

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102116\
 Data File : BE092467.D
 Acq On : 21 Oct 2016 15:08
 Operator : UM/SJ
 Sample : PB94258BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BS

Manual Integrations
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Quant Time: Oct 21 17:28:00 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 21 17:26:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	10422	5.00	ng	0.00
7) Naphthalene-d8	10.95	136	44653	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	27686	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	47872	5.00	ng	0.00
24) Chrysene-d12	21.75	240	75732	5.00	ng	0.00
31) Perylene-d12	24.11	264	66954	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.67	112	20223	8.22	ng	-0.01
5) Phenol-d6	7.34	99	26899	7.67	ng	-0.02
8) Nitrobenzene-d5	9.34	82	12938	4.06	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	6626	6.78	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	30897	4.71	ng	-0.01
26) Terphenyl-d14	20.17	244	37776	4.02	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.41	88	4127	3.67	ng	# 80
3) n-Nitrosodimethylamine	3.76	42	6395	3.91	ng	# 95
6) bis(2-Chloroethyl)ether	7.59	93	9984	3.64	ng	# 26
9) Naphthalene	10.99	128	35653	3.69	ng	# 95
10) Hexachlorobutadiene	11.28	225	5484	3.60	ng	99
11) 2-Methylnaphthalene	12.62	142	23653	3.70	ng	# 87
15) Acenaphthylene	14.53	152	152881	3.81	ng	100
16) Acenaphthene	14.87	154	23159	3.69	ng	93
17) Fluorene	15.86	166	29670	3.73	ng	99
19) Hexachlorobenzene	16.89	284	8838	4.31	ng	# 62
20) Pentachlorophenol	17.23	266	7035	9.35	ng	# 86
21) Phenanthrene	17.60	178	50544	4.59	ng	# 94
22) Anthracene	17.70	178	49370	4.67	ng	98
23) Fluoranthene	19.61	202	210988	4.04	ng	98
25) Pyrene	19.97	202	228682	3.48	ng	99
27) Benzo(a)anthracene	21.72	228	285766m	3.87	ng	
28) Chrysene	21.77	228	256039m	3.79	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	21769	3.43	ng	# 75
30) Indeno(1,2,3-cd)pyrene	26.62	276	303882	4.24	ng	98
32) Benzo(b)fluoranthene	23.38	252	69050	4.26	ng	# 96
33) Benzo(k)fluoranthene	23.43	252	62858	3.70	ng	95
34) Benzo(a)pyrene	24.01	252	64113	4.03	ng	# 95
35) Dibenzo(a,h)anthracene	26.63	278	63079	4.33	ng	95
36) Benzo(g,h,i)perylene	27.38	276	261932	4.19	ng	97

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

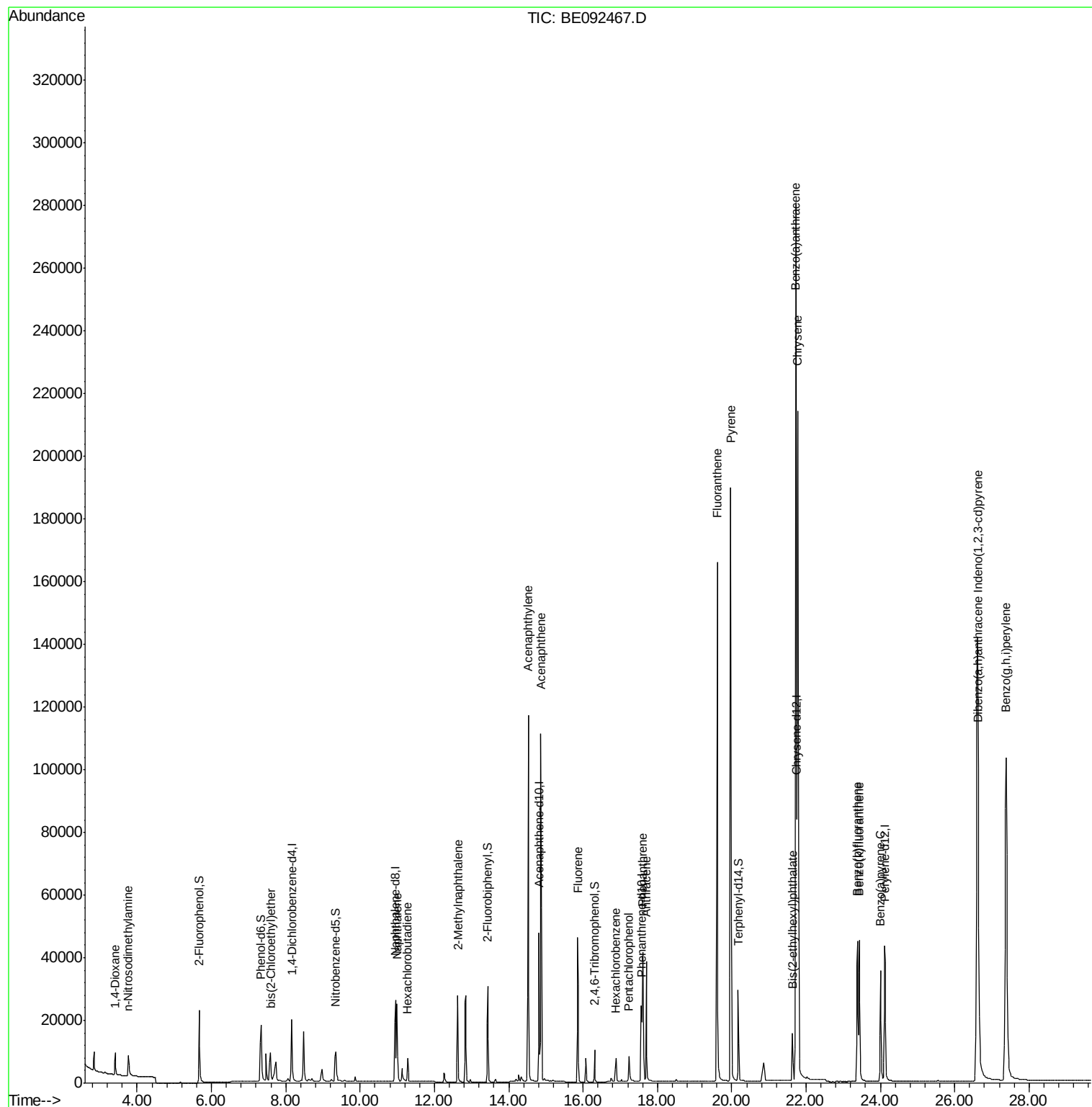
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102116\
Data File : BE092467.D
Acq On : 21 Oct 2016 15:08
Operator : UM/SJ
Sample : PB94258BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

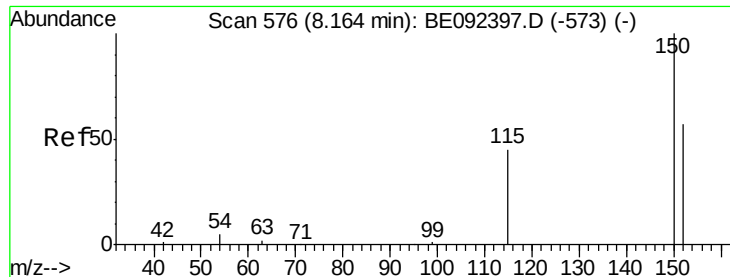
Instrument :
BNA_E
ClientSampleId :
PB94258BS

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Quant Time: Oct 21 17:28:00 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE092216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 21 17:26:45 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

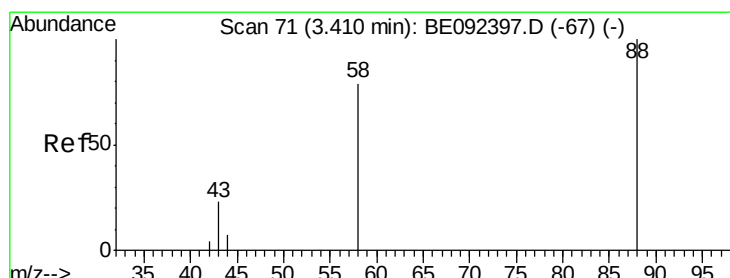
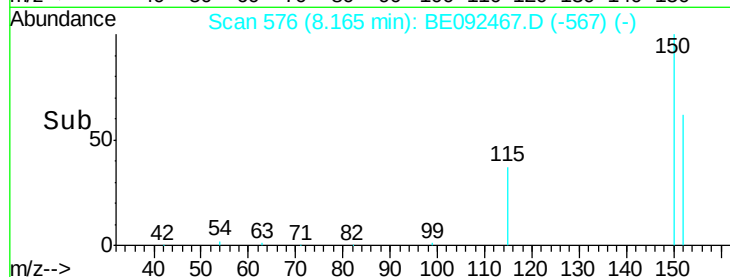
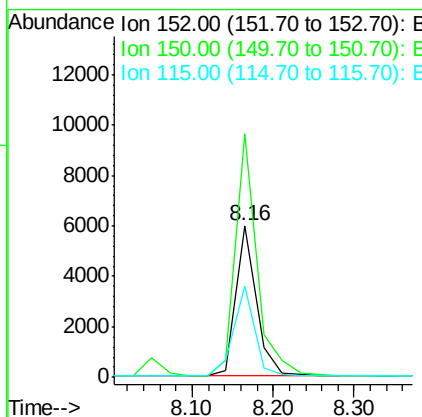
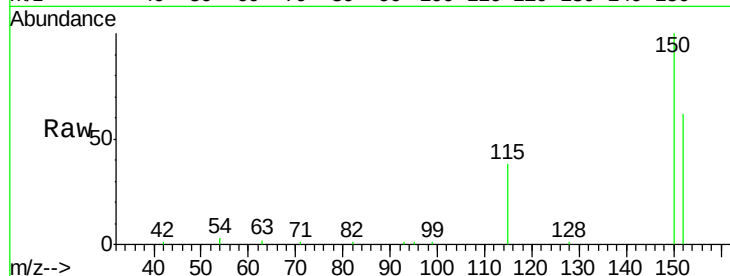
ClientSampleId :

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Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.4	106.0	159.0#
115	60.4	31.2	46.8#

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#2

1,4-Dioxane

Concen: 3.67 ng

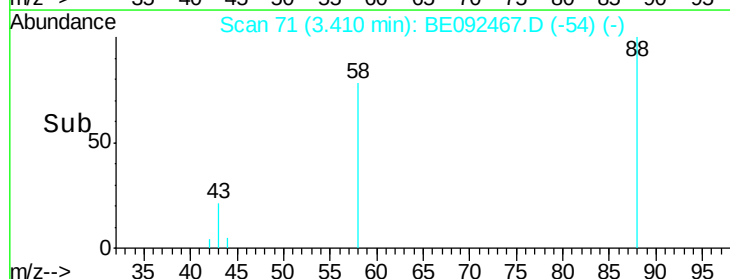
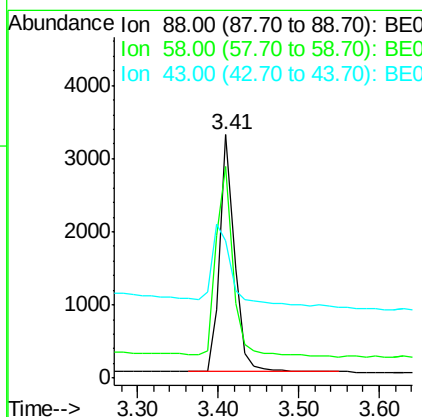
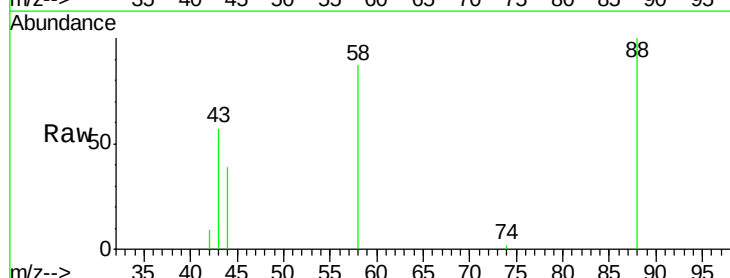
RT: 3.41 min Scan# 71

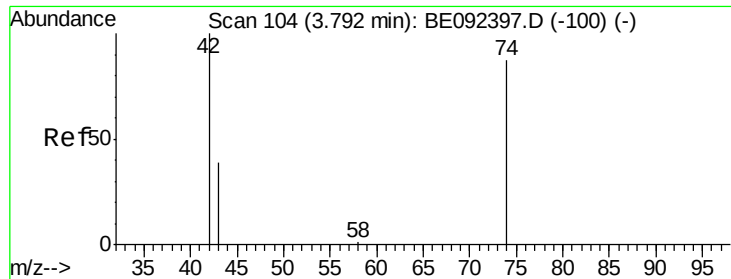
Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	93.4	63.6	95.4
43	51.2	28.0	42.0#





#3

n-Nitrosodimethylamine

Concen: 3.91 ng

RT: 3.76 min Scan# 101

Delta R.T. -0.03 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

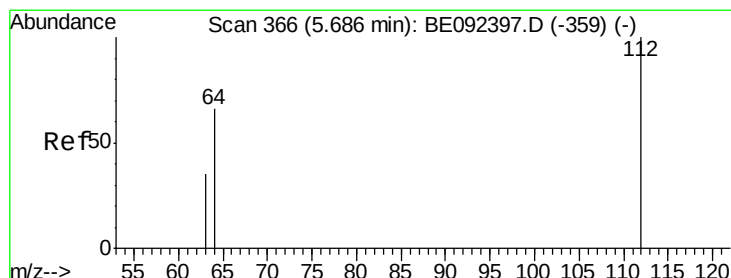
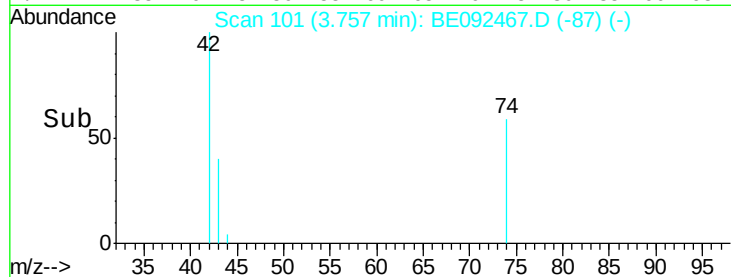
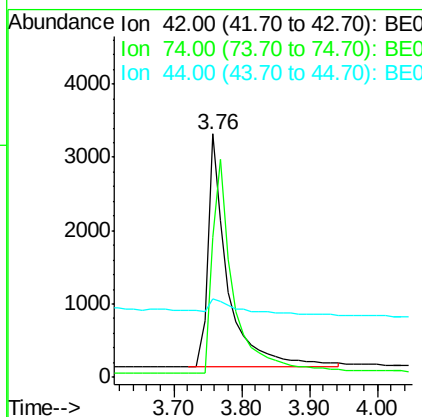
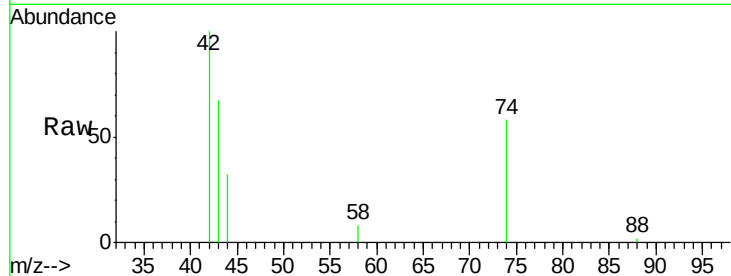
ClientSampleId :

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Tgt Ion:	42	Resp:	6395
Ion Ratio	Lower	Upper	
42	100		
74	102.9	86.0	129.0
44	9.5	5.1	7.7#

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#4

2-Fluorophenol

Concen: 8.22 ng

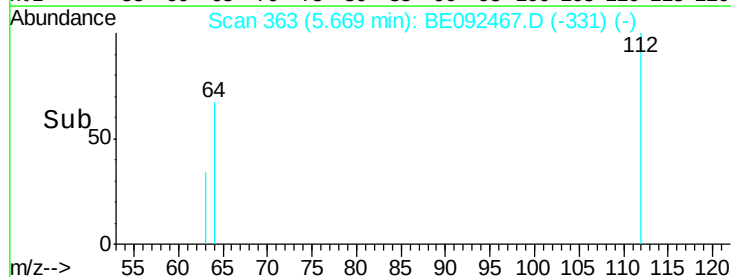
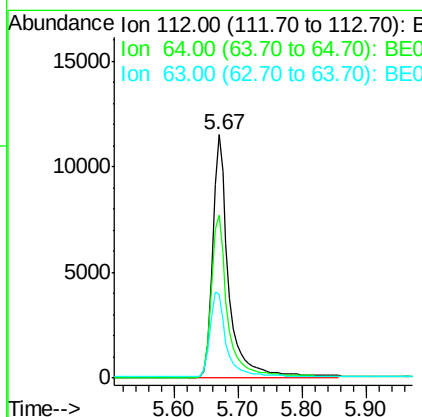
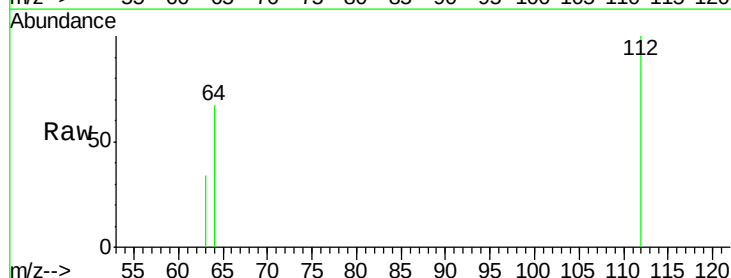
RT: 5.67 min Scan# 363

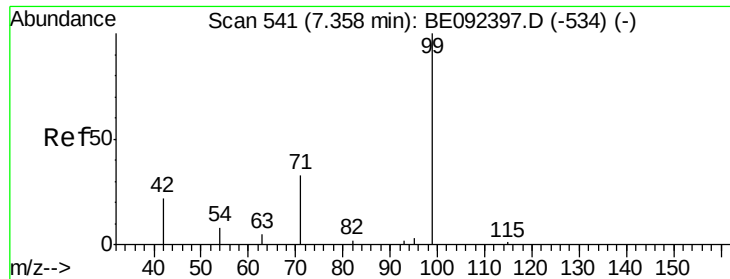
Delta R.T. -0.01 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:	112	Resp:	20223
Ion Ratio	Lower	Upper	
112	100		
64	67.8	53.5	80.3
63	36.4	27.9	41.9





#5

Phenol-d6

Concen: 7.67 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

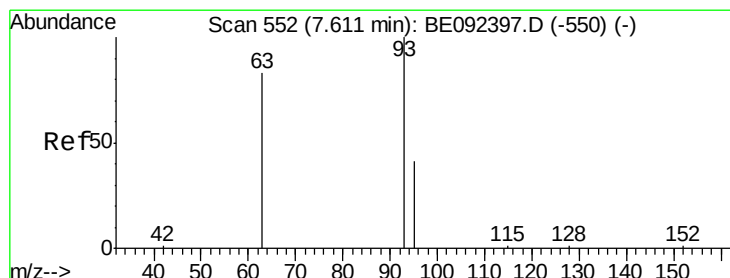
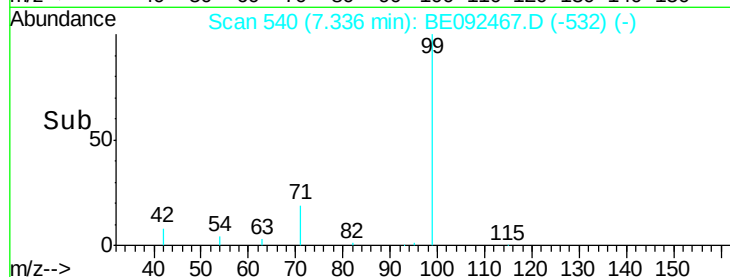
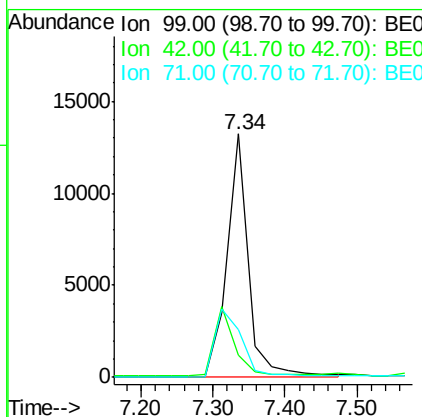
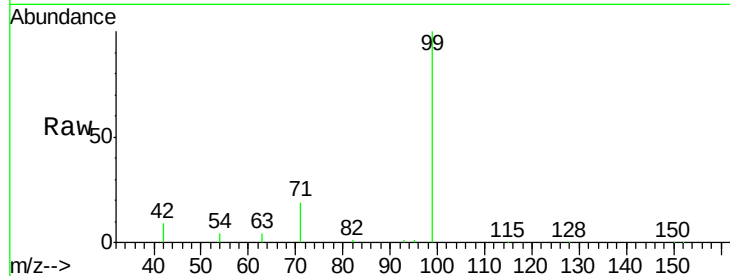
ClientSampleId :

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Tgt Ion:	99	Resp:	26899
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	0.0	30.6	45.8#

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#6

bis(2-Chloroethyl)ether

Concen: 3.64 ng

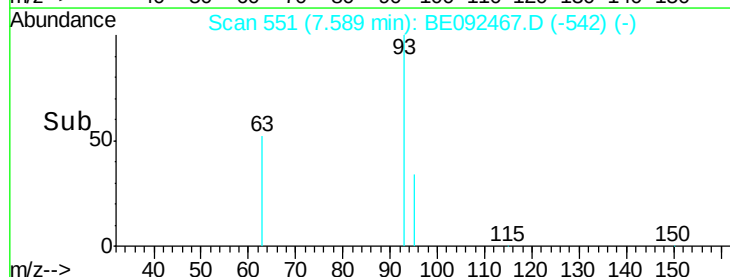
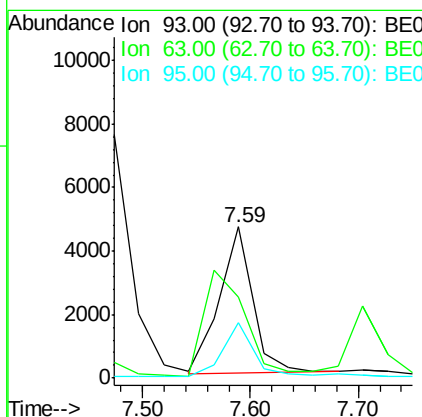
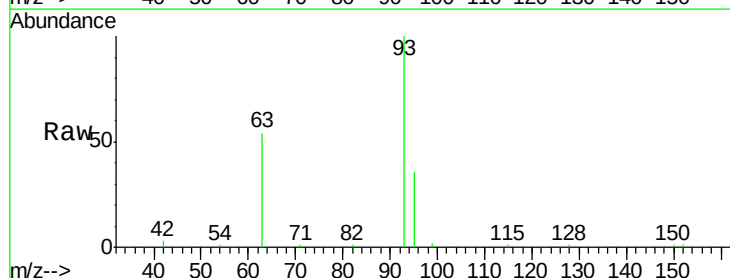
RT: 7.59 min Scan# 551

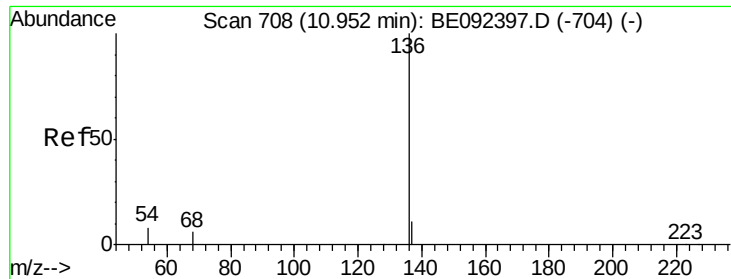
Delta R.T. -0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:	93	Resp:	9984
Ion Ratio	Lower	Upper	
93	100		
63	0.0	71.6	107.4#
95	35.0	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092467.D

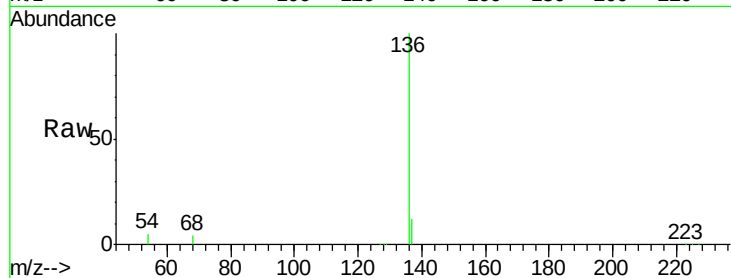
Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

ClientSampleId :

PB94258BS



Tgt Ion: 136 Resp: 44653

Ion Ratio Lower Upper

136 100

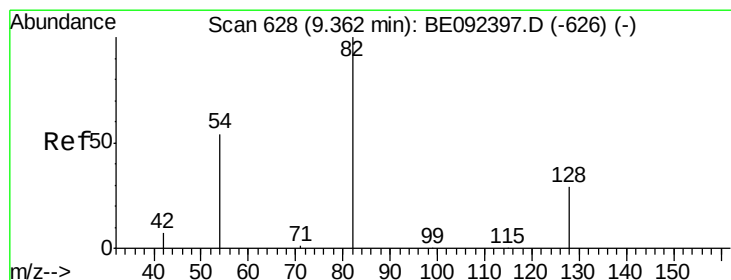
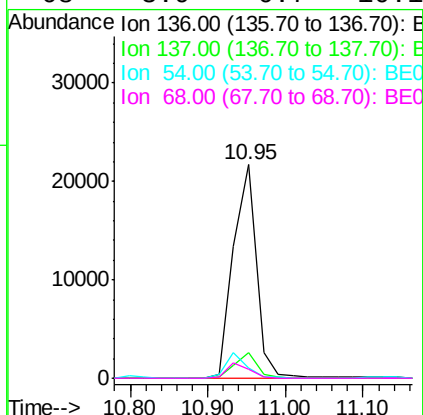
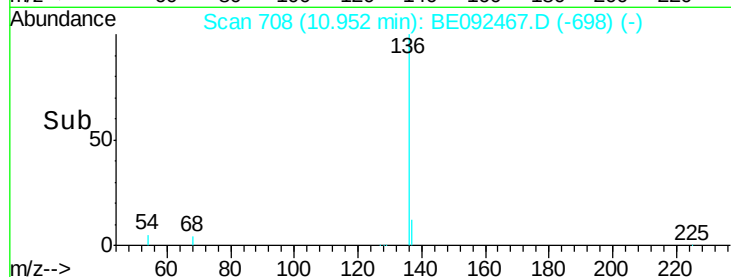
137 12.0 8.2 12.4

54 4.9 9.6 14.4#

68 3.9 6.7 10.1#

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#8

Nitrobenzene-d5

Concen: 4.06 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

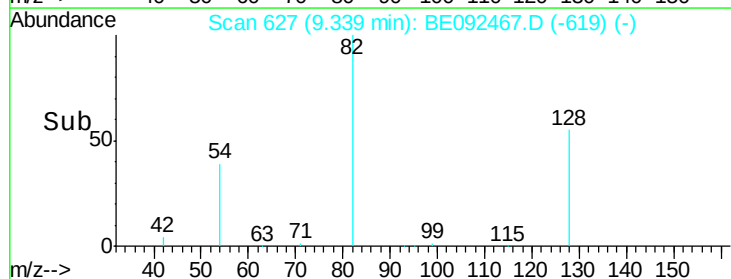
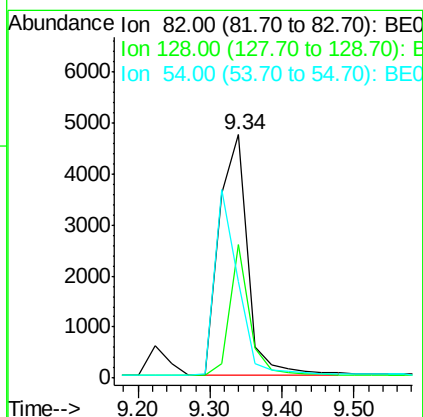
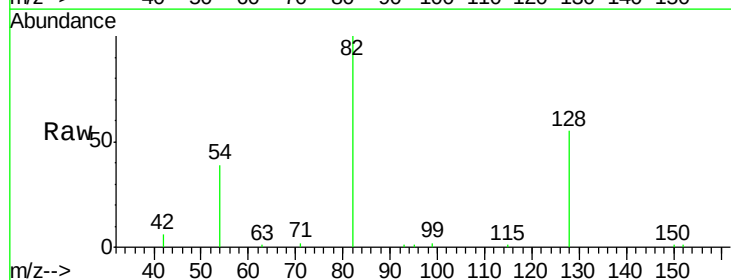
Tgt Ion: 82 Resp: 12938

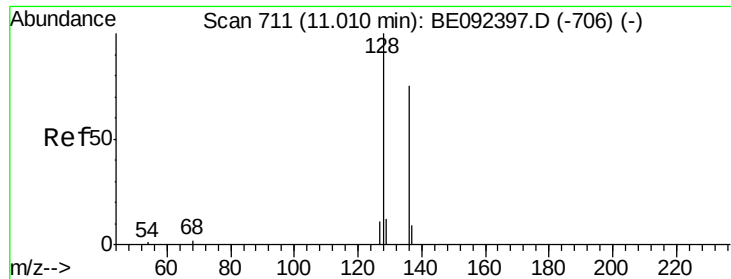
Ion Ratio Lower Upper

82 100

128 55.1 39.0 58.4

54 39.4 44.8 67.2#





#9

Naphthalene

Concen: 3.69 ng

RT: 10.99 min Scan# 710

Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

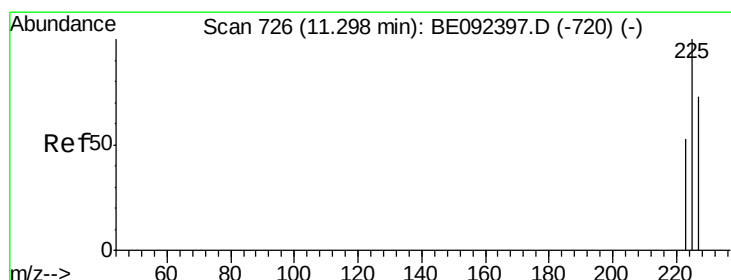
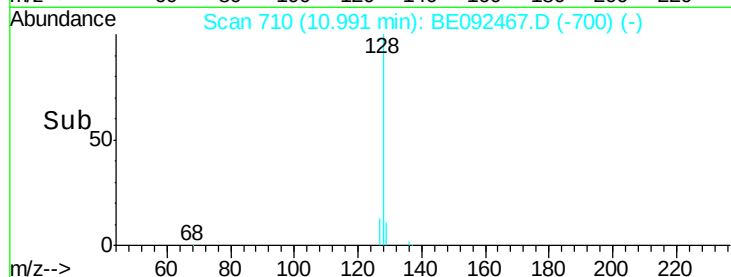
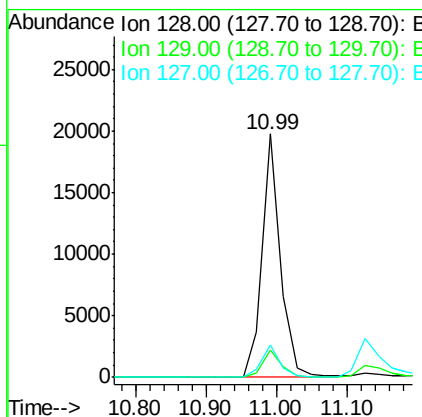
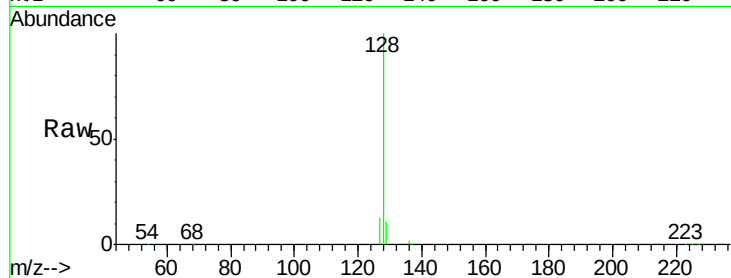
ClientSampleId :

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Tgt Ion:	128	Resp:	35653
Ion Ratio	Lower	Upper	
128	100		
129	11.1	11.2	16.8#
127	13.1	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.60 ng

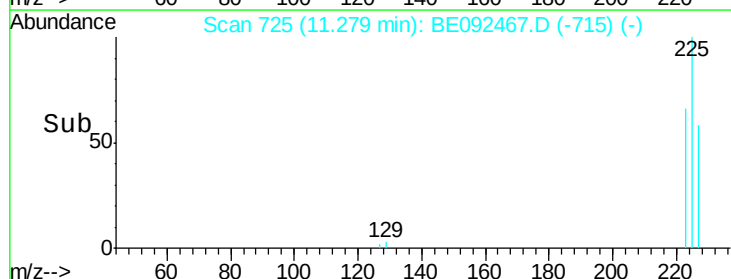
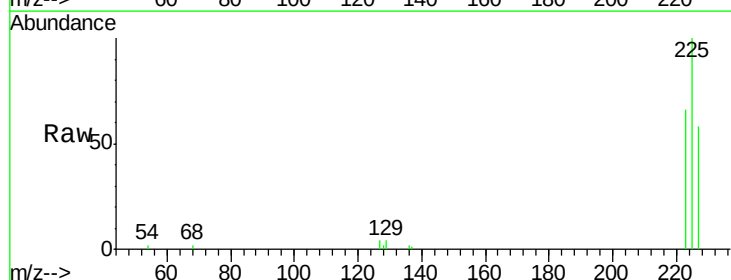
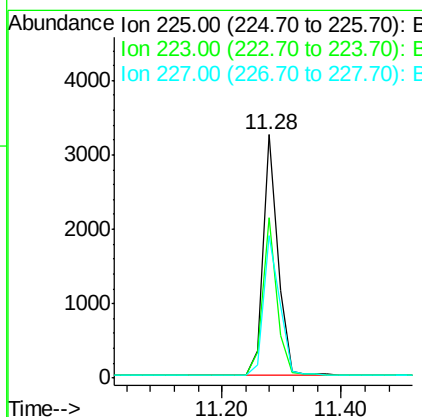
RT: 11.28 min Scan# 725

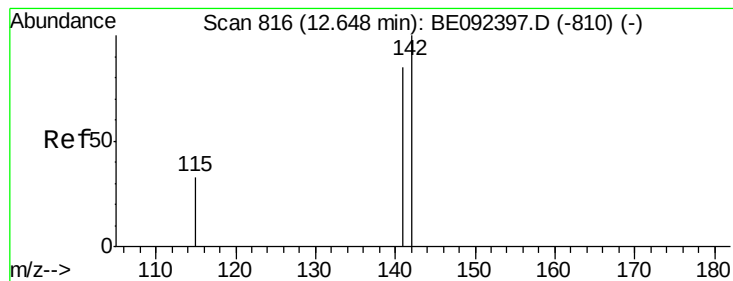
Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:	225	Resp:	5484
Ion Ratio	Lower	Upper	
225	100		
223	63.0	50.6	76.0
227	62.7	51.4	77.0





#11

2-Methylnaphthalene

Concen: 3.70 ng

RT: 12.62 min Scan# 814

Delta R.T. -0.01 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

ClientSampleId :

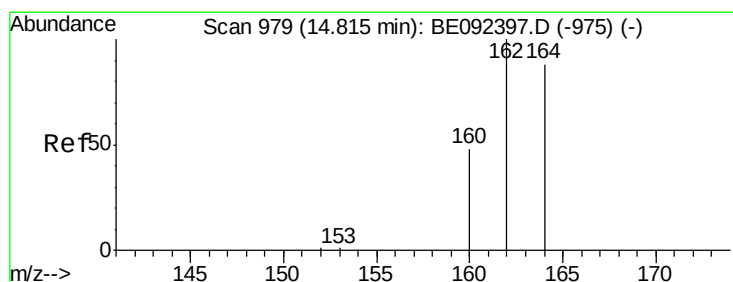
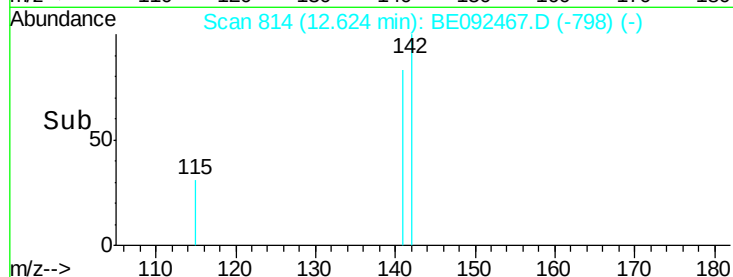
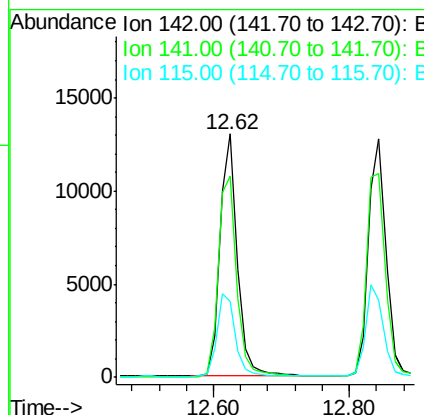
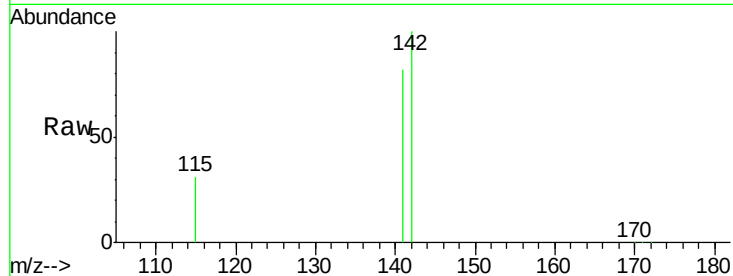
PB94258BS

Tgt Ion:142 Resp: 23653

Ion	Ratio	Lower	Upper
142	100		
141	82.5	73.7	110.5
115	31.0	34.0	51.0#

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.82 min Scan# 980

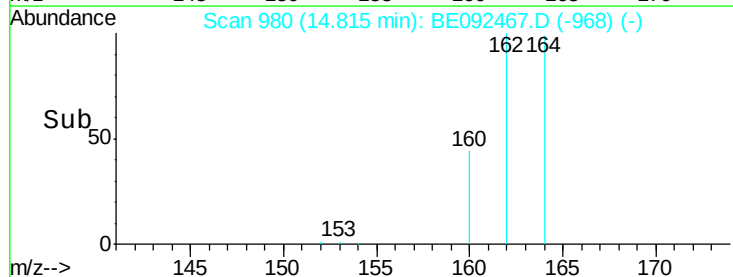
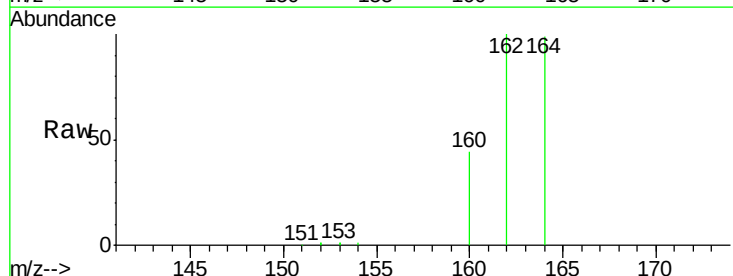
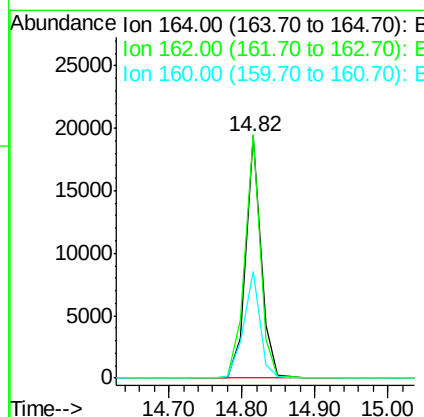
Delta R.T. -0.00 min

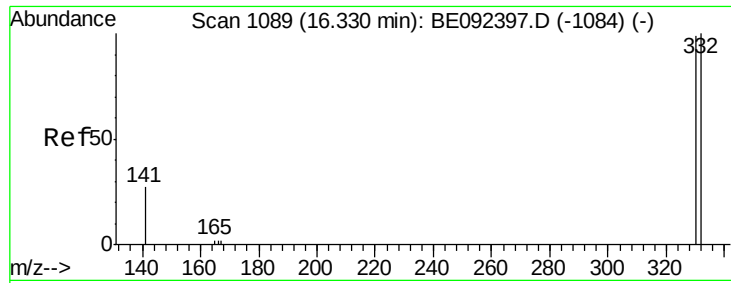
Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:164 Resp: 27686

Ion	Ratio	Lower	Upper
164	100		
162	100.6	71.4	107.0
160	44.3	27.4	41.2#





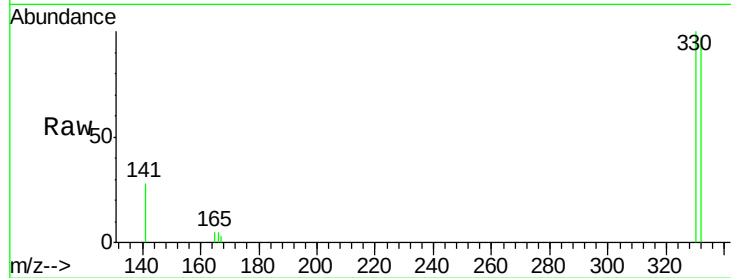
#13
 2,4,6-Tribromophenol
 Concen: 6.78 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BS

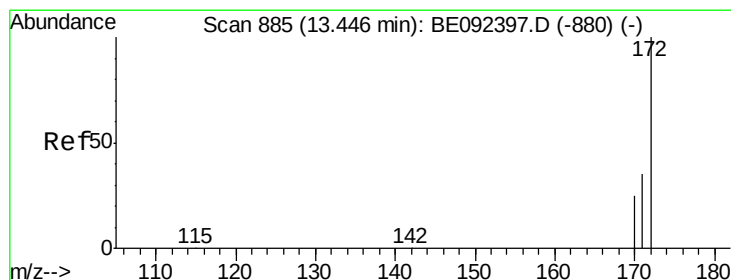
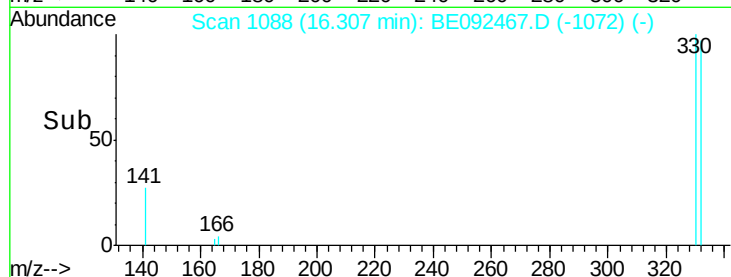
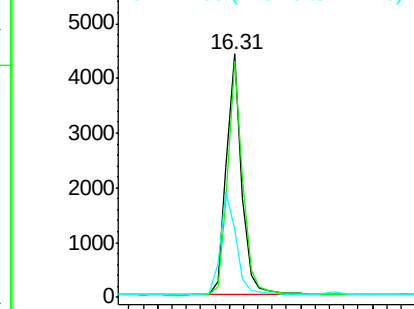
Tgt Ion: 330 Resp: 6626
 Ion Ratio Lower Upper
 330 100
 332 96.2 75.4 113.0
 141 43.3 31.0 46.6

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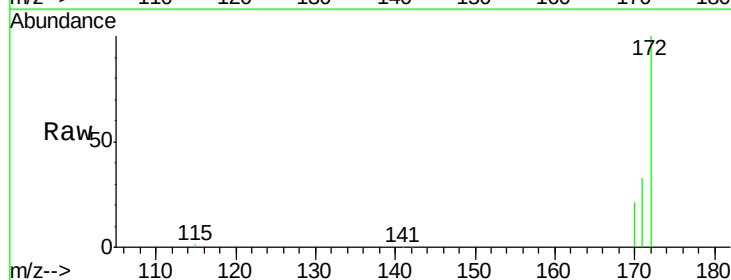


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

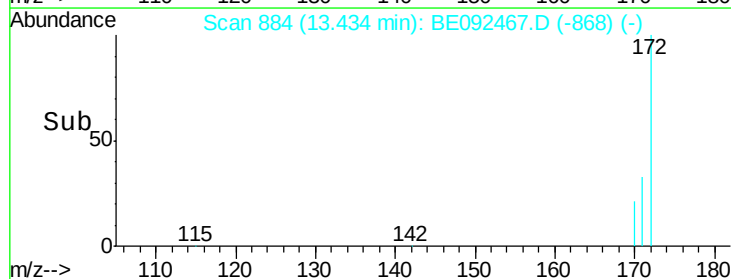
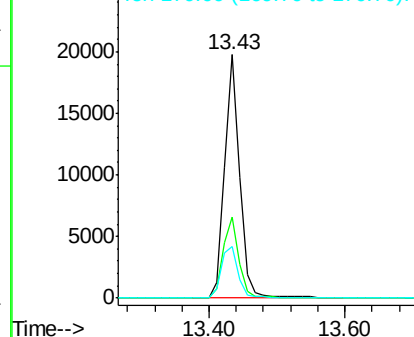


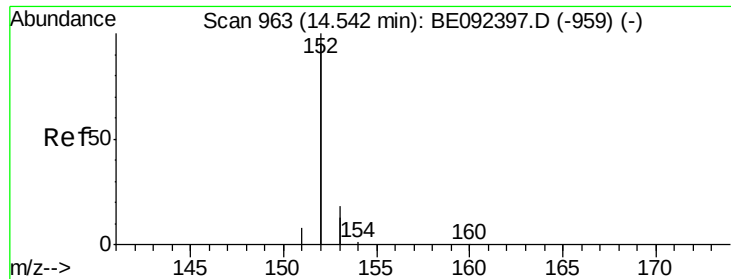
#14
 2-Fluorobiphenyl
 Concen: 4.71 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Tgt Ion: 172 Resp: 30897
 Ion Ratio Lower Upper
 172 100
 171 33.3 30.1 45.1
 170 21.4 21.8 32.6#



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





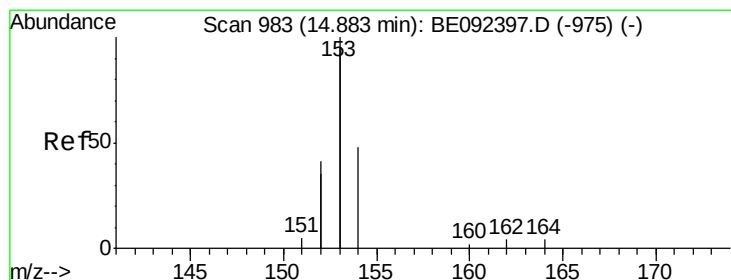
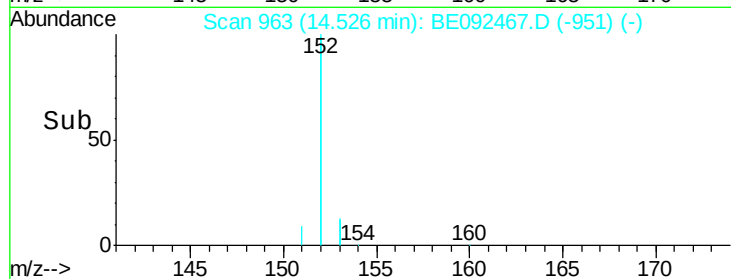
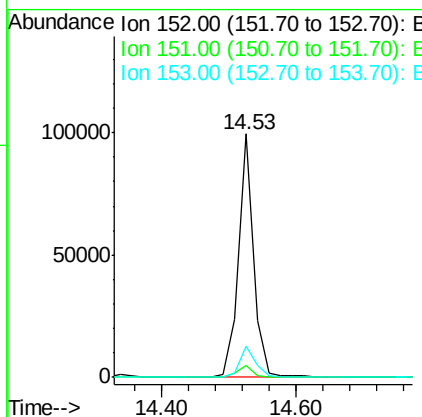
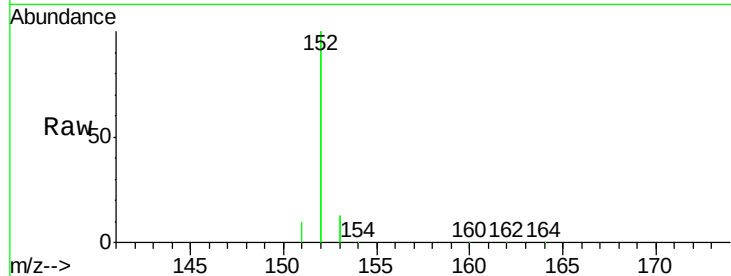
#15
Acenaphthylene
Concen: 3.81 ng
RT: 14.53 min Scan# 963
Delta R.T. -0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Instrument :
BNA_E
ClientSampleId :
PB94258BS

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.1	10.4	15.6

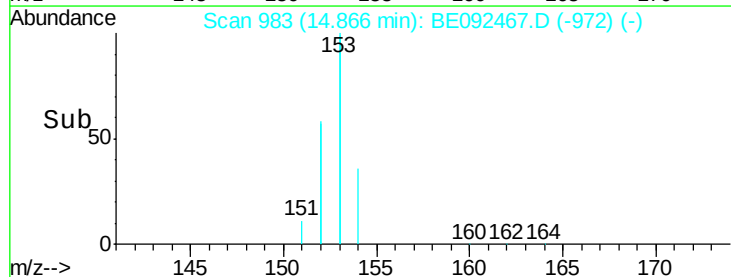
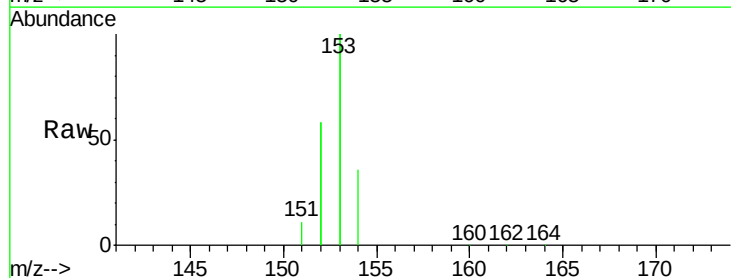
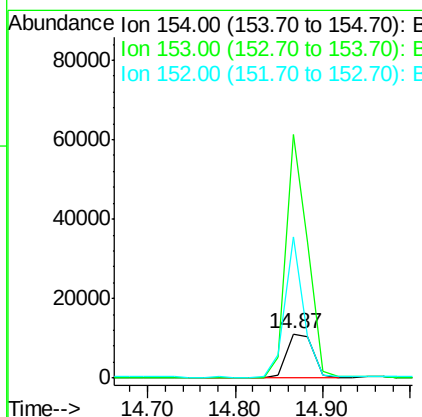
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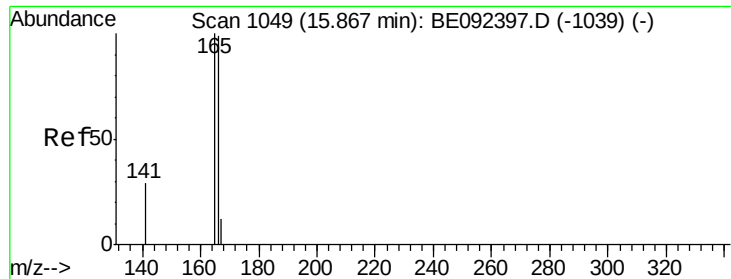
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#16
Acenaphthene
Concen: 3.69 ng
RT: 14.87 min Scan# 983
Delta R.T. -0.02 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
154	100		
153	453.0	350.8	526.2
152	229.7	171.1	256.7





#17

Fluorene

Concen: 3.73 ng

RT: 15.86 min Scan# 1049

Delta R.T. -0.01 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

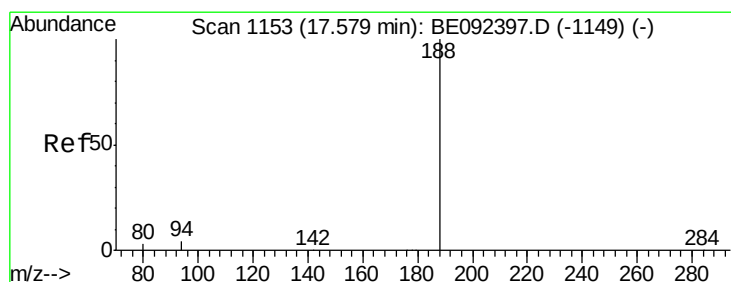
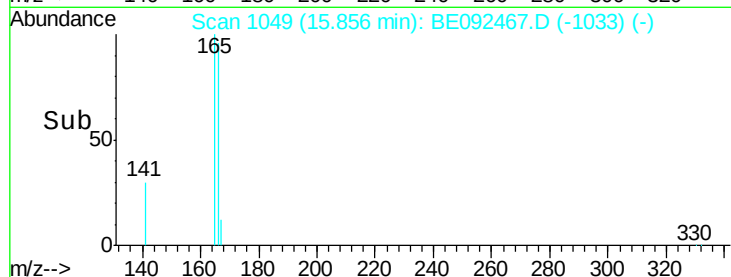
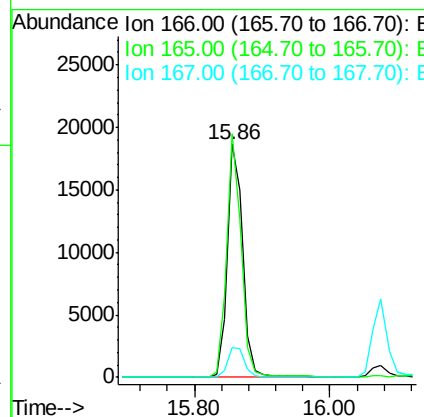
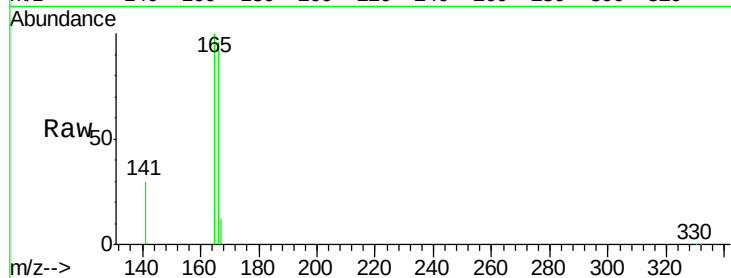
ClientSampleId :

PB94258BS

Tgt Ion:	166	Resp:	29670
Ion Ratio	Lower	Upper	
166	100		
165	98.8	78.2	117.4
167	13.6	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

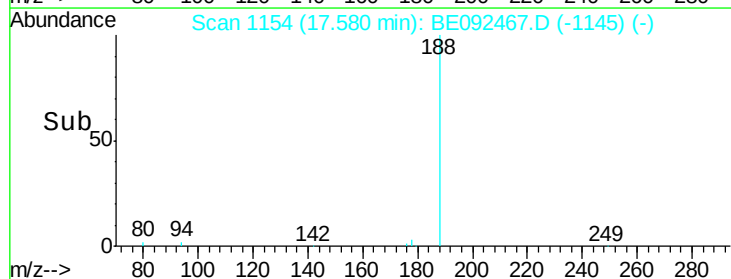
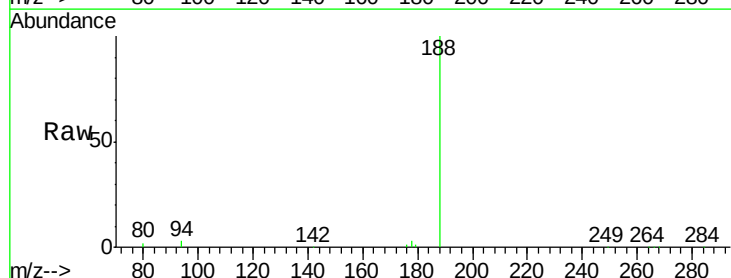
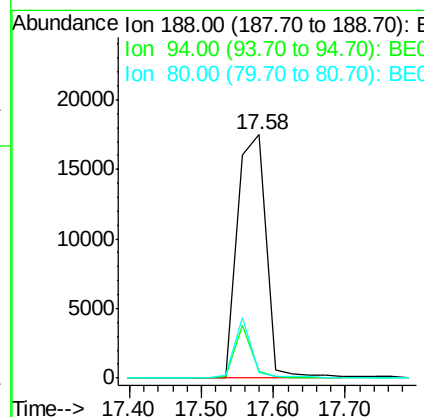
RT: 17.58 min Scan# 1154

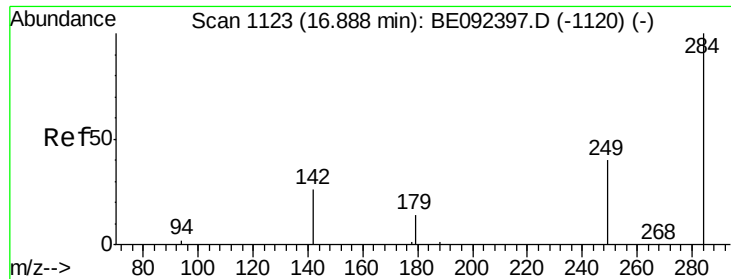
Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:	188	Resp:	47872
Ion Ratio	Lower	Upper	
188	100		
94	2.5	3.2	4.8#
80	2.1	2.6	3.8#





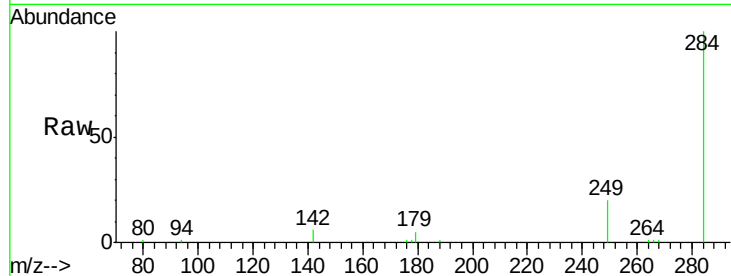
#19
Hexachlorobenzene
Concen: 4.31 ng
RT: 16.89 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Instrument :
BNA_E
ClientSampleId :
PB94258BS

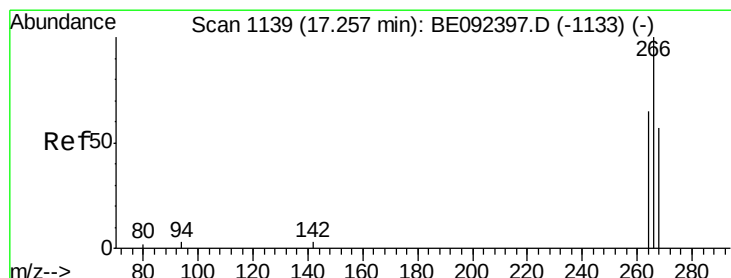
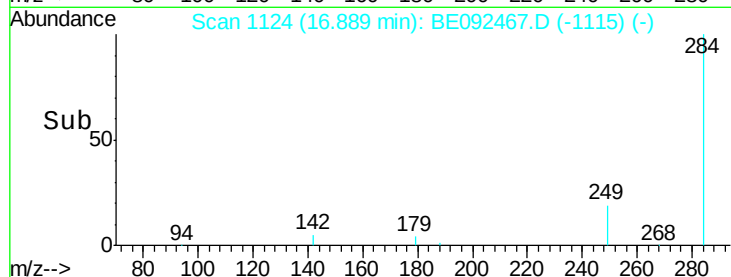
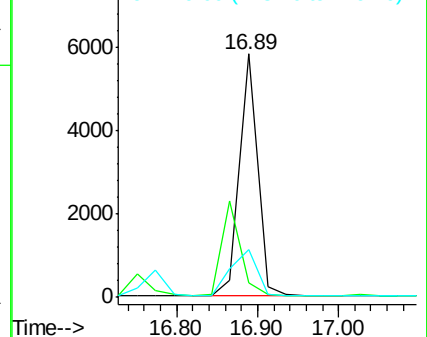
Tgt Ion	Ratio	Resp	Lower	Upper
284	100	8838		
142	0.0	29.1	43.7#	
249	27.6	27.9	41.9#	

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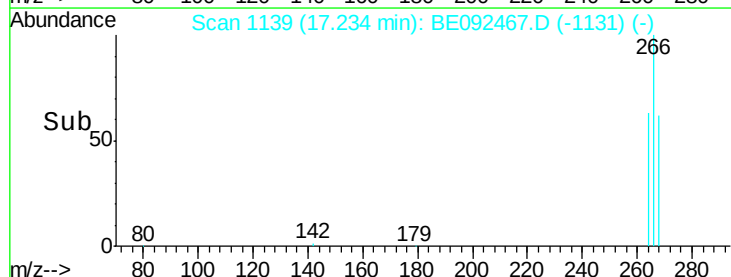
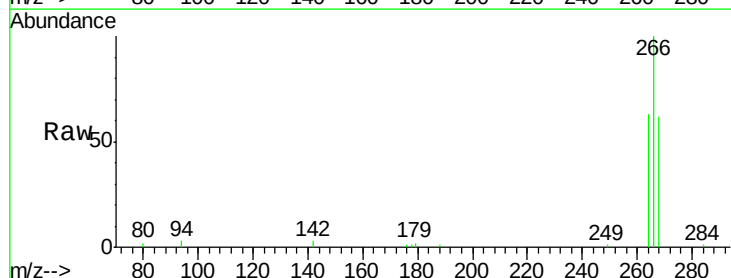
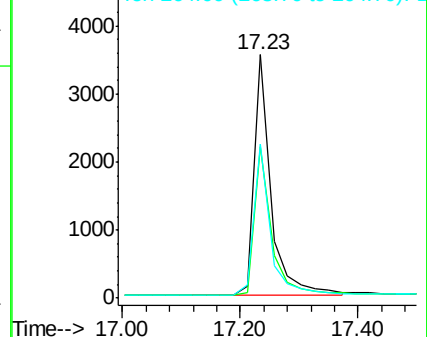
Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

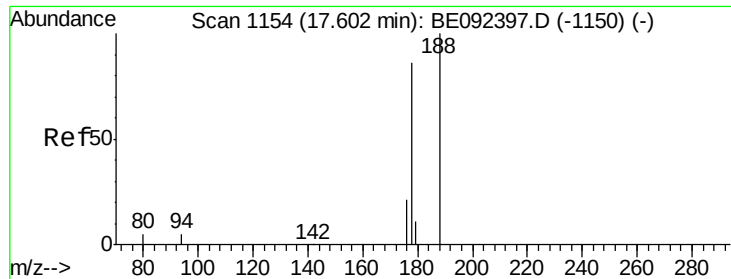


#20
Pentachlorophenol
Concen: 9.35 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.02 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	7035		
268	62.2	62.5	93.7#	
264	63.5	57.2	85.8	

Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 4.59 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

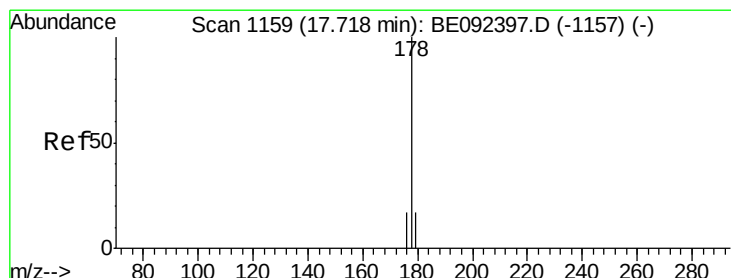
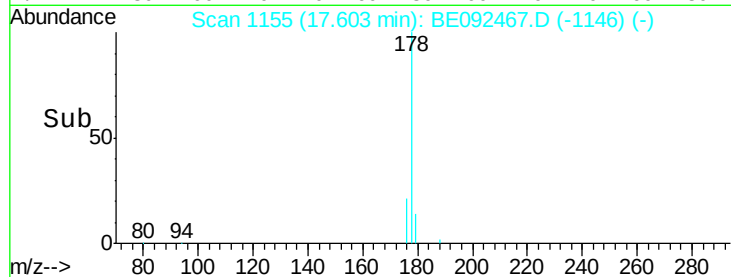
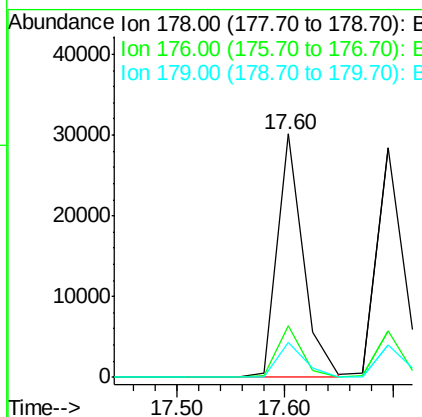
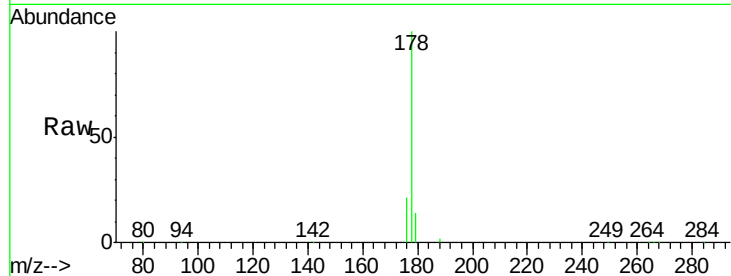
ClientSampleId :

PB94258BS

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.8
179	15.1	16.0	24.0

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#22

Anthracene

Concen: 4.67 ng

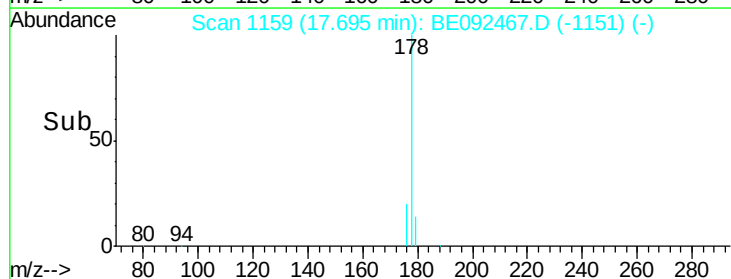
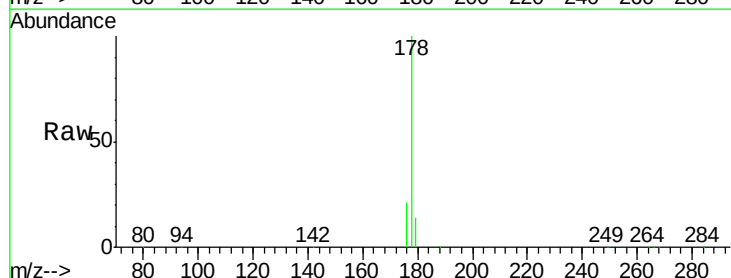
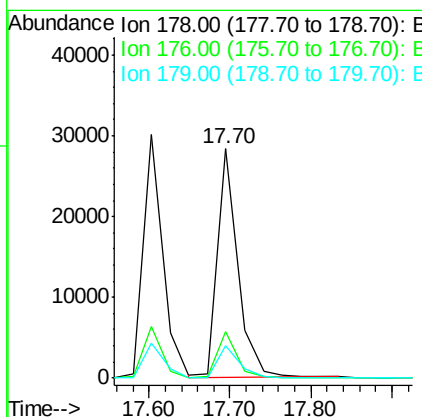
RT: 17.70 min Scan# 1159

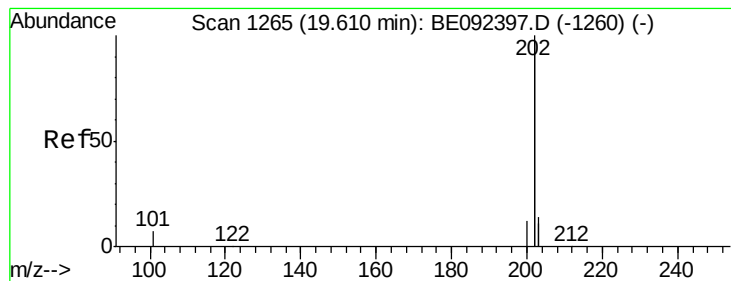
Delta R.T. -0.02 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.0	22.4
179	14.7	12.2	18.2





#23

Fluoranthene

Concen: 4.04 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Instrument :

BNA_E

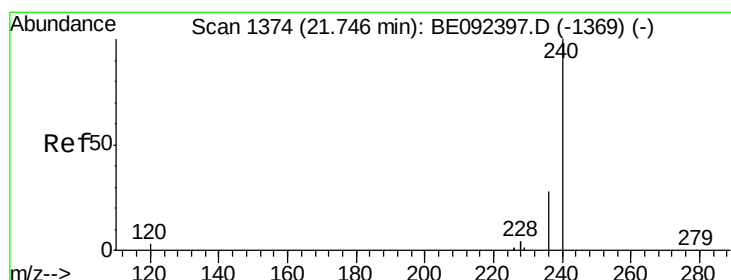
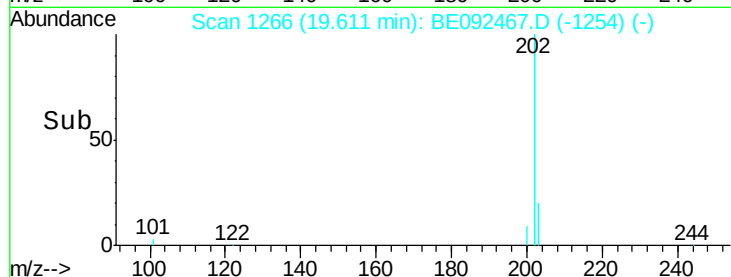
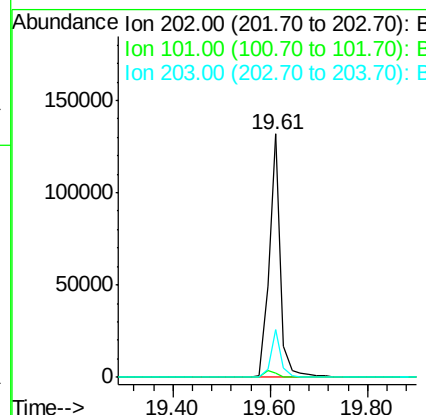
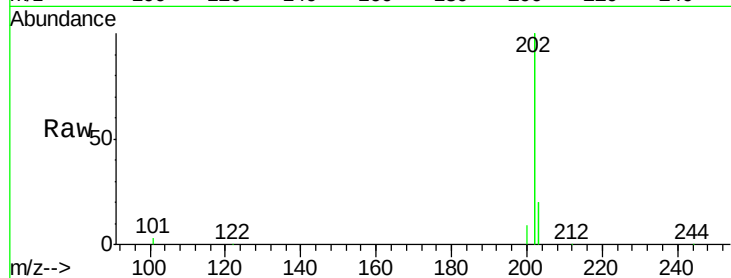
ClientSampleId :

PB94258BS

Tgt Ion:	202	Resp:	210988
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.4
203	18.0	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

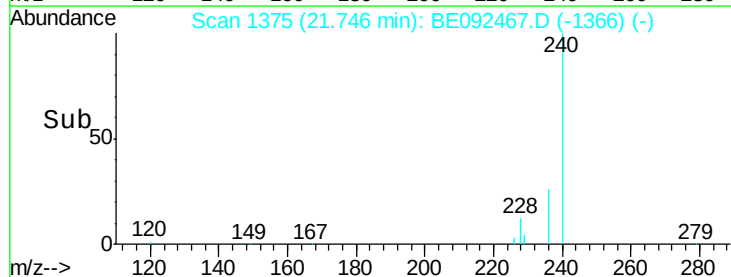
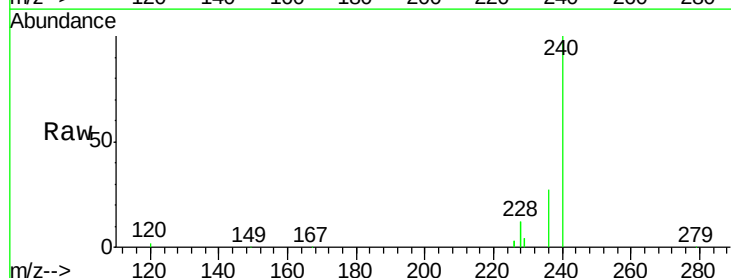
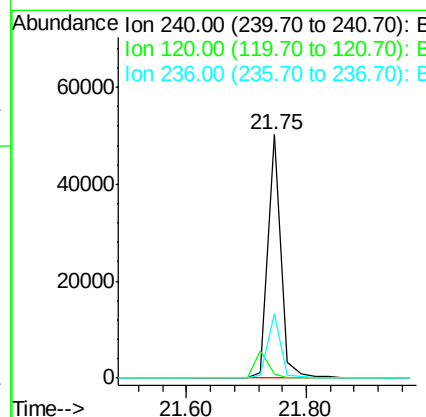
RT: 21.75 min Scan# 1375

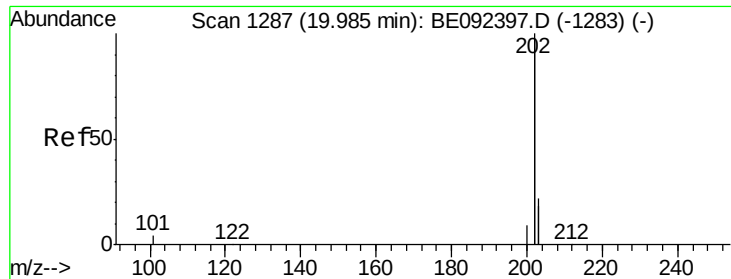
Delta R.T. 0.00 min

Lab File: BE092467.D

Acq: 21 Oct 2016 15:08

Tgt Ion:	240	Resp:	75732
Ion Ratio	Lower	Upper	
240	100		
120	1.6	2.6	4.0#
236	26.5	24.6	37.0





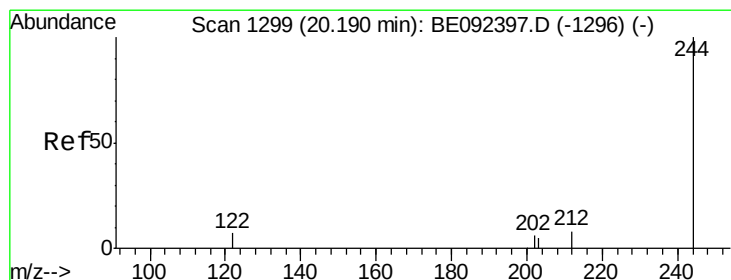
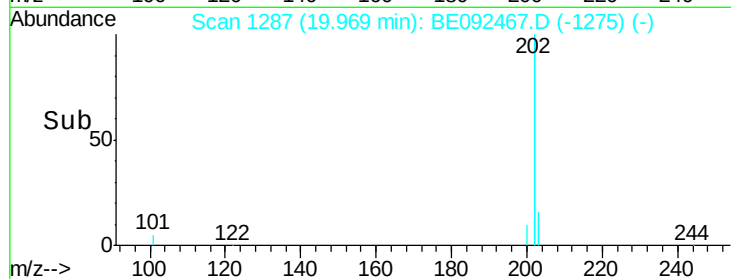
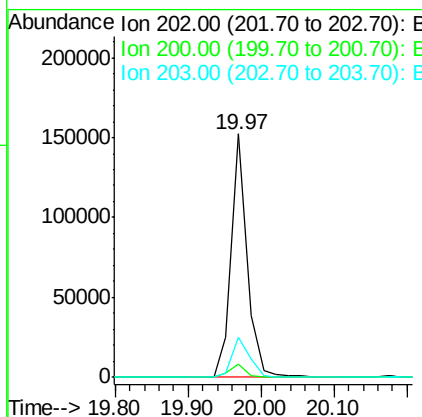
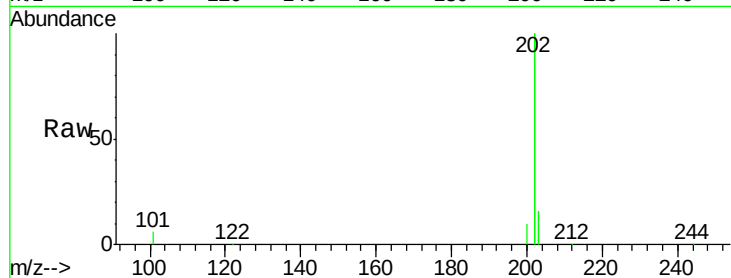
#25
 Pyrene
 Concen: 3.48 ng
 RT: 19.97 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	5.3	4.2	6.4
203	18.0	13.9	20.9

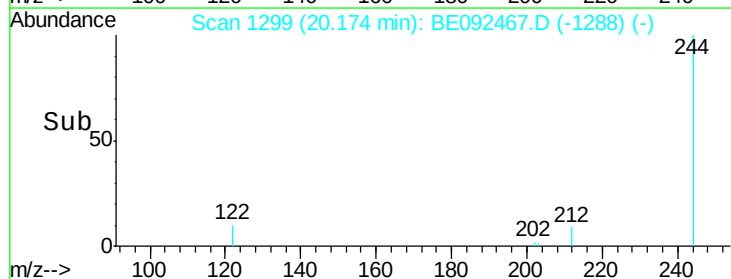
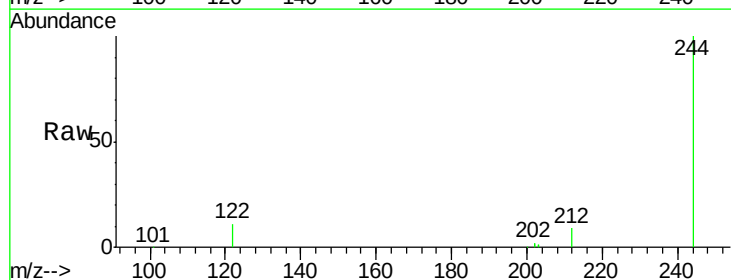
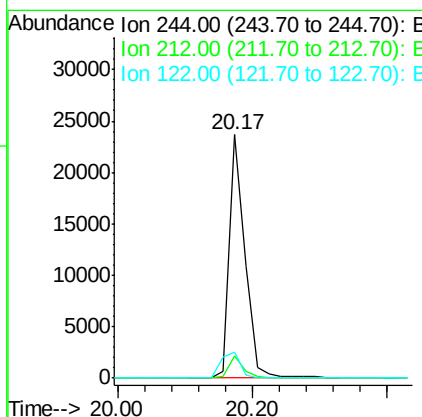
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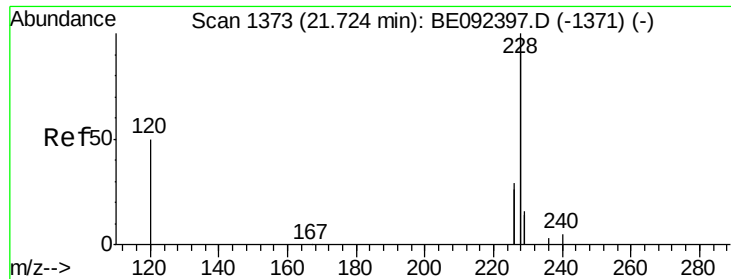
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#26
 Terphenyl-d14
 Concen: 4.02 ng
 RT: 20.17 min Scan# 1299
 Delta R.T. -0.02 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.4	6.7	10.1
122	10.5	3.6	5.4#





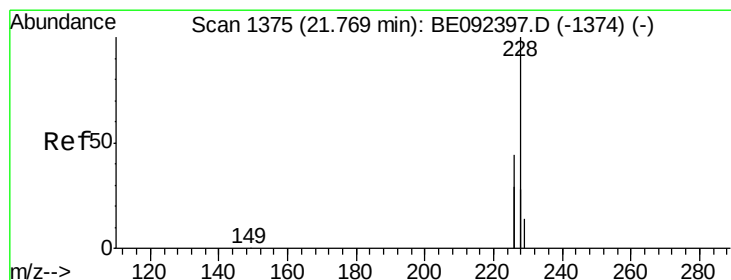
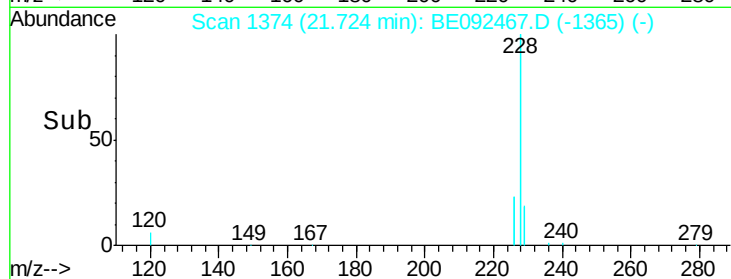
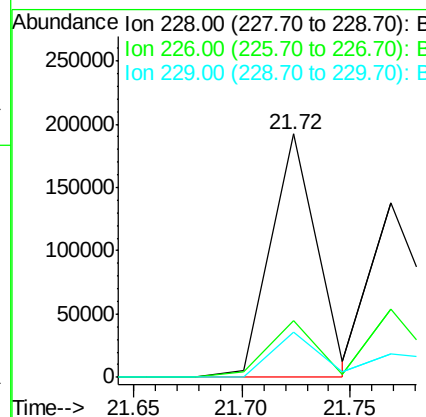
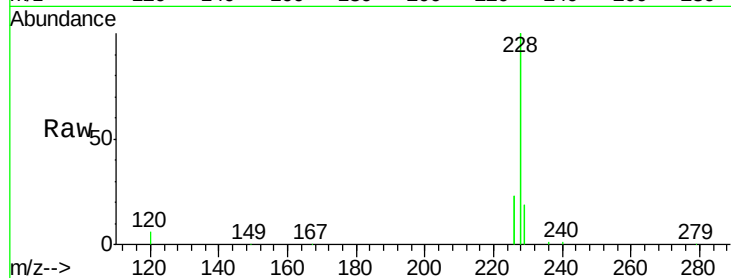
#27
Benzo(a)anthracene
Concen: 3.87 ng m
RT: 21.72 min Scan# 1374
Delta R.T. 0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Instrument :
BNA_E
ClientSampled :
PB94258BS

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.4	23.6	35.4#
229	18.7	13.3	19.9

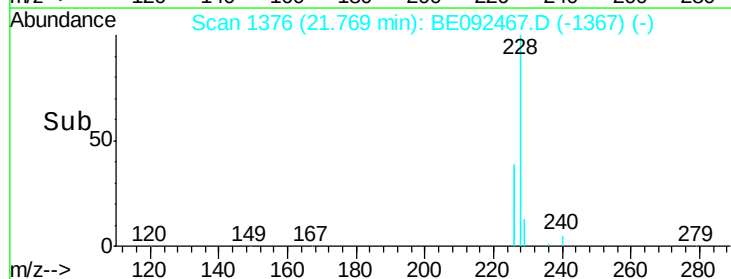
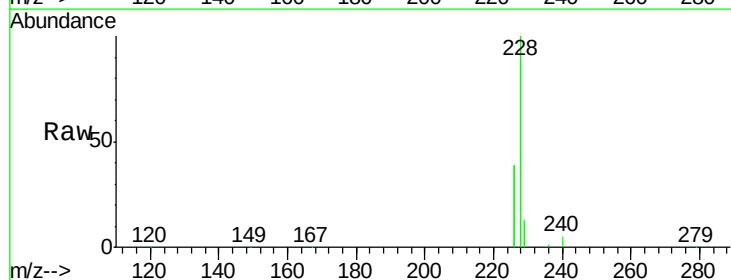
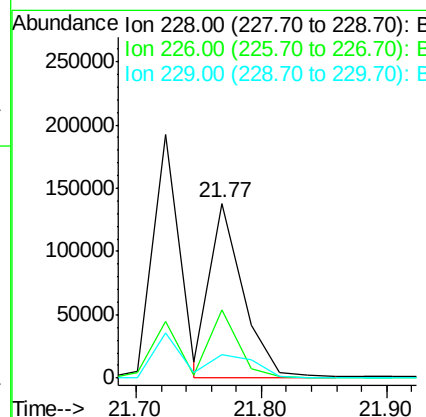
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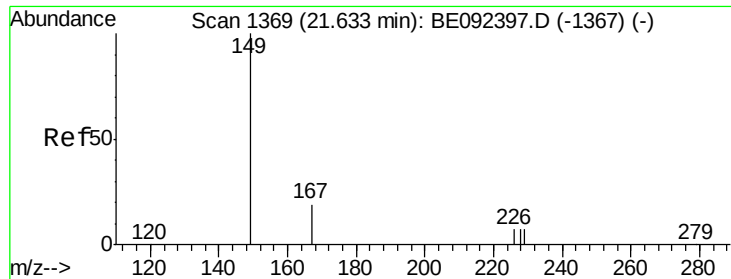
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#28
Chrysene
Concen: 3.79 ng m
RT: 21.77 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	38.7	36.3	54.5
229	13.4	10.6	16.0





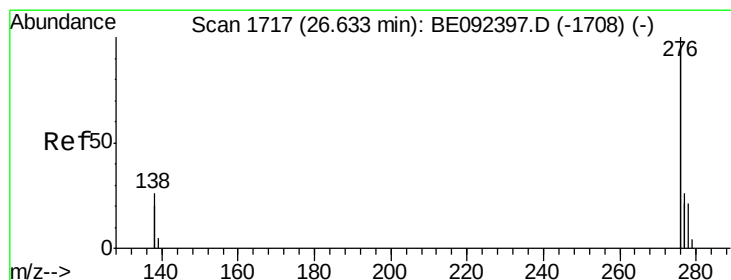
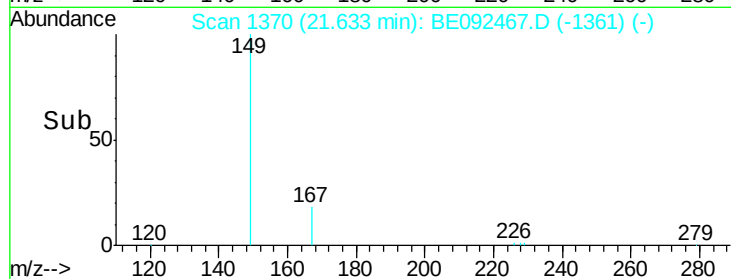
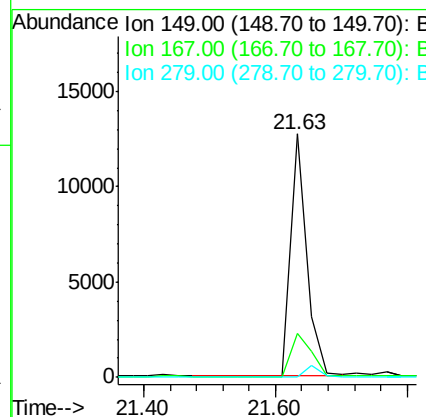
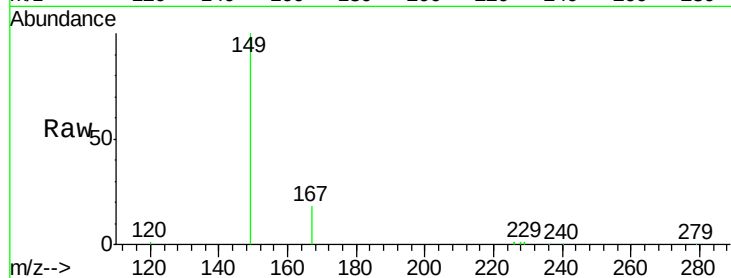
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 3.43 ng
 RT: 21.63 min Scan# 1370
 Delta R.T. 0.00 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BS

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.9	16.0	24.0
279	0.0	16.0	24.0

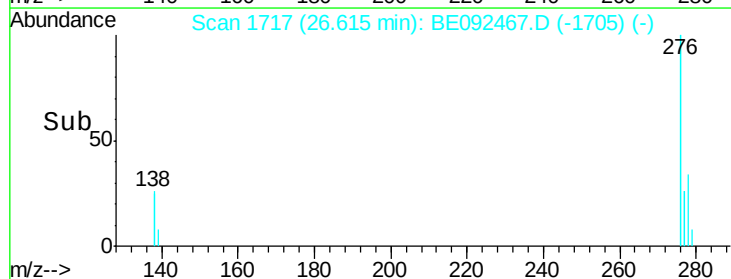
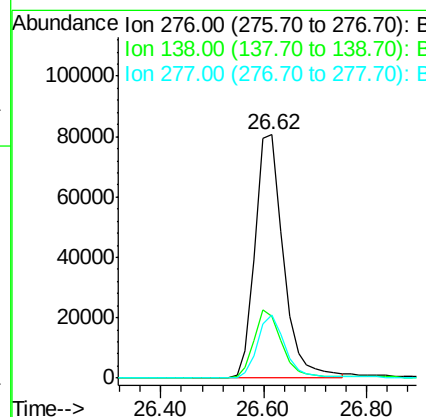
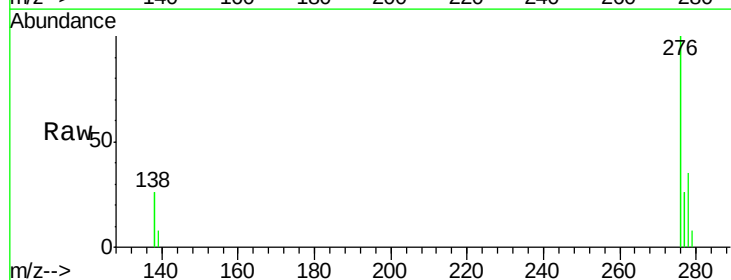
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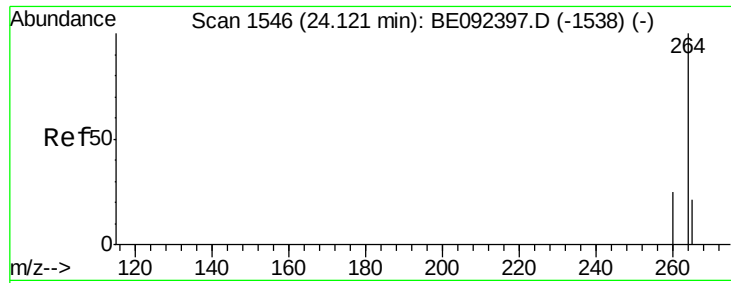
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 4.24 ng
 RT: 26.62 min Scan# 1717
 Delta R.T. -0.00 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.6	20.3	30.5
277	24.8	19.7	29.5





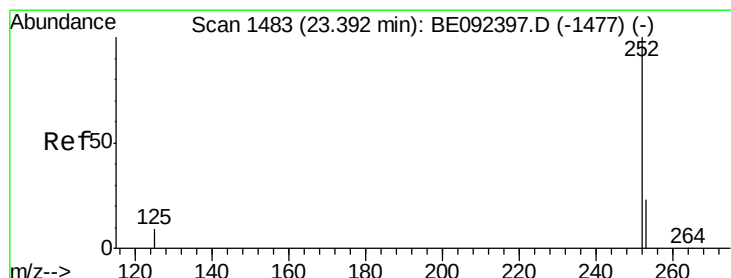
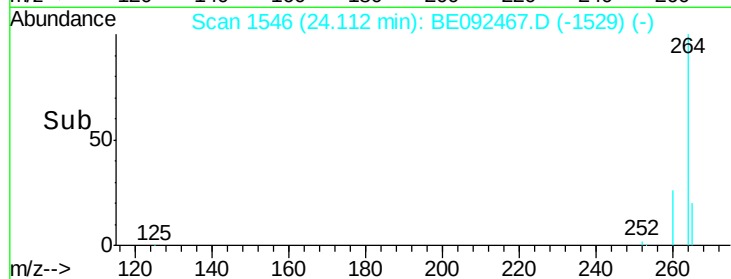
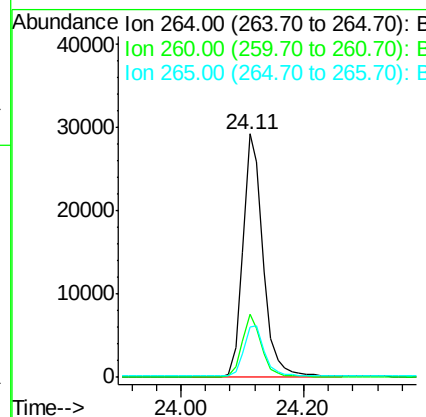
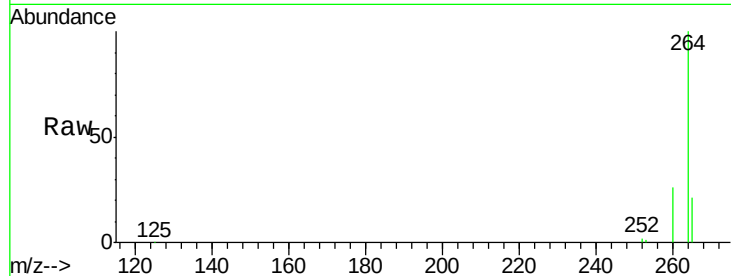
#31
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.11 min Scan# 1546
 Delta R.T. 0.00 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Instrument :
 BNA_E
 ClientSampleId :
 PB94258BS

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	26.1	20.1	30.1
265	20.7	17.9	26.9

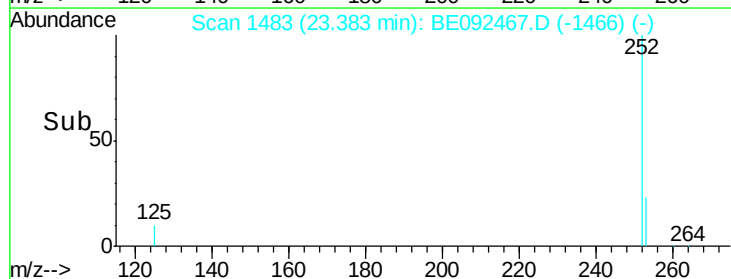
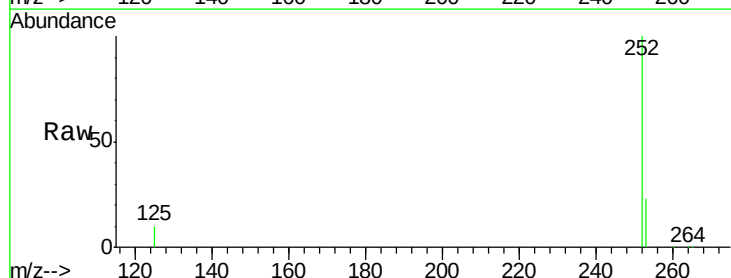
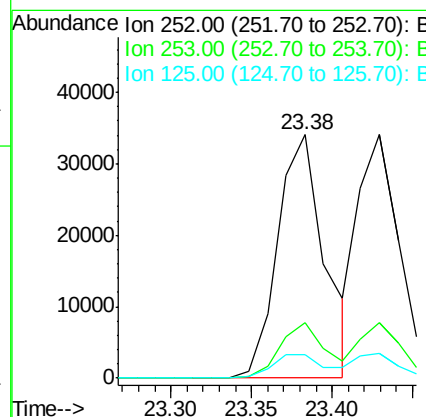
Manual Integrations
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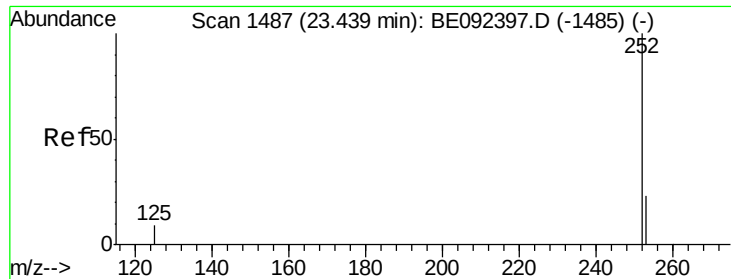
umangi
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#32
 Benzo(b)fluoranthene
 Concen: 4.26 ng
 RT: 23.38 min Scan# 1483
 Delta R.T. 0.00 min
 Lab File: BE092467.D
 Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.9	18.7	28.1
125	9.9	10.5	15.7#





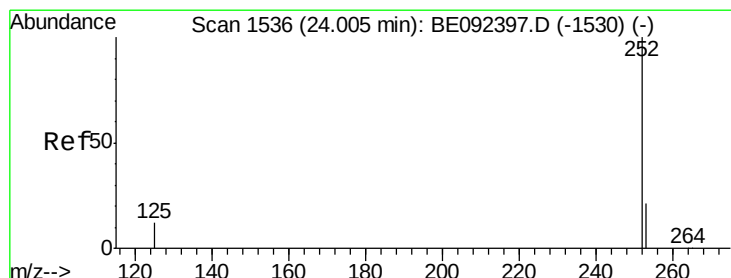
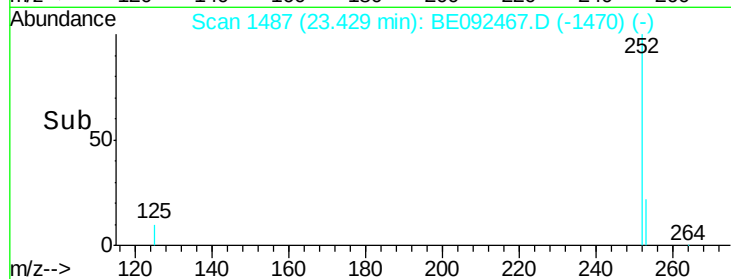
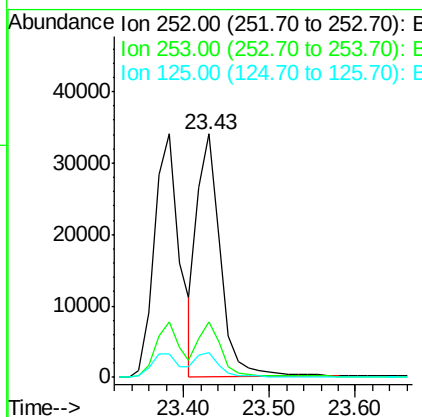
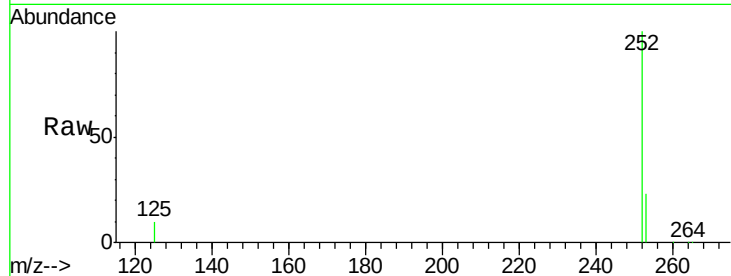
#33
Benzo(k)fluoranthene
Concen: 3.70 ng
RT: 23.43 min Scan# 1487
Delta R.T. 0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Instrument :
BNA_E
ClientSampleId :
PB94258BS

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	20.3	30.5
125	10.1	9.6	14.4

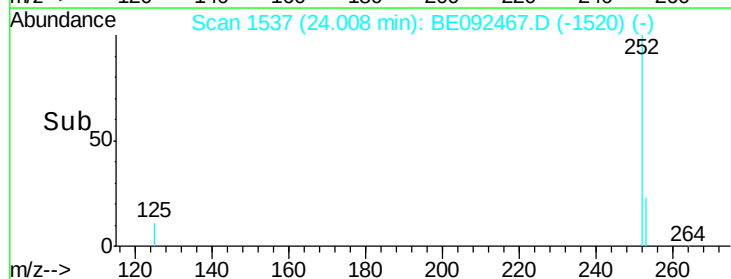
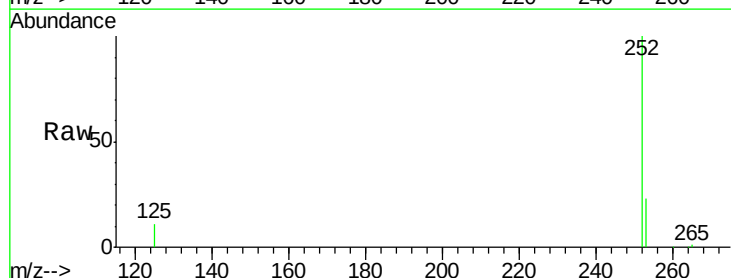
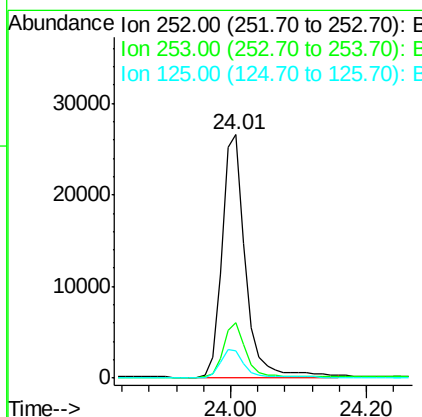
Manual Integrations
APPROVED

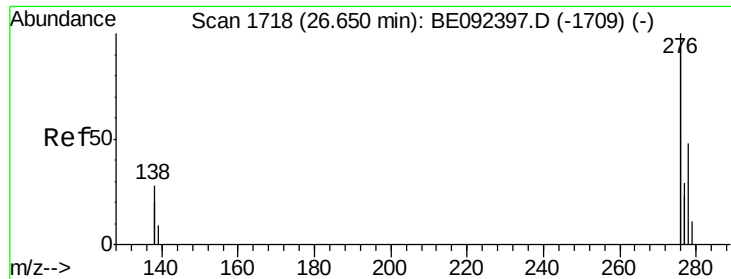
umangi
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#34
Benzo(a)pyrene
Concen: 4.03 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	19.0	28.6
125	11.1	11.8	17.8#





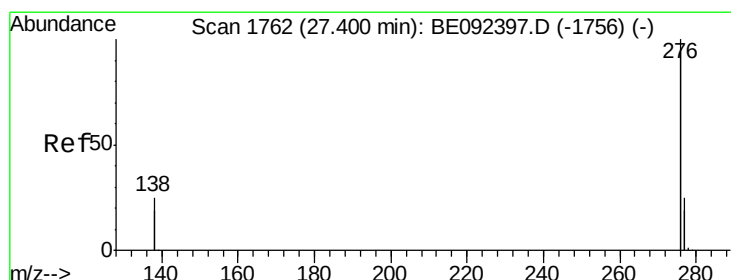
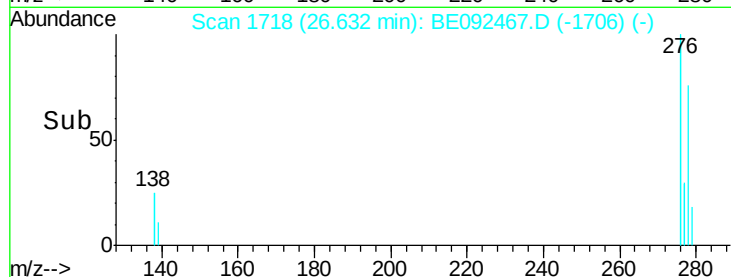
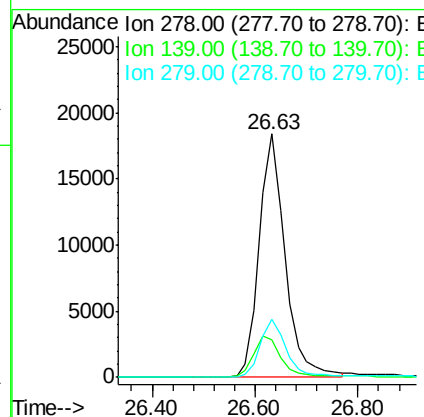
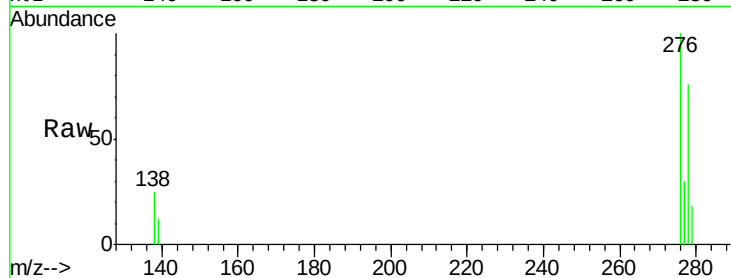
#35
Dibenzo(a,h)anthracene
Concen: 4.33 ng
RT: 26.63 min Scan# 1718
Delta R.T. -0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Instrument :
BNA_E
ClientSampleId :
PB94258BS

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.8	20.8
279	23.7	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 4.19 ng
RT: 27.38 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092467.D
Acq: 21 Oct 2016 15:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.8	29.8
138	22.3	19.8	29.6

