

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
 Data File : BE091586.D
 Acq On : 31 Mar 2016 17:24
 Operator : UM/SJ
 Sample : PB89151BSD
 Misc : LOQ WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB89151BSD

Manual Integrations
 APPROVED

Sohil
 4/1/2016 9:41:42 PM

Quant Time: Apr 01 01:05:48 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	36298	5.00	ng	-0.02
6) Naphthalene-d8	10.57	136	169283	5.00	ng	-0.02
10) Acenaphthene-d10	14.42	164	103431	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	255385	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	342071	5.00	ng	-0.02
28) Perylene-d12	23.76	264	295322	5.00	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	51330	5.40	ng	-0.03
5) Phenol-d6	6.95	99	74362	5.79	ng	-0.03
7) Nitrobenzene-d5	8.96	82	33245	2.93	ng	-0.02
11) 2,4,6-Tribromophenol	15.90	330	23651	5.16	ng	-0.02
12) 2-Fluorobiphenyl	13.05	172	94980	3.23	ng	-0.02
24) Terphenyl-d14	19.76	244	142078	3.27	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.35	88	11494	2.66	ng	# 84
3) n-Nitrosodimethylamine	3.64	42	18043	2.74	ng	# 98
8) Naphthalene	10.63	128	100124	2.86	ng	95
9) 2-Methylnaphthalene	12.24	142	71674	3.14	ng	# 90
13) Acenaphthylene	14.14	152	124669	2.99	ng	100
14) Acenaphthene	14.49	154	79467	3.11	ng	96
15) Fluorene	15.46	166	98385	2.99	ng	100
17) Hexachlorobenzene	16.47	284	28356	3.02	ng	98
18) Pentachlorophenol	16.79	266	33174	6.29	ng	86
19) Phenanthrene	17.20	178	179521	3.00	ng	99
20) Anthracene	17.29	178	168089	3.05	ng	100
21) Fluoranthene	19.20	202	214063	3.04	ng	99
23) Pyrene	19.57	202	224505	3.22	ng	99
25) Benzo(a)anthracene	21.29	228	246293m	3.07	ng	
26) Chrysene	21.36	228	199444m	2.90	ng	
27) Indeno(1,2,3-cd)pyrene	26.33	276	242031	3.06	ng	99
29) Benzo(b)fluoranthene	23.01	252	225705	3.15	ng	96
30) Benzo(k)fluoranthene	23.06	252	220512	3.18	ng	93
31) Benzo(a)pyrene	23.65	252	209030	3.19	ng	93
32) Dibenzo(a,h)anthracene	26.35	278	204871	3.19	ng	98
33) Benzo(g,h,i)perylene	27.12	276	205949	3.14	ng	98

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

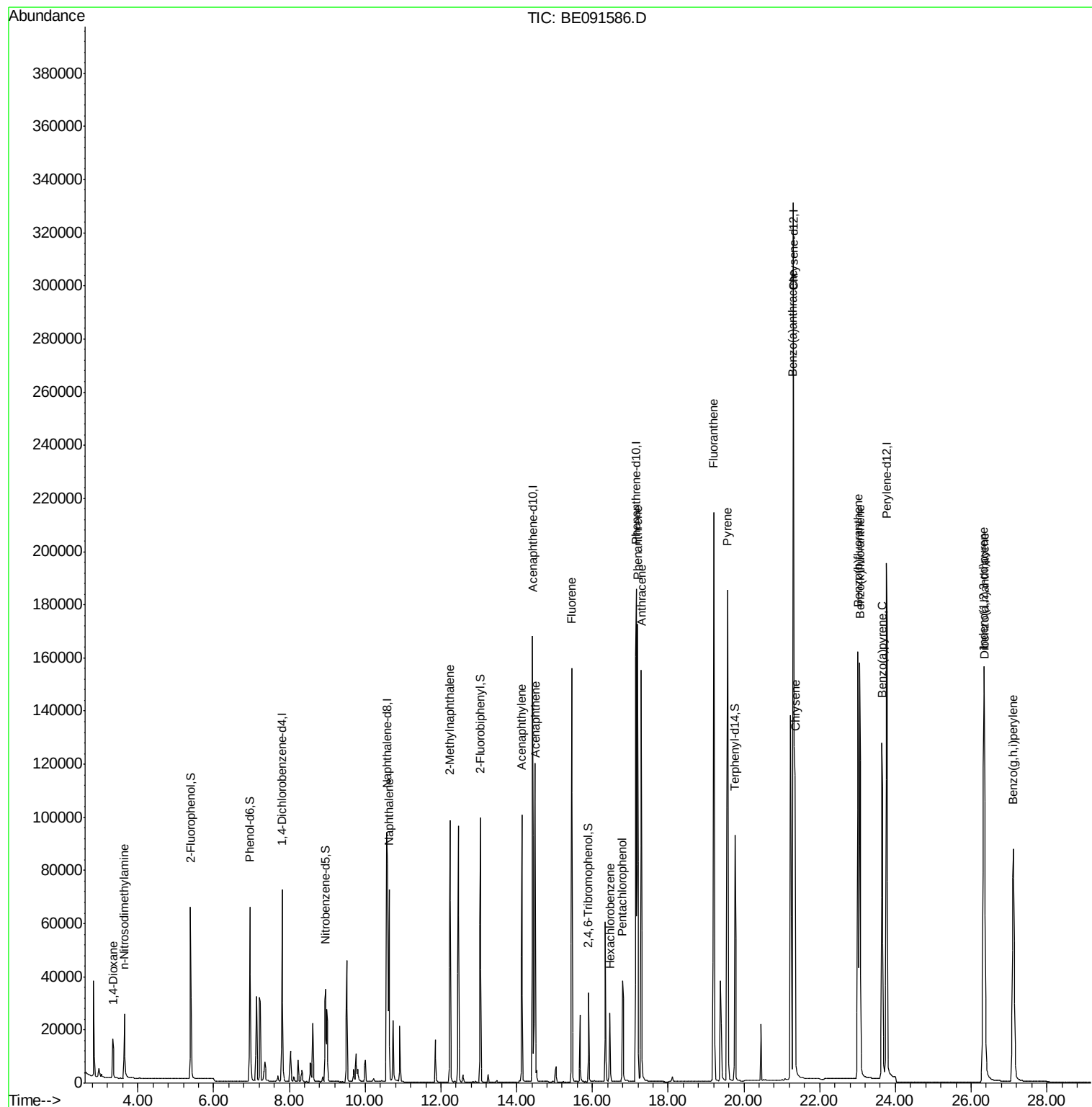
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE040116\
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Sample : PB89151BSD
Misc : LOQ WATER
ALS Vial : 10 Sample Multiplier: 1

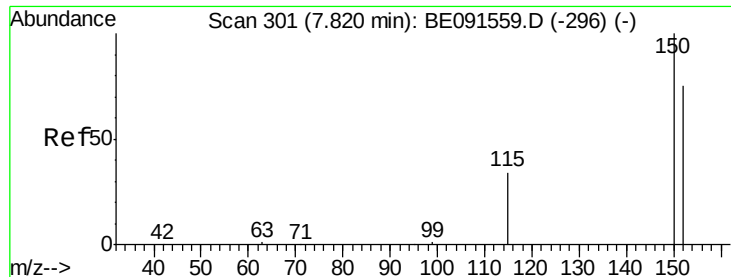
Instrument :
BNA_E
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4/1/2016 9:41:42 PM

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 30 18:45:59 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.02 min

Lab File: BE091586.D

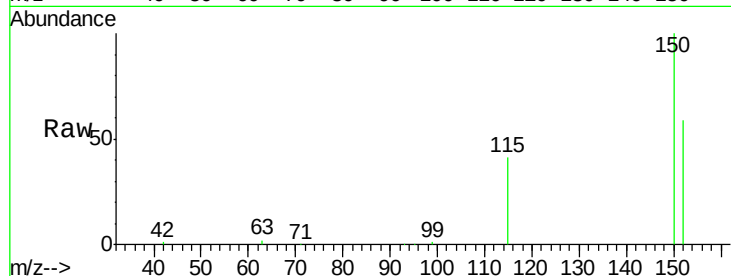
Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

PB89151BSD



Tgt Ion: 152 Resp: 36298

Ion Ratio Lower Upper

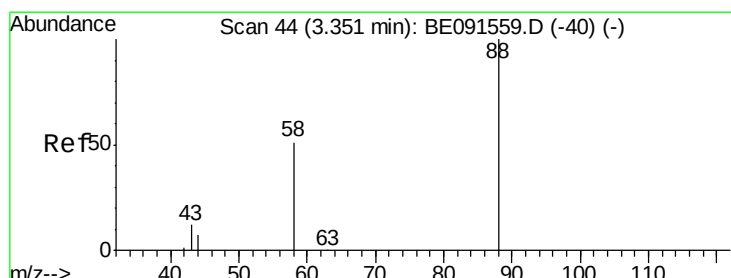
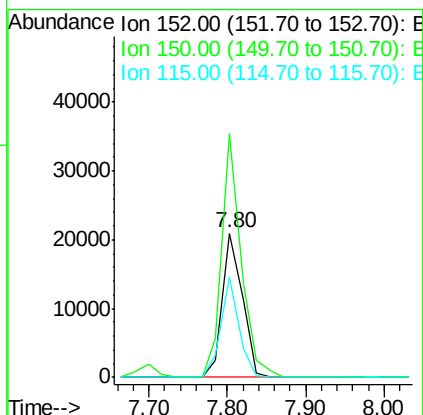
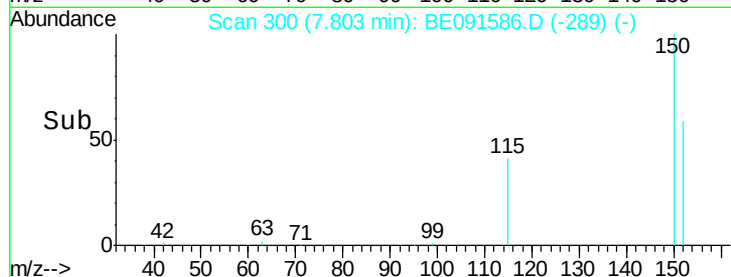
152 100

150 169.3 122.2 183.2

115 69.9 45.9 68.9#

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#2

1,4-Dioxane

Concen: 2.66 ng

RT: 3.35 min Scan# 44

Delta R.T. -0.02 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

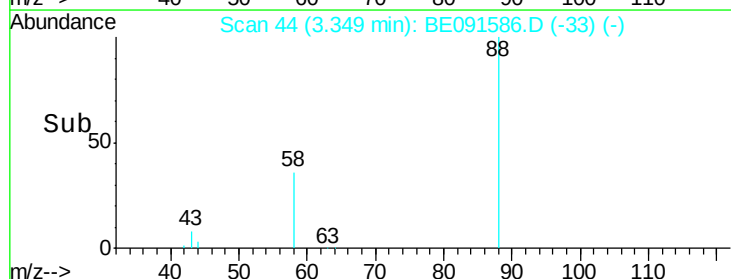
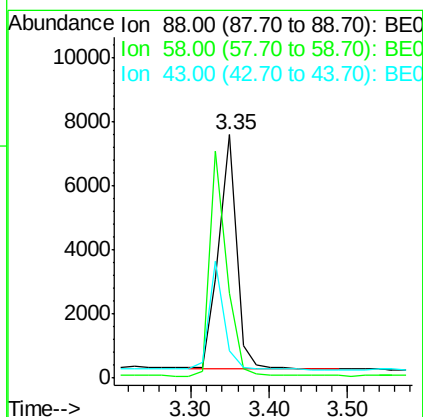
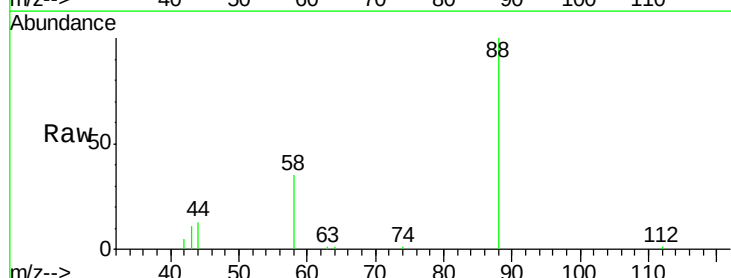
Tgt Ion: 88 Resp: 11494

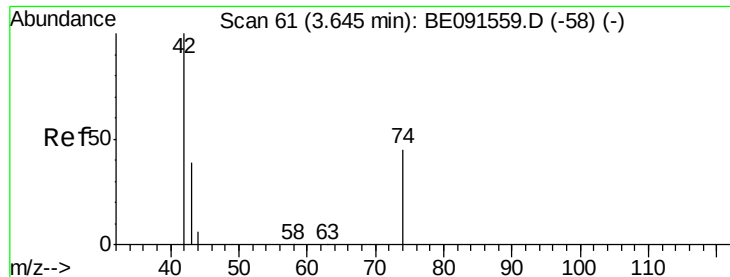
Ion Ratio Lower Upper

88 100

58 91.2 61.0 91.6

43 39.3 25.4 38.2#





#3

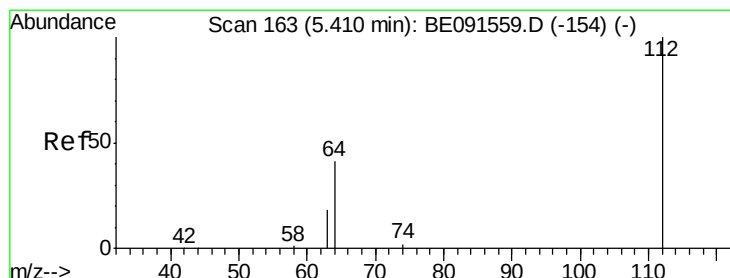
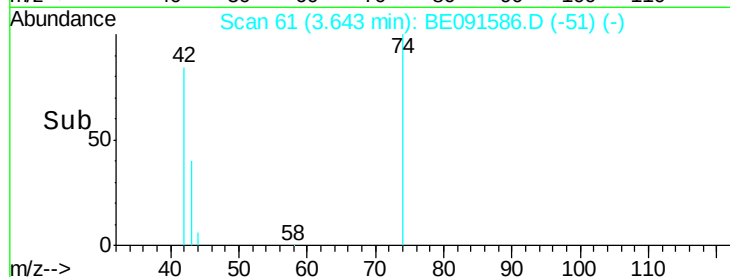
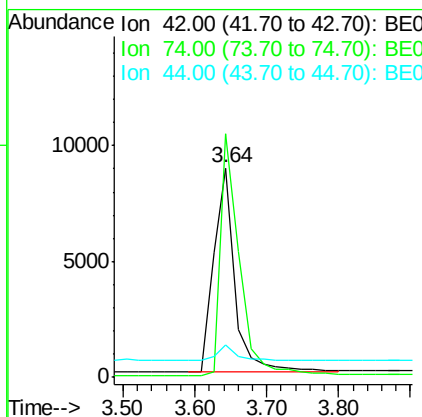
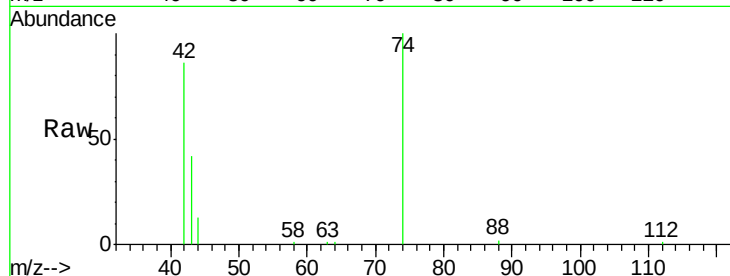
n-Nitrosodimethylamine
Concen: 2.74 ng
RT: 3.64 min Scan# 61
Delta R.T. -0.03 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Instrument :
BNA_E
ClientSampleId :
PB89151BSD

Tgt Ion	Ratio	Lower	Upper
42	100		
74	107.2	84.3	126.5
44	6.0	6.7	10.1#

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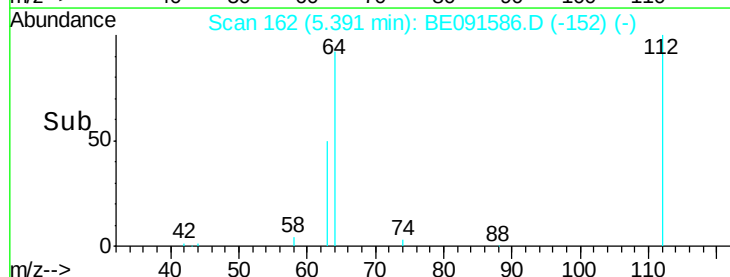
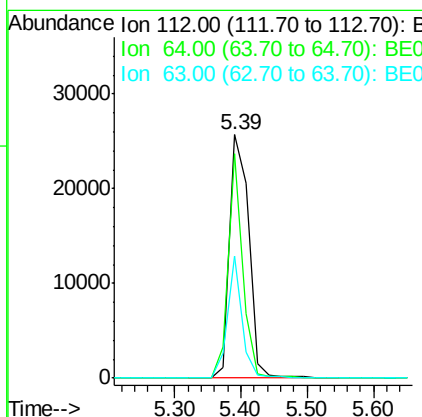
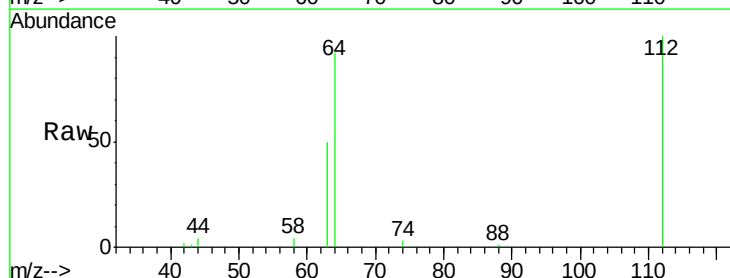
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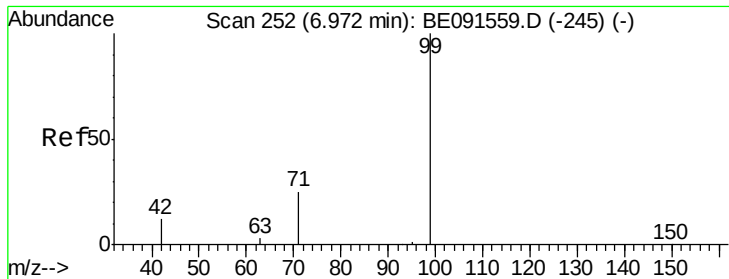


#4

2-Fluorophenol
Concen: 5.40 ng
RT: 5.39 min Scan# 162
Delta R.T. -0.03 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.3	79.9
63	37.3	29.8	44.8





#5

Phenol-d6

Concen: 5.79 ng

RT: 6.95 min Scan# 251

Delta R.T. -0.03 min

Lab File: BE091586.D

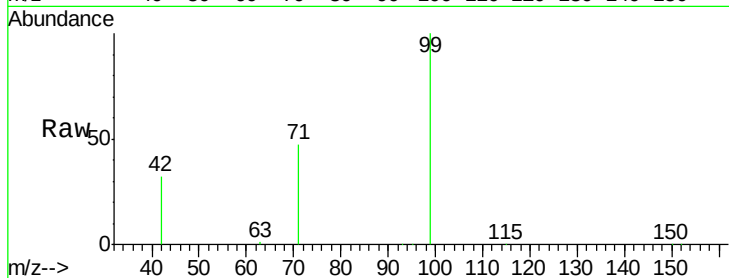
Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

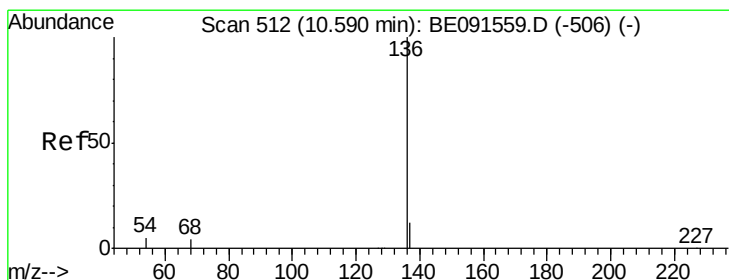
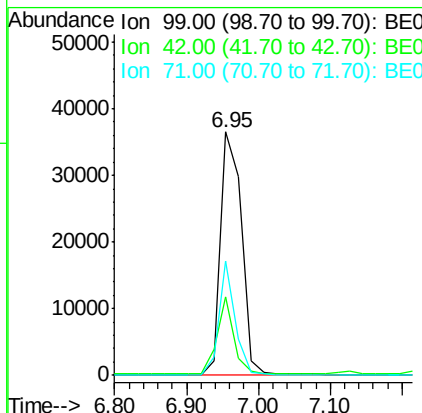
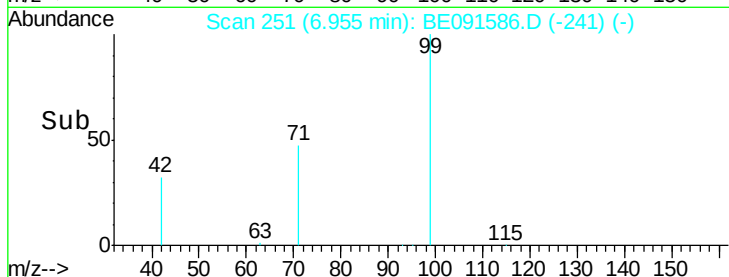
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		74362		
42	25.6	20.6	30.8		
71	36.3	29.0	43.4		

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#6

Naphthalene-d8

Concen: 5.00 ng

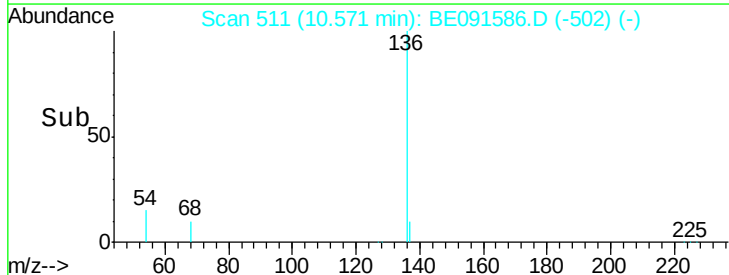
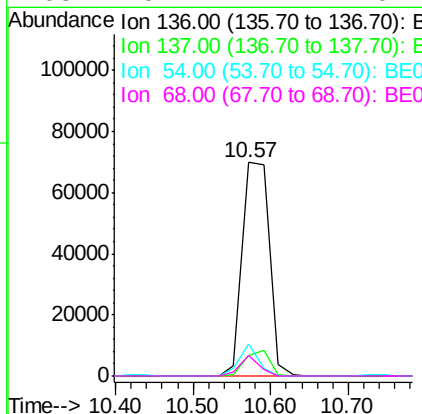
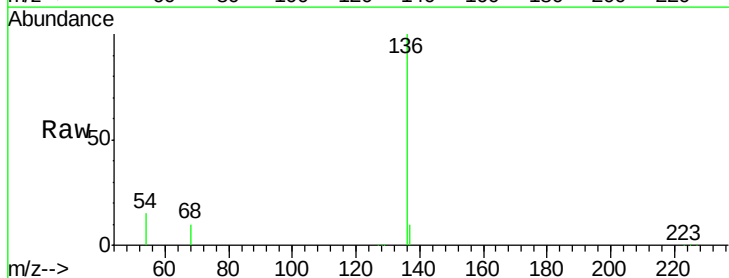
RT: 10.57 min Scan# 511

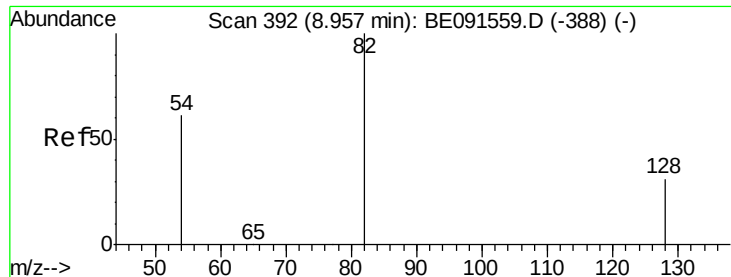
Delta R.T. -0.02 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		169283		
137	9.8	8.8	13.2		
54	14.9	5.2	7.8#		
68	9.7	4.1	6.1#		





#7

Nitrobenzene-d5

Concen: 2.93 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

PB89151BSD

Tgt Ion: 82 Resp: 33245

Ion Ratio Lower Upper

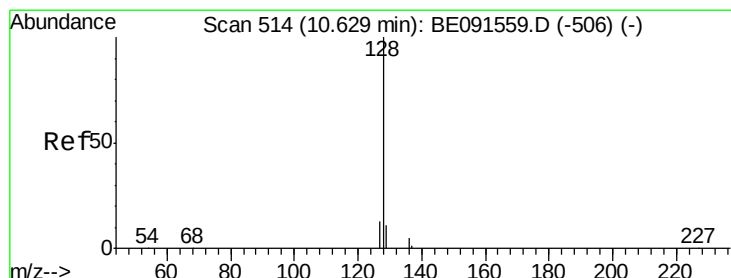
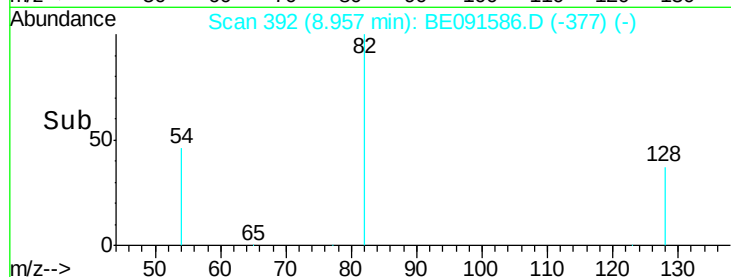
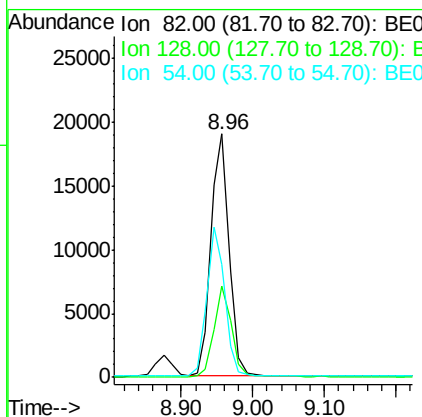
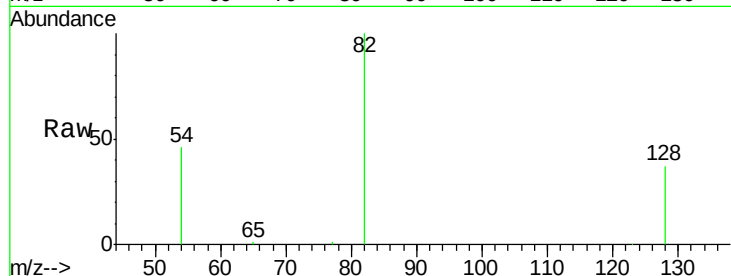
82 100

128 37.4 23.5 35.3#

54 46.3 52.4 78.6#

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#8

Naphthalene

Concen: 2.86 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

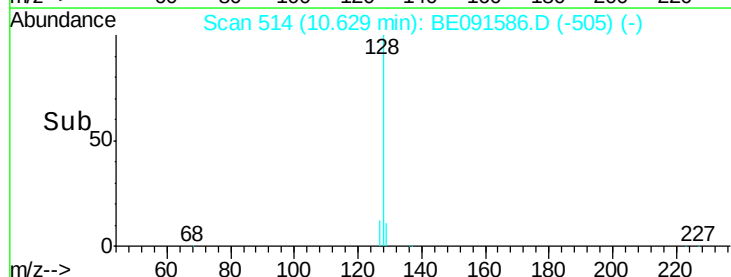
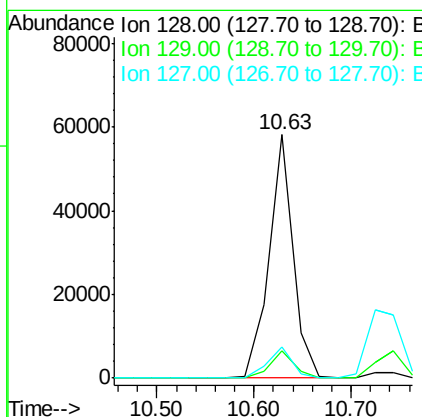
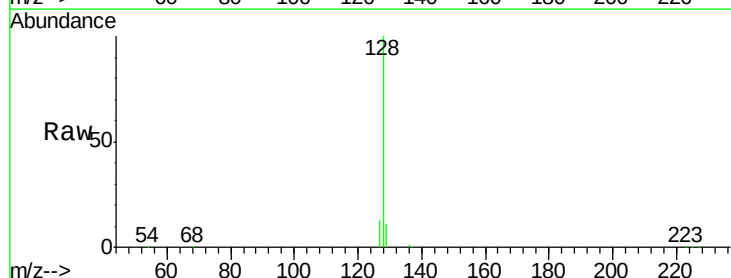
Tgt Ion: 128 Resp: 100124

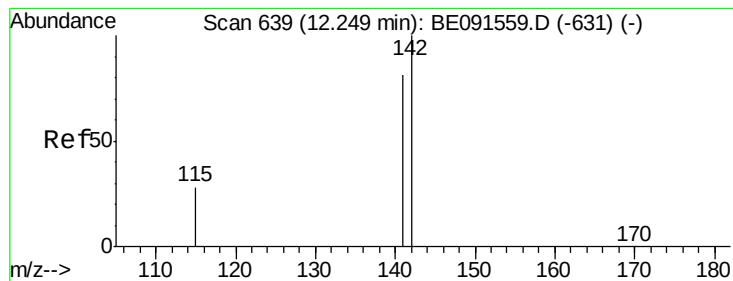
Ion Ratio Lower Upper

128 100

129 11.4 8.2 12.2

127 12.5 11.8 17.8





#9

2-Methylnaphthalene

Concen: 3.14 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

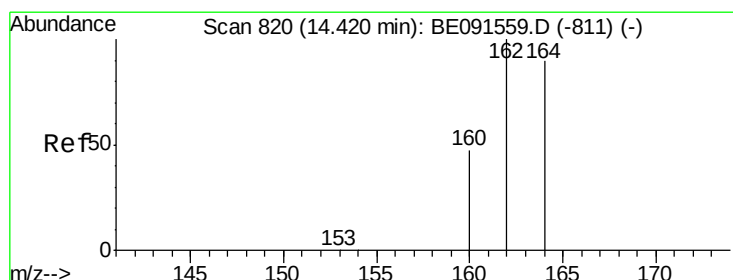
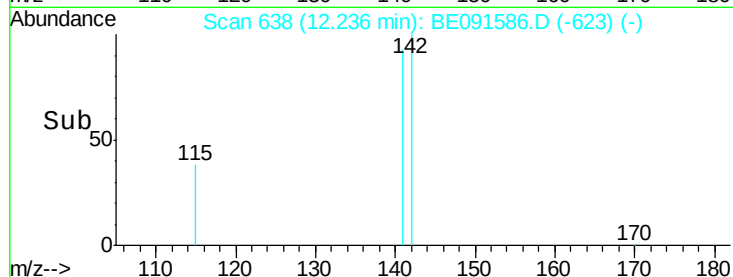
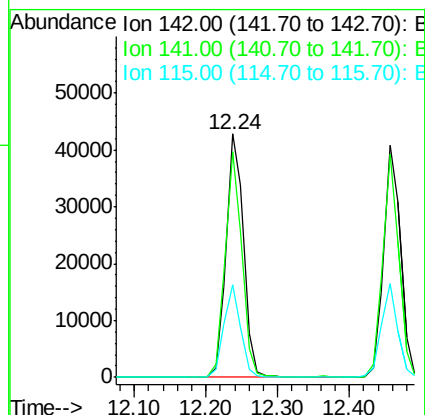
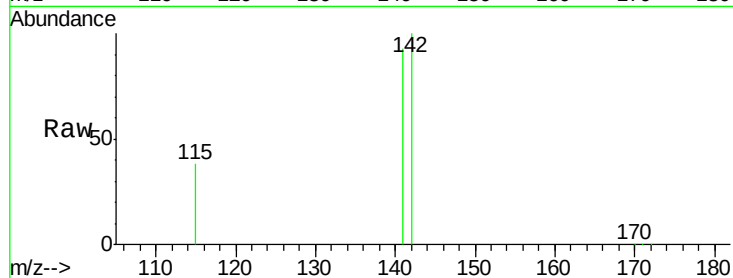
ClientSampled :

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Tgt Ion:	142	Resp:	71674
Ion Ratio	Lower	Upper	
142	100		
141	92.5	66.9	100.3
115	38.1	25.1	37.7#



#10

Acenaphthene-d10

Concen: 5.00 ng

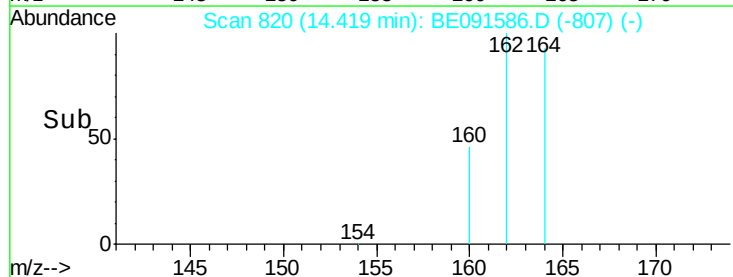
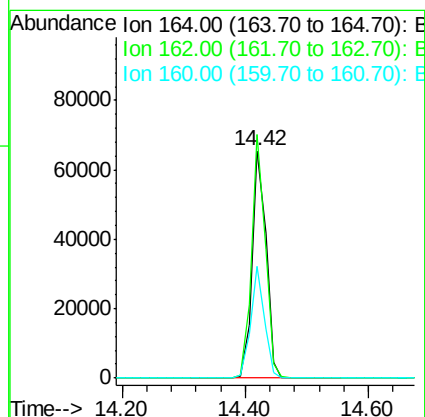
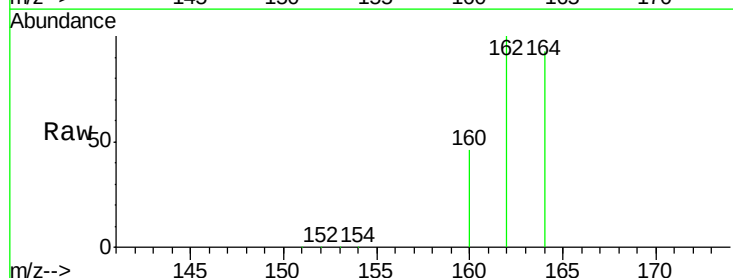
RT: 14.42 min Scan# 820

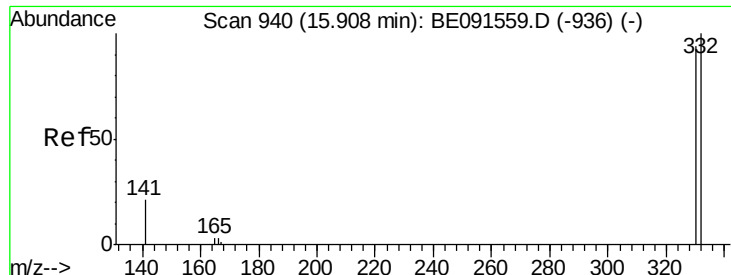
Delta R.T. -0.03 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

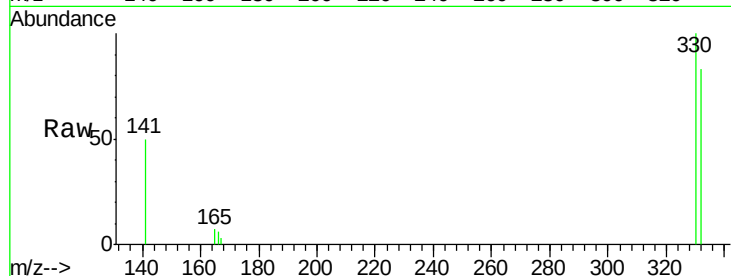
Tgt Ion:	164	Resp:	103431
Ion Ratio	Lower	Upper	
164	100		
162	107.1	84.4	126.6
160	49.0	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 5.16 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.02 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

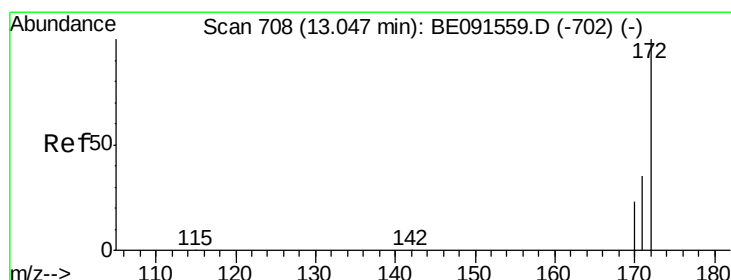
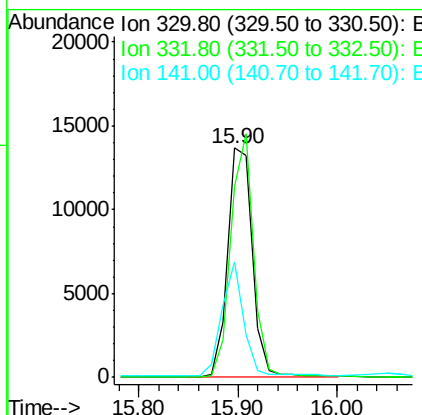
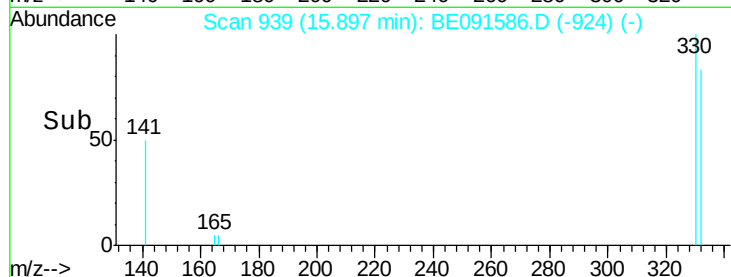
Instrument :
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Tgt Ion:330 Resp: 23651
 Ion Ratio Lower Upper
 330 100
 332 97.0 79.2 118.8
 141 43.3 28.1 42.1#

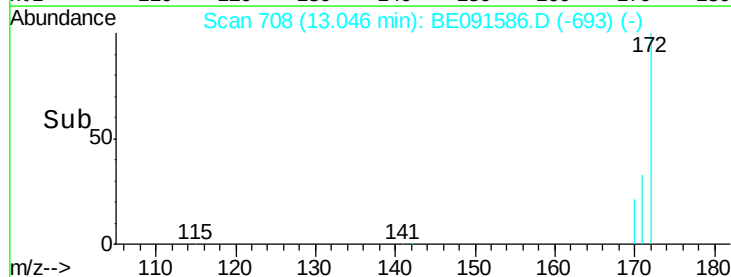
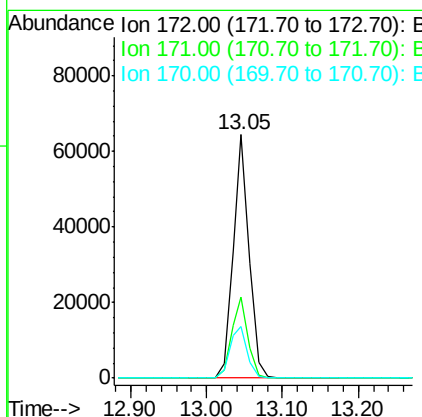
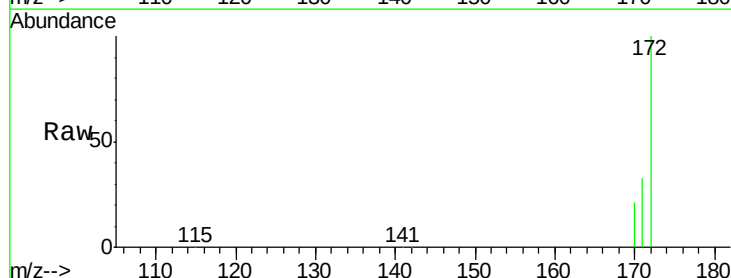
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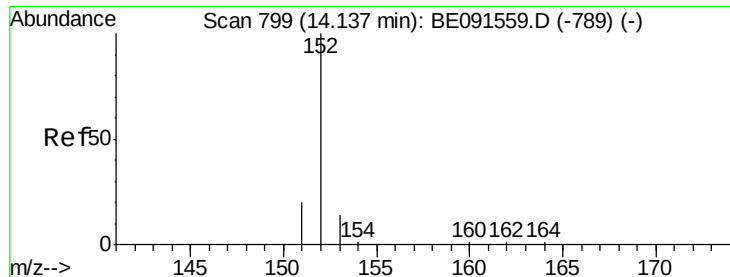
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#12
 2-Fluorobiphenyl
 Concen: 3.23 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

Tgt Ion:172 Resp: 94980
 Ion Ratio Lower Upper
 172 100
 171 33.1 29.8 44.8
 170 21.2 21.4 32.2#





#13

Acenaphthylene

Concen: 2.99 ng

RT: 14.14 min Scan# 799

Delta R.T. -0.01 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

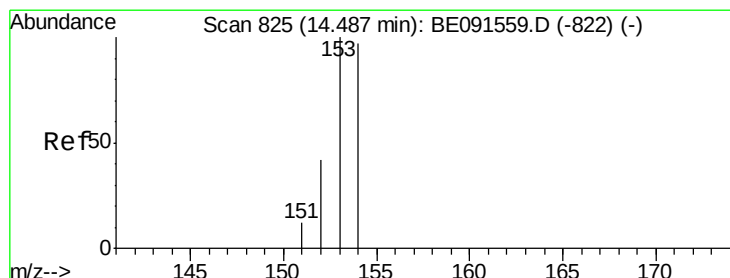
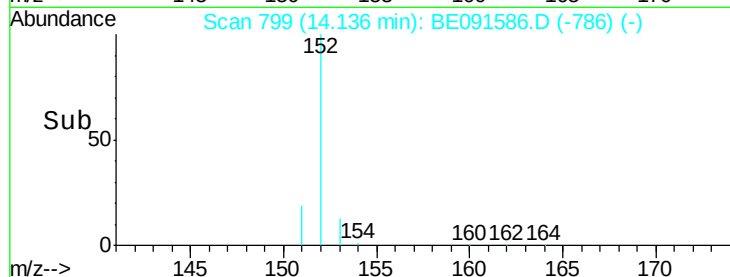
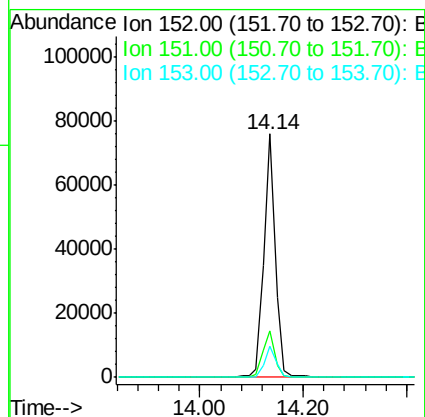
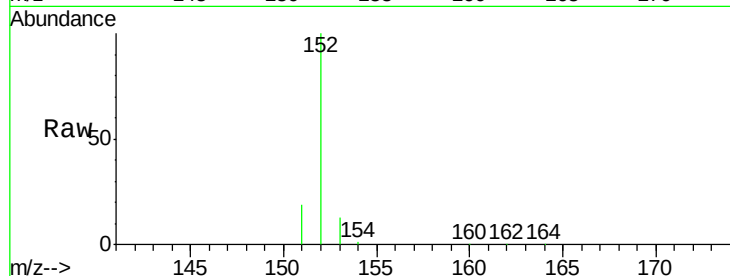
ClientSampleId :

PB89151BSD

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Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.3	24.5
153	13.6	11.1	16.7



#14

Acenaphthene

Concen: 3.11 ng

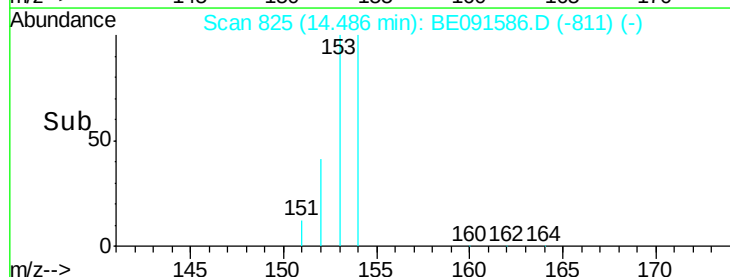
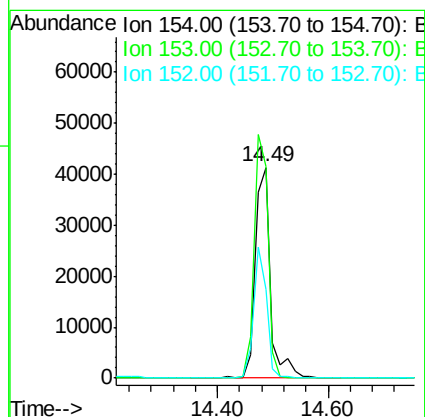
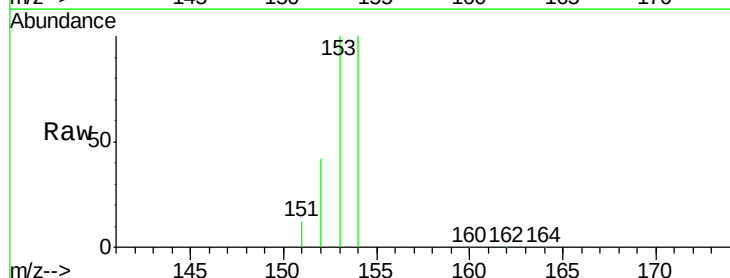
RT: 14.49 min Scan# 825

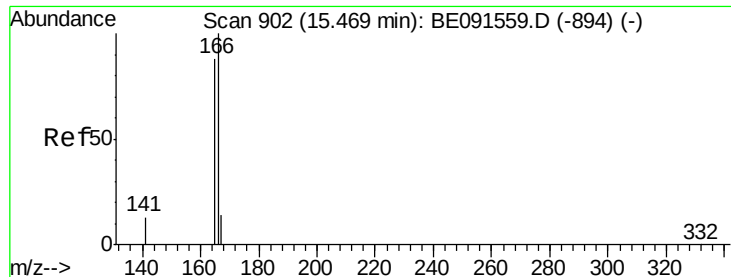
Delta R.T. -0.01 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

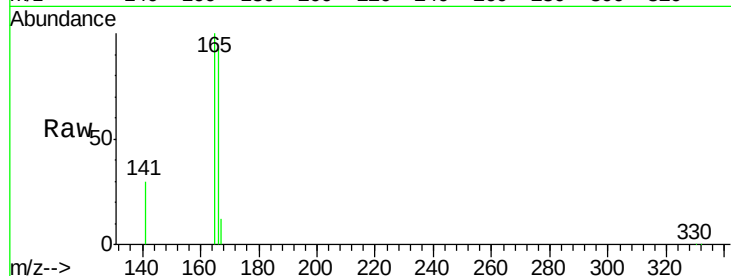
Tgt Ion	Ratio	Lower	Upper
154	100		
153	104.8	87.3	130.9
152	51.6	42.9	64.3





#15
Fluorene
 Concen: 2.99 ng
 RT: 15.46 min Scan# 901
 Delta R.T. -0.02 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

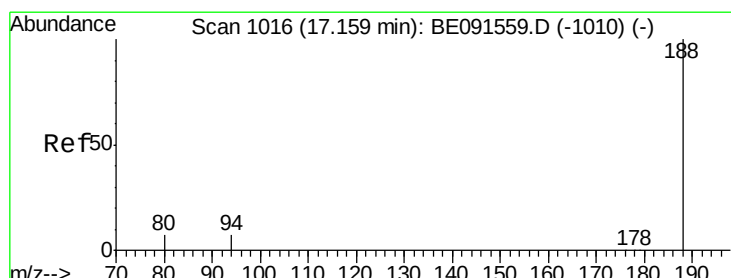
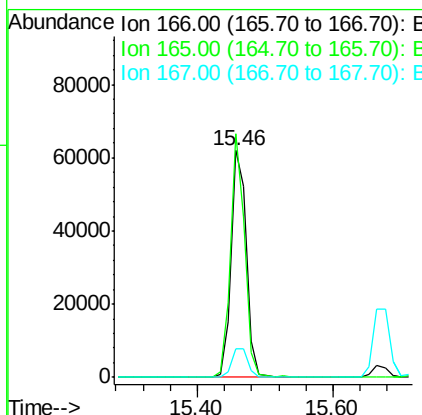
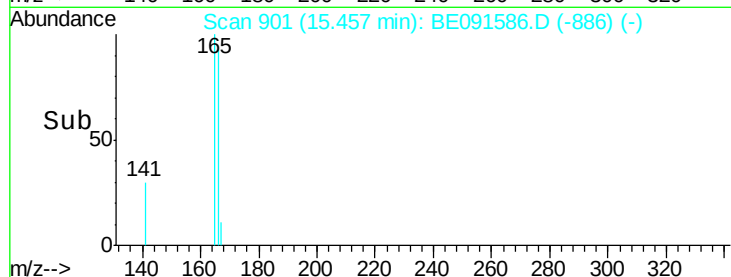
Instrument :
 BNA_E
 ClientSampleId :
 PB89151BSD



Tgt Ion:166 Resp: 98385
 Ion Ratio Lower Upper
 166 100
 165 99.0 79.2 118.8
 167 13.6 10.8 16.2

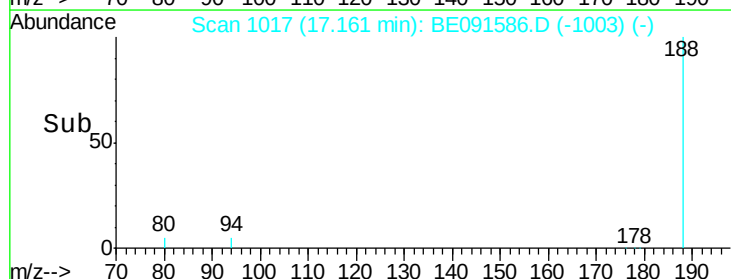
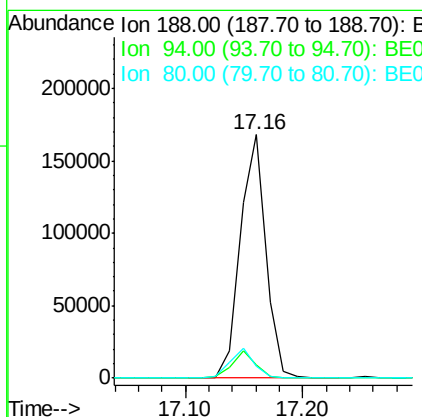
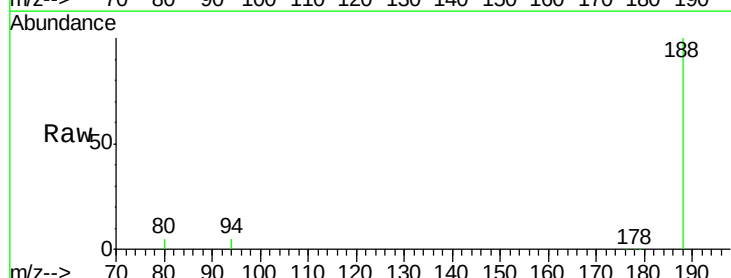
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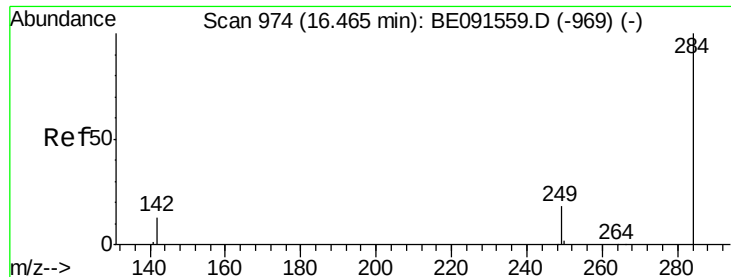
Sohil
 4/1/2016 9:41:42 PM



#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.16 min Scan# 1017
 Delta R.T. -0.01 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

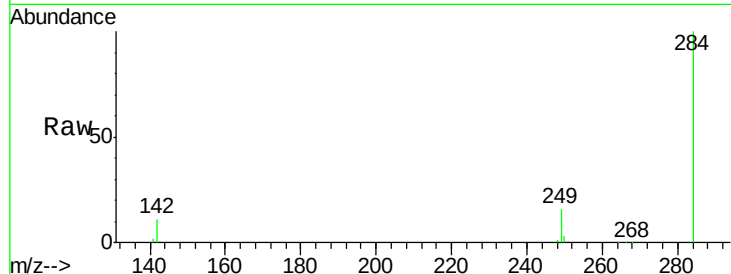
Tgt Ion:188 Resp: 255385
 Ion Ratio Lower Upper
 188 100
 94 5.4 5.4 8.2#
 80 4.7 5.0 7.4#





#17
Hexachlorobenzene
Concen: 3.02 ng
RT: 16.47 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

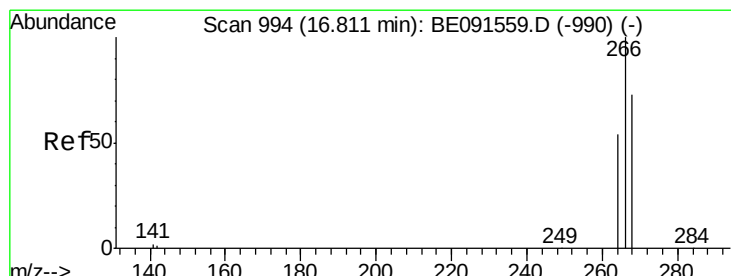
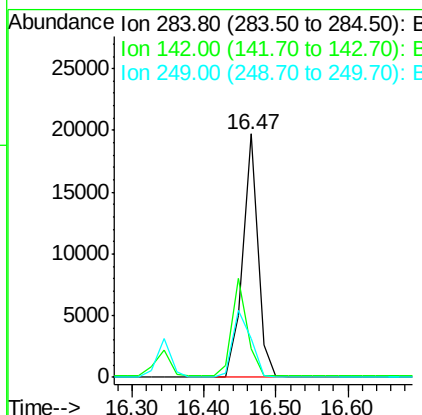
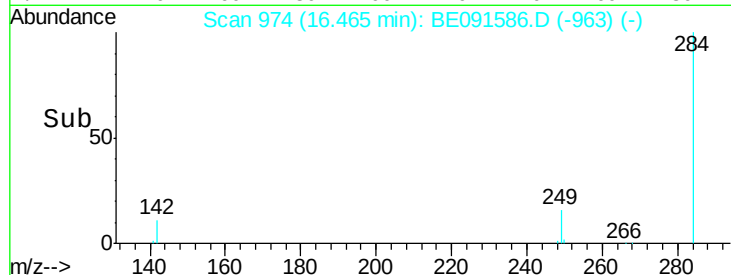
Instrument :
BNA_E
ClientSampleId :
PB89151BSD



Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	40.2	31.0	46.4
249	31.9	25.8	38.8

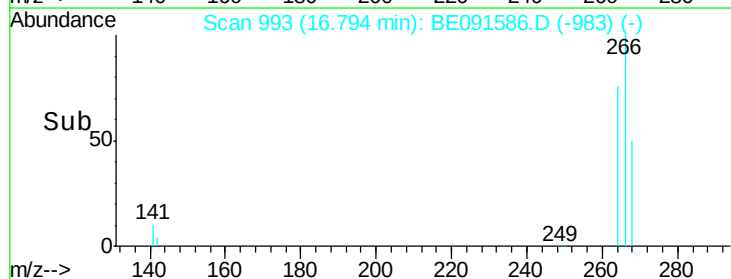
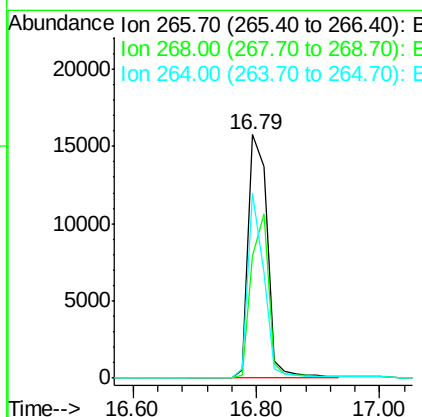
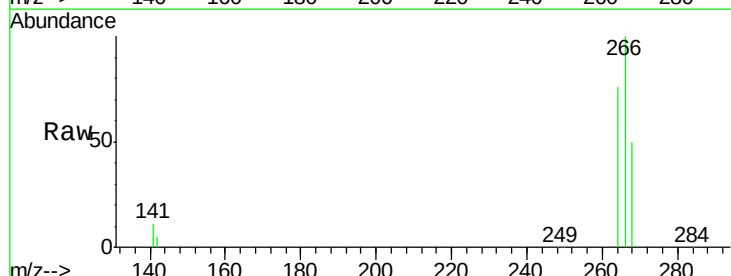
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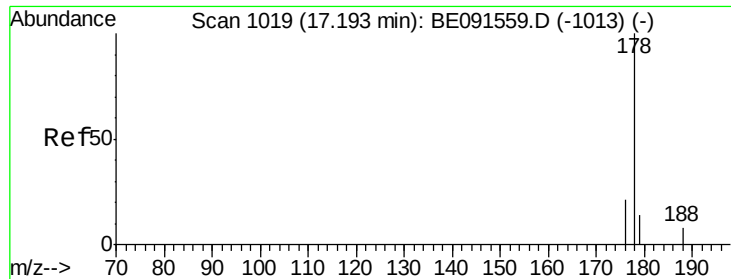
Sohil
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#18
Pentachlorophenol
Concen: 6.29 ng
RT: 16.79 min Scan# 993
Delta R.T. -0.03 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
266	100		
268	50.0	48.2	72.2
264	75.8	52.1	78.1





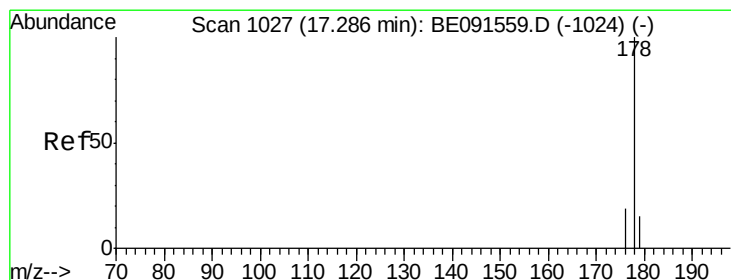
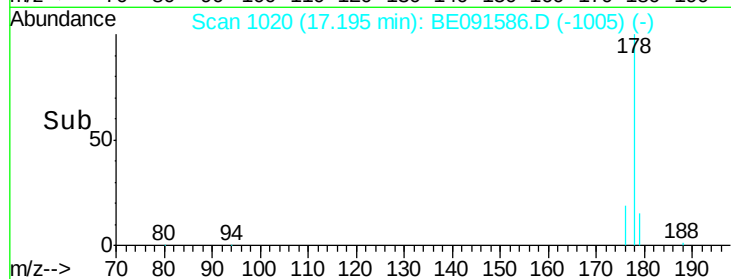
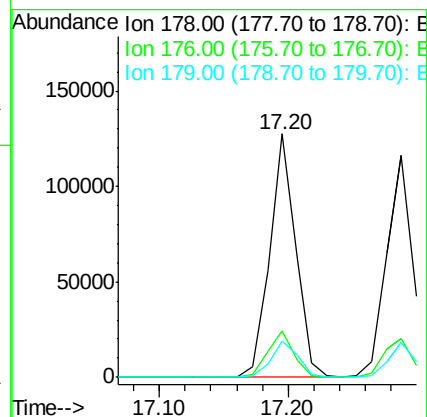
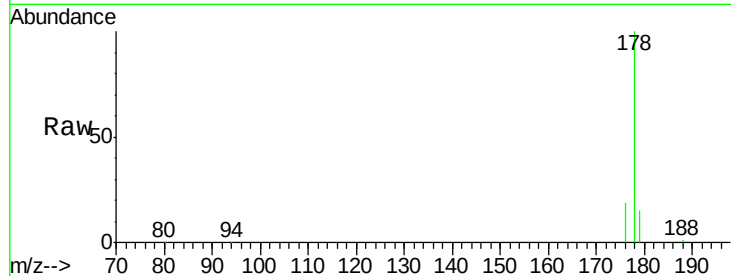
#19
Phenanthrene
Concen: 3.00 ng
RT: 17.20 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Instrument :
BNA_E
ClientSampleId :
PB89151BSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.5	13.1	19.7

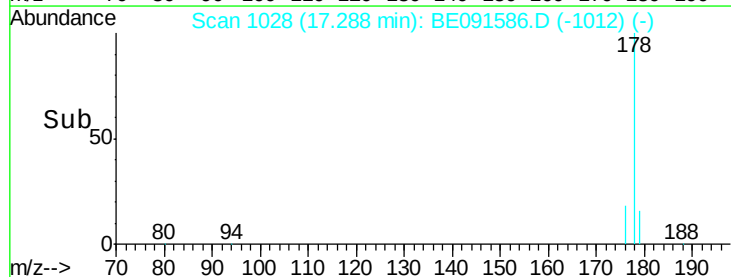
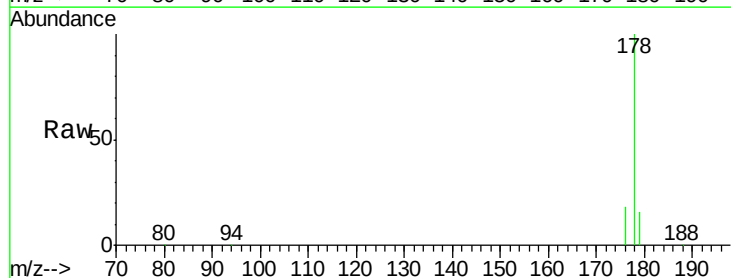
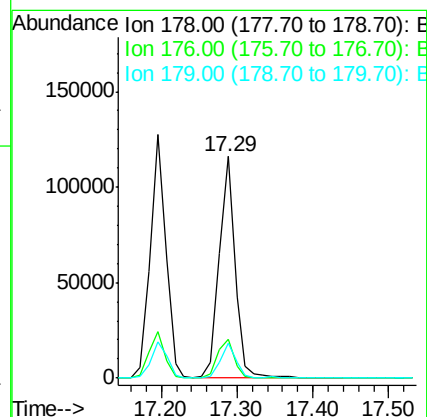
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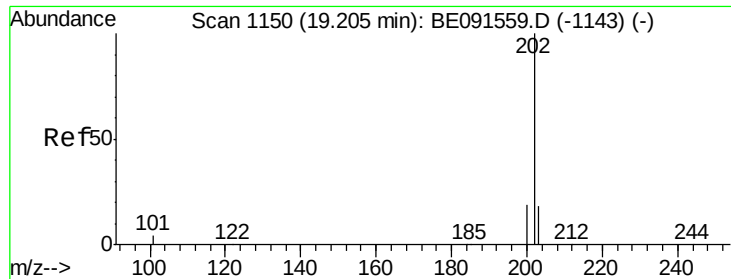
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#20
Anthracene
Concen: 3.05 ng
RT: 17.29 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.3	12.2	18.4





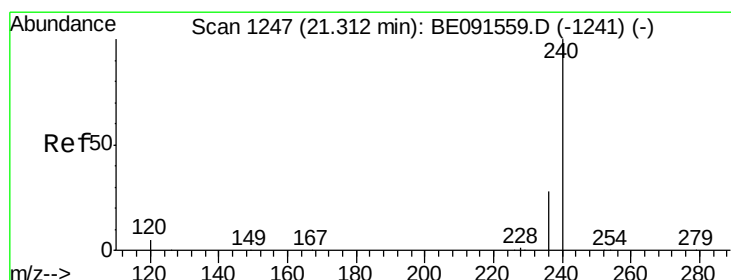
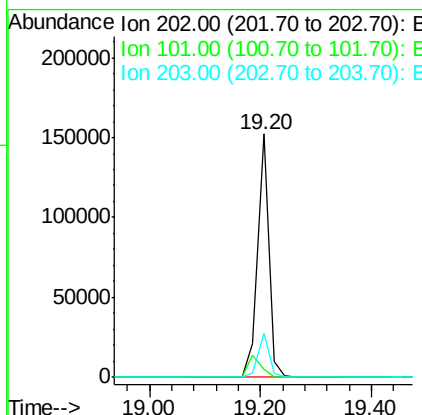
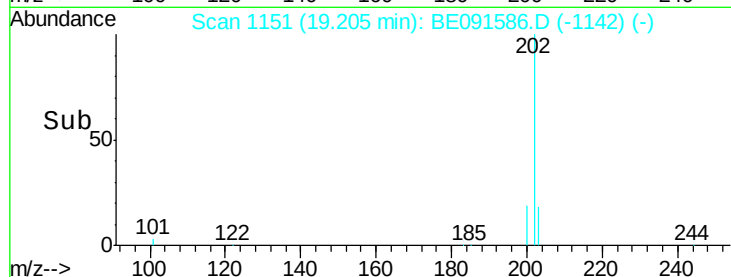
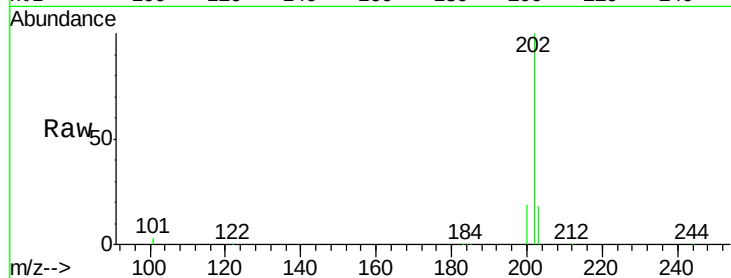
#21
Fluoranthene
Concen: 3.04 ng
RT: 19.20 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Instrument :
BNA_E
ClientSampleId :
PB89151BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	10.8	8.3	12.5
203	17.8	13.9	20.9

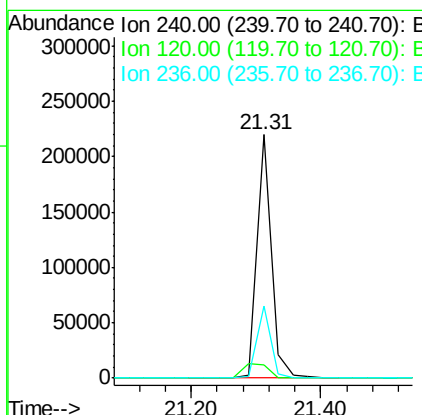
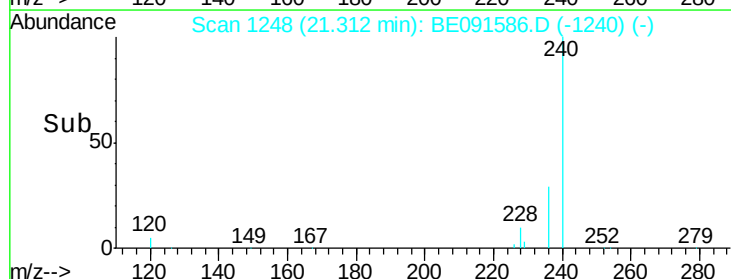
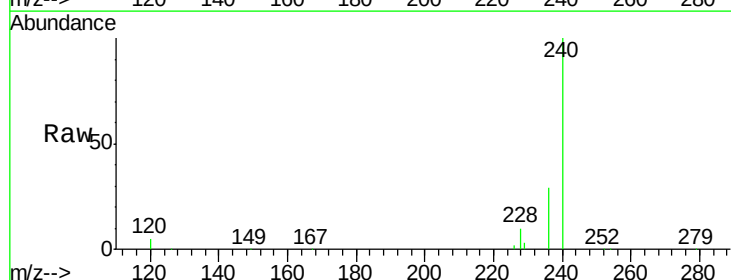
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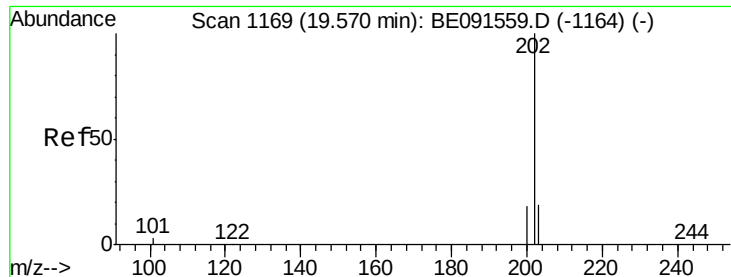
Sohil
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#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	5.4	4.0	6.0
236	29.4	23.0	34.4





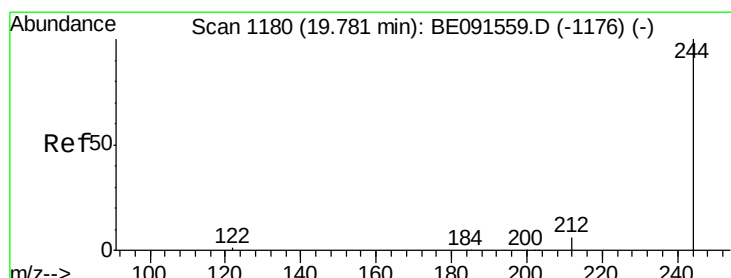
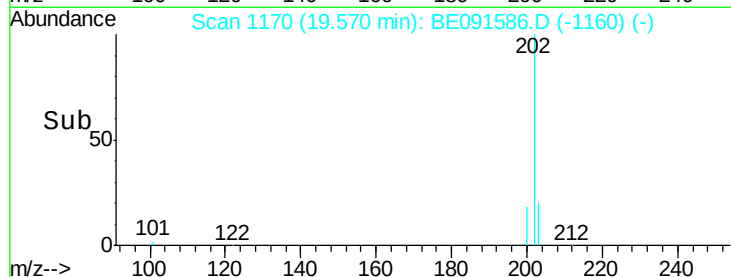
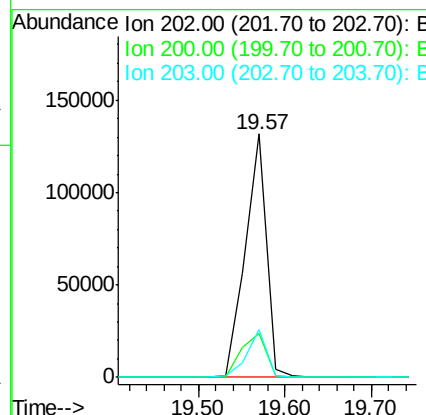
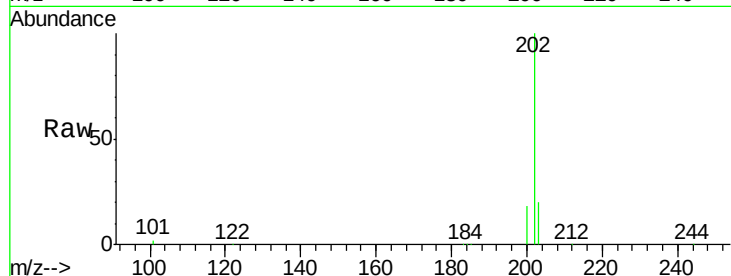
#23
 Pyrene
 Concen: 3.22 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

Instrument :
 BNA_E
 ClientSampleId :
 PB89151BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.1	16.4	24.6
203	18.3	14.6	21.8

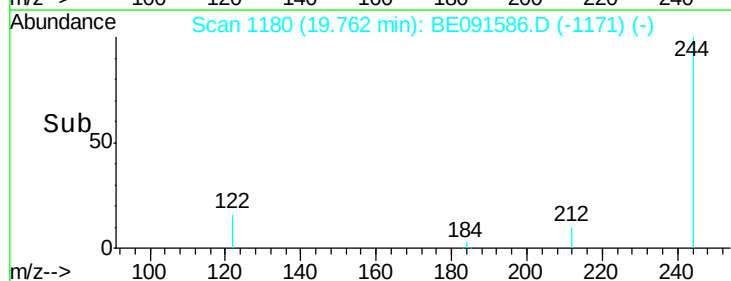
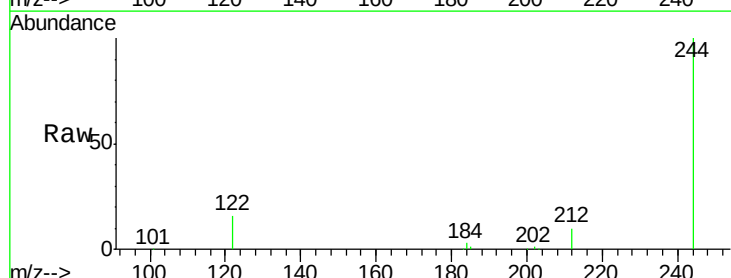
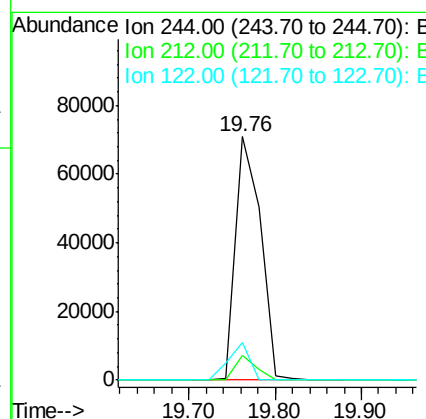
Manual Integrations
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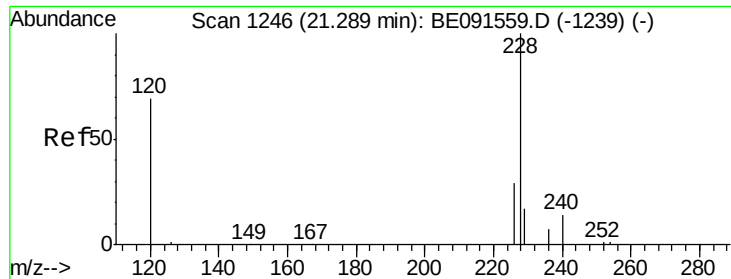
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#24
 Terphenyl-d14
 Concen: 3.27 ng
 RT: 19.76 min Scan# 1180
 Delta R.T. -0.02 min
 Lab File: BE091586.D
 Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	10.0	5.8	8.8#
122	15.7	1.8	2.8#





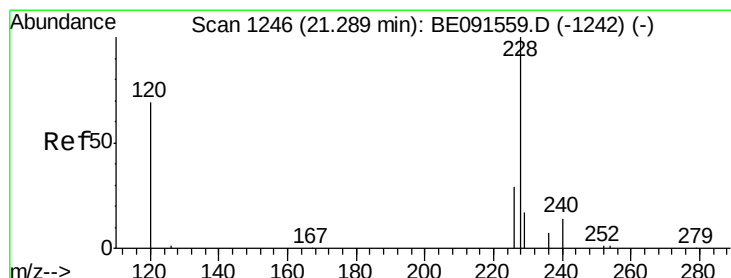
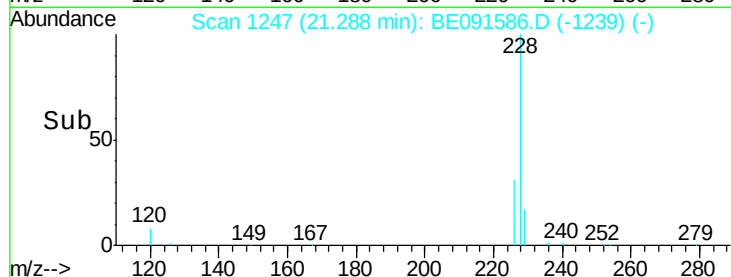
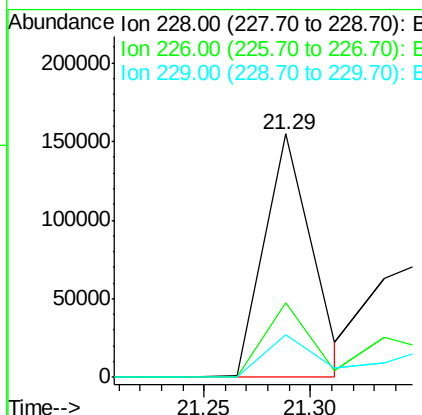
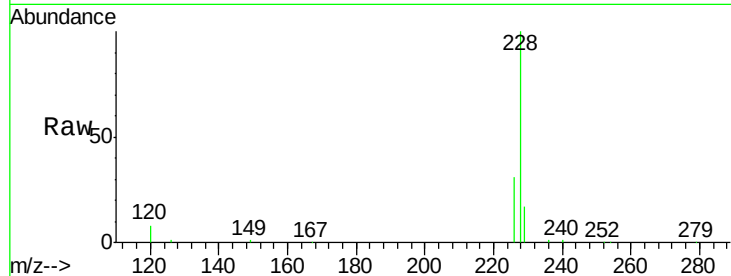
#25
Benzo(a)anthracene
Concen: 3.07 ng m
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Instrument :
BNA_E
ClientSampleId :
PB89151BSD

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.0	36.0
229	17.5	13.8	20.6

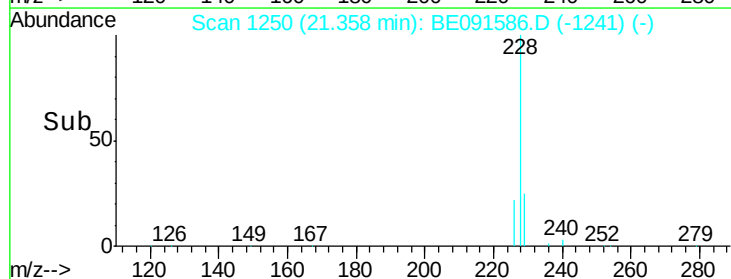
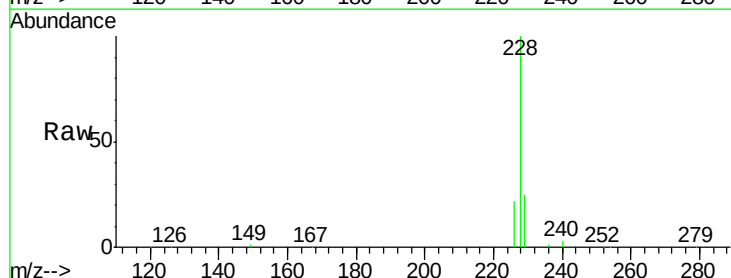
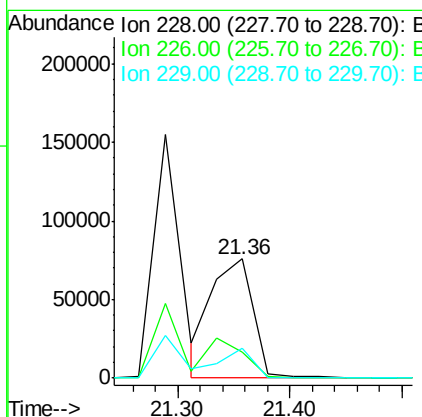
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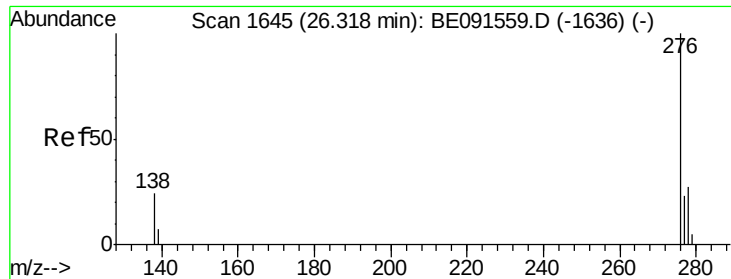
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#26
Chrysene
Concen: 2.90 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	22.1	18.9	28.3
229	25.0	19.1	28.7





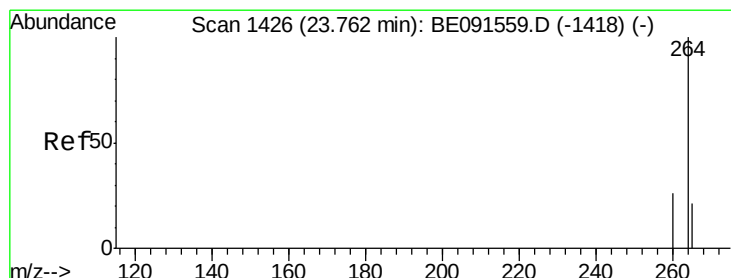
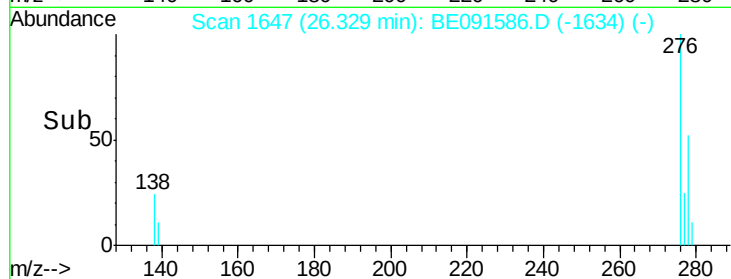
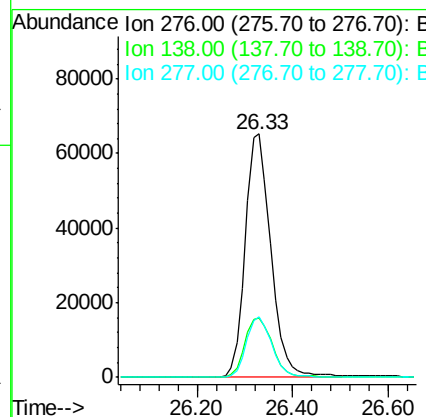
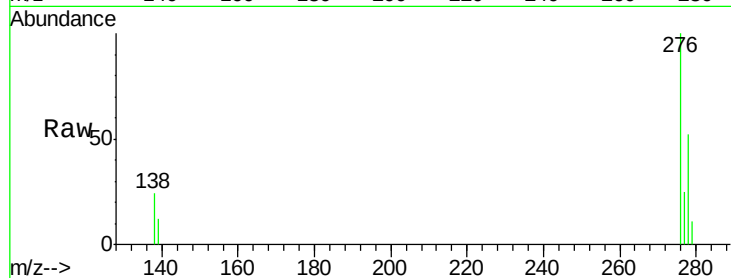
#27
Indeno(1,2,3-cd)pyrene
Concen: 3.06 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Instrument :
BNA_E
ClientSampleId :
PB89151BSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.1	20.2	30.4
277	24.9	19.8	29.8

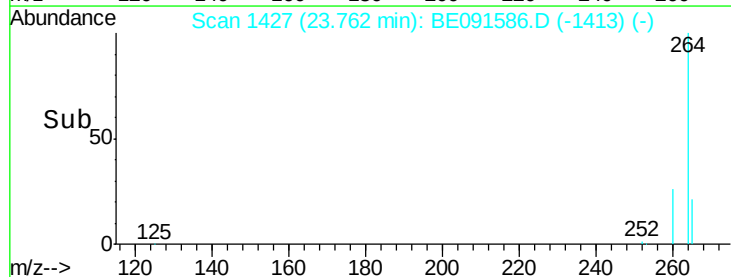
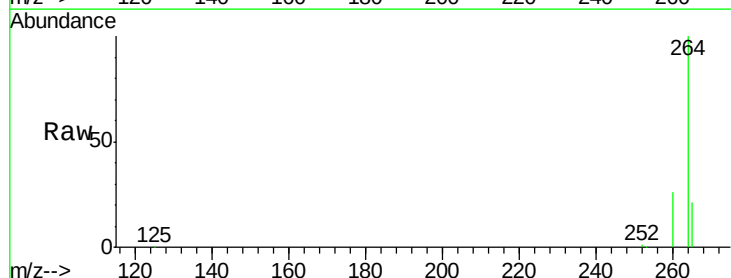
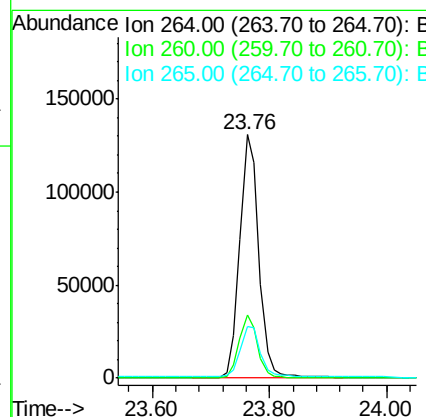
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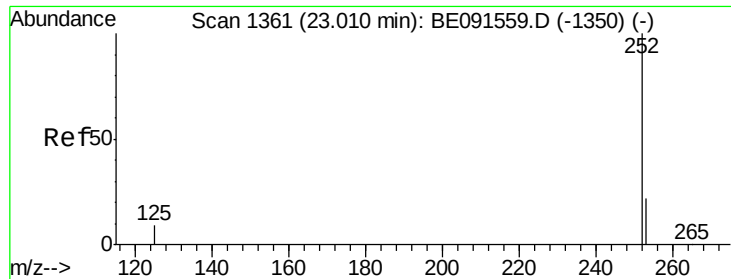
Sohil
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091586.D
Acq: 31 Mar 2016 17:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	26.0	20.1	30.1
265	21.4	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 3.15 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.02 min

Lab File: BE091586.D

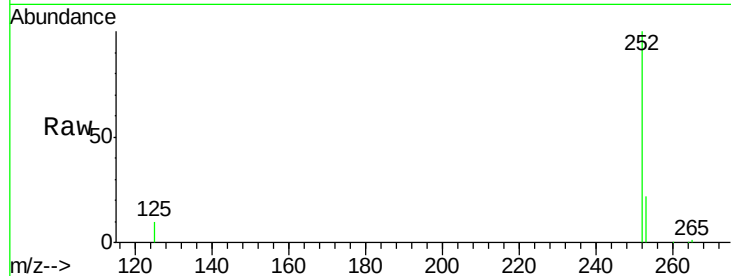
Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

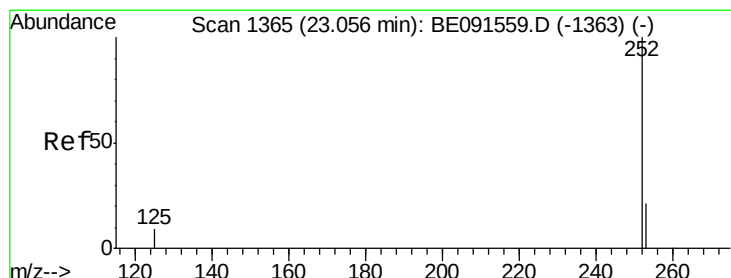
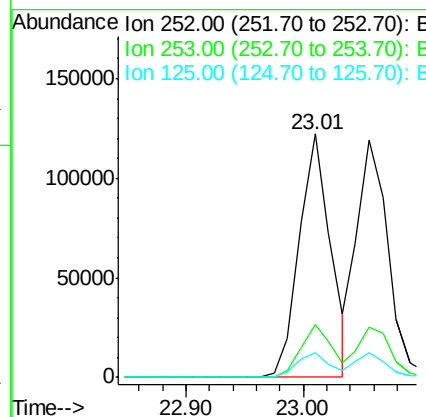
PB89151BSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.7	28.1
125	9.9	9.8	14.6

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#30

Benzo(k)fluoranthene

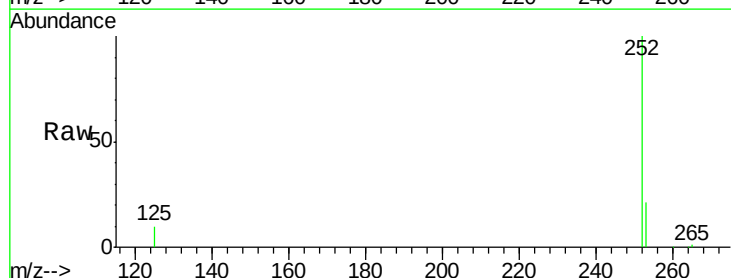
Concen: 3.18 ng

RT: 23.06 min Scan# 1366

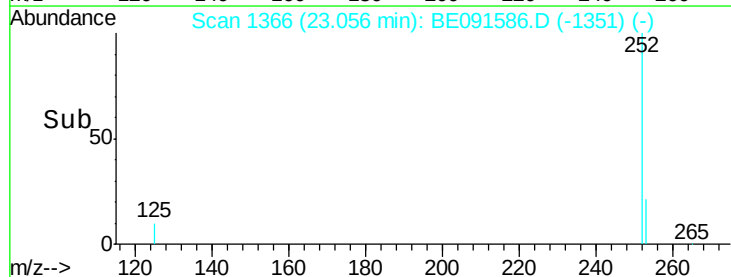
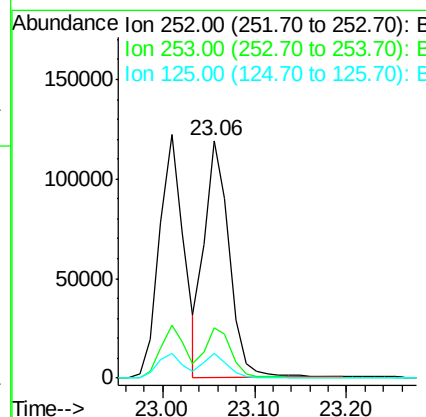
Delta R.T. -0.02 min

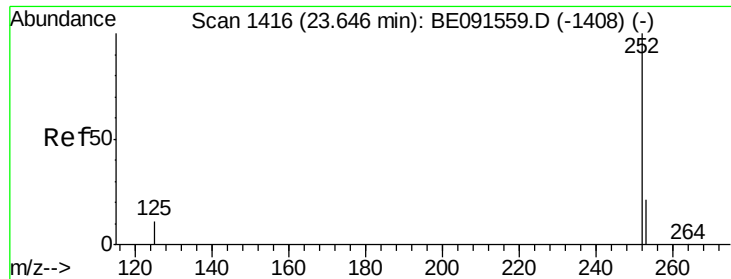
Lab File: BE091586.D

Acq: 31 Mar 2016 17:24



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	20.2	30.4
125	10.4	9.4	14.2





#31

Benzo(a)pyrene

Concen: 3.19 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091586.D

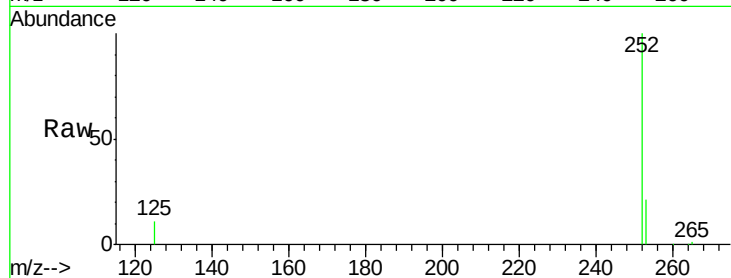
Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

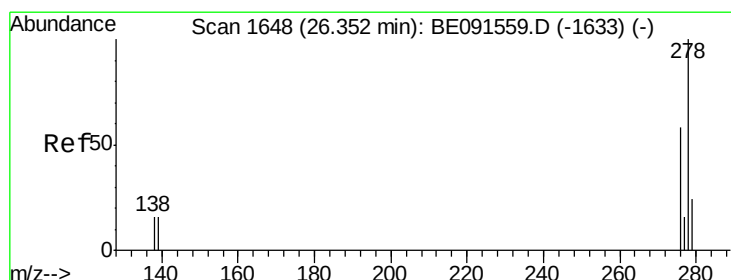
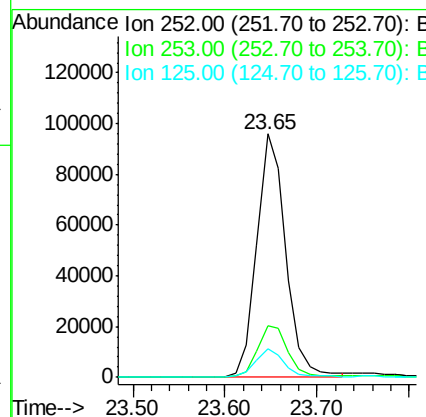
PB89151BSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	19.4	29.0
125	11.5	11.4	17.2

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#32

Dibenzo(a,h)anthracene

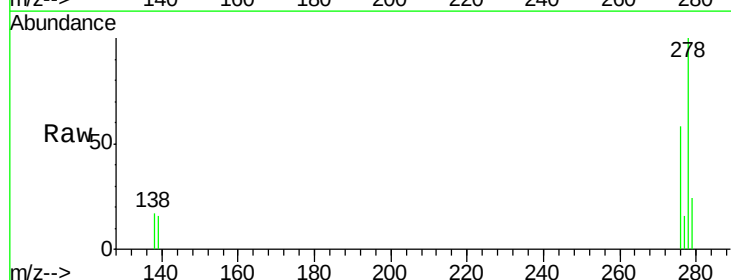
Concen: 3.19 ng

RT: 26.35 min Scan# 1649

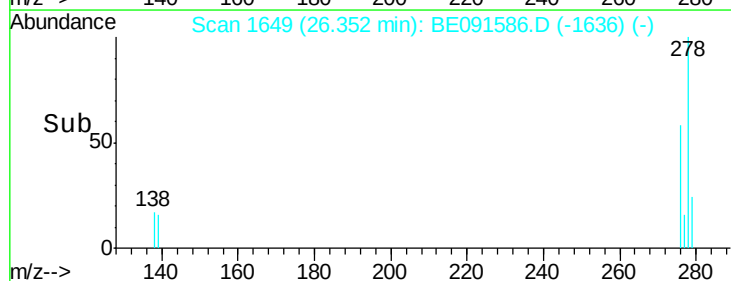
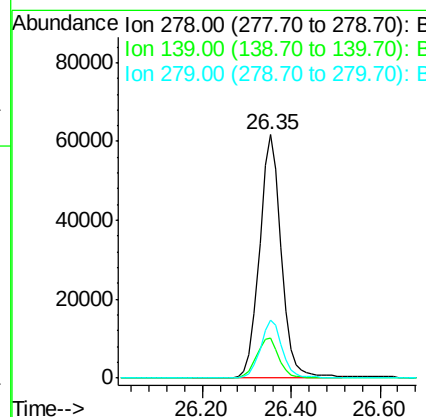
Delta R.T. -0.05 min

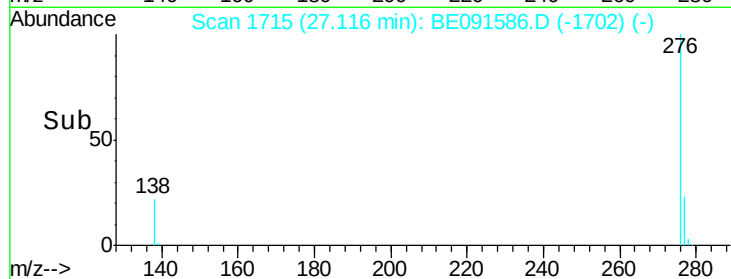
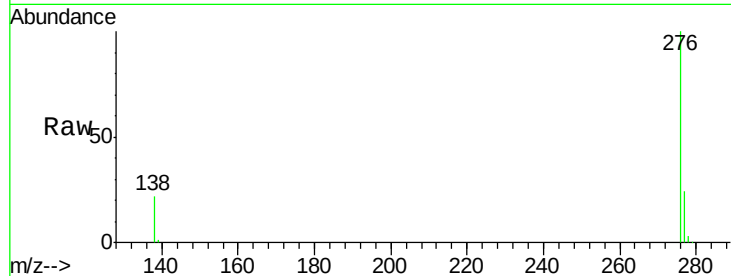
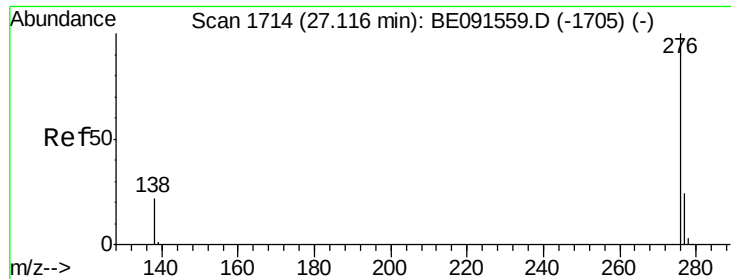
Lab File: BE091586.D

Acq: 31 Mar 2016 17:24



Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.3	14.2	21.4
279	23.8	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 3.14 ng

RT: 27.12 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091586.D

Acq: 31 Mar 2016 17:24

Instrument :

BNA_E

ClientSampleId :

PB89151BSD

Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		205949		
277	23.6	19.4	29.2		
138	21.8	18.2	27.4		

Manual Integrations
APPROVED

Sohil
4/1/2016 9:41:42 PM

