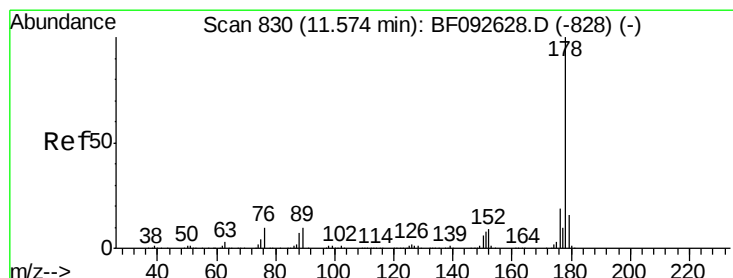
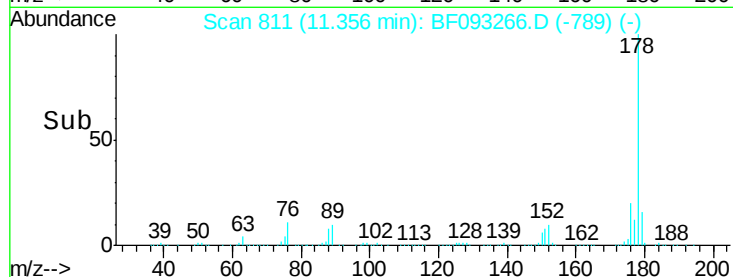
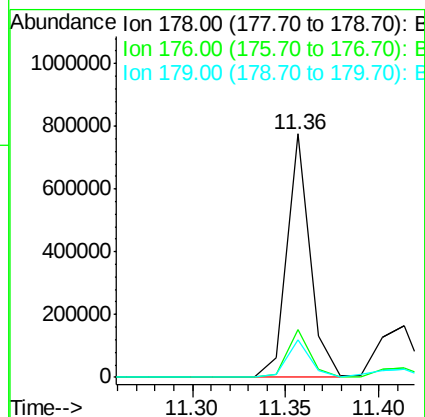
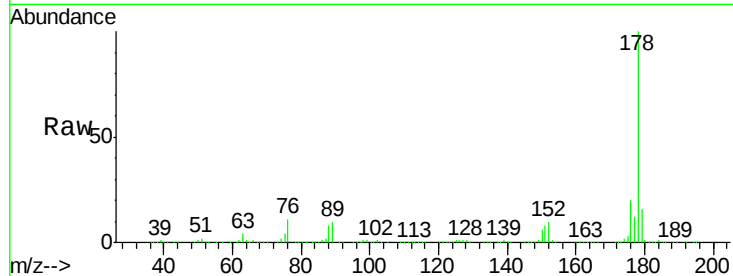
#70
Phenanthrene
Concen: 38.55 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion:178 Resp: 667104
Ion Ratio Lower Upper
178 100
176 19.8 16.6 25.0
179 15.5 12.8 19.2

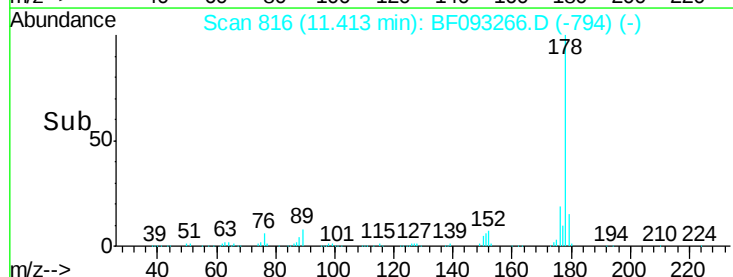
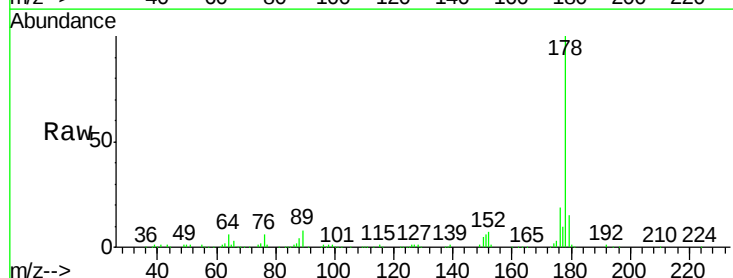
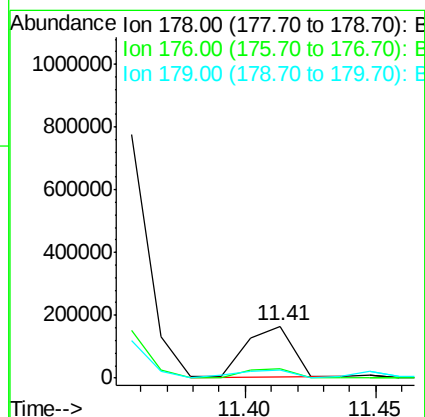
Manual Integrations
APPROVED

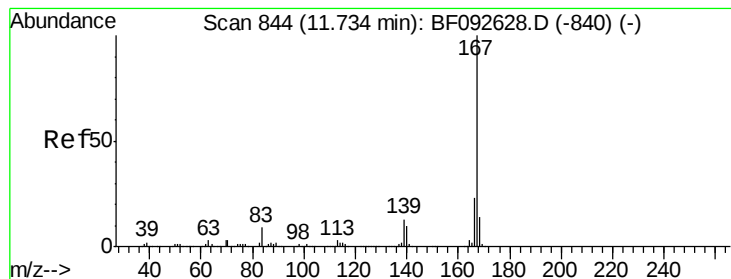
mohammad
3/1/2017 4:06:55 PM



#71
Anthracene
Concen: 11.48 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion:178 Resp: 199439
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 15.4 13.2 19.8





#72

Carbazole

Concen: 2.24 ng

RT: 11.57 min Scan# 830

Delta R.T. -0.03 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Instrument :

BNA_F

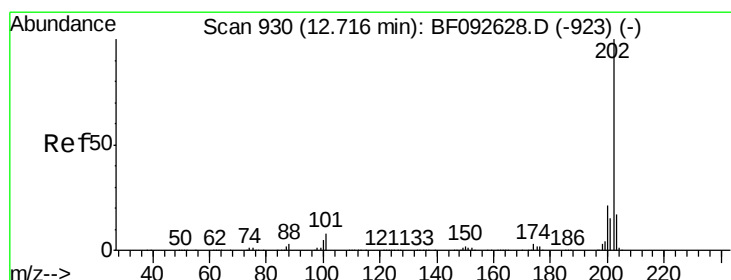
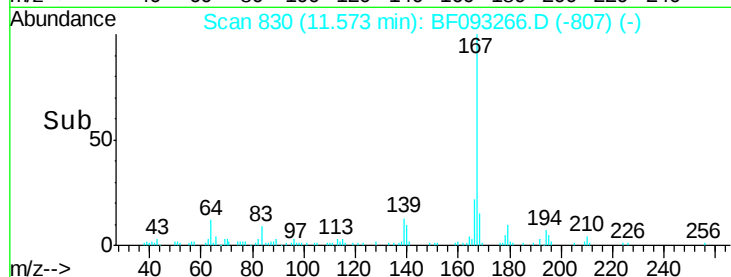
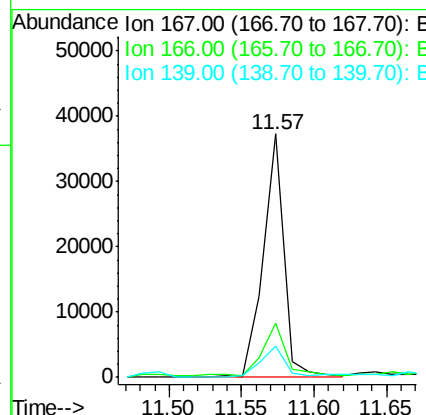
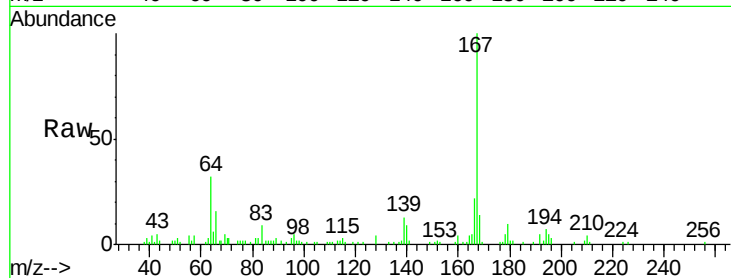
ClientSampleId :

E2-W6-BASEDL

Tgt Ion:	167	Resp:	37157
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.2	27.2
139	12.6	11.4	17.2

Manual Integrations
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3/1/2017 4:06:55 PM



#74

Fluoranthene

Concen: 51.56 ng

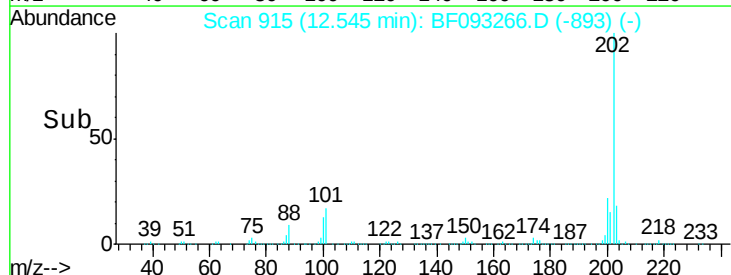
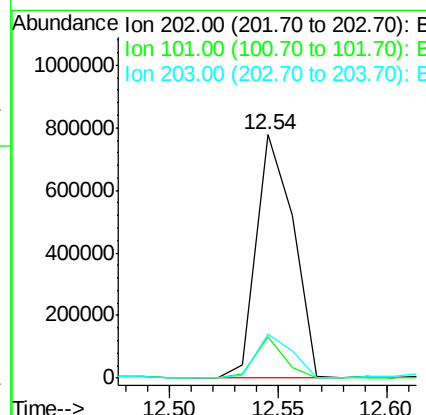
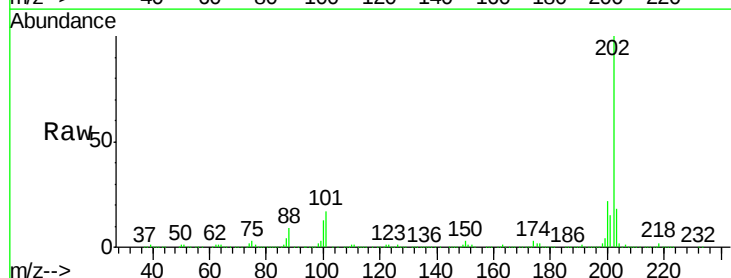
RT: 12.54 min Scan# 915

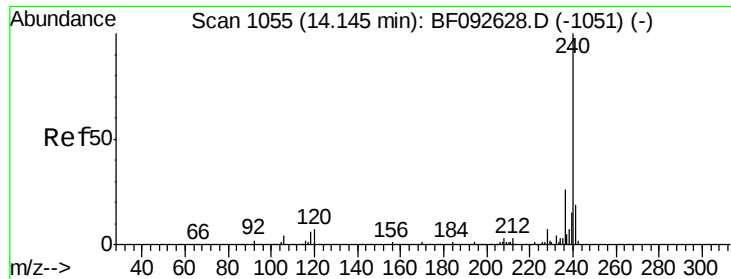
Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Tgt Ion:	202	Resp:	920387
Ion Ratio	Lower	Upper	
202	100		
101	16.9	0.0	34.6
203	18.3	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1040

Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

Instrument :

BNA_F

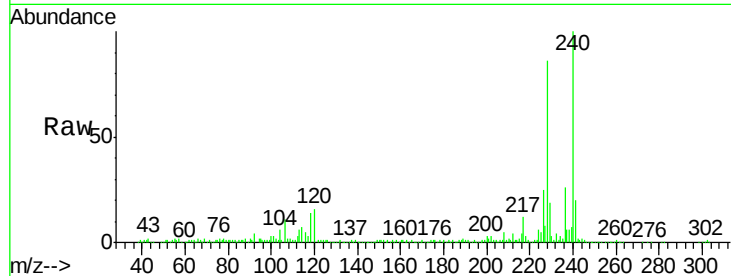
ClientSampleId :

E2-W6-BASEDL

Tgt	Ion	240	Resp:	270998
Ion	Ratio	Lower	Upper	
240	100			
120	16.3	12.9	19.3	
236	26.1	20.9	31.3	

Manual Integrations
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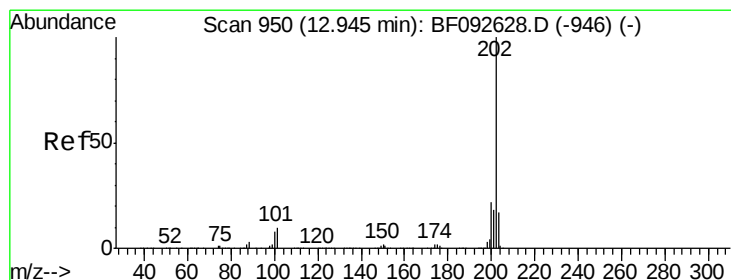
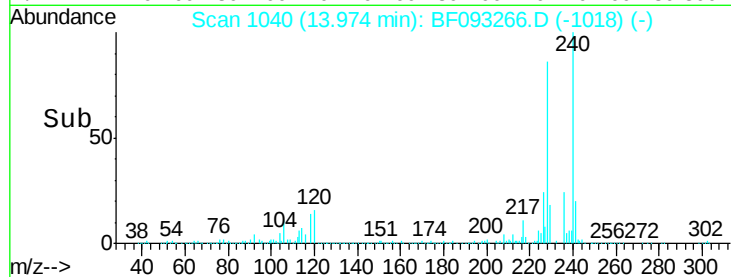
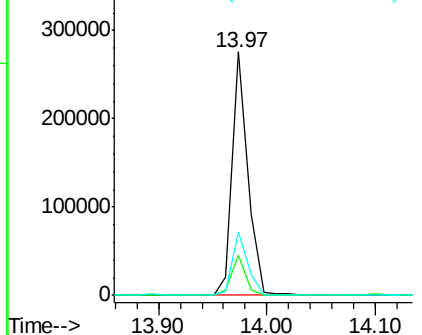
mohammad
3/1/2017 4:06:55 PM



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: 45.18 ng

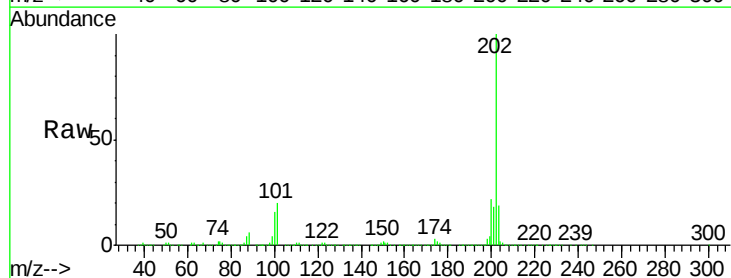
RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093266.D

Acq: 1 Mar 2017 1:47

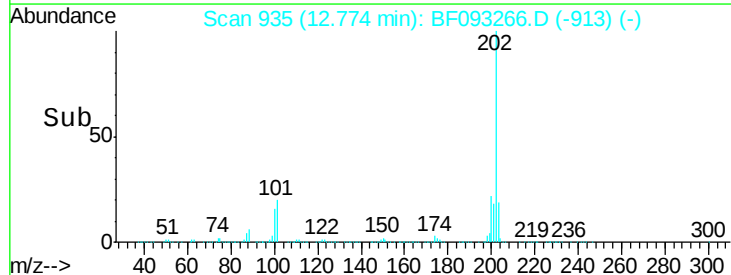
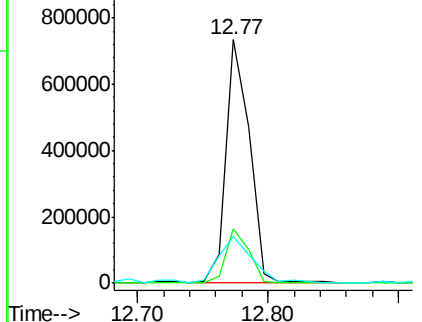
Tgt	Ion	202	Resp:	916345
Ion	Ratio	Lower	Upper	
202	100			
200	22.1	17.7	26.5	
203	19.3	14.7	22.1	

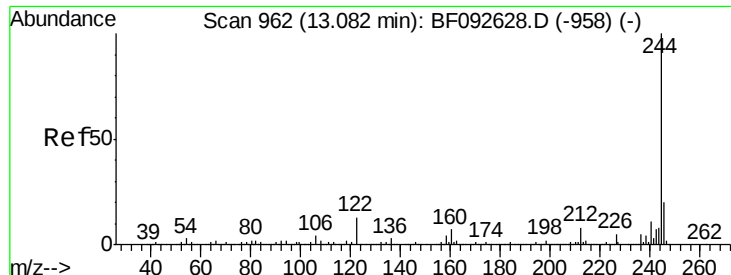


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





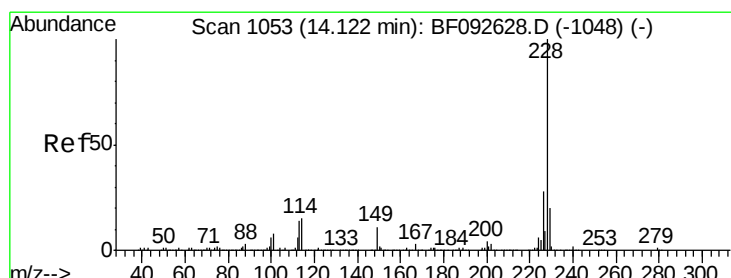
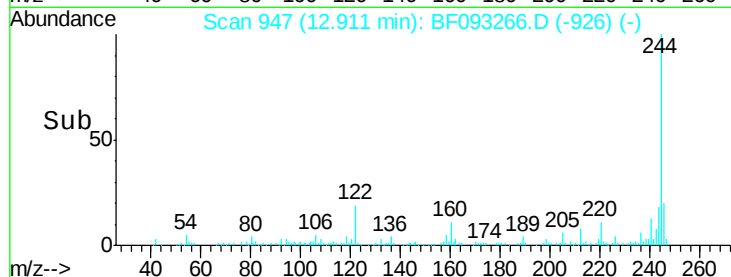
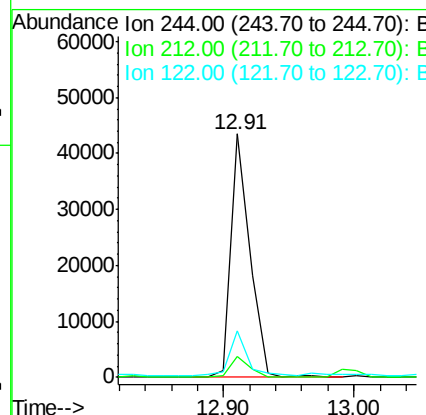
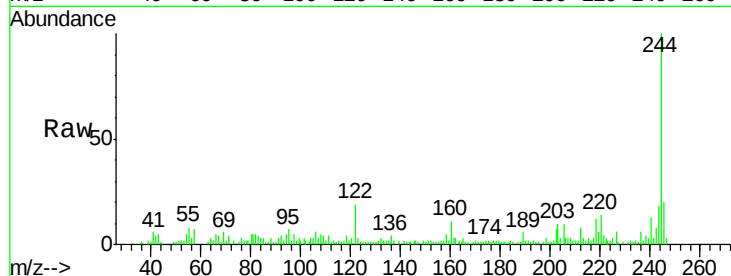
#78
 Terphenyl-d14
 Concen: 3.84 ng
 RT: 12.91 min Scan# 947
 Delta R.T. -0.06 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

Instrument :
 BNA_F
 ClientSampleId :
 E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.4	6.2	9.2
122	18.9	11.4	17.2

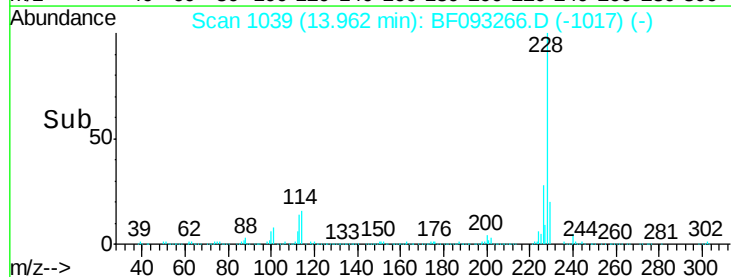
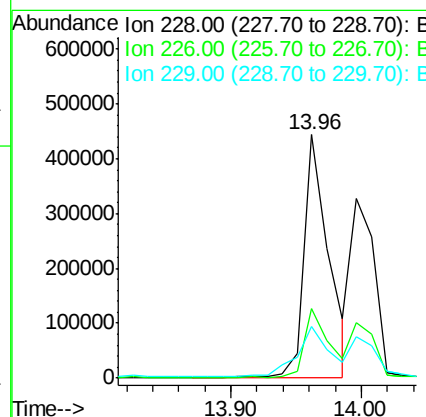
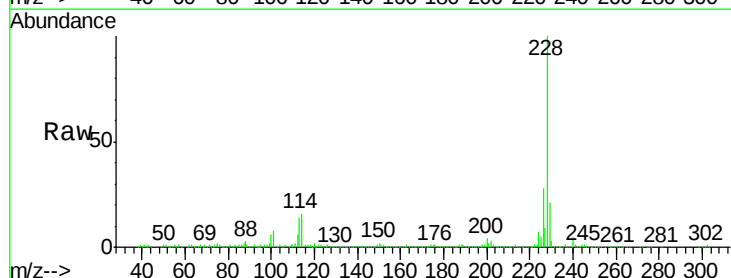
Manual Integrations
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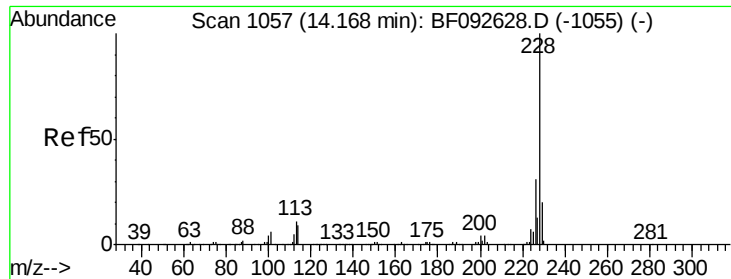
mohammad
 3/1/2017 4:06:55 PM



#80
 Benzo(a)anthracene
 Concen: 34.89 ng
 RT: 13.96 min Scan# 1039
 Delta R.T. -0.05 min
 Lab File: BF093266.D
 Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.4	33.6
229	21.3	16.2	24.4





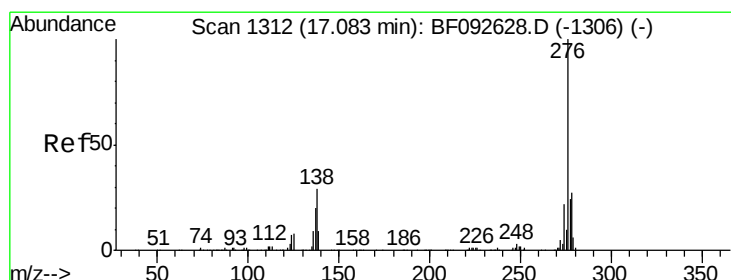
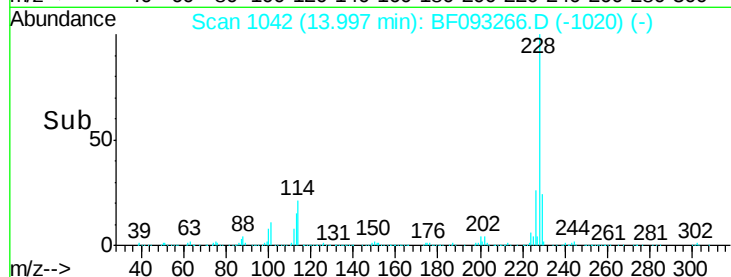
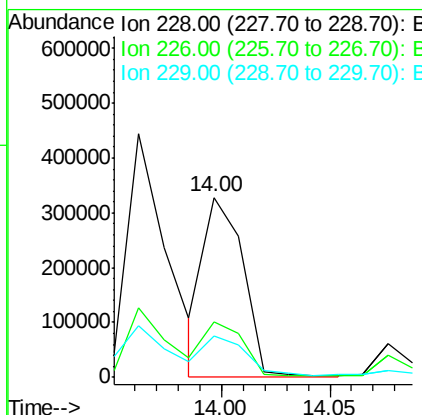
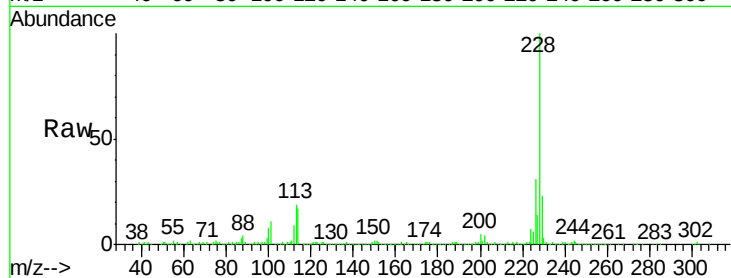
#82
Chrysene
Concen: 26.41 ng
RT: 14.00 min Scan# 1042
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.4	38.0
229	23.3	16.2	24.2

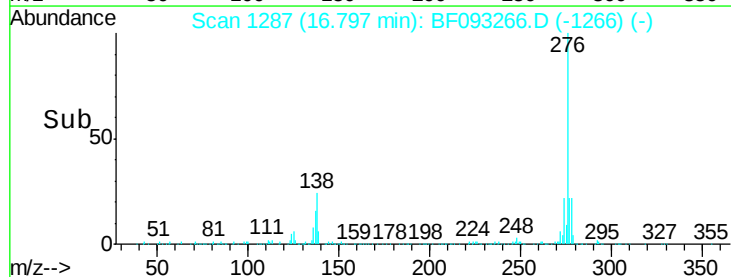
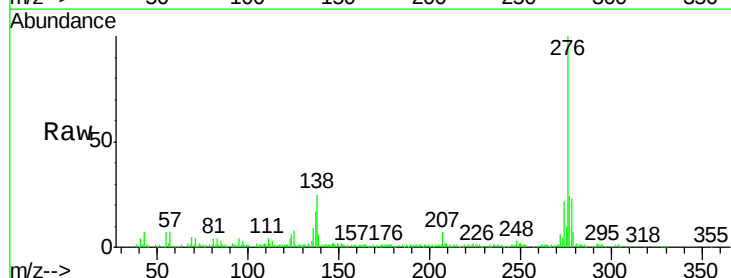
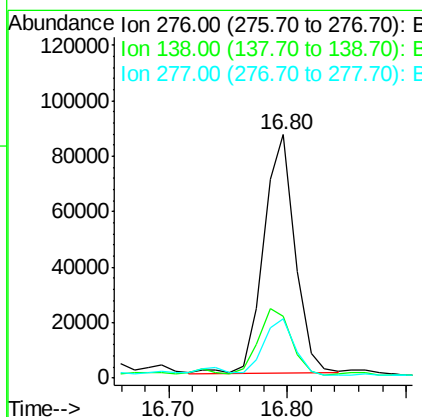
Manual Integrations
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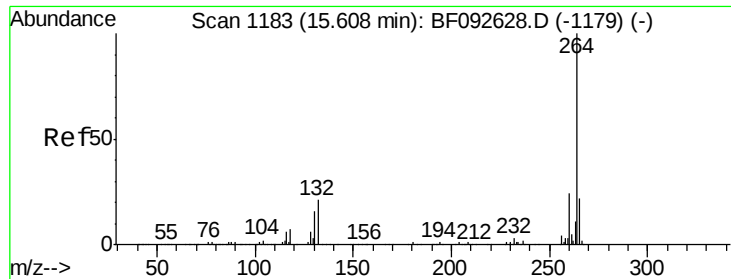
mohammad
3/1/2017 4:06:55 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.06 ng
RT: 16.80 min Scan# 1287
Delta R.T. -0.06 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.9	21.8	32.6
277	23.1	20.2	30.4





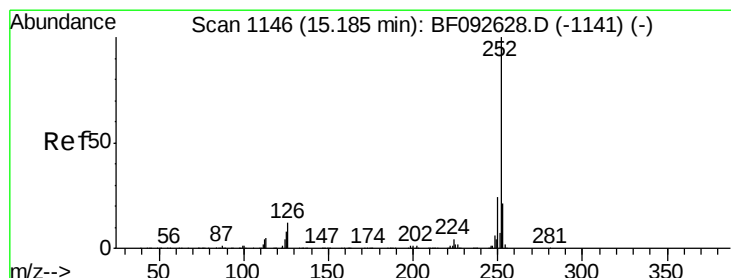
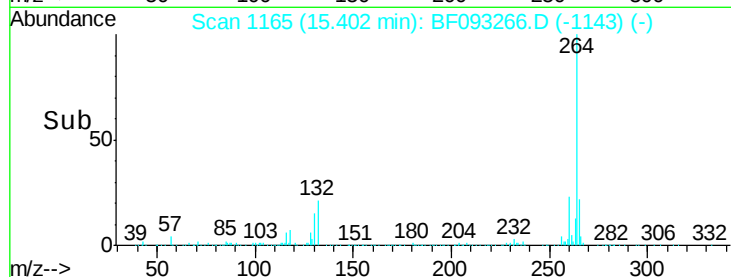
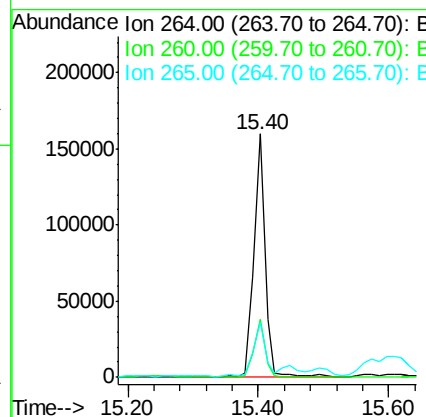
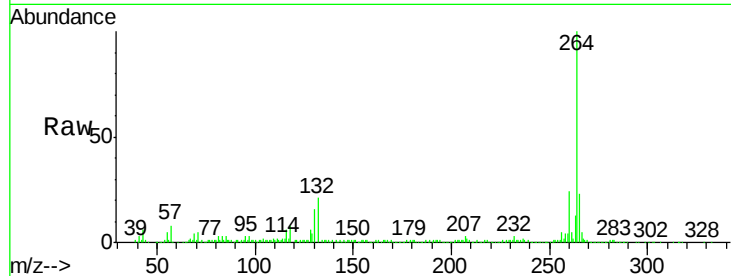
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.8	17.4	26.0

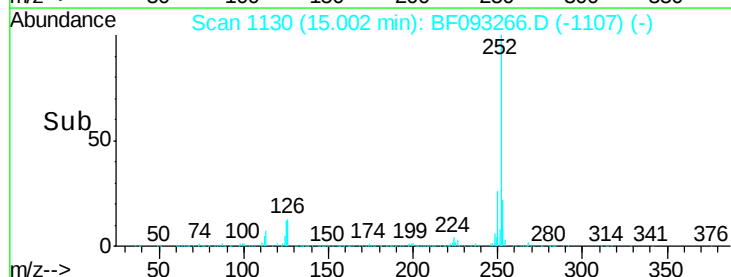
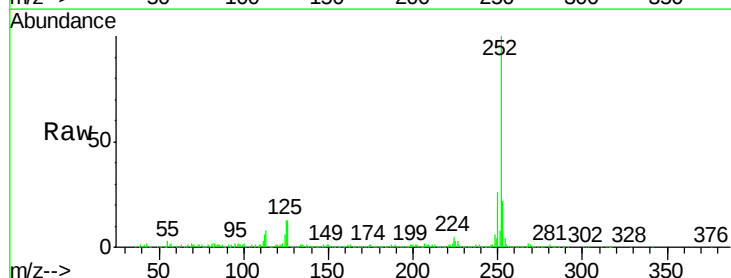
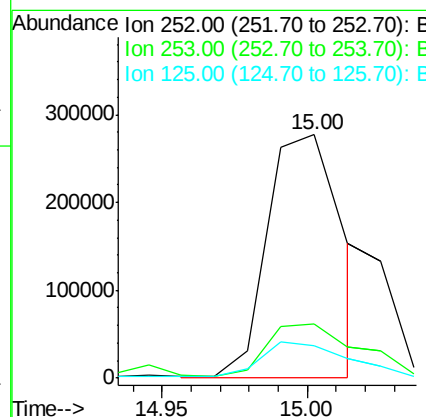
Manual Integrations
APPROVED

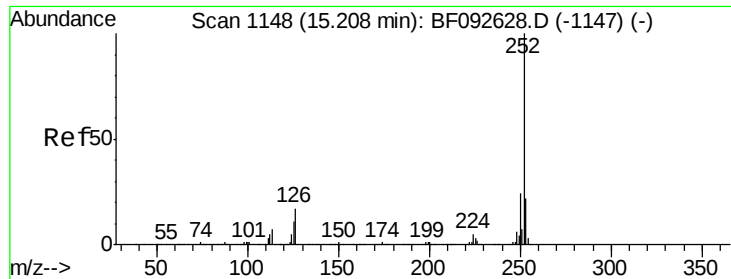
mohammad
3/1/2017 4:06:55 PM



#87
Benzo(b)fluoranthene
Concen: 39.76 ng m
RT: 15.00 min Scan# 1130
Delta R.T. -0.03 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.4
125	13.2	9.8	14.6





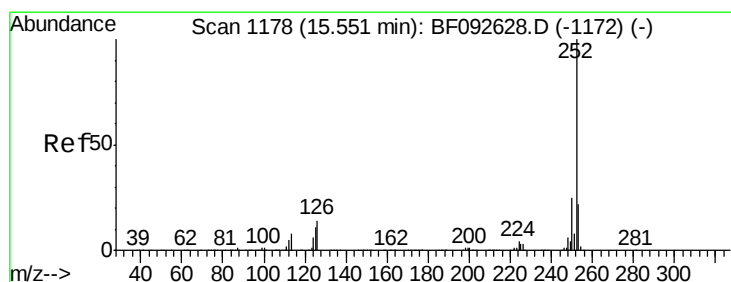
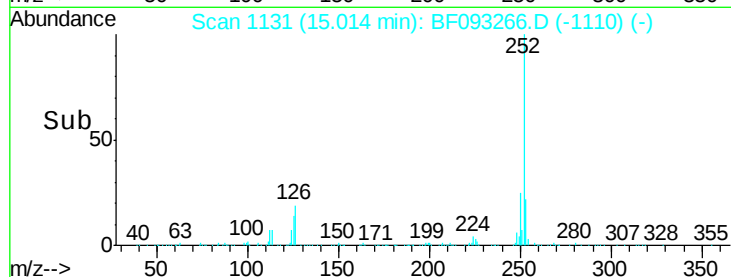
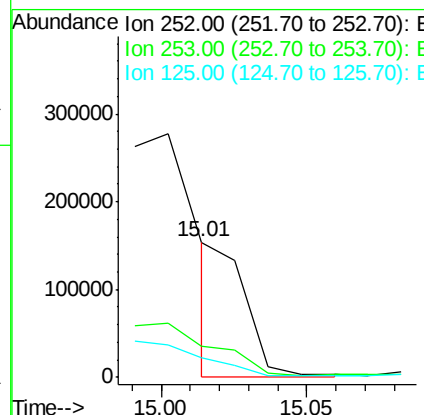
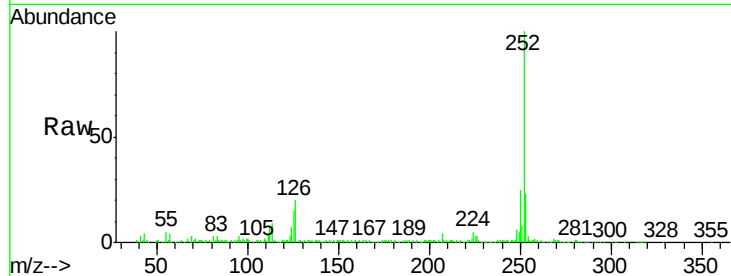
#88
Benzo(k)fluoranthene
Concen: 9.68 ng m
RT: 15.01 min Scan# 1131
Delta R.T. -0.06 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.5	27.7
125	14.8	8.9	13.3#

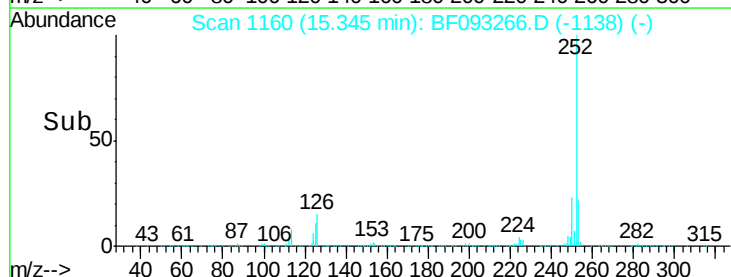
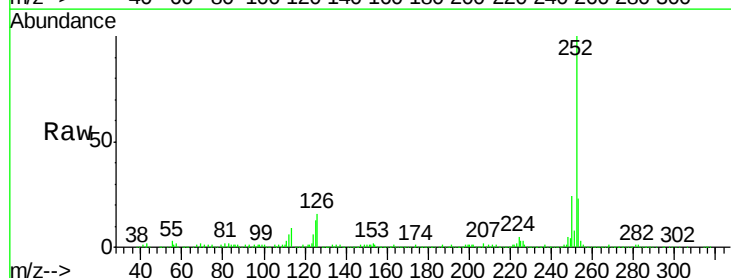
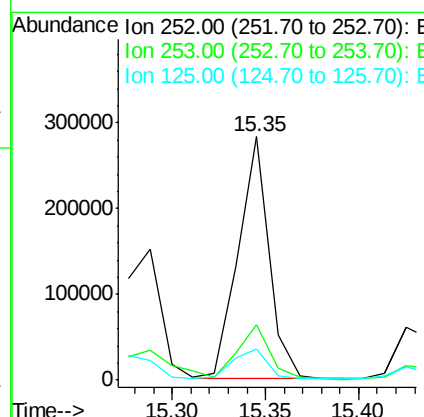
Manual Integrations
APPROVED

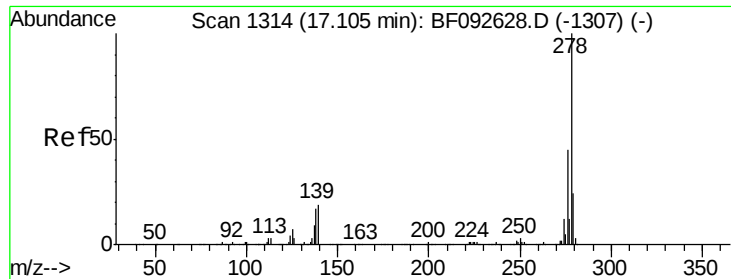
mohammad
3/1/2017 4:06:55 PM



#89
Benzo(a)pyrene
Concen: 30.27 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.05 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.2
125	12.8	10.0	15.0





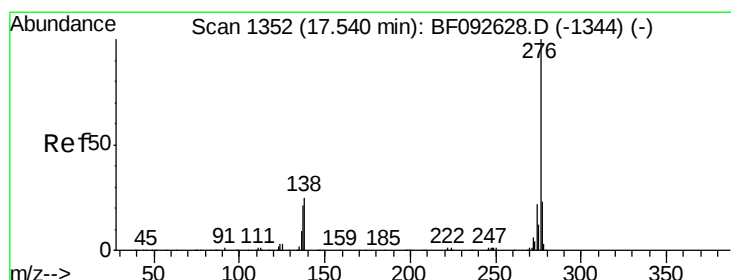
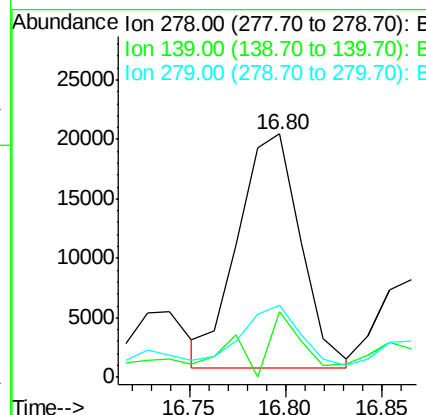
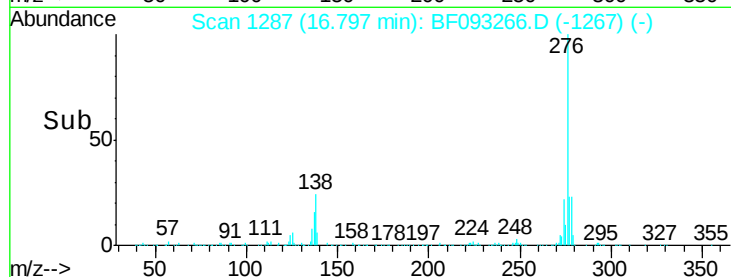
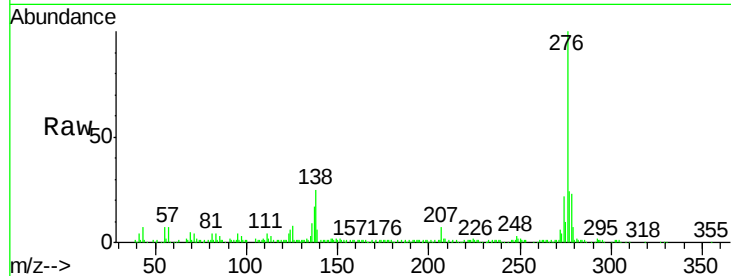
#90
Dibenzo(a,h)anthracene
Concen: 5.11 ng m
RT: 16.80 min Scan# 1287
Delta R.T. -0.07 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Instrument :
BNA_F
ClientSampleId :
E2-W6-BASEDL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.0	14.8	22.2#
279	29.5	19.8	29.6

Manual Integrations
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3/1/2017 4:06:55 PM



#91
Benzo(g,h,i)perylene
Concen: 17.45 ng
RT: 17.22 min Scan# 1324
Delta R.T. -0.07 min
Lab File: BF093266.D
Acq: 1 Mar 2017 1:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.2	28.8
138	26.4	16.0	24.0#

