

Data Path : Z:\HPCHEM1\BNA E\DATA\BE092316\
 Data File : BE092415.D
 Acq On : 23 Sep 2016 14:54
 Operator : UM/SJ
 Sample : PB93552BS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB93552BS

Manual Integrations
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Quant Time: Sep 23 16:06:34 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	8870	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	38033	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	24677	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	43990	5.00	ng	0.02
24) Chrysene-d12	21.75	240	67576	5.00	ng	0.00
31) Perylene-d12	24.12	264	62036	5.00	ng	0.04

System Monitoring Compounds						
4) 2-Fluorophenol	5.67	112	15749	7.53	ng	-0.02
5) Phenol-d6	7.34	99	21016	7.05	ng	-0.02
8) Nitrobenzene-d5	9.34	82	9784	3.62	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	5537	6.36	ng	-0.01
14) 2-Fluorobiphenyl	13.43	172	23590	4.04	ng	-0.01
26) Terphenyl-d14	20.17	244	28688	3.42	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.41	88	3274	3.42	ng	# 82
3) n-Nitrosodimethylamine	3.76	42	4930	3.56	ng	# 98
6) bis(2-Chloroethyl)ether	7.59	93	8128	3.49	ng	95
9) Naphthalene	10.99	128	29399	3.57	ng	# 95
10) Hexachlorobutadiene	11.28	225	4494	3.47	ng	99
11) 2-Methylnaphthalene	12.62	142	19771	3.63	ng	94
15) Acenaphthylene	14.53	152	130356	3.65	ng	100
16) Acenaphthene	14.88	154	19857	3.55	ng	94
17) Fluorene	15.87	166	25844	3.64	ng	100
19) Hexachlorobenzene	16.89	284	7830	4.16	ng	# 64
20) Pentachlorophenol	17.23	266	5807	8.42	ng	# 86
21) Phenanthrene	17.60	178	42113	4.17	ng	# 94
22) Anthracene	17.70	178	42038	4.32	ng	99
23) Fluoranthene	19.61	202	191123	3.98	ng	100
25) Pyrene	19.97	202	204894	3.50	ng	100
27) Benzo(a)anthracene	21.72	228	251445m	3.82	ng	
28) Chrysene	21.77	228	220384m	3.65	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	18529	3.27	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.62	276	264944	4.14	ng	98
32) Benzo(b)fluoranthene	23.38	252	57801	3.85	ng	95
33) Benzo(k)fluoranthene	23.43	252	61919	3.94	ng	93
34) Benzo(a)pyrene	24.01	252	58293	3.96	ng	94
35) Dibenzo(a,h)anthracene	26.65	278	55814	4.13	ng	95
36) Benzo(g,h,i)perylene	27.40	276	232233	4.01	ng	97

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

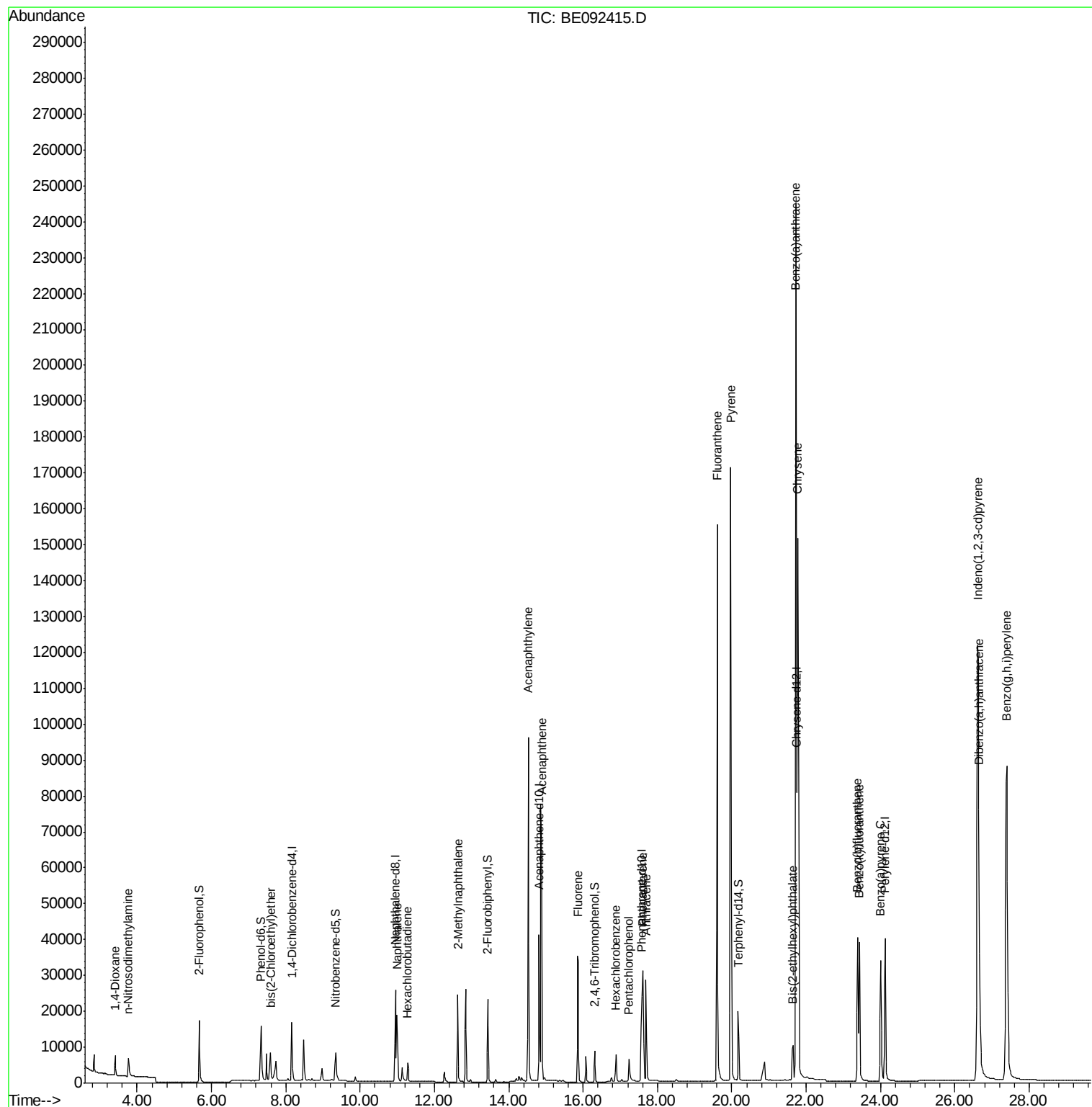
Data Path : Z:\HPCHEM1\BNA E\DATA\BE092316\
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 22 18:25:56 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

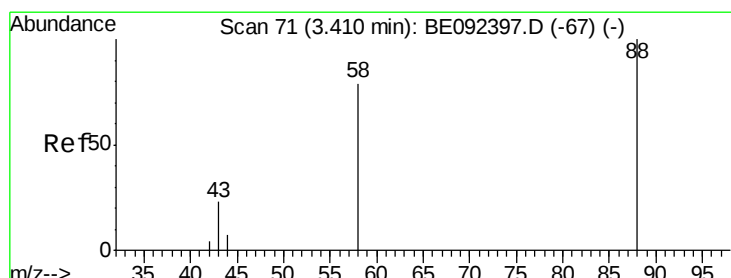
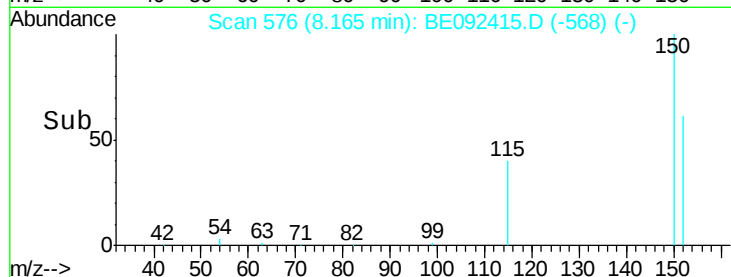
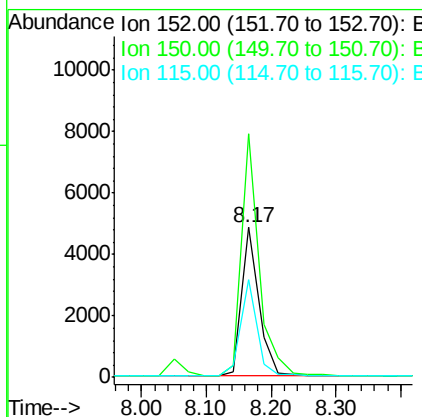
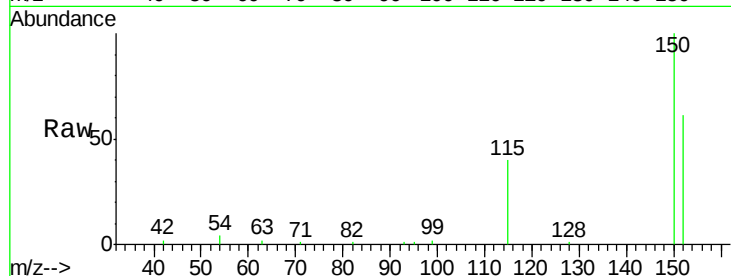
ClientSampled :

PB93552BS

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.7	106.0	159.0#
115	65.2	31.2	46.8#

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#2

1,4-Dioxane

Concen: 3.42 ng

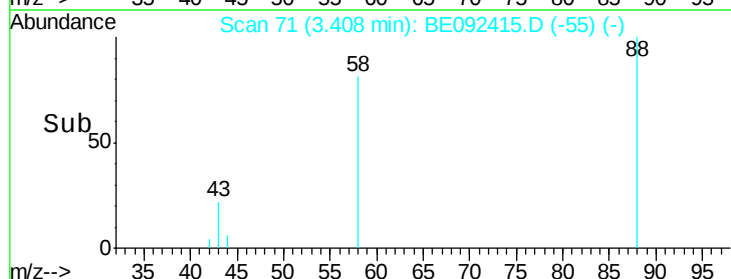
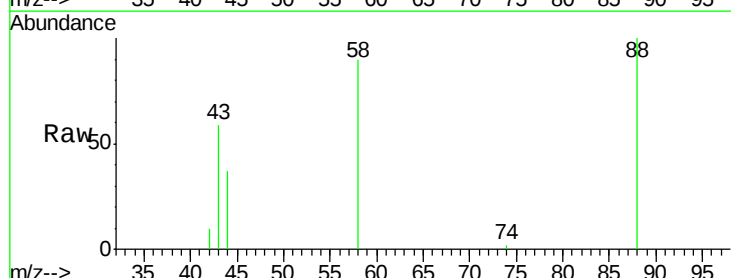
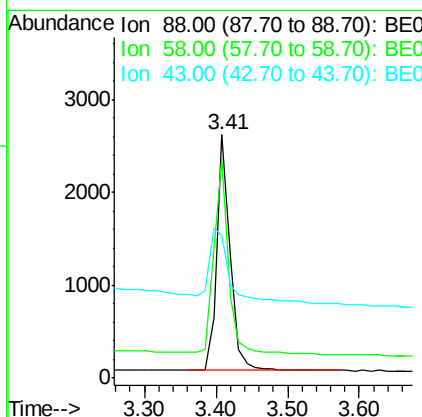
RT: 3.41 min Scan# 71

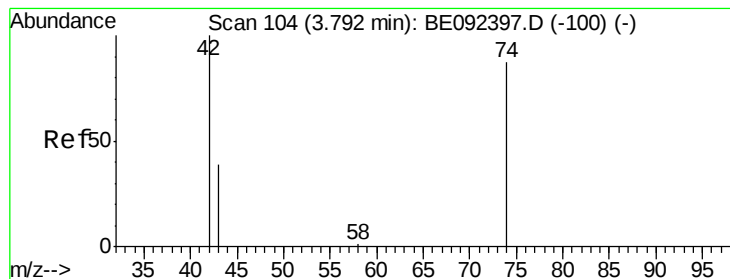
Delta R.T. -0.01 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
88	100		
58	91.5	63.6	95.4
43	51.0	28.0	42.0#





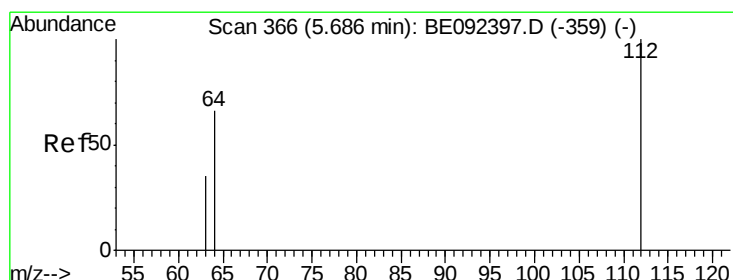
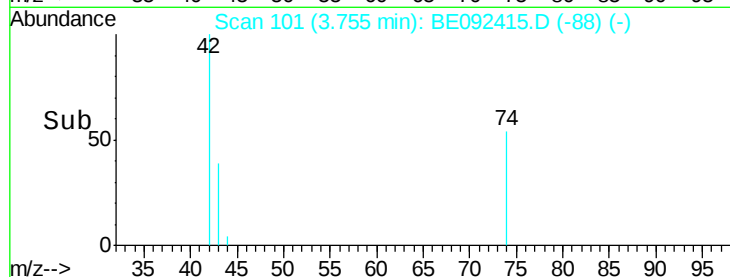
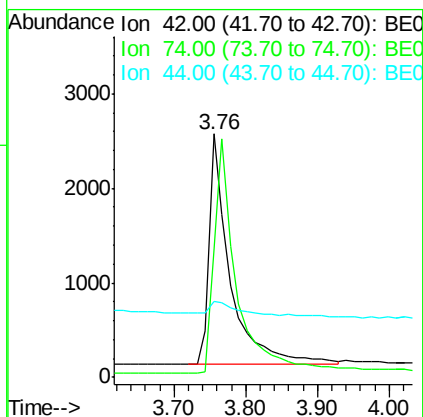
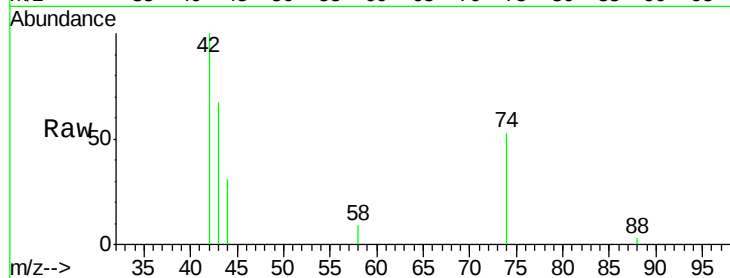
#3
n-Nitrosodimethylamine
Concen: 3.56 ng
RT: 3.76 min Scan# 101
Delta R.T. -0.05 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion: 42 Resp: 4930
Ion Ratio Lower Upper
42 100
74 109.2 86.0 129.0
44 7.7 5.1 7.7#

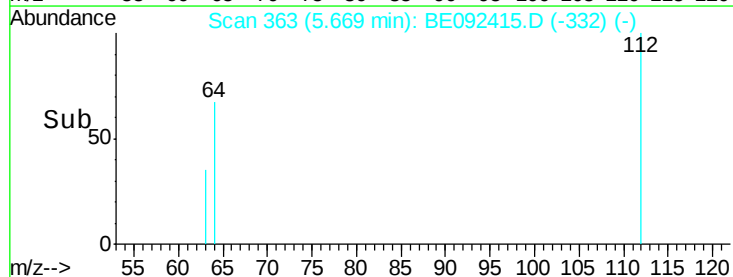
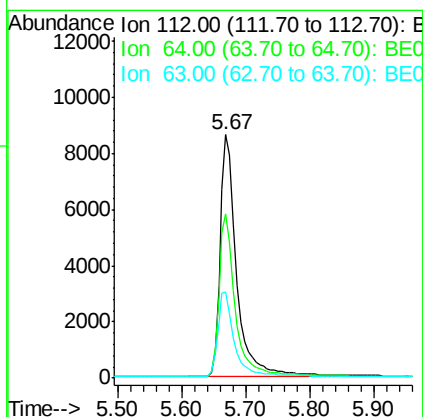
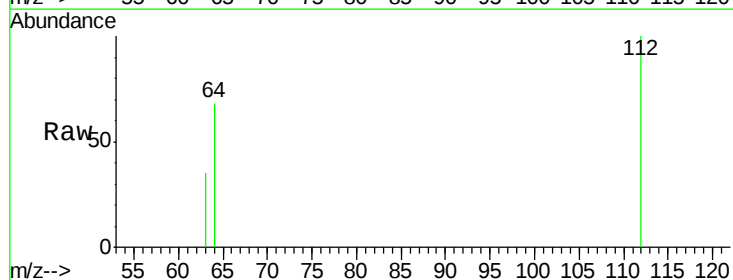
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#4
2-Fluorophenol
Concen: 7.53 ng
RT: 5.67 min Scan# 363
Delta R.T. -0.02 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion: 112 Resp: 15749
Ion Ratio Lower Upper
112 100
64 67.0 53.5 80.3
63 35.8 27.9 41.9





#5

Phenol-d6

Concen: 7.05 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

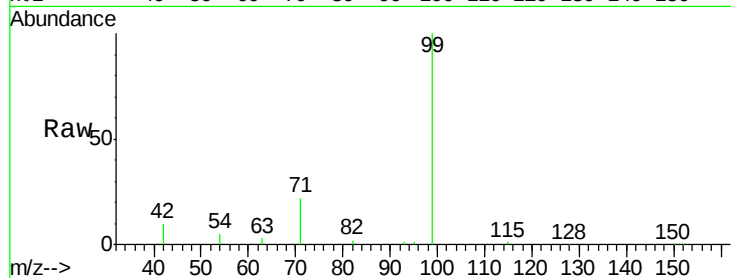
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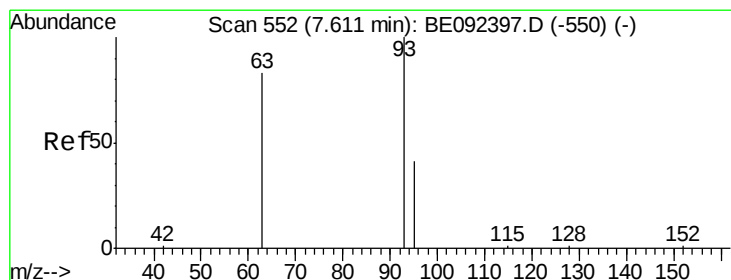
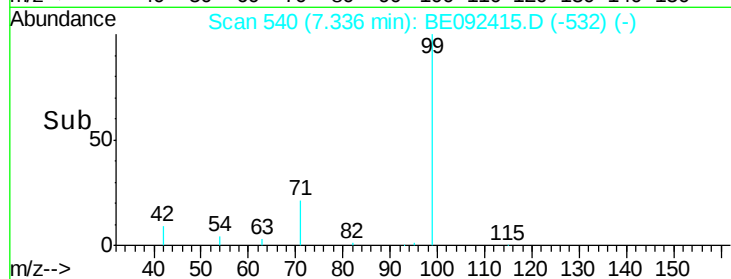
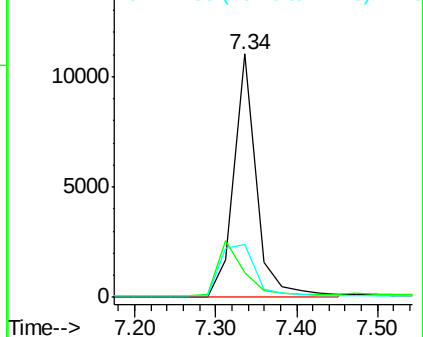
Tot Ion:	99	Resp:	21016
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	33.7	30.6	45.8

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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



#6

bis(2-Chloroethyl)ether

Concen: 3.49 ng

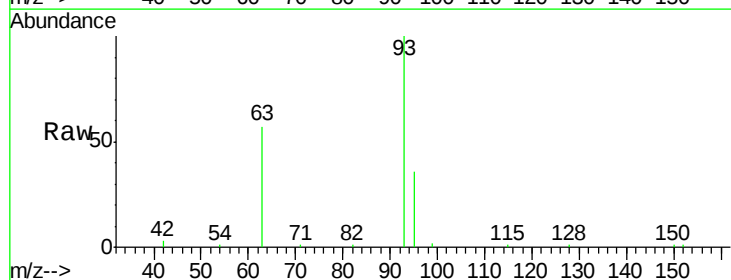
RT: 7.59 min Scan# 551

Delta R.T. -0.02 min

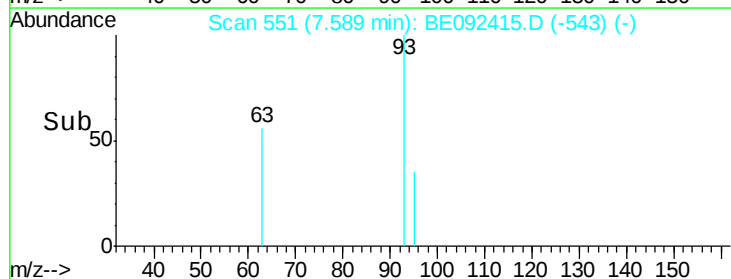
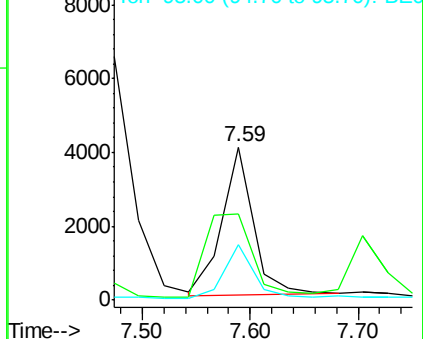
Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion:	93	Resp:	8128
Ion Ratio	Lower	Upper	
93	100		
63	86.0	71.6	107.4
95	35.2	24.0	36.0



Abundance Ion 93.00 (92.70 to 93.70): BE0
Ion 63.00 (62.70 to 63.70): BE0
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. -0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

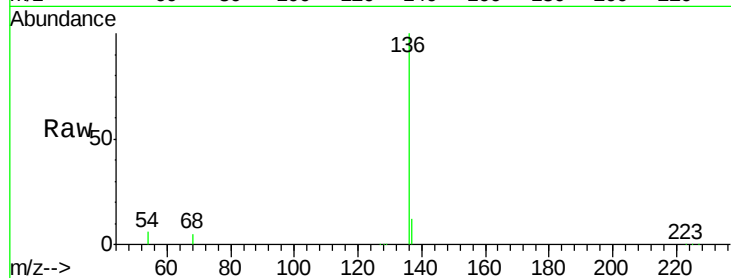
ClientSampleId :

PB93552BS

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.6	8.2	12.4	
54	6.2	9.6	14.4	
68	4.9	6.7	10.1	

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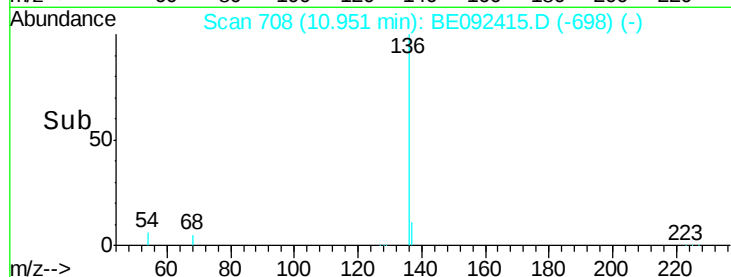
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

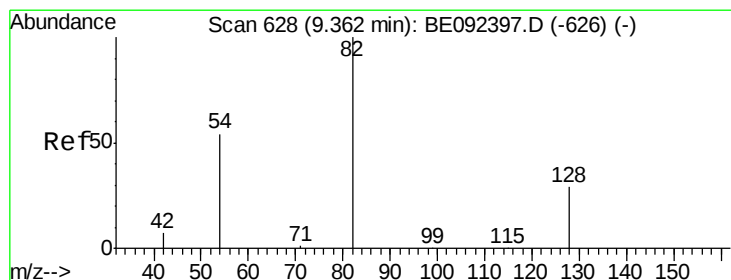
Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0

Time-->



Time-->



#8

Nitrobenzene-d5

Concen: 3.62 ng

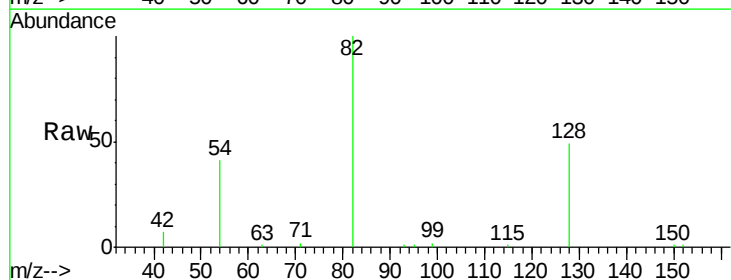
RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	48.9	39.0	58.4	
54	40.8	44.8	67.2	

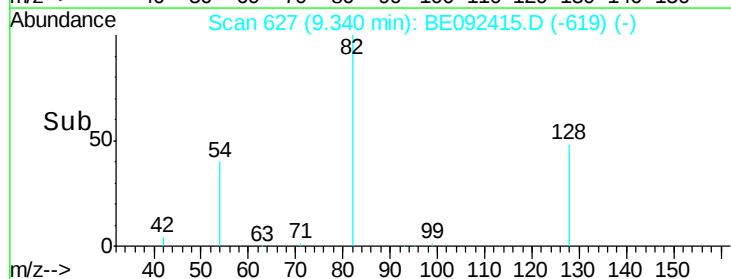


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

Time-->



Time-->



#9

Naphthalene

Concen: 3.57 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

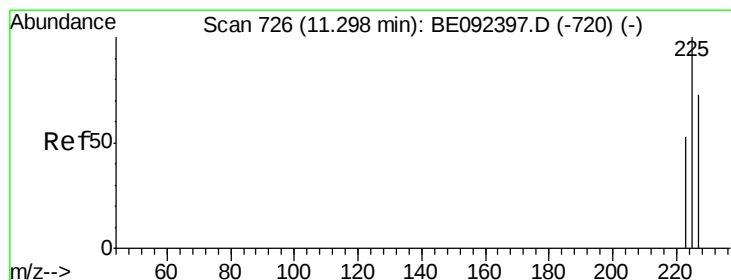
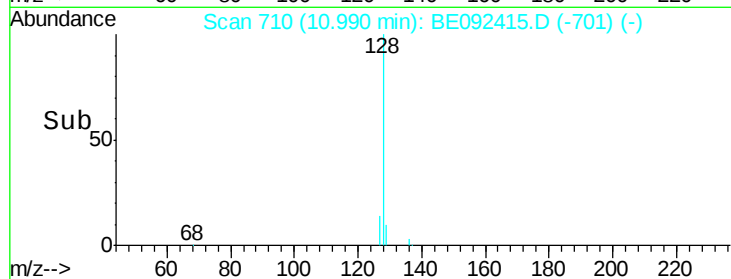
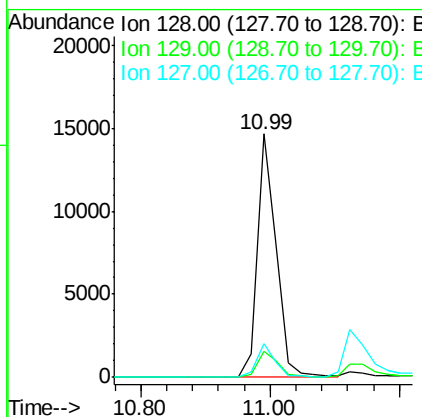
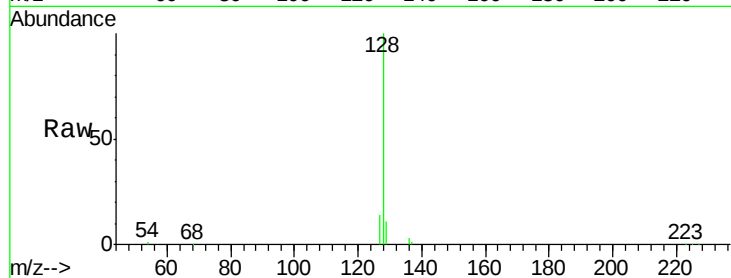
ClientSampleId :

PB93552BS

Tot Ion:	128	Resp:	29399
Ion Ratio	Lower	Upper	
128	100		
129	10.5	11.2	16.8#
127	14.0	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.47 ng

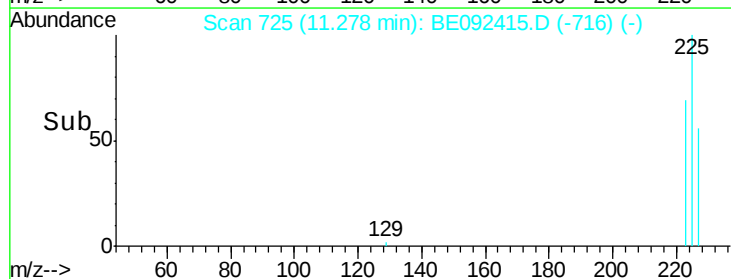
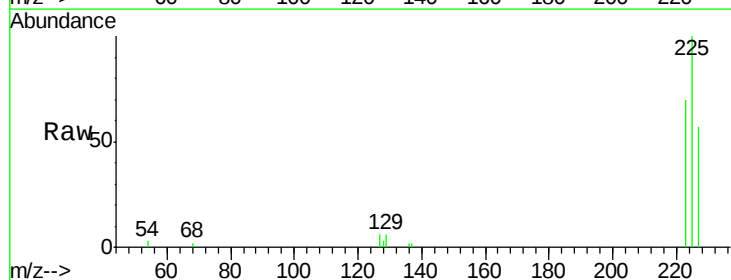
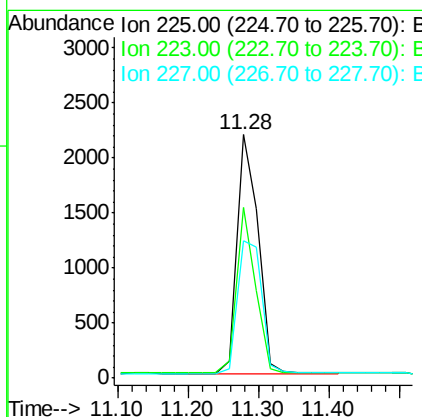
RT: 11.28 min Scan# 725

Delta R.T. -0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion:	225	Resp:	4494
Ion Ratio	Lower	Upper	
225	100		
223	62.6	50.6	76.0
227	64.3	51.4	77.0





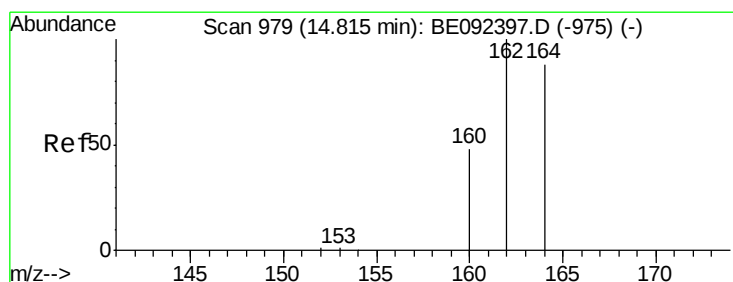
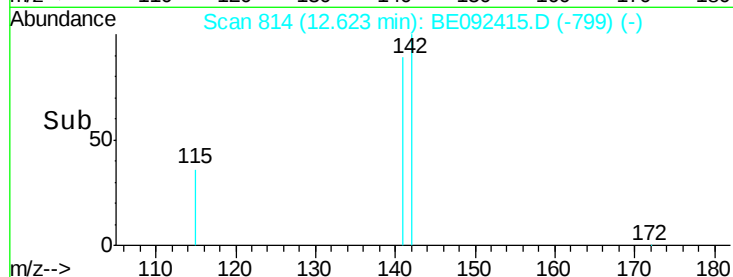
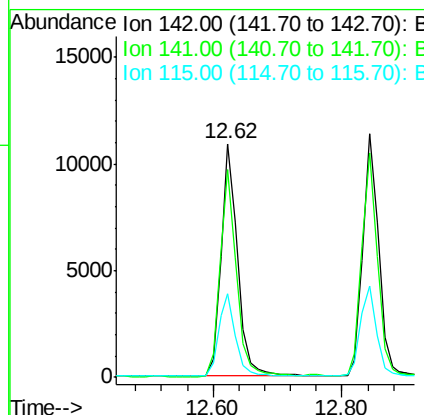
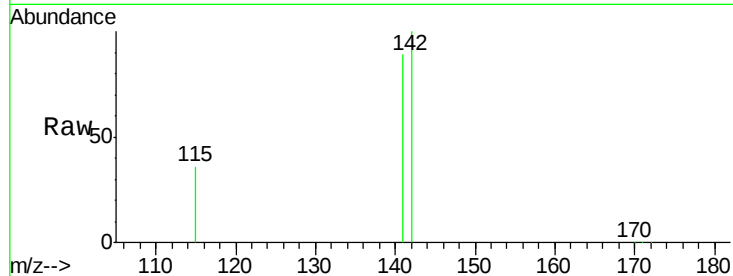
#11
2-Methylnaphthalene
Concen: 3.63 ng
RT: 12.62 min Scan# 814
Delta R.T. -0.02 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	73.7	110.5
115	35.8	34.0	51.0

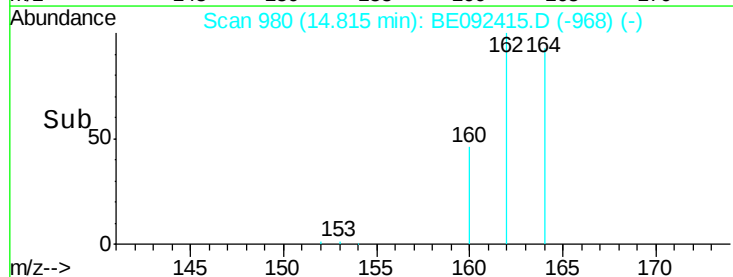
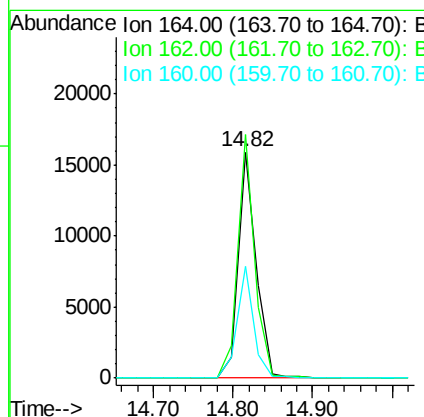
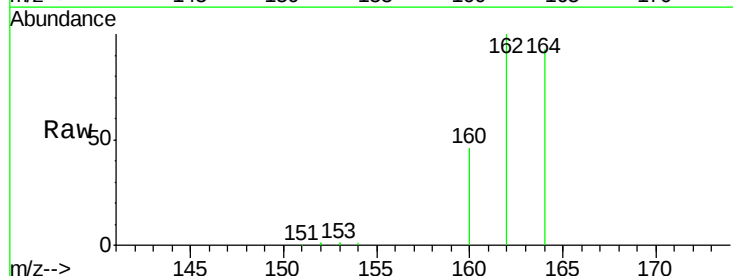
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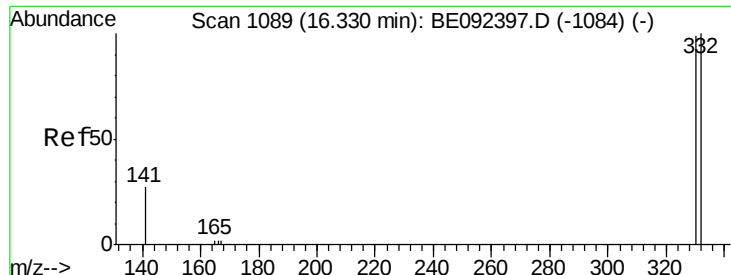
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.82 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.8	71.4	107.0#
160	49.3	27.4	41.2#





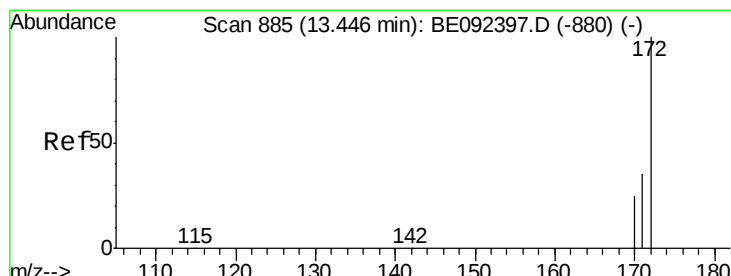
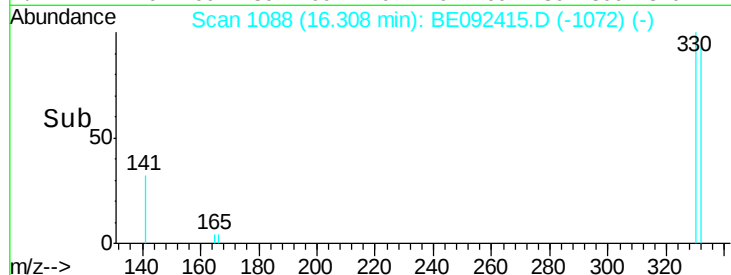
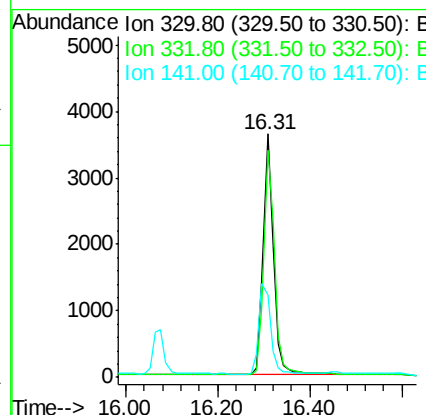
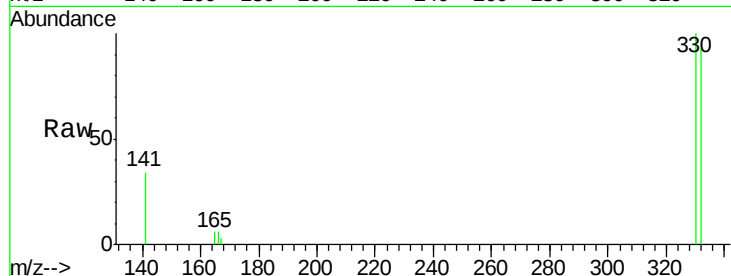
#13
 2,4,6-Tribromophenol
 Concen: 6.36 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092415.D
 Acq: 23 Sep 2016 14:54

Instrument :
 BNA_E
 ClientSampleID :
 PB93552BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.4	113.0
141	42.4	31.0	46.6

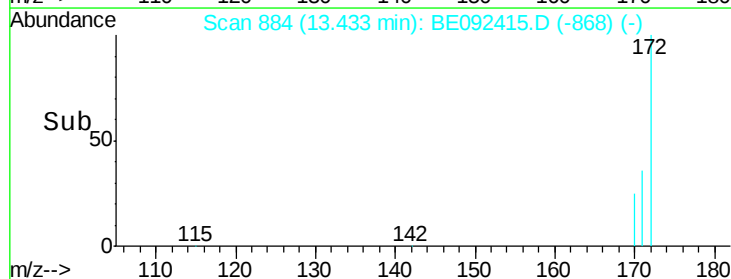
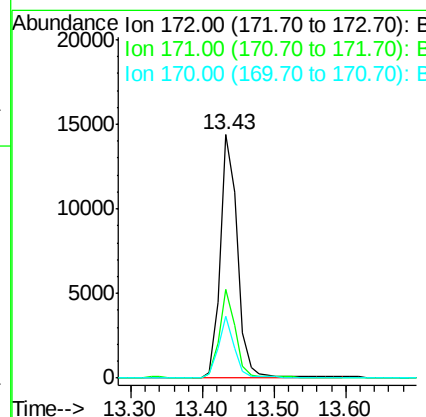
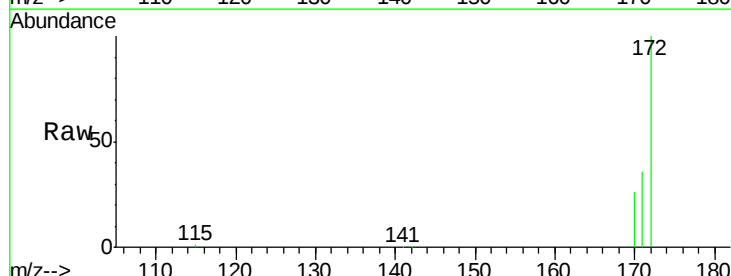
Manual Integrations
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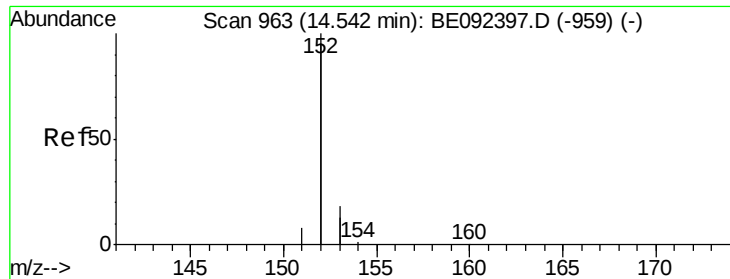
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#14
 2-Fluorobiphenyl
 Concen: 4.04 ng
 RT: 13.43 min Scan# 884
 Delta R.T. -0.01 min
 Lab File: BE092415.D
 Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.1	45.1
170	25.5	21.8	32.6





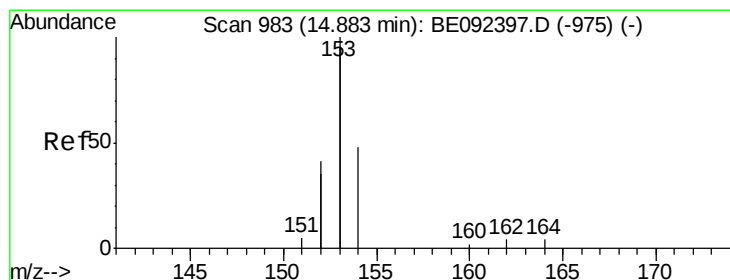
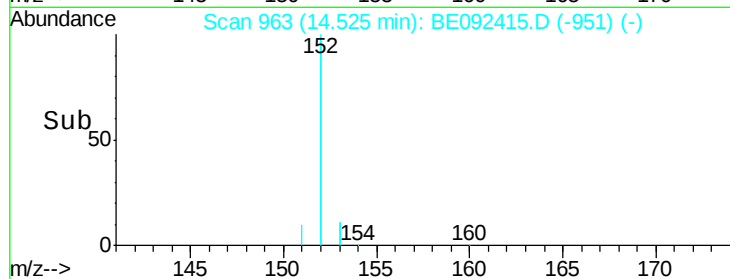
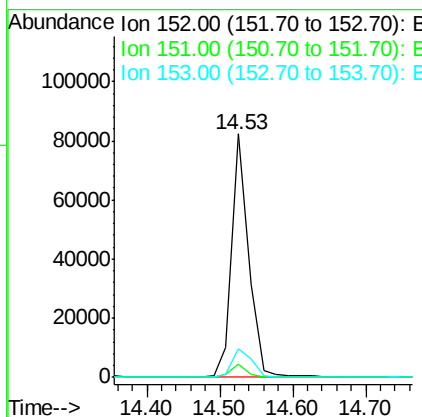
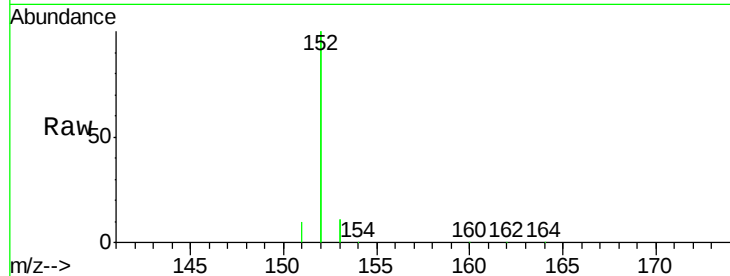
#15
Acenaphthylene
Concen: 3.65 ng
RT: 14.53 min Scan# 963
Delta R.T. -0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampled :
PB93552BS

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

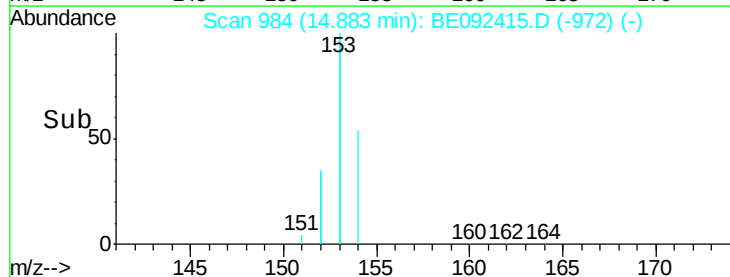
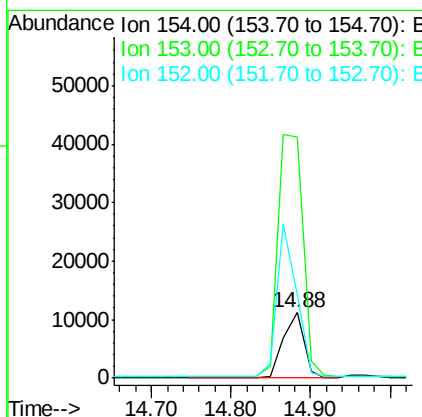
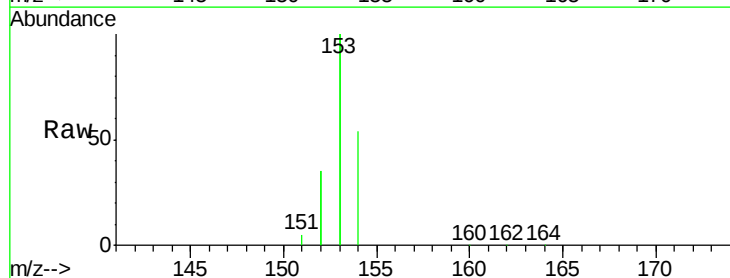
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#16
Acenaphthene
Concen: 3.55 ng
RT: 14.88 min Scan# 984
Delta R.T. -0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
154	100		
153	452.1	350.8	526.2
152	224.7	171.1	256.7





#17

Fluorene

Concen: 3.64 ng

RT: 15.87 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

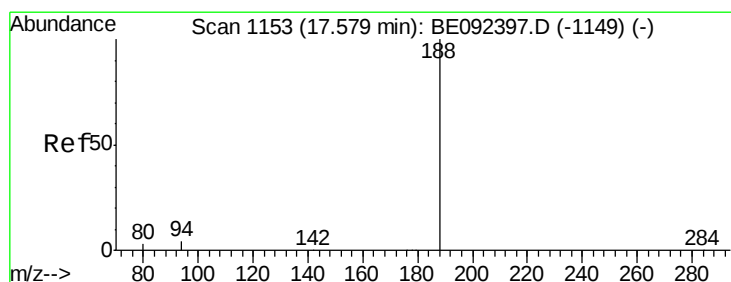
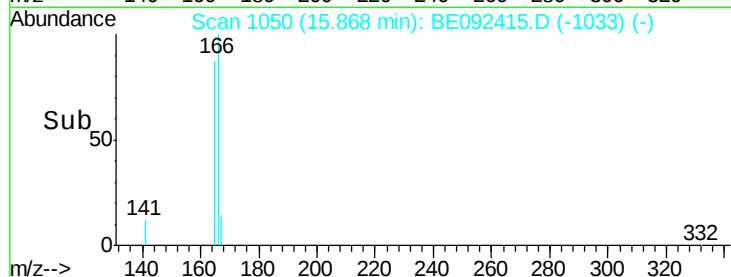
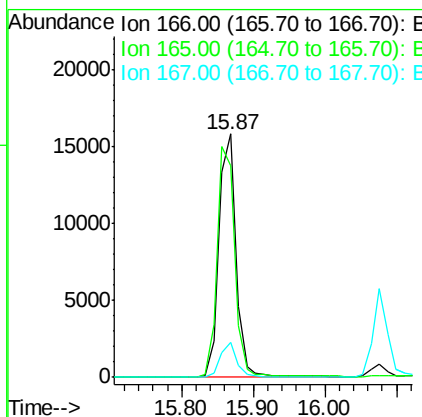
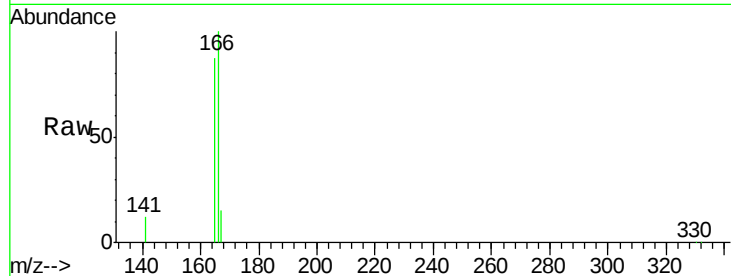
ClientSampleId :

PB93552BS

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

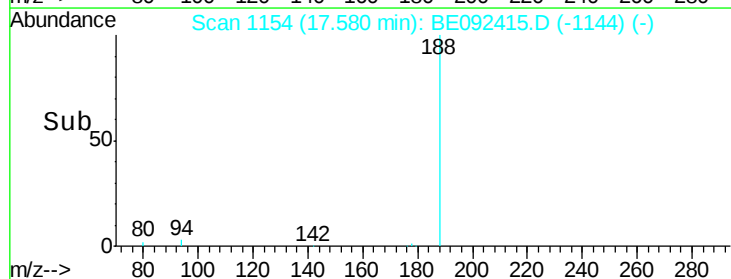
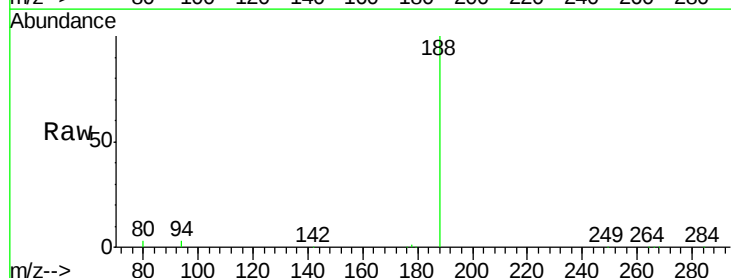
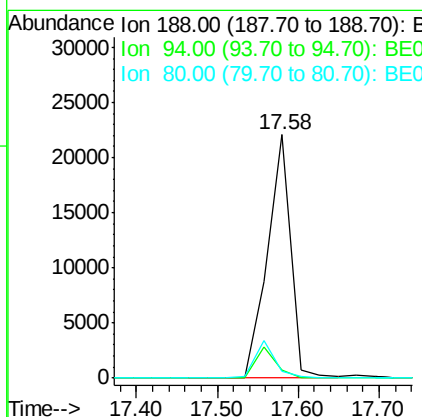
RT: 17.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	3.2	3.2	4.8
80	2.7	2.6	3.8





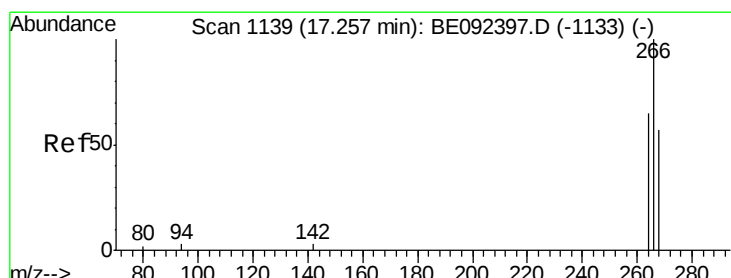
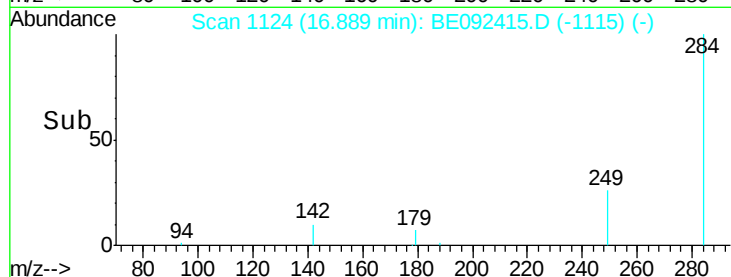
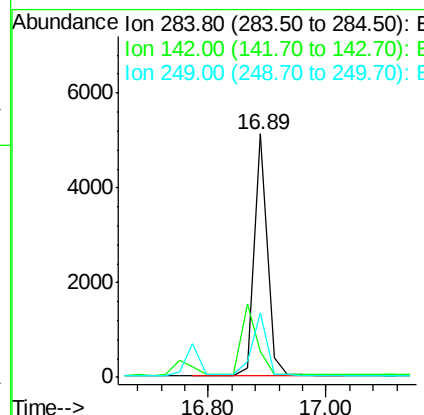
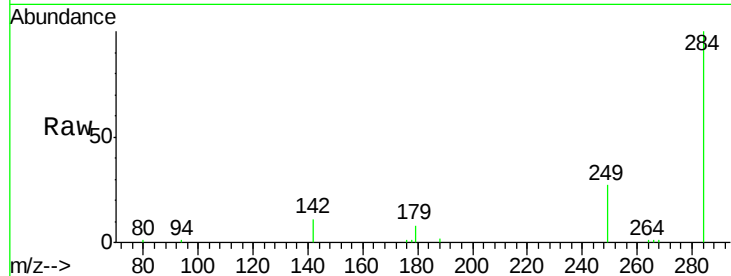
#19
Hexachlorobenzene
Concen: 4.16 ng
RT: 16.89 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	28.9	27.9	41.9

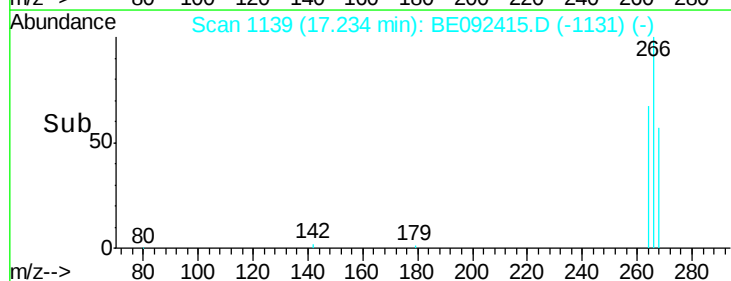
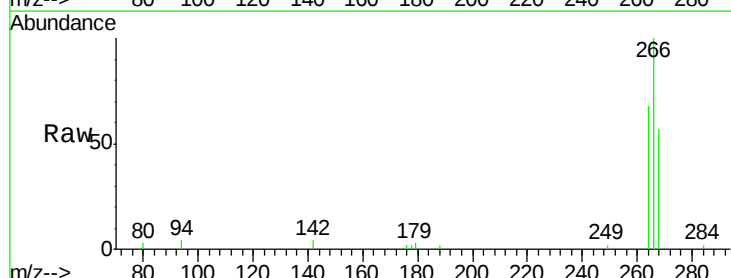
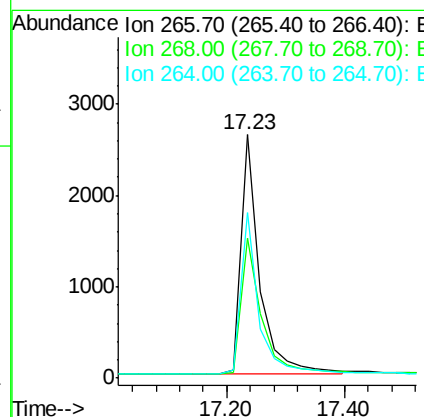
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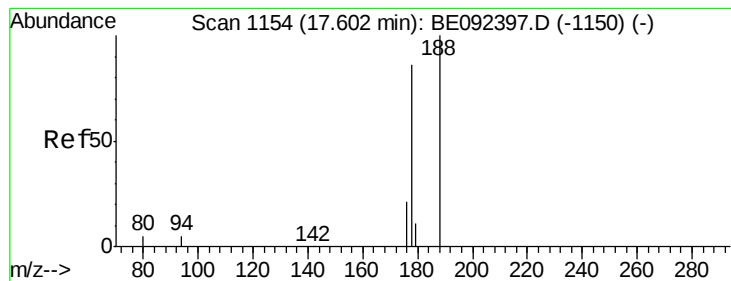
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#20
Pentachlorophenol
Concen: 8.42 ng
RT: 17.23 min Scan# 1139
Delta R.T. -0.02 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
266	100		
268	57.4	62.5	93.7#
264	67.9	57.2	85.8





#21

Phenanthrene

Concen: 4.17 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

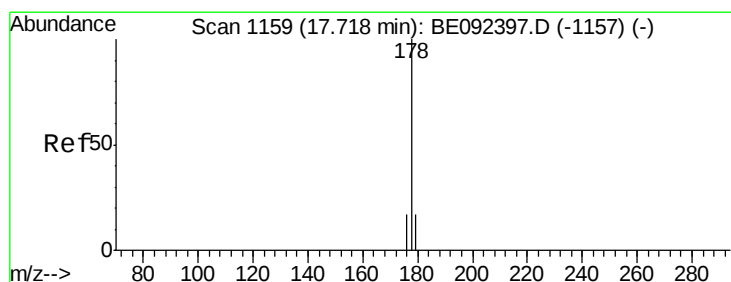
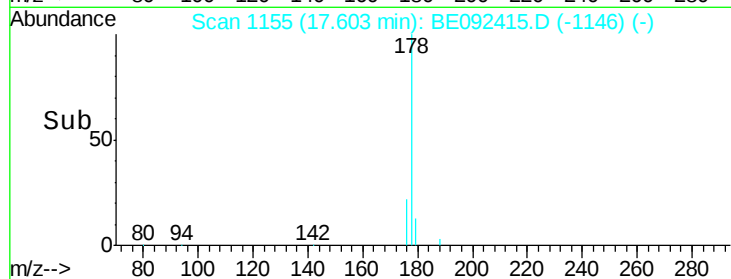
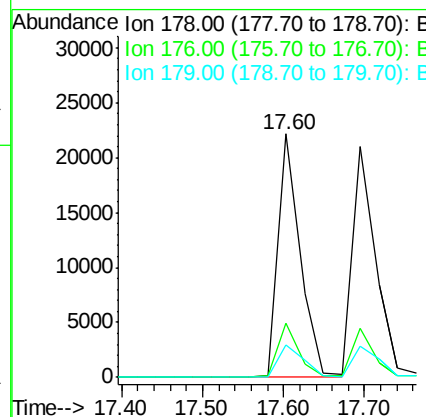
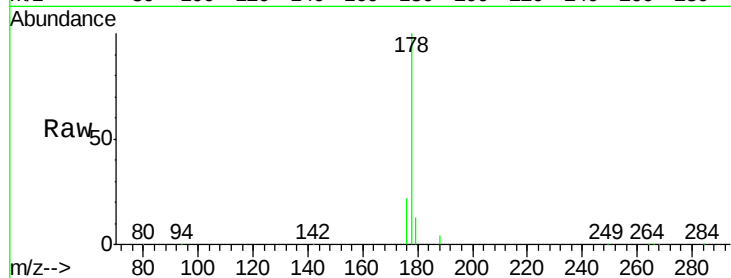
ClientSampleId :

PB93552BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	14.9	16.0	24.0

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#22

Anthracene

Concen: 4.32 ng

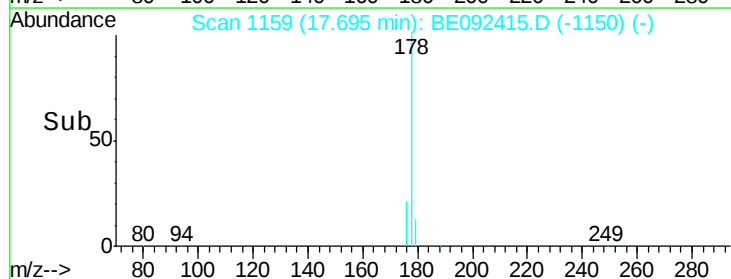
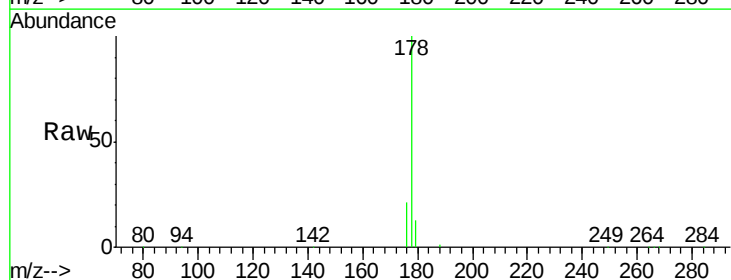
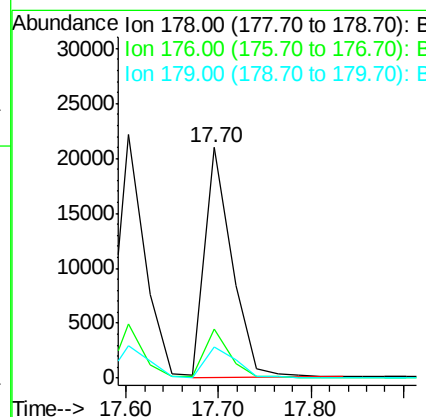
RT: 17.70 min Scan# 1159

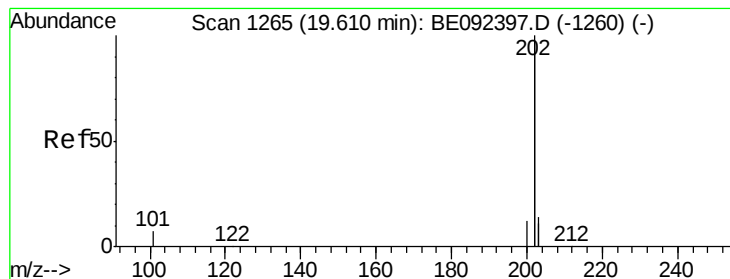
Delta R.T. 0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.0	22.4
179	14.8	12.2	18.2





#23

Fluoranthene

Concen: 3.98 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

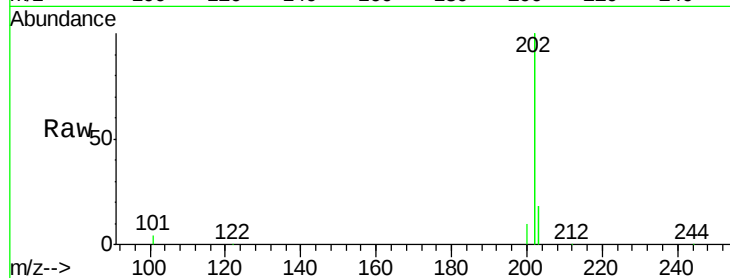
ClientSampleId :

PB93552BS

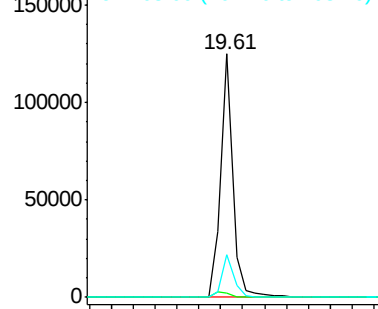
Tot Ion:	202	Resp:	191123
Ion Ratio	Lower	Upper	
202	100		
101	2.9	2.2	3.4
203	17.3	13.7	20.5

Manual Integrations
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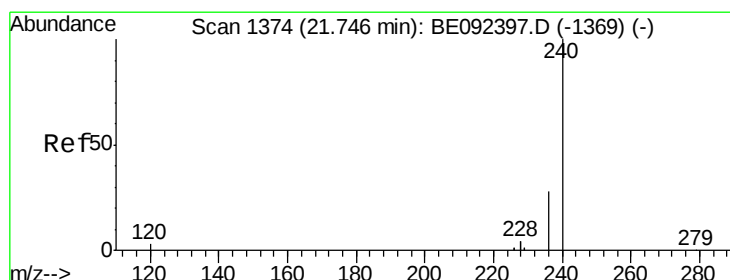
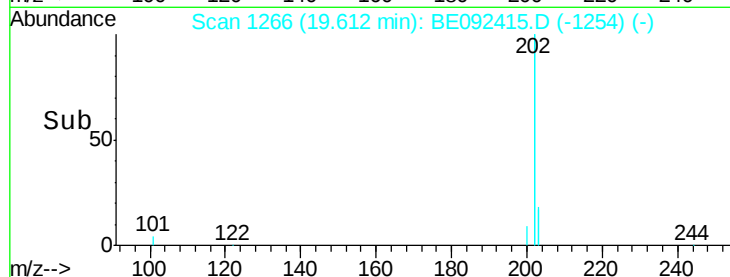
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



Time-->



#24

Chrysene-d12

Concen: 5.00 ng

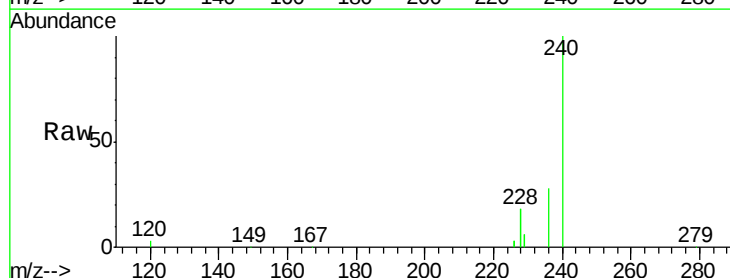
RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

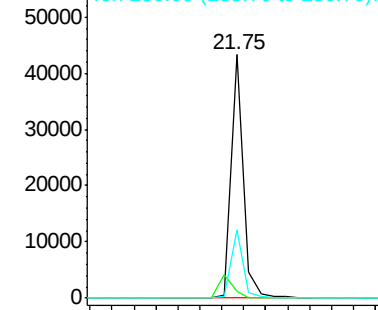
Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

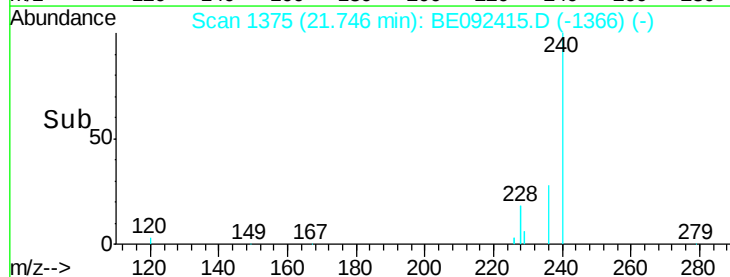
Tgt Ion:	240	Resp:	67576
Ion Ratio	Lower	Upper	
240	100		
120	2.6	2.6	4.0
236	28.3	24.6	37.0



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



Time-->





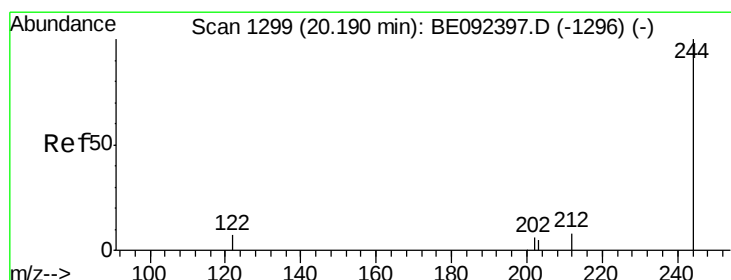
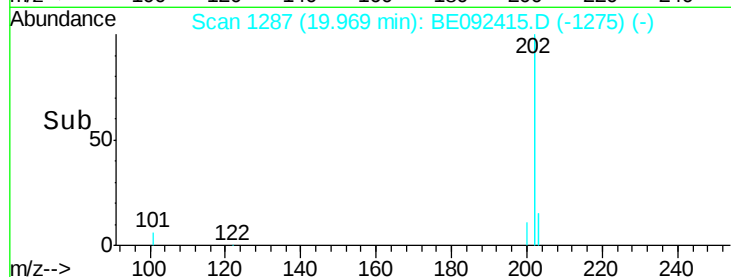
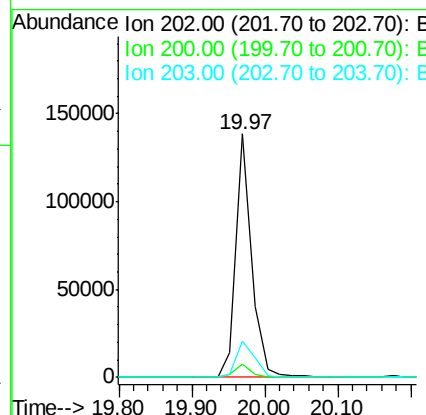
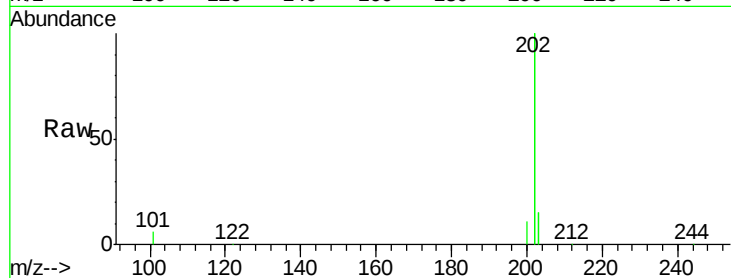
#25
Pvrene
Concen: 3.50 ng
RT: 19.97 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	5.3	4.2	6.4
203	17.6	13.9	20.9

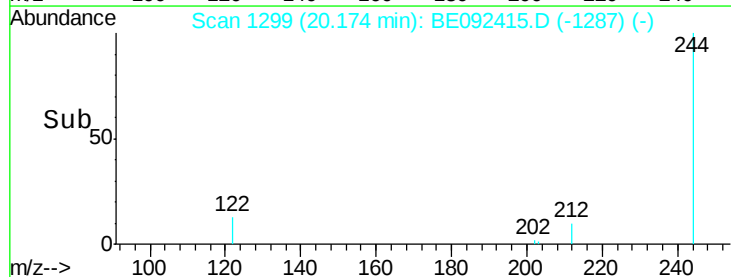
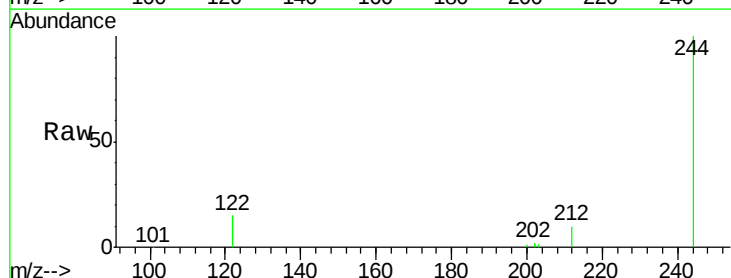
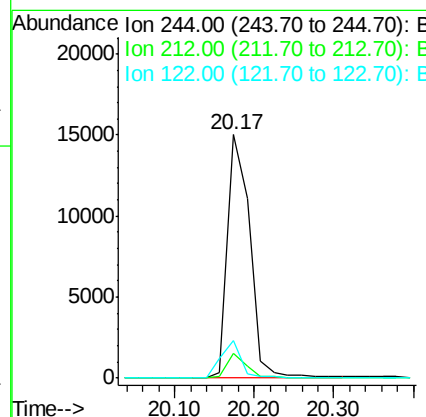
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#26
Terphenyl-d14
Concen: 3.42 ng
RT: 20.17 min Scan# 1299
Delta R.T. 0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	10.0	6.7	10.1
122	15.2	3.6	5.4#





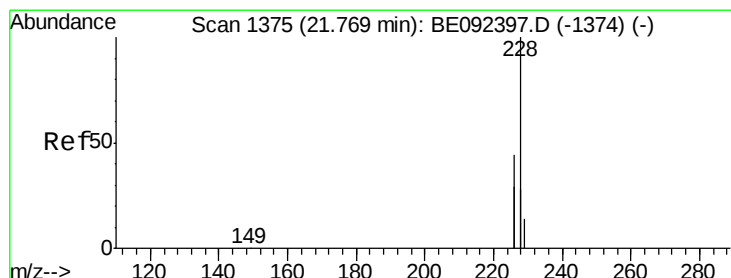
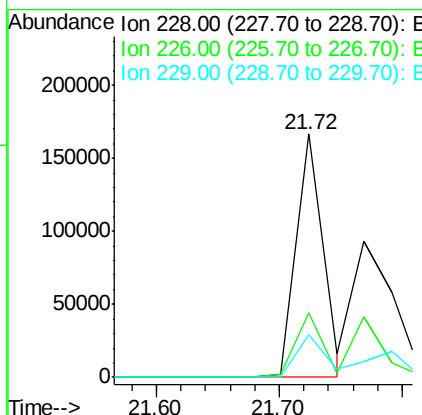
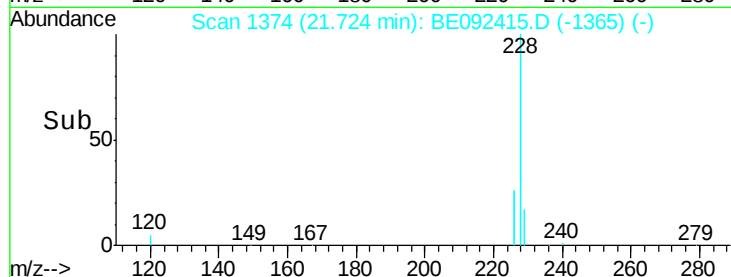
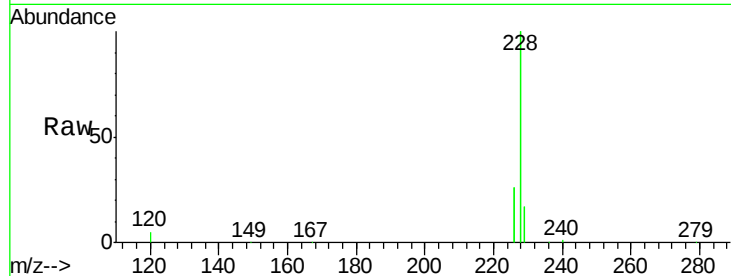
#27
Benzo(a)anthracene
Concen: 3.82 ng m
RT: 21.72 min Scan# 1374
Delta R.T. 0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampled :
PB93552BS

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.5	23.6	35.4
229	17.5	13.3	19.9

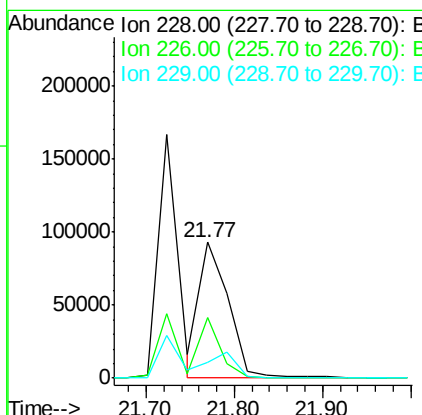
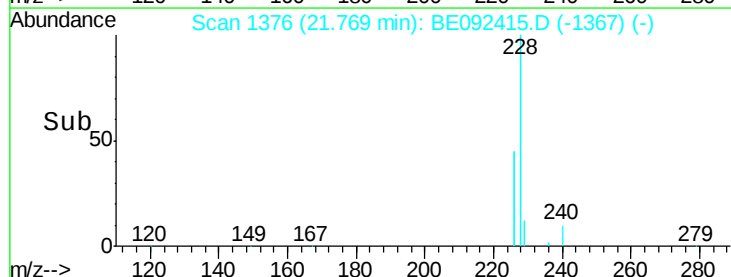
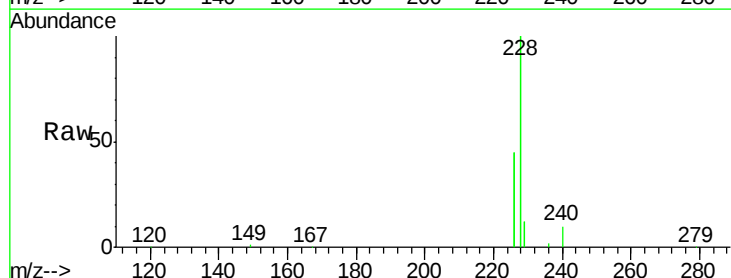
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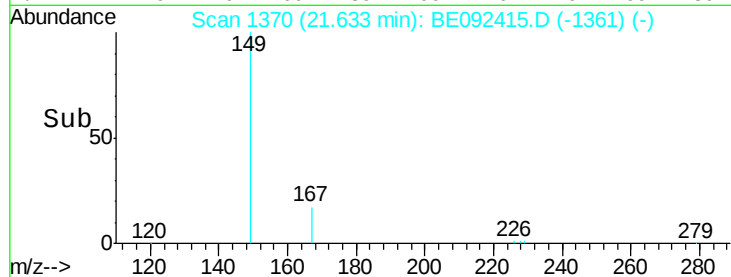
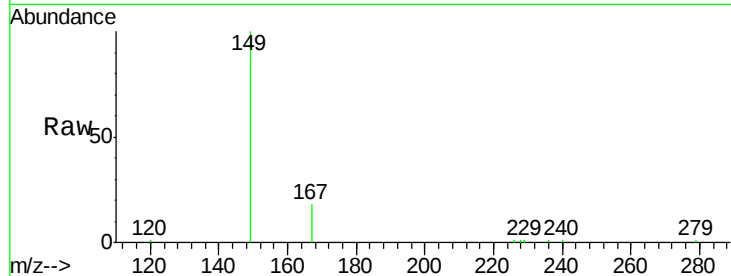
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#28
Chrysene
Concen: 3.65 ng m
RT: 21.77 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	44.9	36.3	54.5
229	11.7	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 3.27 ng

RT: 21.63 min Scan# 1370

Delta R.T. 0.00 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Instrument :

BNA_E

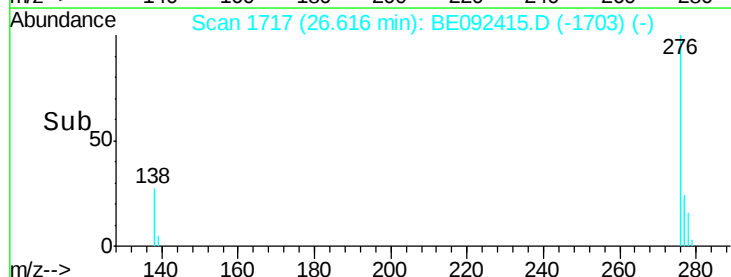
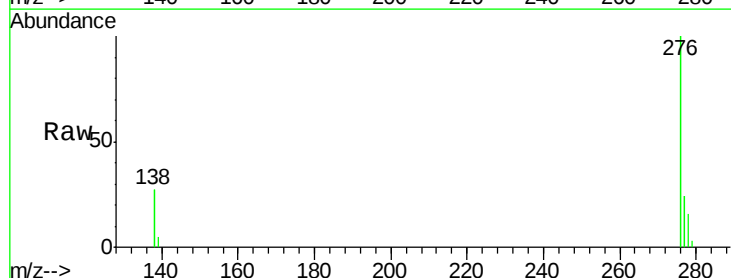
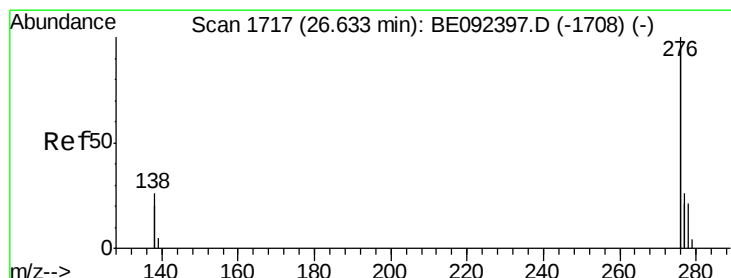
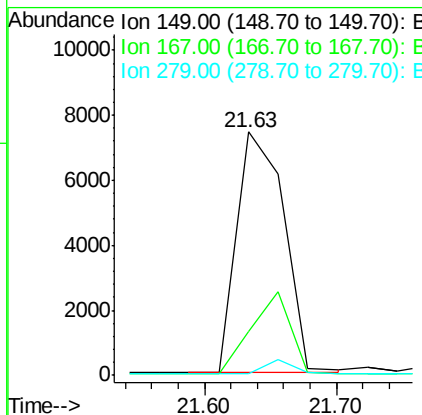
ClientSampleId :

PB93552BS

Tot Ion:	149	Resp:	18529
Ion Ratio	Lower	Upper	
149	100		
167	0.0	16.0	24.0#
279	0.0	16.0	24.0#

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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.14 ng

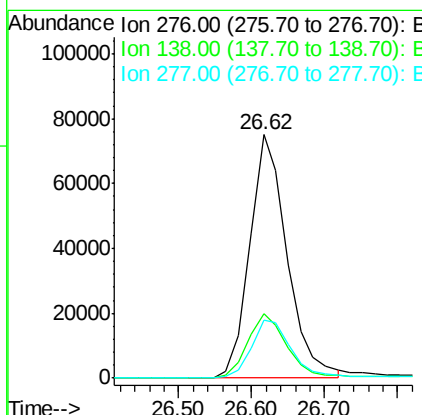
RT: 26.62 min Scan# 1717

Delta R.T. 0.03 min

Lab File: BE092415.D

Acq: 23 Sep 2016 14:54

Tgt Ion:	276	Resp:	264944
Ion Ratio	Lower	Upper	
276	100		
138	27.2	20.3	30.5
277	24.8	19.7	29.5





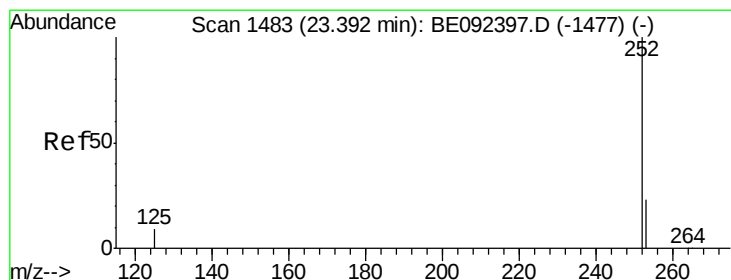
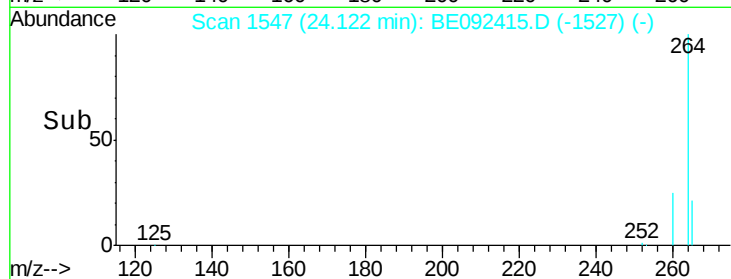
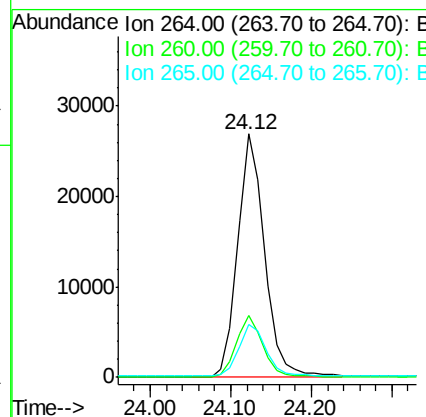
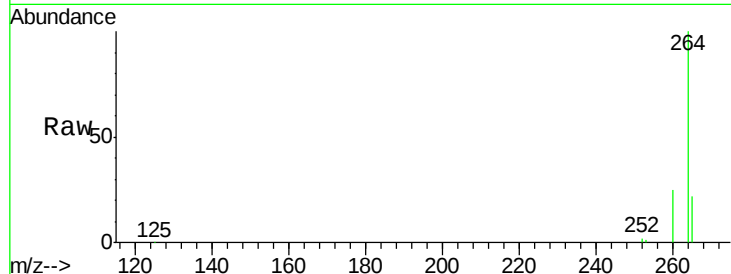
#31
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.12 min Scan# 1547
 Delta R.T. 0.04 min
 Lab File: BE092415.D
 Acq: 23 Sep 2016 14:54

Instrument :
 BNA_E
 ClientSampleId :
 PB93552BS

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.5	20.1	30.1
265	21.6	17.9	26.9

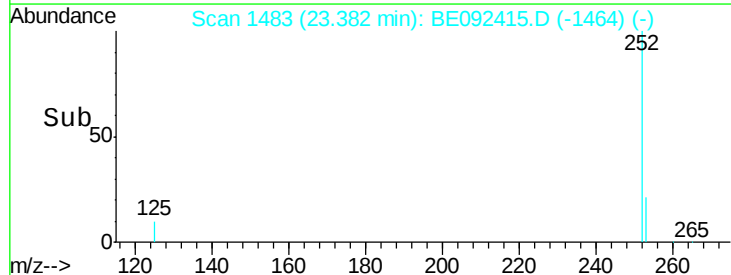
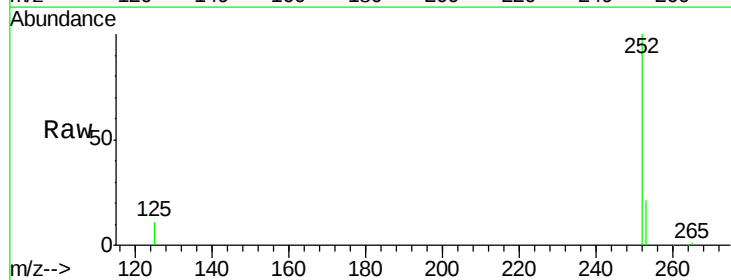
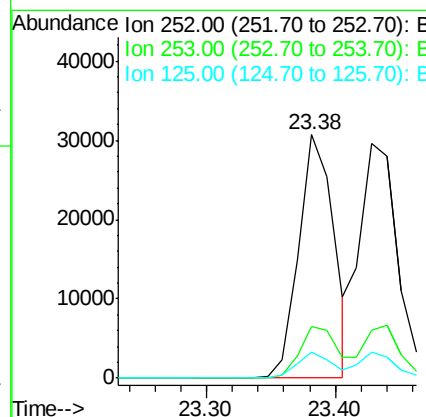
Manual Integrations
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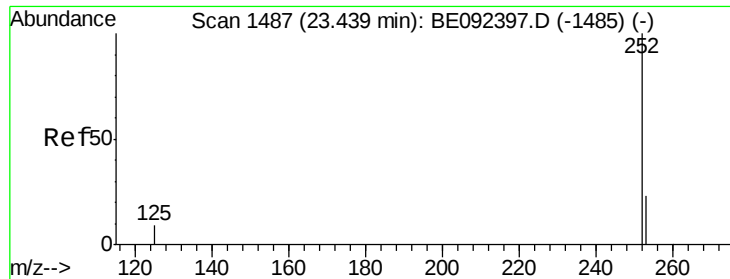
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#32
 Benzo(b)fluoranthene
 Concen: 3.85 ng
 RT: 23.38 min Scan# 1483
 Delta R.T. 0.02 min
 Lab File: BE092415.D
 Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.0	18.7	28.1
125	10.5	10.5	15.7





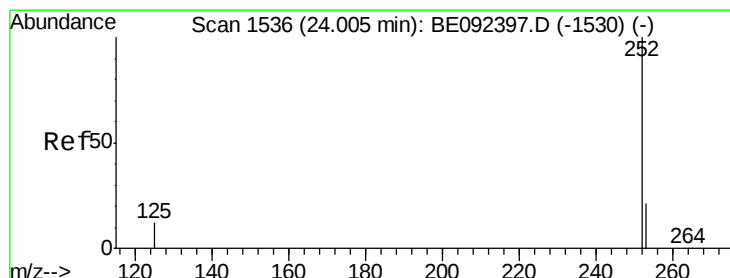
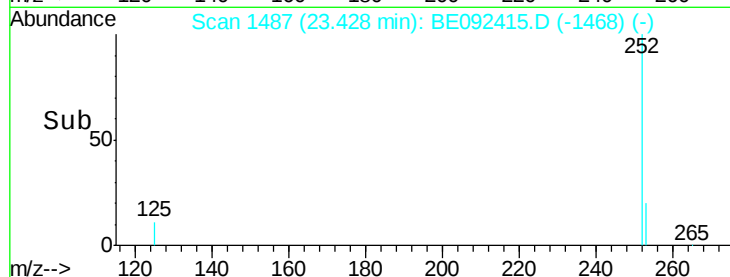
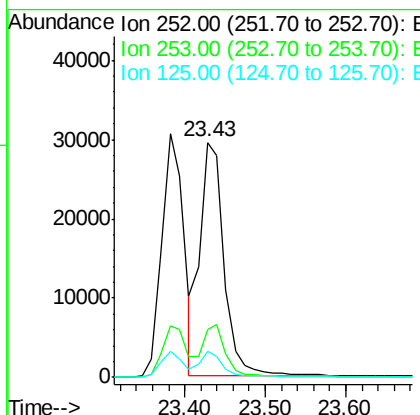
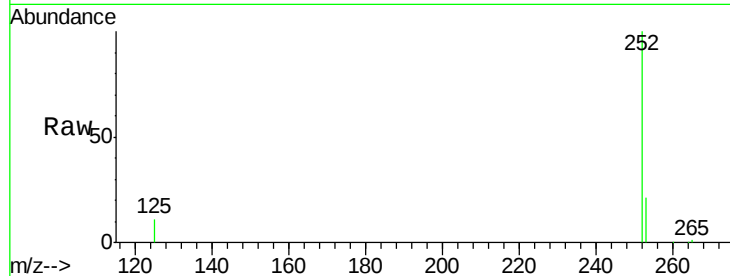
#33
Benzo(k)fluoranthene
Concen: 3.94 ng
RT: 23.43 min Scan# 1487
Delta R.T. 0.02 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	20.6	20.3	30.5
125	11.0	9.6	14.4

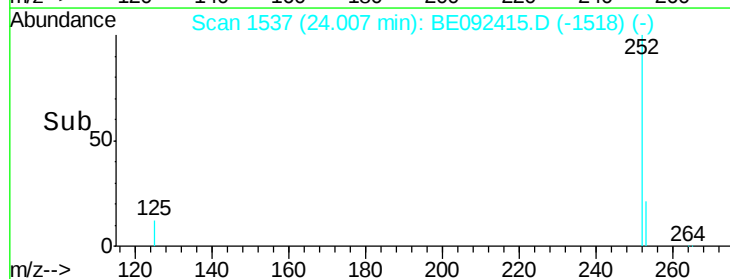
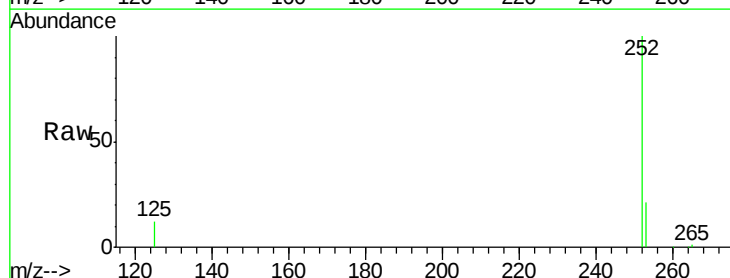
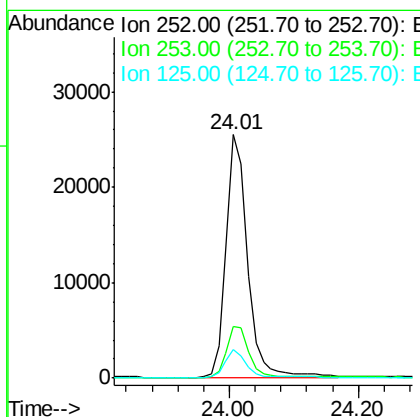
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#34
Benzo(a)pyrene
Concen: 3.96 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.02 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.2	19.0	28.6
125	11.8	11.8	17.8





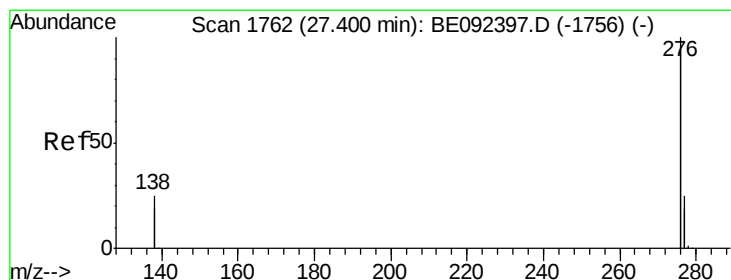
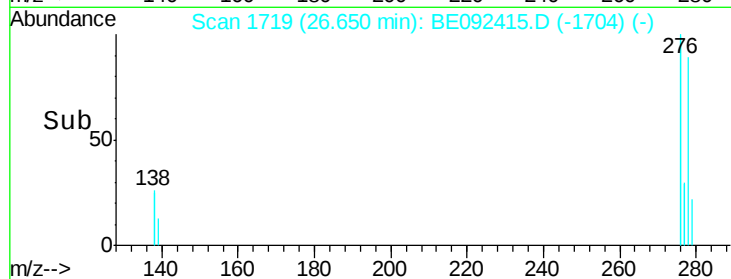
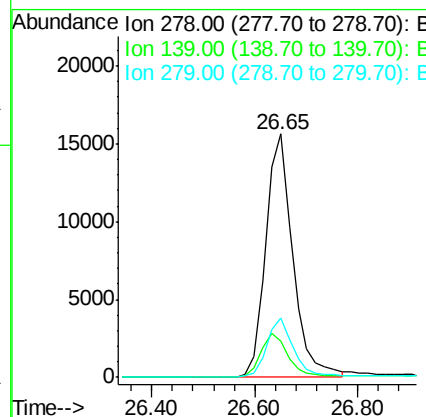
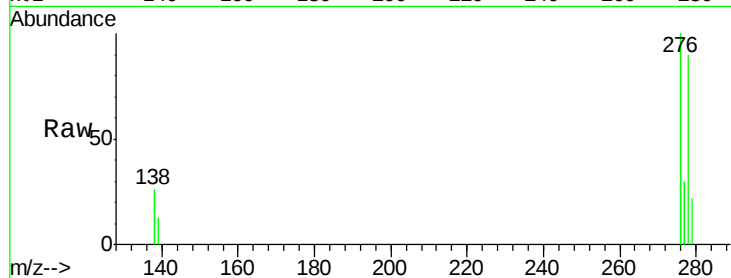
#35
Dibenzo(a,h)anthracene
Concen: 4.13 ng
RT: 26.65 min Scan# 1719
Delta R.T. 0.05 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Instrument :
BNA_E
ClientSampleId :
PB93552BS

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.7	13.8	20.8
279	24.4	21.4	32.2

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#36
Benzo(g,h,i)perylene
Concen: 4.01 ng
RT: 27.40 min Scan# 1763
Delta R.T. 0.05 min
Lab File: BE092415.D
Acq: 23 Sep 2016 14:54

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.8
138	21.8	19.8	29.6

