

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092316\
 Data File : BE092412.D
 Acq On : 23 Sep 2016 12:43
 Operator : UM/SJ
 Sample : H4803-21
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
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Quant Time: Sep 23 14:17:11 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 22 18:25:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	6362	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	26738	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	19583	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	44128	5.00	ng	0.02
24) Chrysene-d12	21.75	240	65965	5.00	ng	0.00
31) Perylene-d12	24.12	264	55959	5.00	ng	0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.67	112	15387	10.22	ng	-0.02
5) Phenol-d6	7.34	99	19083	8.90	ng	-0.02
8) Nitrobenzene-d5	9.34	82	8095	4.23	ng	-0.02
13) 2,4,6-Tribromophenol	16.32	330	5721	8.24	ng	0.00
14) 2-Fluorobiphenyl	13.45	172	22624	4.88	ng	0.00
26) Terphenyl-d14	20.19	244	41267	5.04	ng	0.02
Target Compounds						
9) Naphthalene	10.99	128	34721	6.00	ng	Qvalue # 95
15) Acenaphthylene	14.53	152	355936	12.55	ng	99
16) Acenaphthene	14.88	154	12213	2.75	ng	95
17) Fluorene	15.87	166	23950	4.25	ng	100
21) Phenanthrene	17.60	178	15920	1.57	ng	# 78
22) Anthracene	17.72	178	27326	2.80	ng	# 77
23) Fluoranthene	19.61	202	90906	1.89	ng	99
25) Pyrene	19.97	202	121965	2.13	ng	100
27) Benzo(a)anthracene	21.72	228	169838m	2.64	ng	
28) Chrysene	21.77	228	192768m	3.27	ng	
30) Indeno(1,2,3-cd)pyrene	26.62	276	228480	3.66	ng	96
32) Benzo(b)fluoranthene	23.38	252	41057	3.03	ng	96
33) Benzo(k)fluoranthene	23.43	252	53800	3.79	ng	94
34) Benzo(a)pyrene	24.01	252	63838	4.81	ng	94
35) Dibenzo(a,h)anthracene	26.63	278	64373	5.29	ng	95
36) Benzo(g,h,i)perylene	27.38	276	133947	2.56	ng	98

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

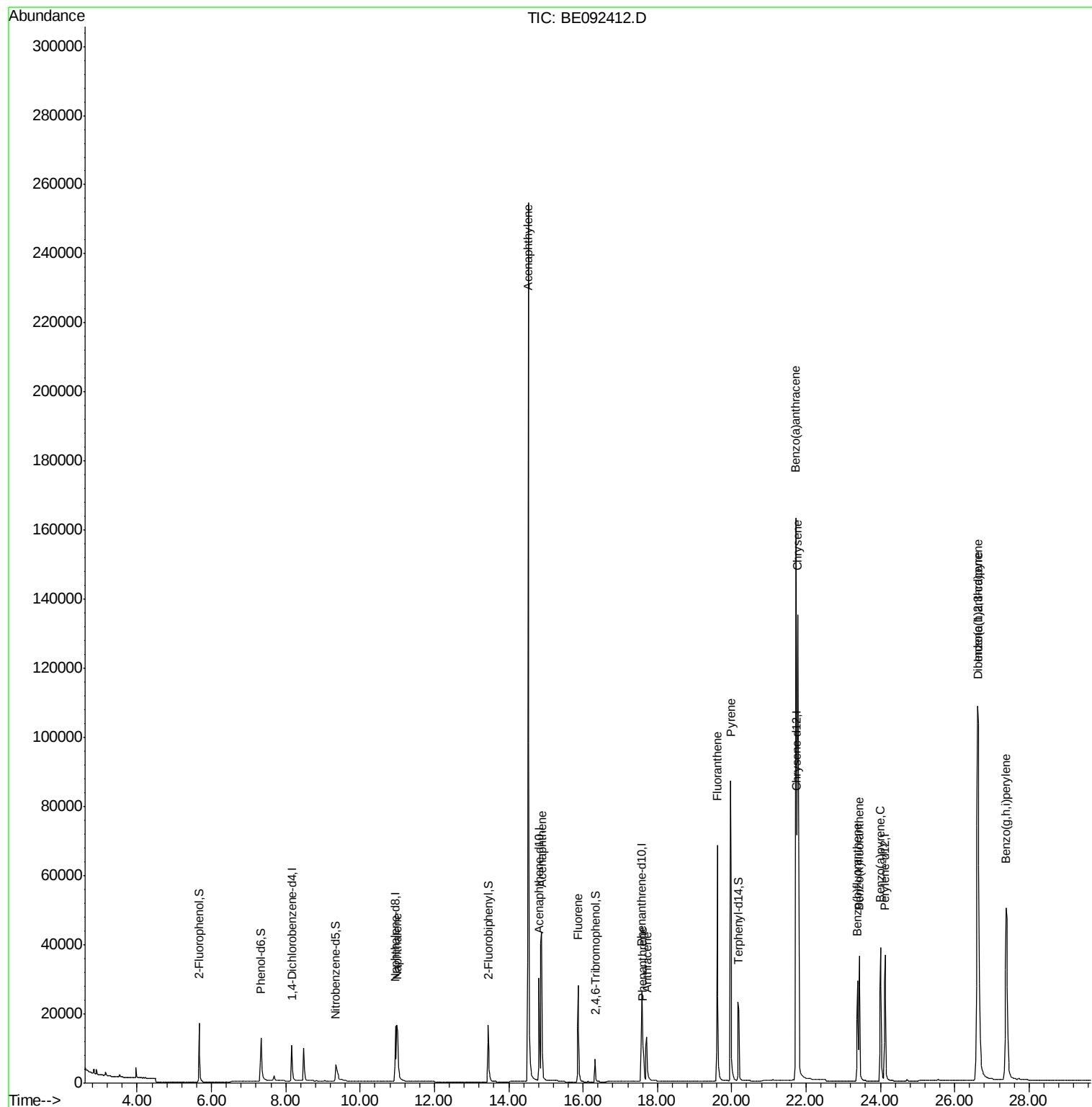
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092316\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

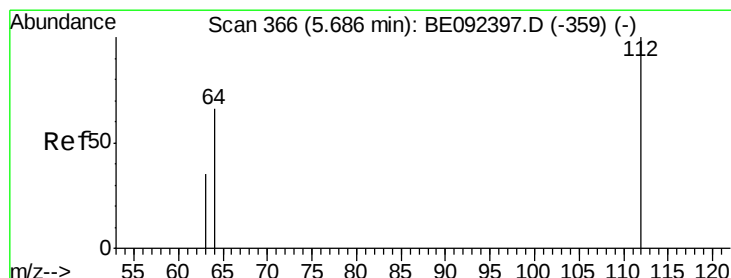
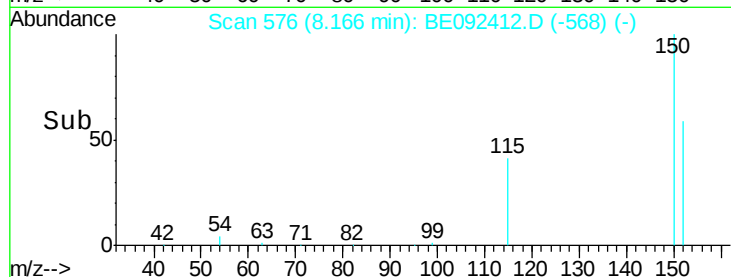
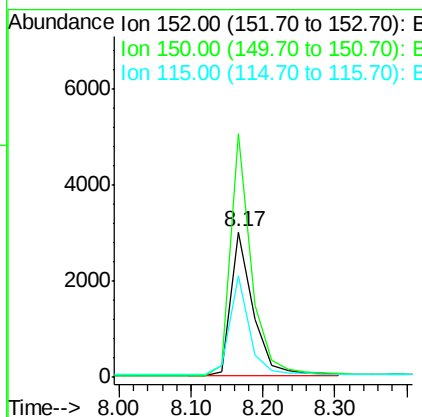
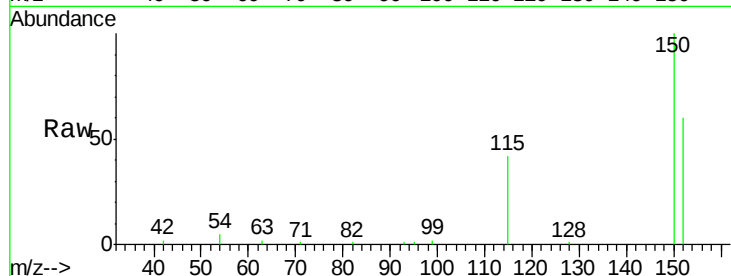
ClientSampled :

RR-PAH-WP

Tot Ion:	152	Resp:	6362
Ion Ratio	Lower	Upper	
152	100		
150	167.2	106.0	159.0#
115	69.9	31.2	46.8#

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#4

2-Fluorophenol

Concen: 10.22 ng

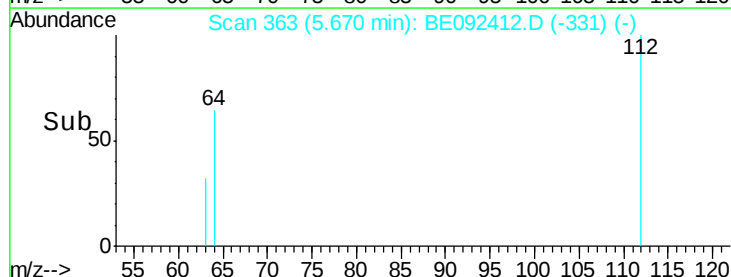
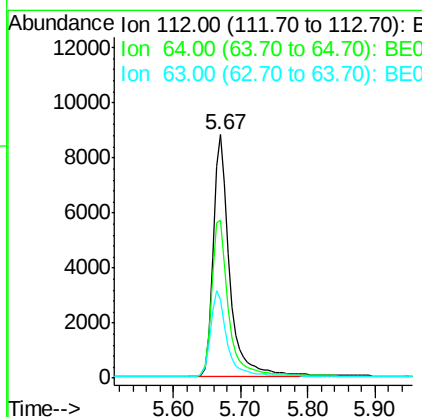
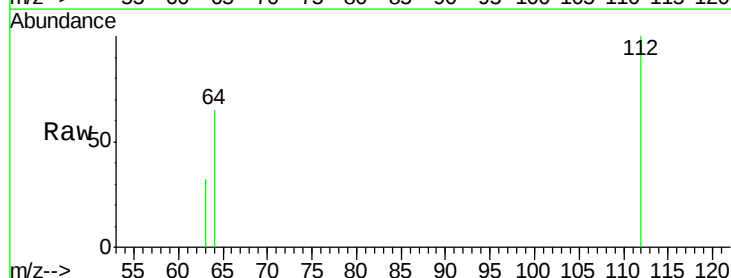
RT: 5.67 min Scan# 363

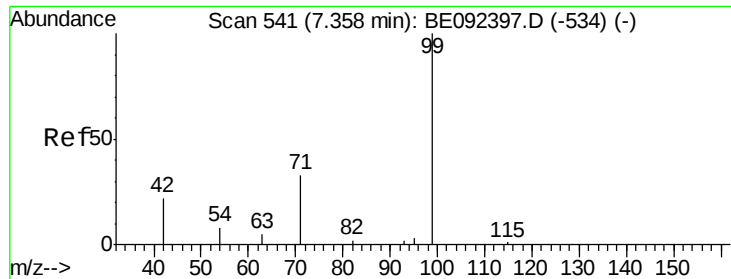
Delta R.T. -0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Tgt Ion:	112	Resp:	15387
Ion Ratio	Lower	Upper	
112	100		
64	67.0	53.5	80.3
63	35.7	27.9	41.9





#5

Phenol-d6

Concen: 8.90 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

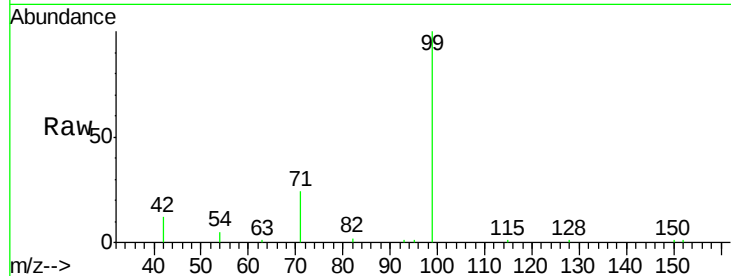
ClientSampleId :

RR-PAH-WP

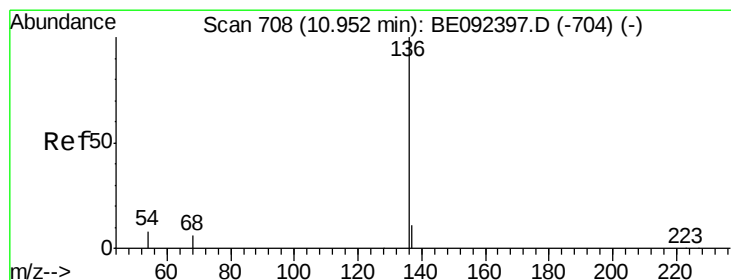
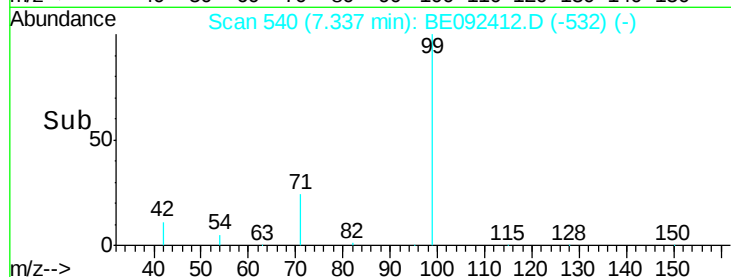
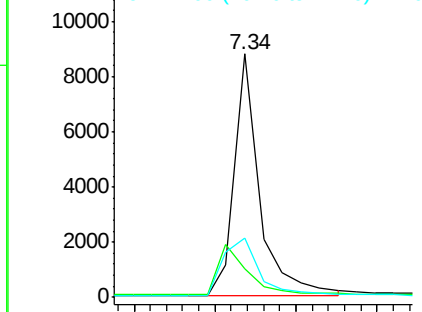
Tot Ion:	99	Resp:	19083
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	34.4	30.6	45.8

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

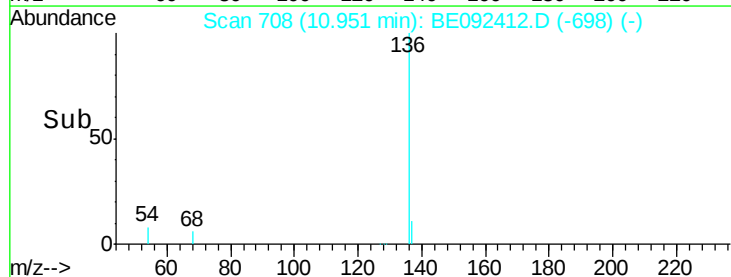
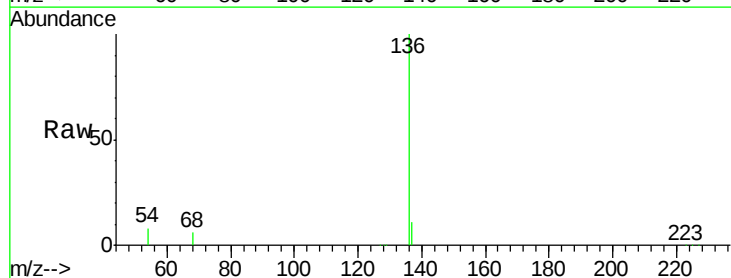
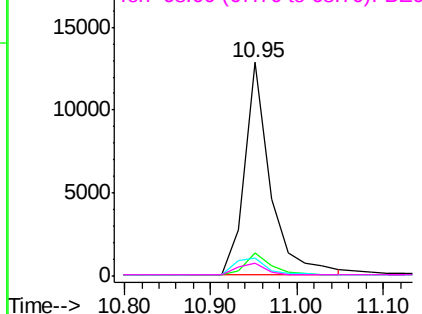
Delta R.T. -0.00 min

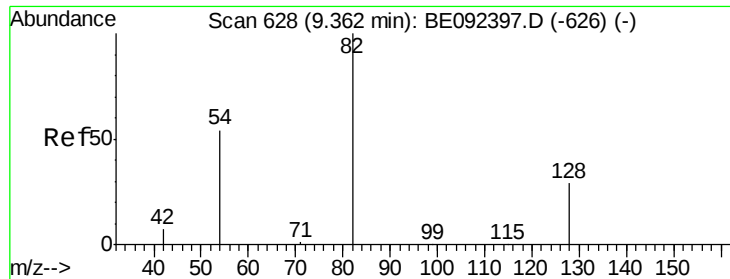
Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Tgt Ion:	136	Resp:	26738
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.2	12.4
54	8.3	9.6	14.4#
68	6.1	6.7	10.1#

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): BE0
Ion 68.00 (67.70 to 68.70): BE0





#8

Nitrobenzene-d5

Concen: 4.23 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

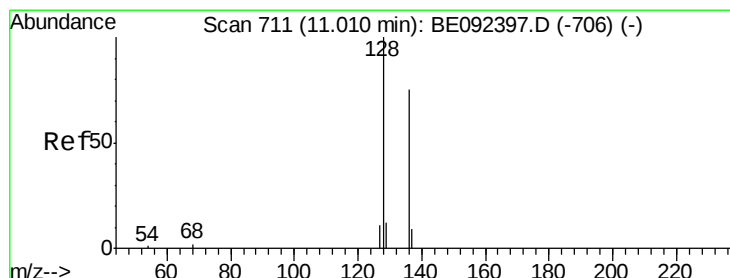
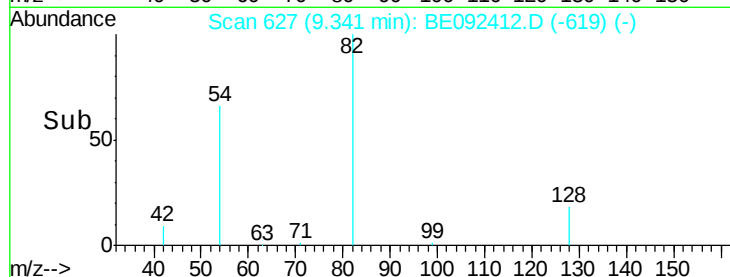
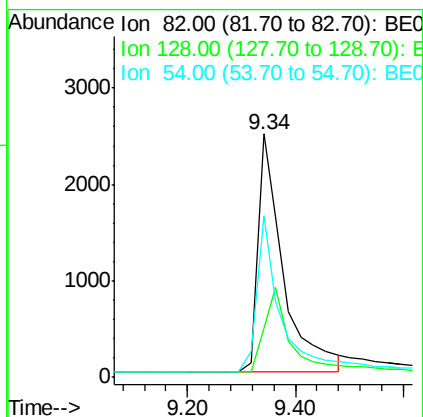
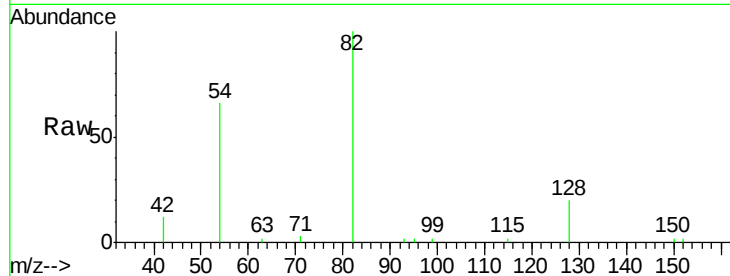
ClientSampleId :

RR-PAH-WP

Tot Ion:	82	Resp:	8095
Ion Ratio	Lower	Upper	
82	100		
128	20.1	39.0	58.4#
54	66.5	44.8	67.2

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#9

Naphthalene

Concen: 6.00 ng

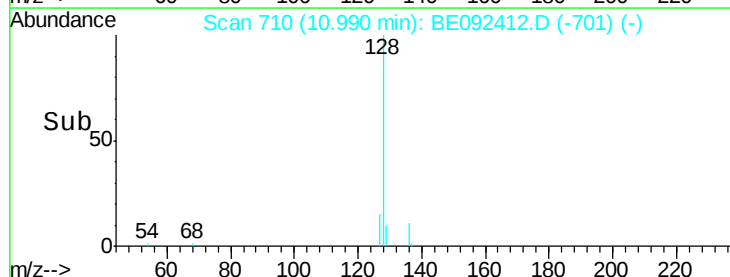
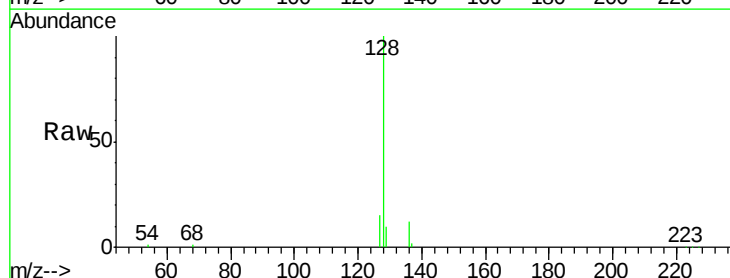
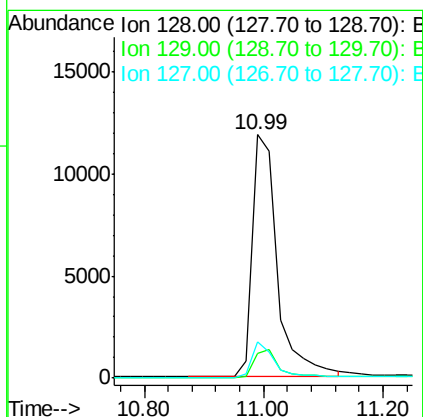
RT: 10.99 min Scan# 710

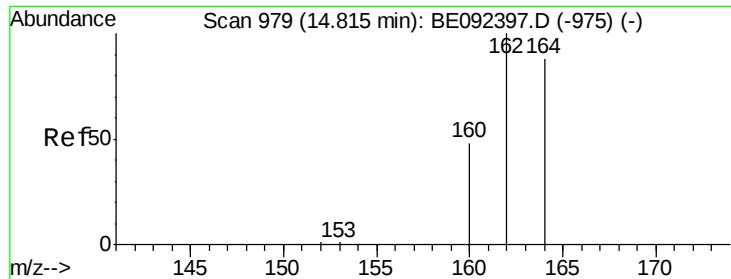
Delta R.T. -0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Tgt Ion:	128	Resp:	34721
Ion Ratio	Lower	Upper	
128	100		
129	10.3	11.2	16.8#
127	14.9	11.6	17.4





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.82 min Scan# 980

Delta R.T. 0.00 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

ClientSampleId :

RR-PAH-WP

Tot Ion:164 Resp: 19583

Ion Ratio Lower Upper

164 100

162 111.0 71.4 107.0#

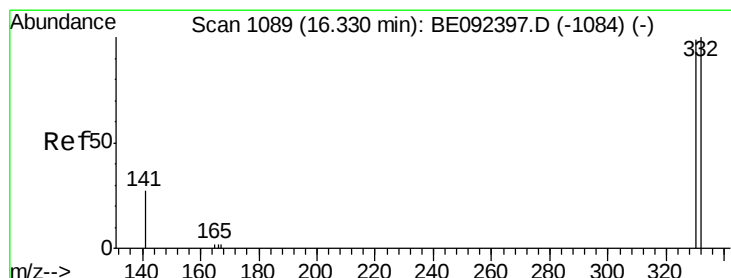
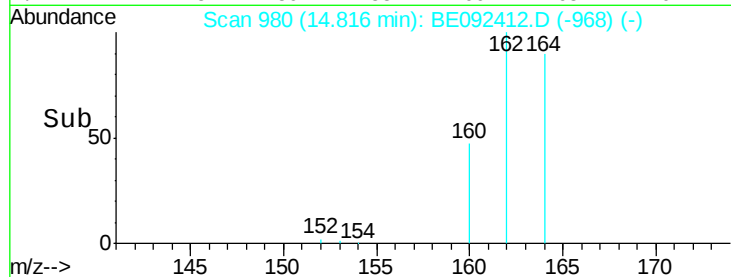
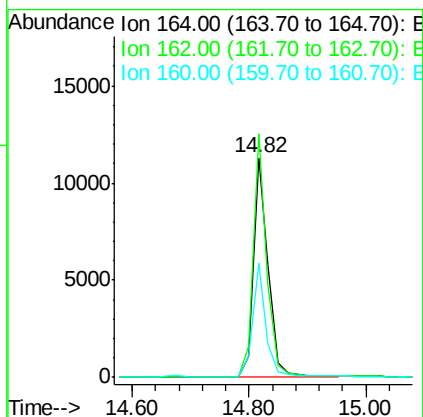
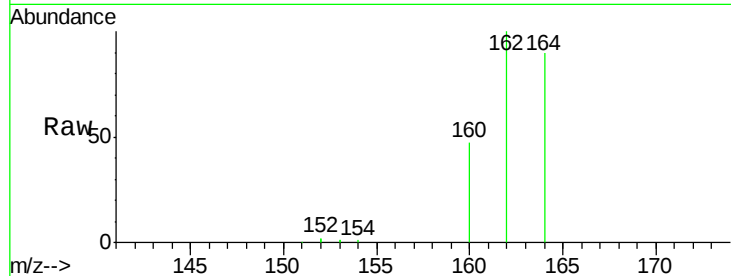
160 52.4 27.4 41.2#

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#13

2,4,6-Tribromophenol

Concen: 8.24 ng

RT: 16.32 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

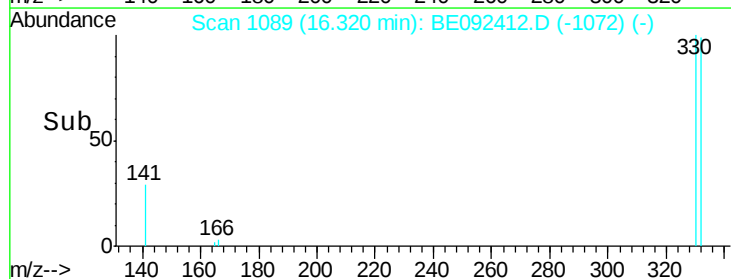
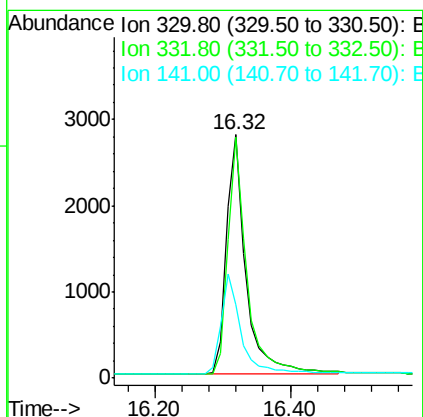
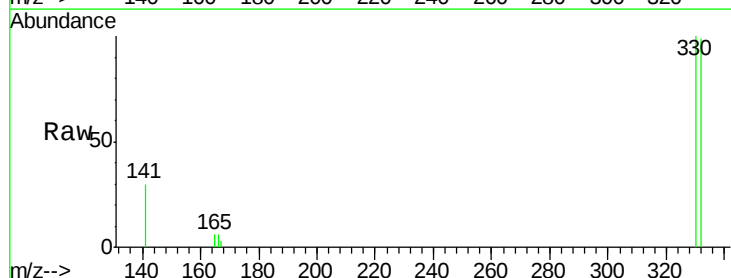
Tgt Ion:330 Resp: 5721

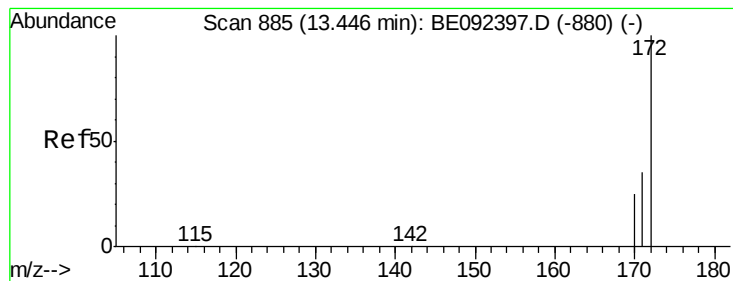
Ion Ratio Lower Upper

330 100

332 96.4 75.4 113.0

141 42.2 31.0 46.6





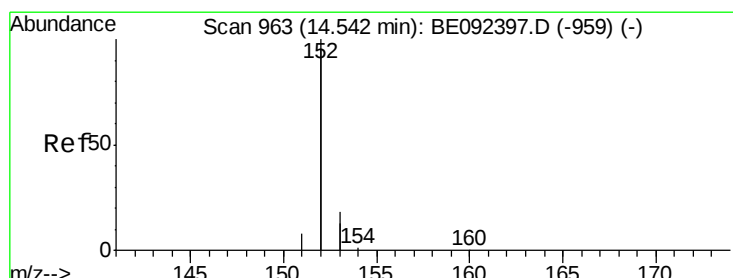
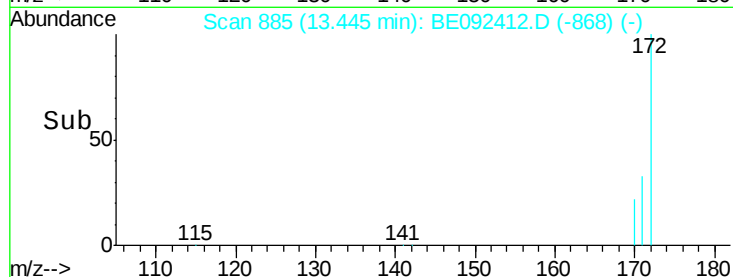
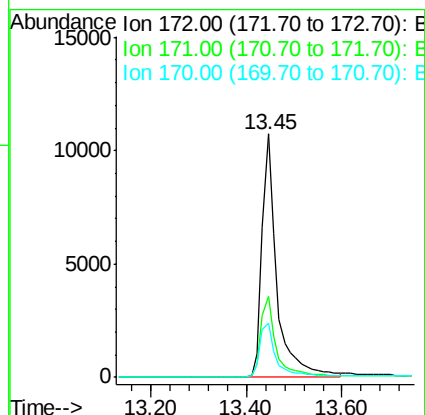
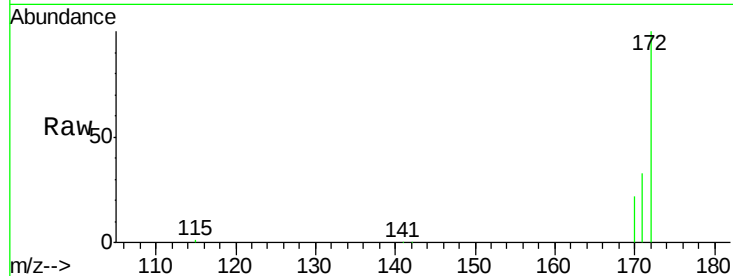
#14
2-Fluorobiphenyl
Concen: 4.88 ng
RT: 13.45 min Scan# 885
Delta R.T. -0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.3	30.1	45.1
170	22.1	21.8	32.6

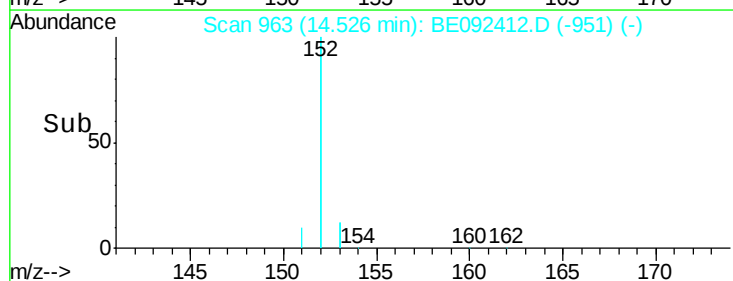
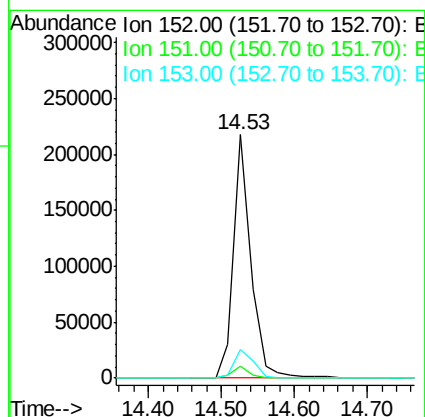
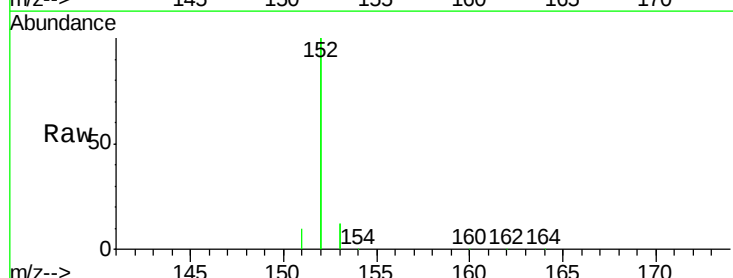
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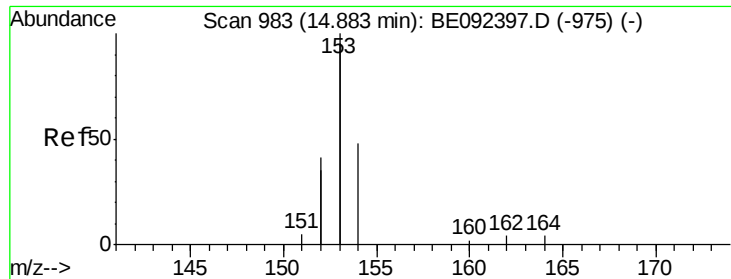
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#15
Acenaphthylene
Concen: 12.55 ng
RT: 14.53 min Scan# 963
Delta R.T. 0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.3	10.4	15.6





#16

Acenaphthene

Concen: 2.75 ng

RT: 14.88 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

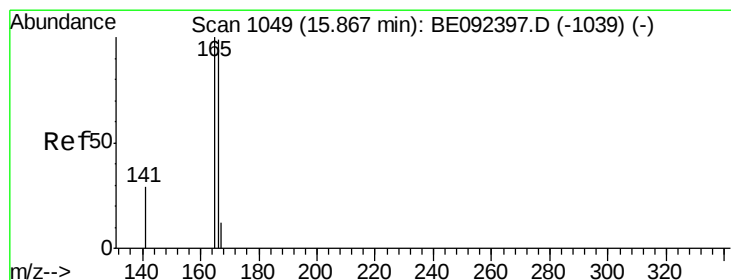
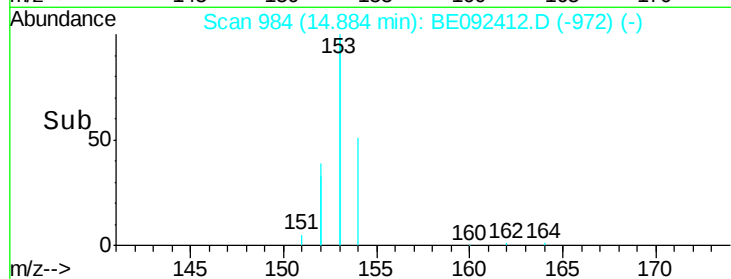
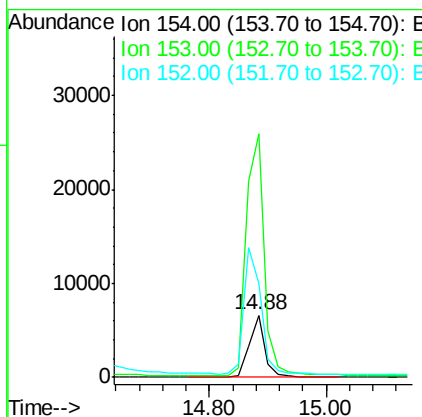
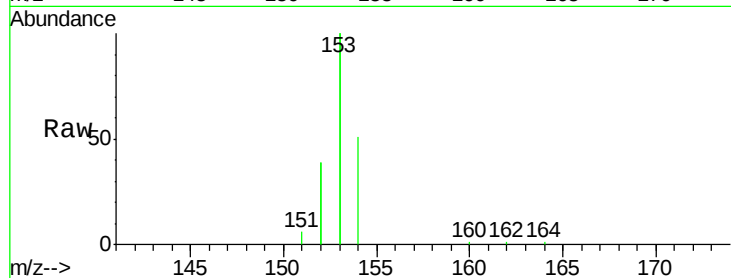
ClientSampleId :

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Tot Ion:	154	Resp:	12213
Ion	Ratio	Lower	Upper
154	100		
153	449.8	350.8	526.2
152	224.7	171.1	256.7

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#17

Fluorene

Concen: 4.25 ng

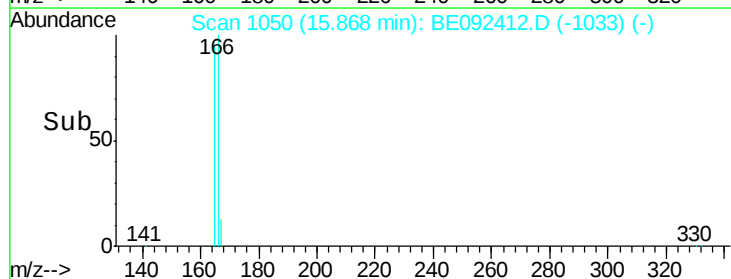
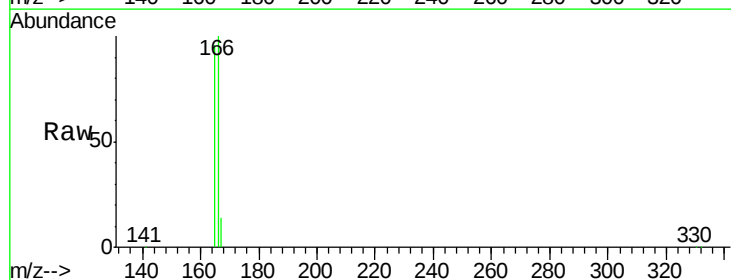
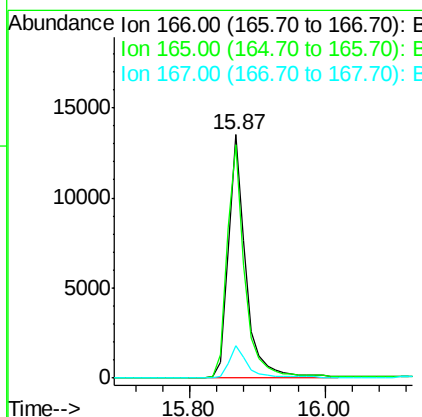
RT: 15.87 min Scan# 1050

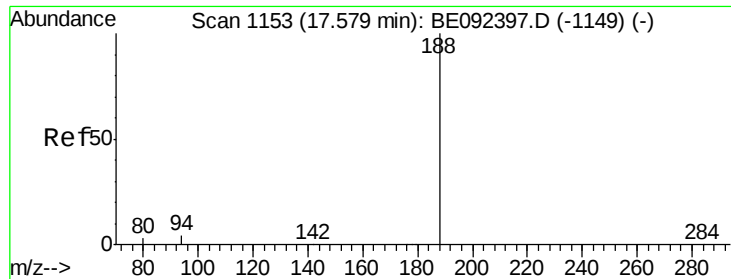
Delta R.T. 0.00 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Tgt Ion:	166	Resp:	23950
Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.4
167	13.2	11.0	16.4





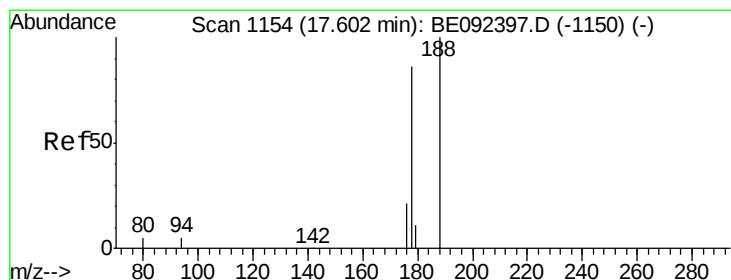
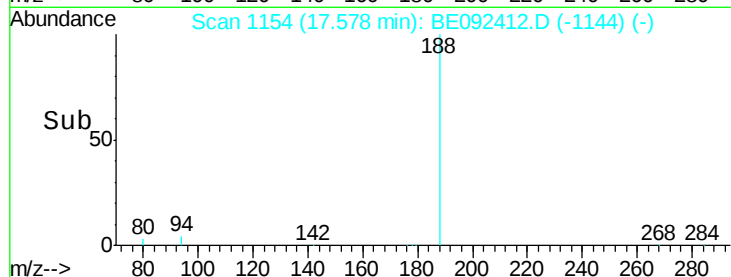
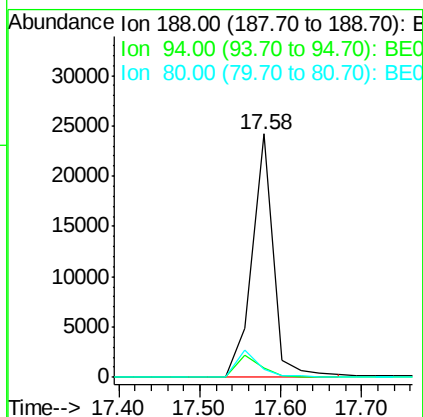
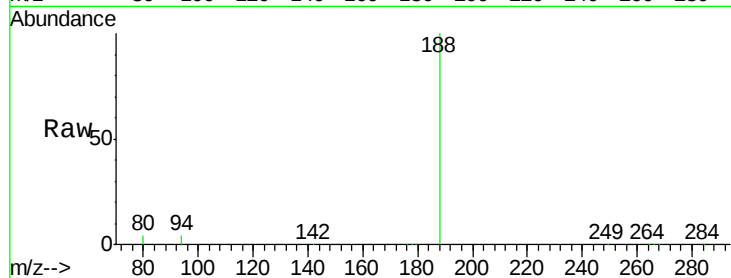
#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.58 min Scan# 1154
Delta R.T. 0.02 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
188	100		
94	4.0	3.2	4.8
80	3.5	2.6	3.8

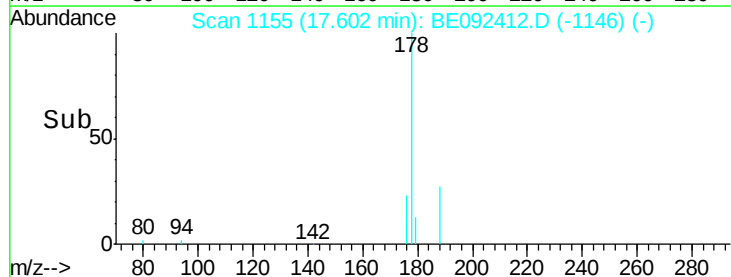
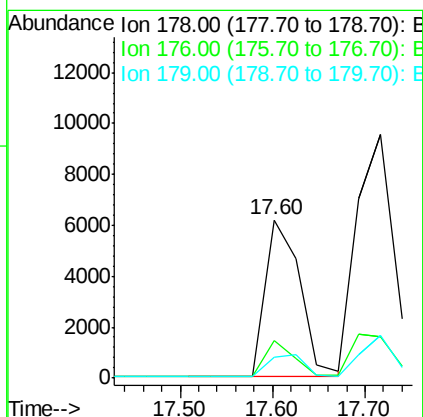
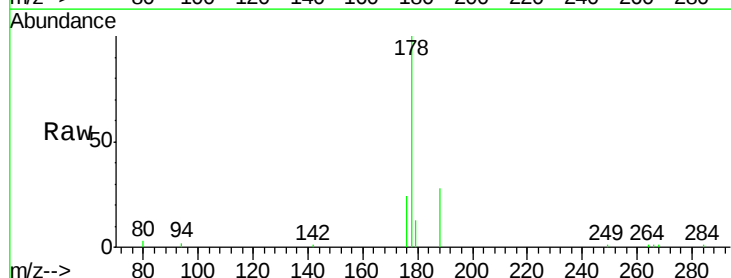
Manual Integrations
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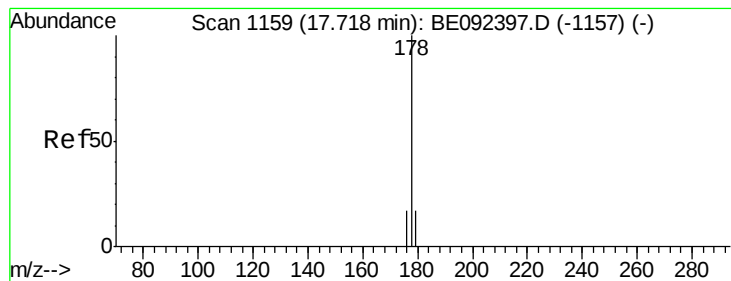
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9/26/2016 5:56:00 PM



#21
Phenanthrene
Concen: 1.57 ng
RT: 17.60 min Scan# 1155
Delta R.T. -0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	0.0	16.0	24.0#





#22

Anthracene

Concen: 2.80 ng

RT: 17.72 min Scan# 1160

Delta R.T. 0.02 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

Instrument :

BNA_E

ClientSampled :

RR-PAH-WP

Tot Ion:178 Resp: 27326

Ion Ratio Lower Upper

178 100

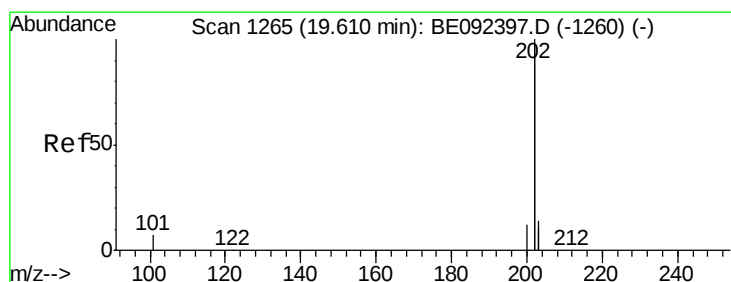
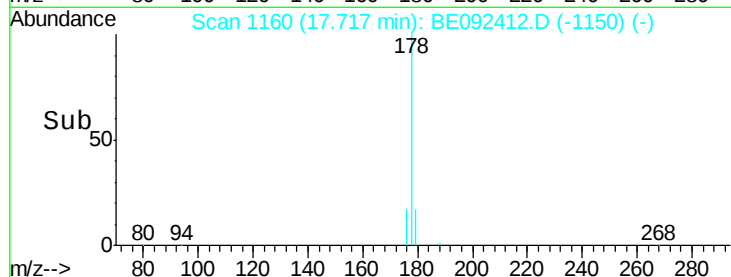
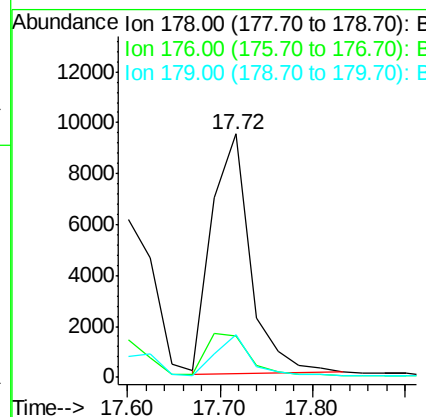
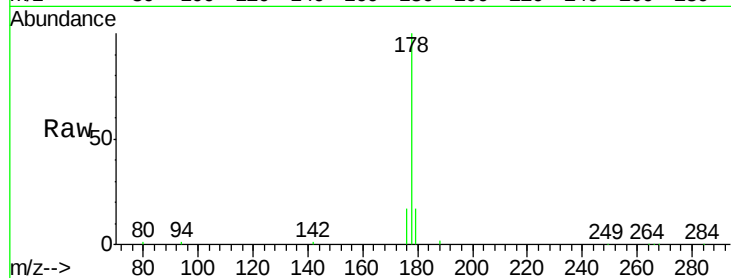
176 0.0 15.0 22.4#

179 15.0 12.2 18.2

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#23

Fluoranthene

Concen: 1.89 ng

RT: 19.61 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE092412.D

Acq: 23 Sep 2016 12:43

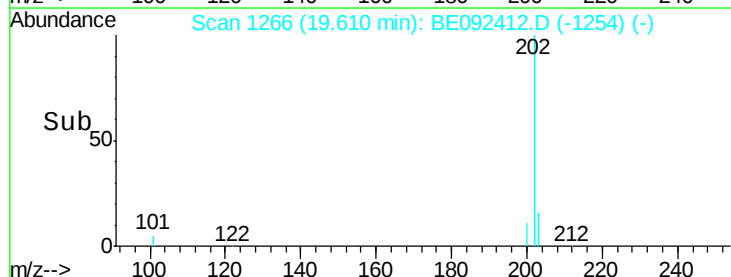
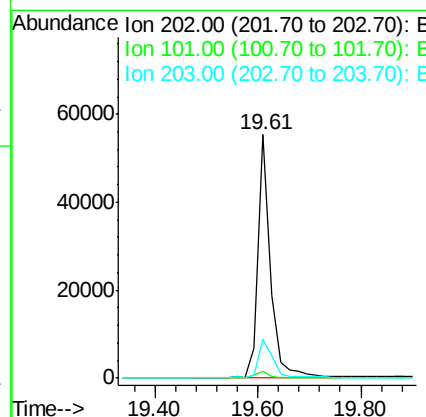
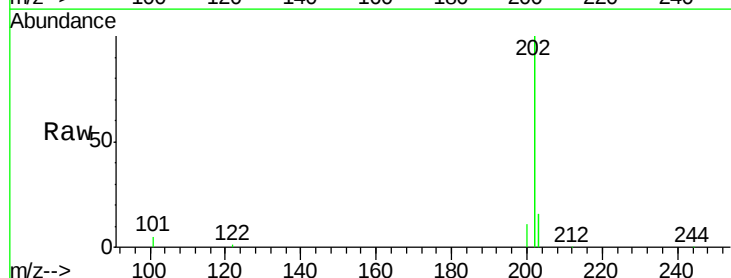
Tgt Ion:202 Resp: 90906

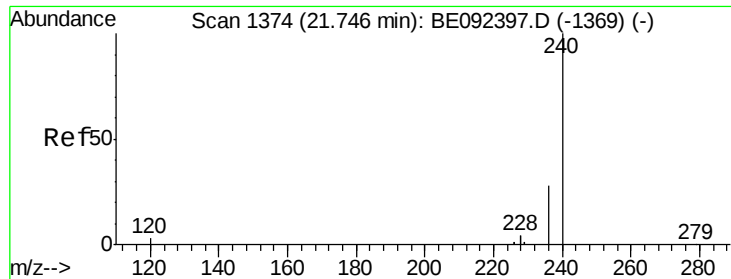
Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

203 17.6 13.7 20.5





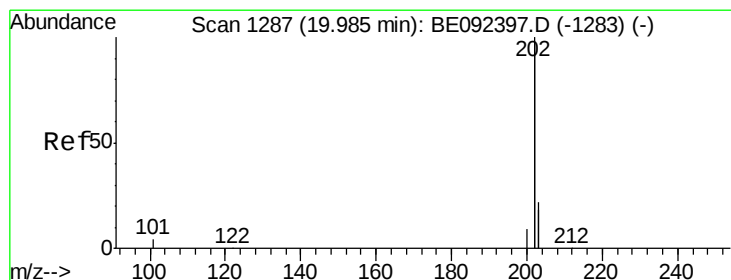
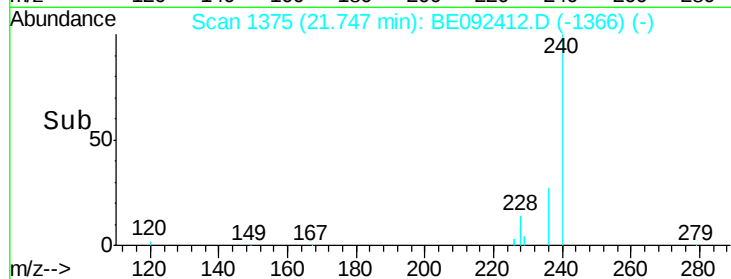
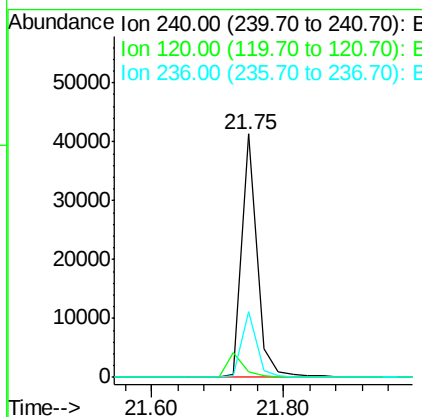
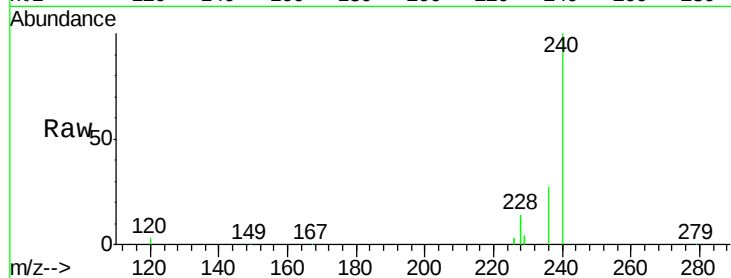
#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampled :
RR-PAH-WP

Tot Ion:240 Resp: 65965
Ion Ratio Lower Upper
240 100
120 2.5 2.6 4.0#
236 26.9 24.6 37.0

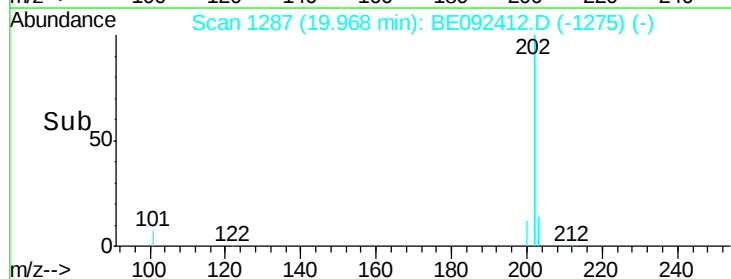
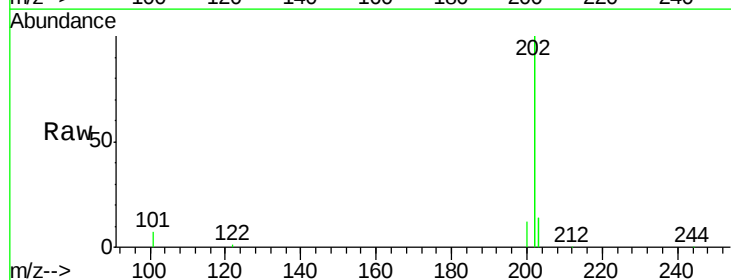
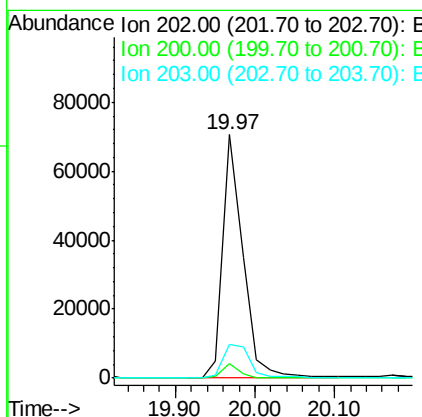
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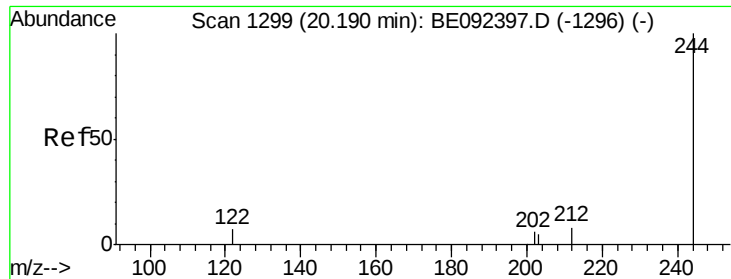
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#25
Pyrene
Concen: 2.13 ng
RT: 19.97 min Scan# 1287
Delta R.T. -0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion:202 Resp: 121965
Ion Ratio Lower Upper
202 100
200 5.3 4.2 6.4
203 17.5 13.9 20.9





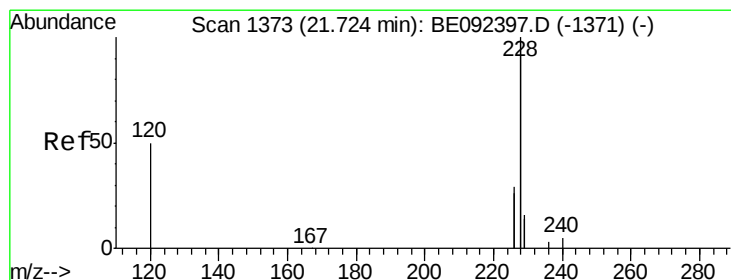
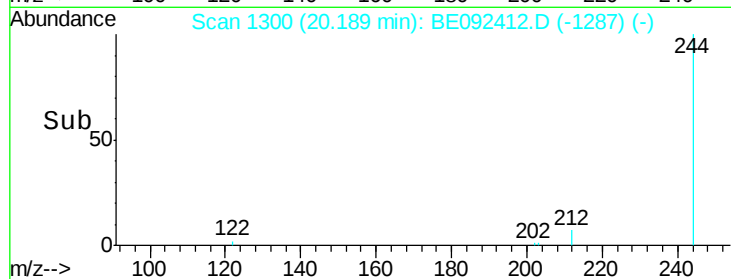
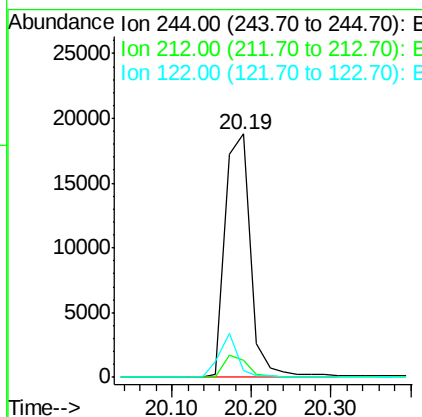
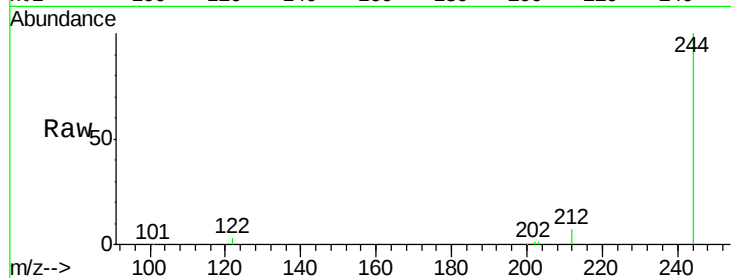
#26
 Terphenyl-d14
 Concen: 5.04 ng
 RT: 20.19 min Scan# 1300
 Delta R.T. 0.02 min
 Lab File: BE092412.D
 Acq: 23 Sep 2016 12:43

Instrument :
 BNA_E
 ClientSampleId :
 RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.7	10.1
122	2.9	3.6	5.4

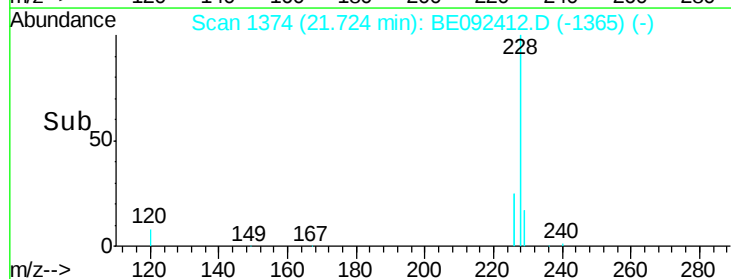
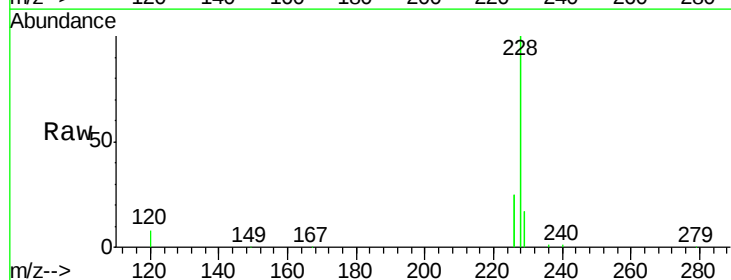
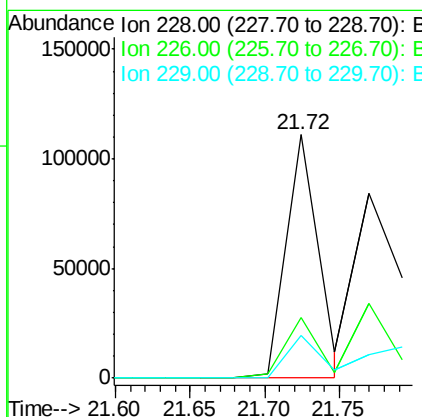
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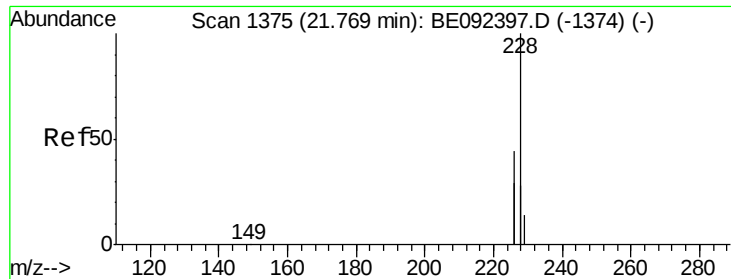
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#27
 Benzo(a)anthracene
 Concen: 2.64 ng m
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: BE092412.D
 Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.0	23.6	35.4
229	17.5	13.3	19.9





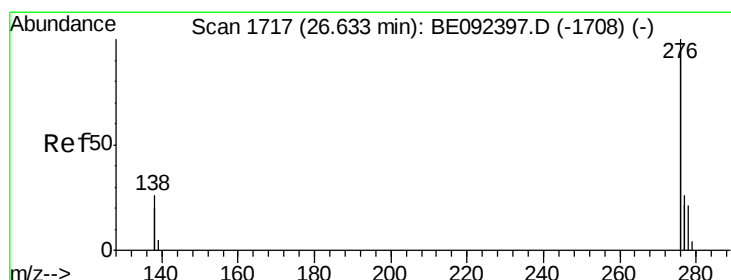
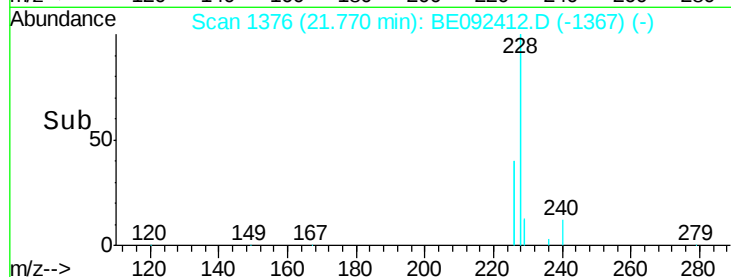
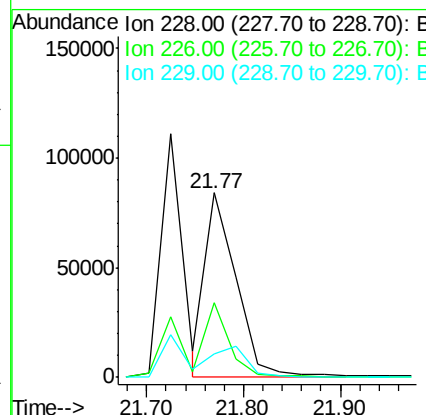
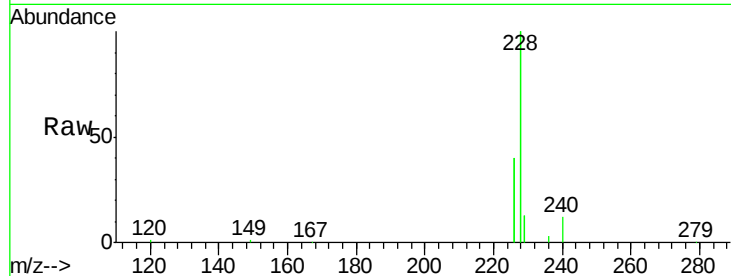
#28
Chrysene
Concen: 3.27 ng/ml
RT: 21.77 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampled :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
228	100		
226	40.2	36.3	54.5
229	12.9	10.6	16.0

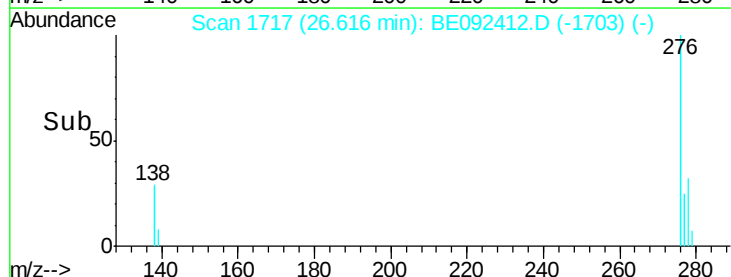
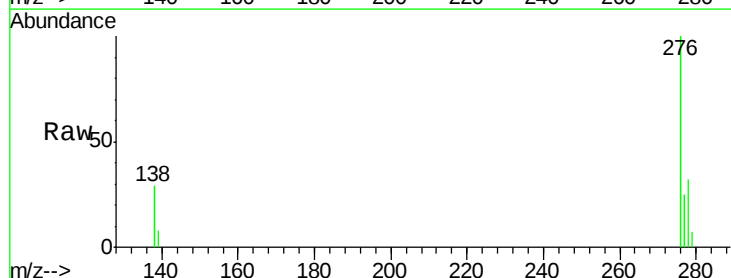
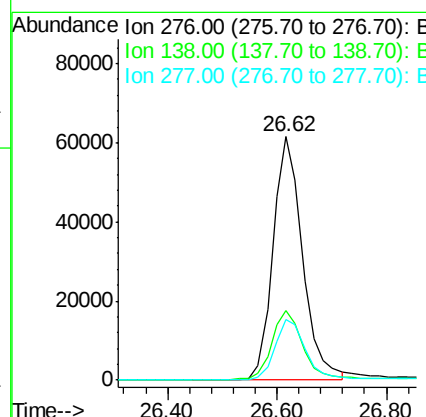
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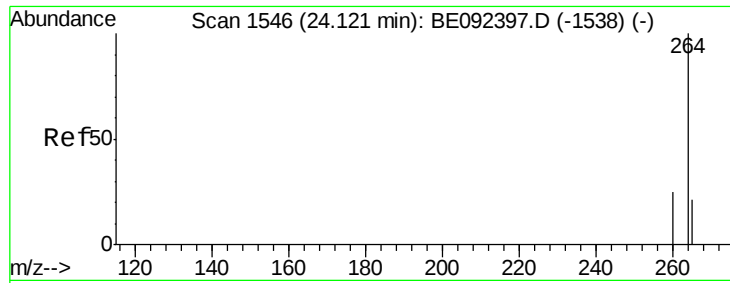
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#30
Indeno(1,2,3-cd)pyrene
Concen: 3.66 ng/ml
RT: 26.62 min Scan# 1717
Delta R.T. 0.04 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
276	100		
138	29.3	20.3	30.5
277	25.1	19.7	29.5





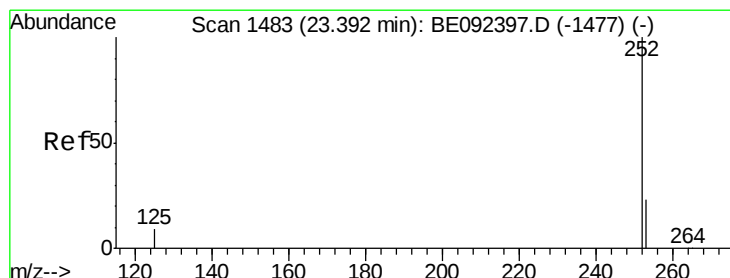
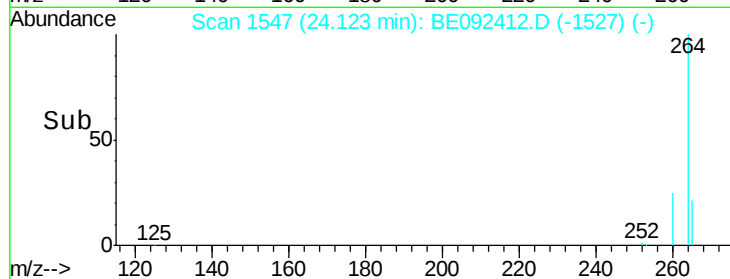
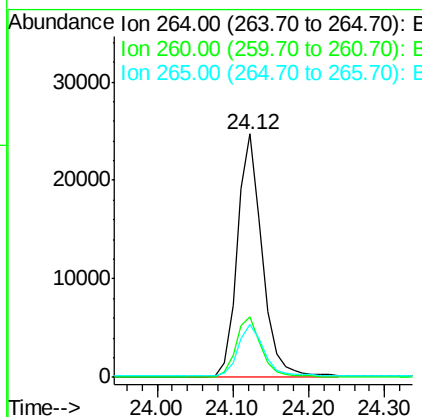
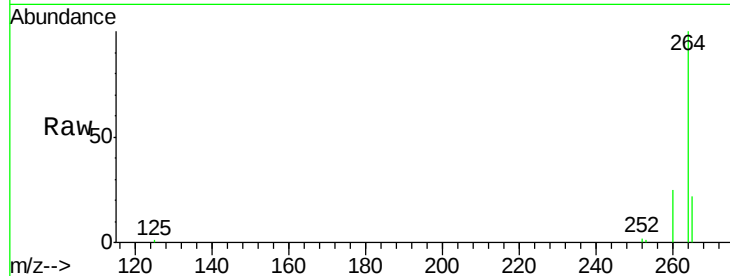
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.12 min Scan# 1547
Delta R.T. 0.04 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	20.1	30.1
265	21.8	17.9	26.9

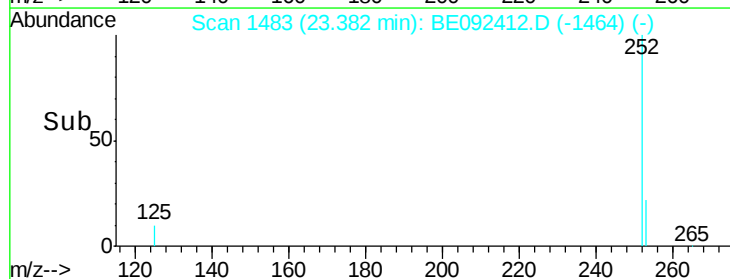
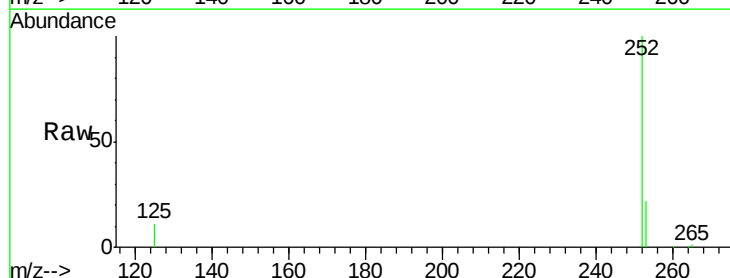
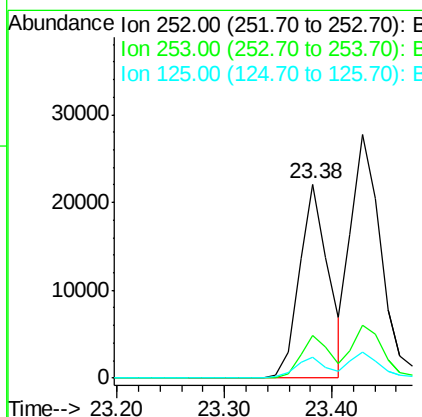
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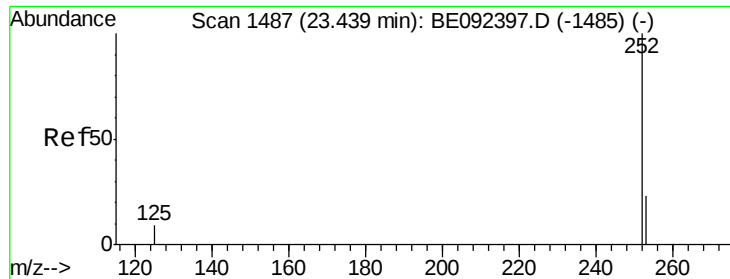
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#32
Benzo(b)fluoranthene
Concen: 3.03 ng
RT: 23.38 min Scan# 1483
Delta R.T. 0.02 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.7	28.1
125	10.7	10.5	15.7





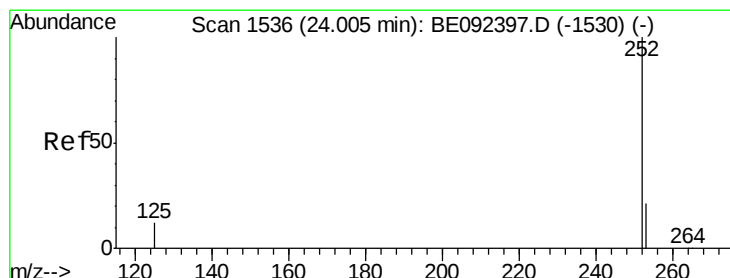
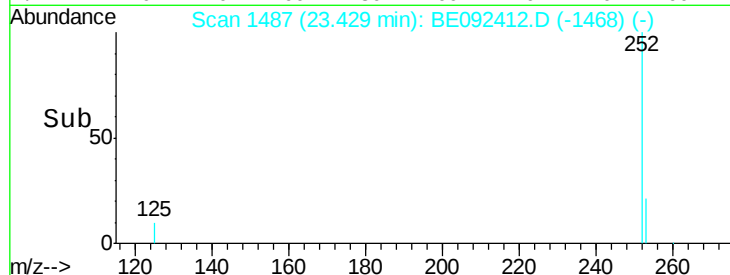
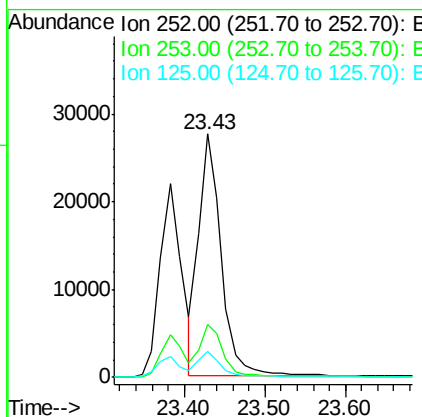
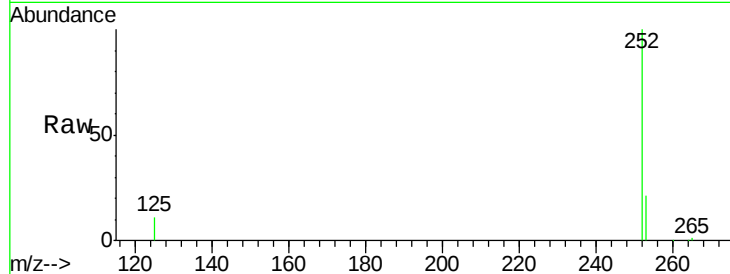
#33
Benzo(k)fluoranthene
Concen: 3.79 ng
RT: 23.43 min Scan# 1487
Delta R.T. 0.02 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	20.3	30.5
125	10.6	9.6	14.4

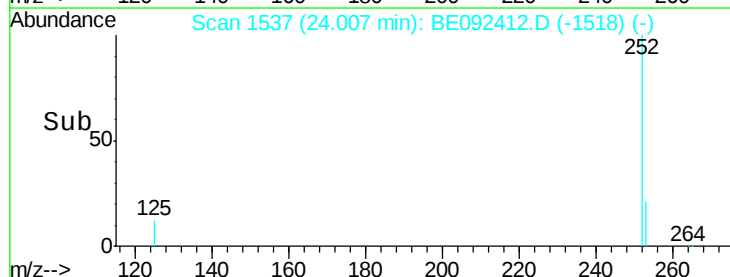
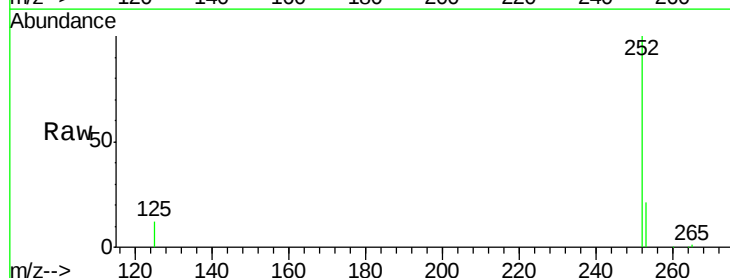
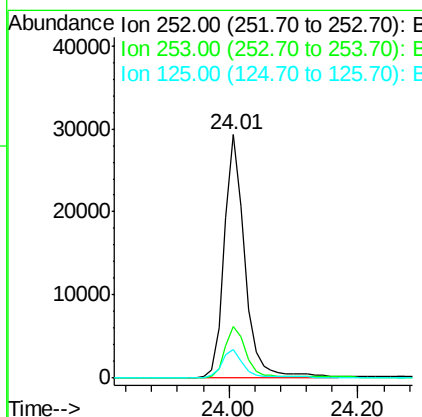
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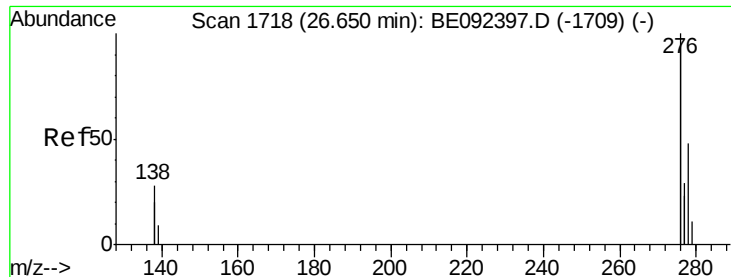
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#34
Benzo(a)pyrene
Concen: 4.81 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.02 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	19.0	28.6
125	11.9	11.8	17.8





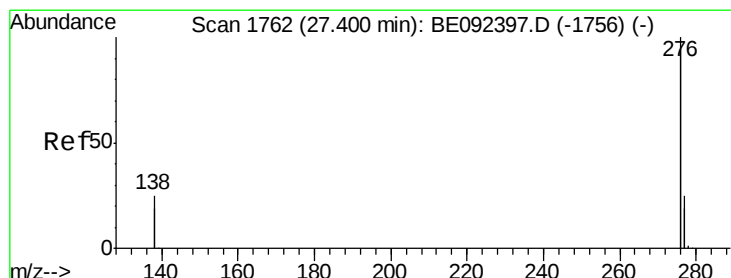
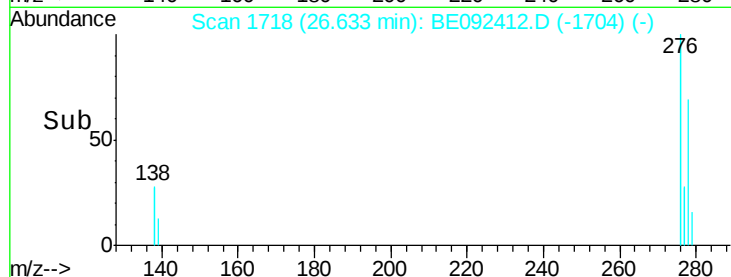
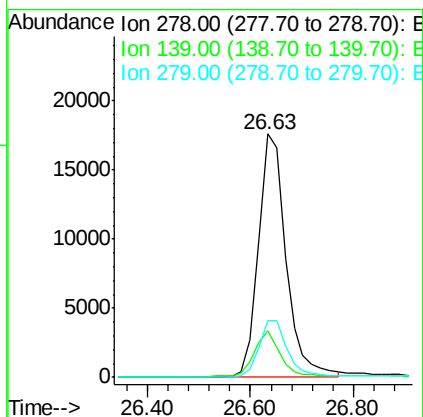
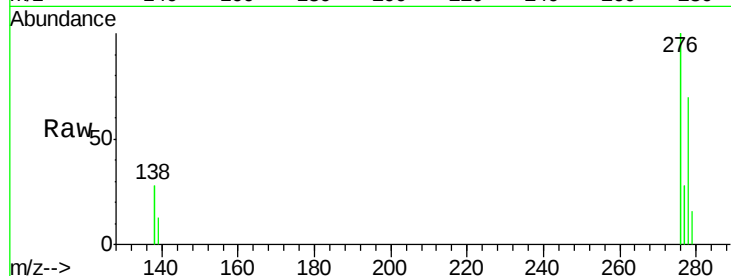
#35
Dibenzo(a,h)anthracene
Concen: 5.29 ng
RT: 26.63 min Scan# 1718
Delta R.T. 0.04 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Instrument :
BNA_E
ClientSampleId :
RR-PAH-WP

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.0	13.8	20.8
279	23.5	21.4	32.2

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#36
Benzo(g,h,i)perylene
Concen: 2.56 ng
RT: 27.38 min Scan# 1762
Delta R.T. 0.04 min
Lab File: BE092412.D
Acq: 23 Sep 2016 12:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.8	29.8
138	24.3	19.8	29.6

