

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110916\
 Data File : BE092524.D
 Acq On : 9 Nov 2016 14:24
 Operator : UM/SJ
 Sample : PB94547BS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleID :
 PB94547BS

Manual Integrations
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 11/9/2016 4:05:02 PM

Quant Time: Nov 09 15:47:58 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE110816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 08 16:27:22 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9248	5.00	ng	-0.02
7) Naphthalene-d8	10.93	136	42153	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	26887	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	52117	5.00	ng	0.00
24) Chrysene-d12	21.72	240	66152	5.00	ng	0.00
31) Perylene-d12	24.08	264	58543	5.00	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	21903	10.74	ng	-0.01
5) Phenol-d6	7.31	99	31202	11.47	ng	-0.02
8) Nitrobenzene-d5	9.32	82	14037	5.08	ng	-0.02
13) 2,4,6-Tribromophenol	16.28	330	7554	7.87	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	31994	4.81	ng	-0.02
26) Terphenyl-d14	20.16	244	40330	5.02	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.39	88	4212	3.84	ng	# 57
3) n-Nitrosodimethylamine	3.73	42	6855	4.18	ng	# 98
6) bis(2-Chloroethyl)ether	7.57	93	12768	4.29	ng	# 86
9) Naphthalene	10.97	128	37657	4.13	ng	# 95
10) Hexachlorobutadiene	11.26	225	5652	4.09	ng	99
11) 2-Methylnaphthalene	12.60	142	25337	4.27	ng	97
15) Acenaphthylene	14.51	152	167242	4.34	ng	100
16) Acenaphthene	14.87	154	25334	4.07	ng	94
17) Fluorene	15.84	166	33207	4.24	ng	99
19) Hexachlorobenzene	16.87	284	9776	4.97	ng	# 67
20) Pentachlorophenol	17.21	266	8707	15.31	ng	# 85
21) Phenanthrene	17.58	178	52997	4.70	ng	# 94
22) Anthracene	17.67	178	51665	4.73	ng	99
23) Fluoranthene	19.59	202	237744	4.20	ng	99
25) Pyrene	19.95	202	252614	4.66	ng	98
27) Benzo(a)anthracene	21.70	228	292376m	4.36	ng	
28) Chrysene	21.75	228	238414m	4.45	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	24190	4.13	ng	# 56
30) Indeno(1,2,3-cd)pyrene	26.55	276	332563	4.54	ng	98
32) Benzo(b)fluoranthene	23.35	252	67136m	4.46	ng	
33) Benzo(k)fluoranthene	23.39	252	67242	4.23	ng	93
34) Benzo(a)pyrene	23.97	252	64328	4.25	ng	# 95
35) Dibenzo(a,h)anthracene	26.58	278	69107	4.85	ng	# 94
36) Benzo(g,h,i)perylene	27.31	276	290112	4.95	ng	97

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

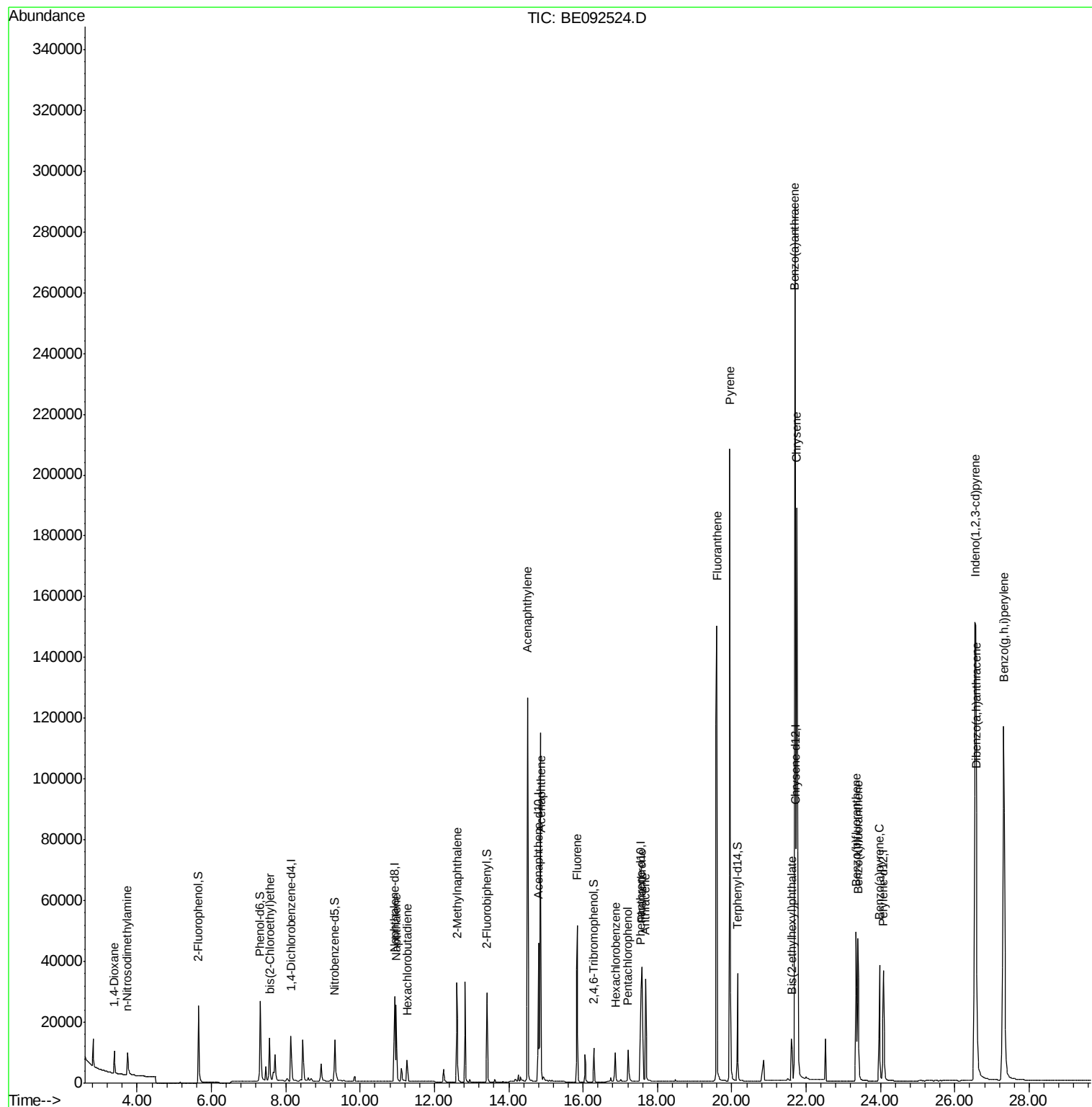
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110916\
Data File : BE092524.D
Acq On : 9 Nov 2016 14:24
Operator : UM/SJ
Sample : PB94547BS
Misc :
ALS Vial : 7 Sample Multiplier: 1

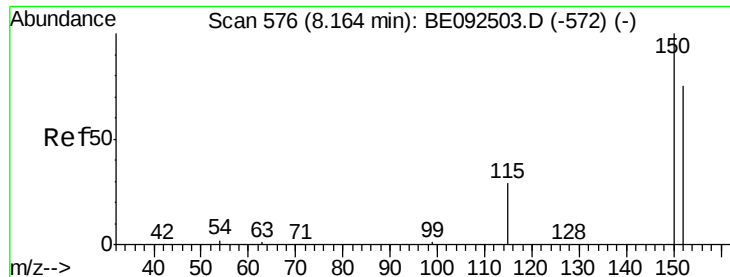
Instrument :
BNA_E
ClientSampleId :
PB94547BS

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 08 16:27:22 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

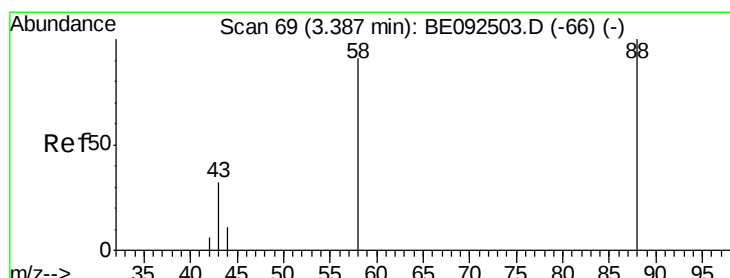
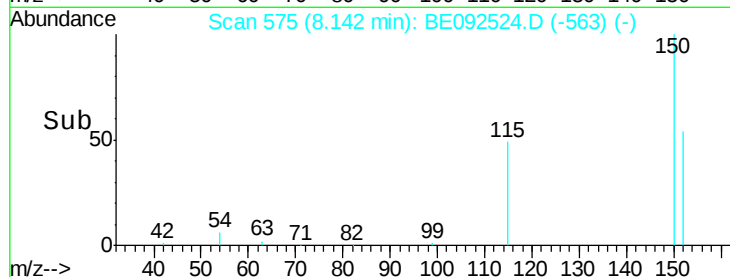
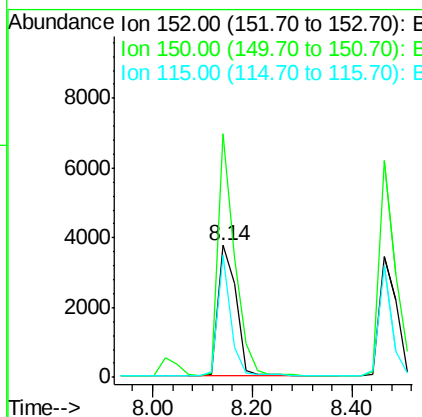
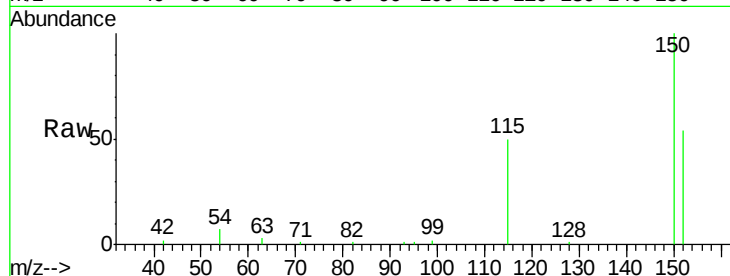
ClientSampleId :

PB94547BS

Tot Ion:	152	Resp:	9248
Ion Ratio	Lower	Upper	
152	100		
150	184.5	106.0	159.0#
115	92.0	31.2	46.8#

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#2

1,4-Dioxane

Concen: 3.84 ng

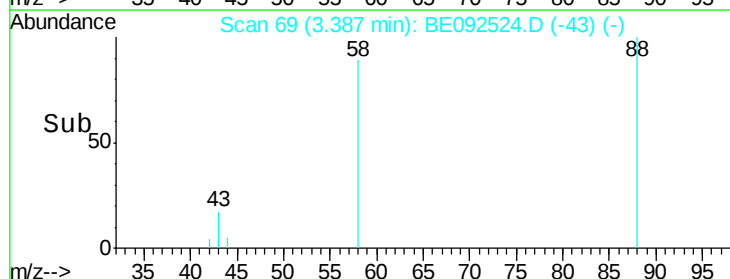
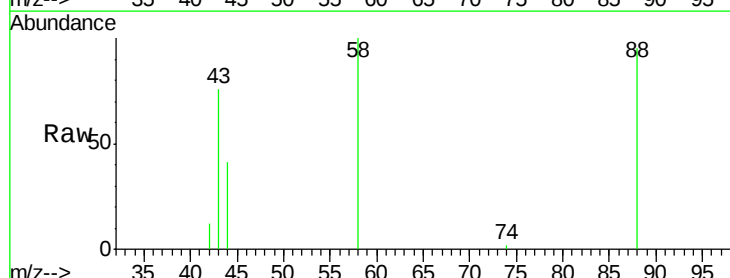
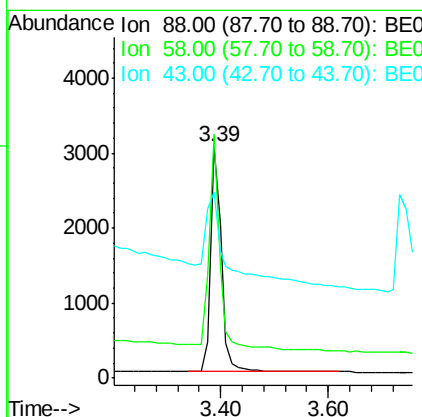
RT: 3.39 min Scan# 69

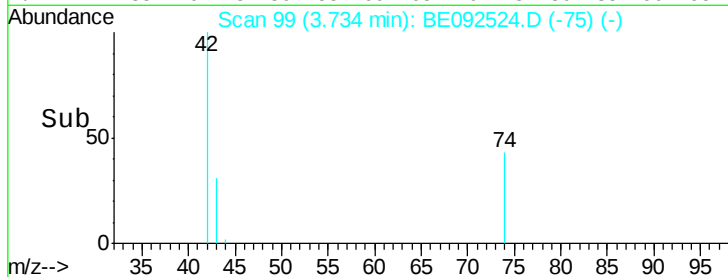
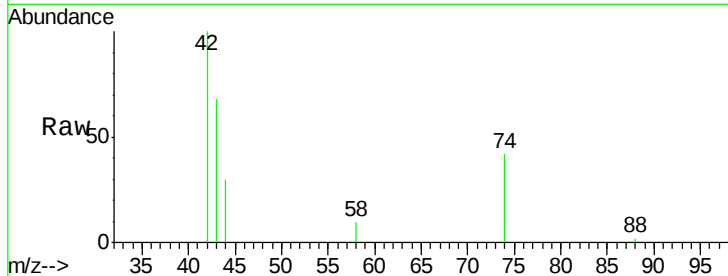
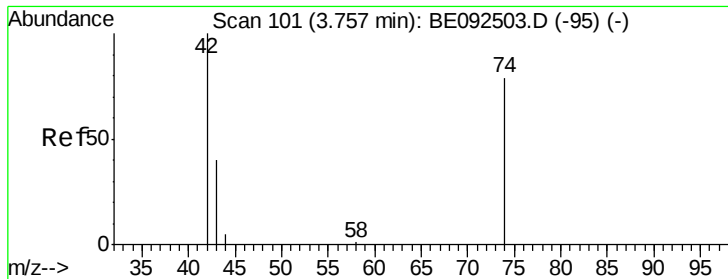
Delta R.T. -0.00 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Tgt Ion:	88	Resp:	4212
Ion Ratio	Lower	Upper	
88	100		
58	100.6	63.6	95.4#
43	85.0	28.0	42.0#





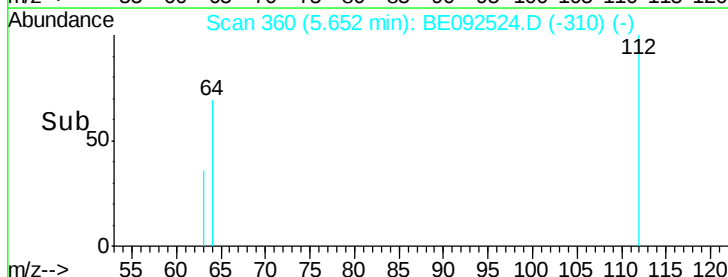
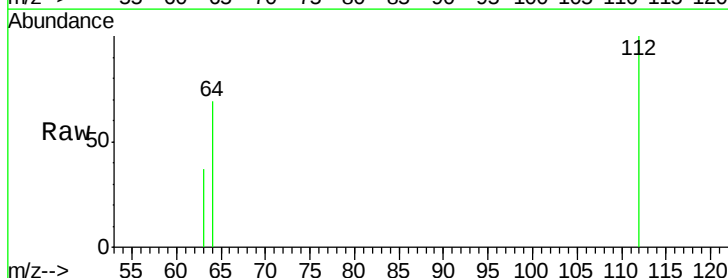
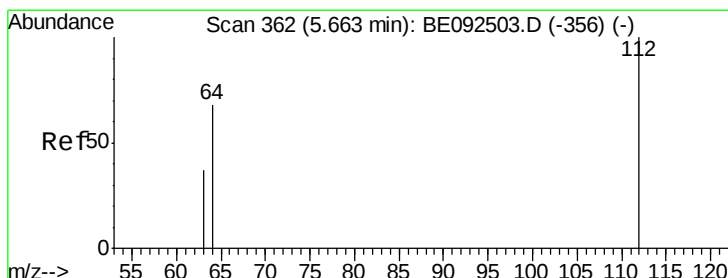
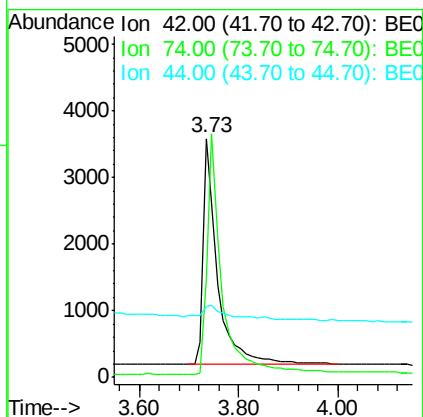
#3
n-Nitrosodimethylamine
Concen: 4.18 ng
RT: 3.73 min Scan# 99
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tot Ion	Ratio	Lower	Upper
42	100		
74	108.9	86.0	129.0
44	13.2	5.1	7.7#

Instrument :
BNA_E
ClientSampleId :
PB94547BS

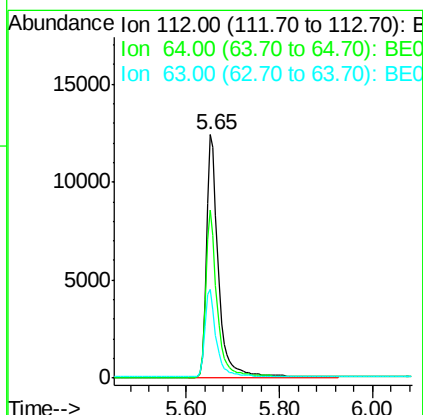
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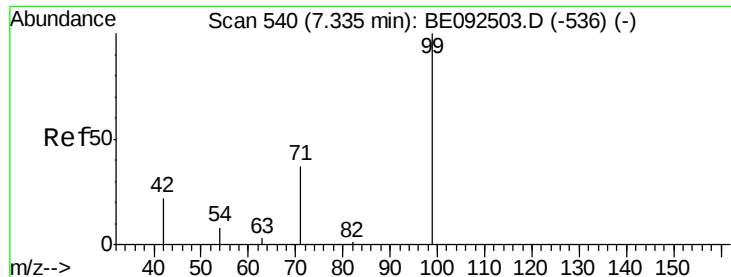
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#4
2-Fluorophenol
Concen: 10.74 ng
RT: 5.65 min Scan# 360
Delta R.T. -0.01 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.5	80.3
63	35.9	27.9	41.9





#5

Phenol-d6

Concen: 11.47 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

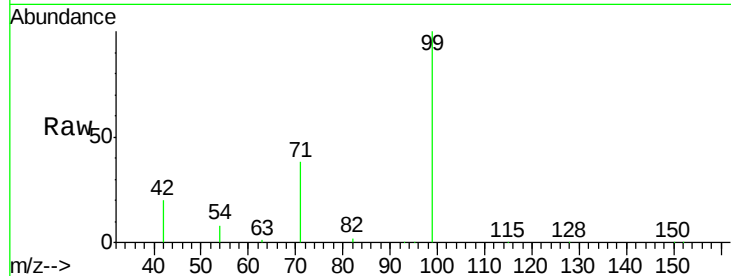
ClientSampleId :

PB94547BS

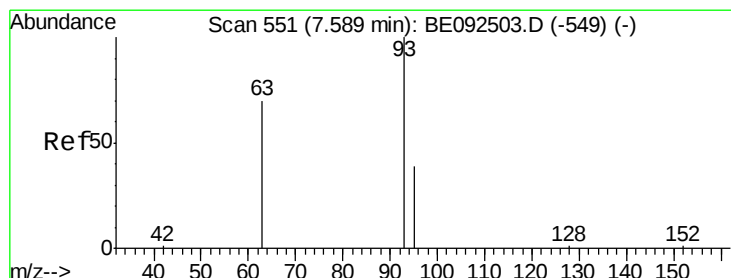
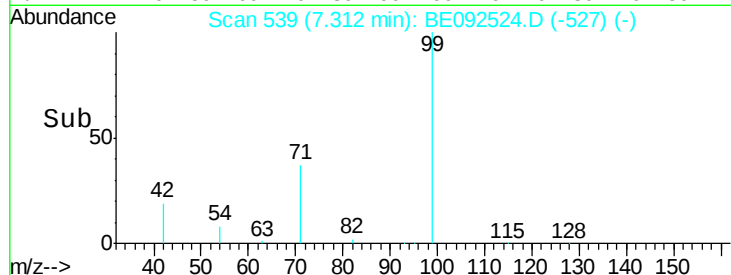
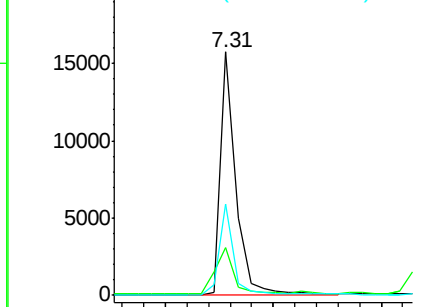
Tot Ion:	99	Resp:	31202
Ion	Ratio	Lower	Upper
99	100		
42	22.5	16.0	24.0
71	34.4	30.6	45.8

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



#6

bis(2-Chloroethyl)ether

Concen: 4.29 ng

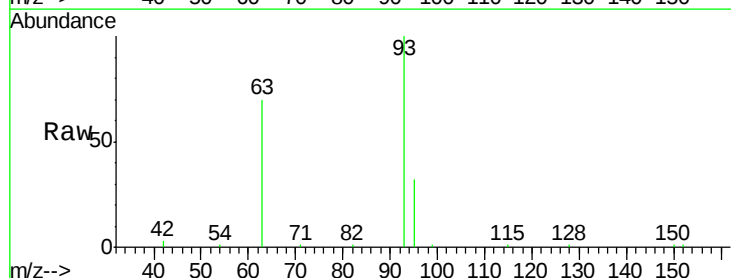
RT: 7.57 min Scan# 550

Delta R.T. -0.02 min

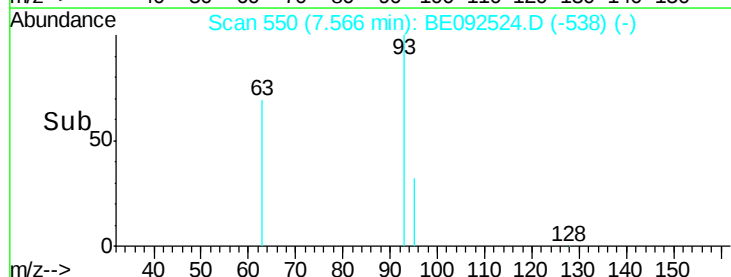
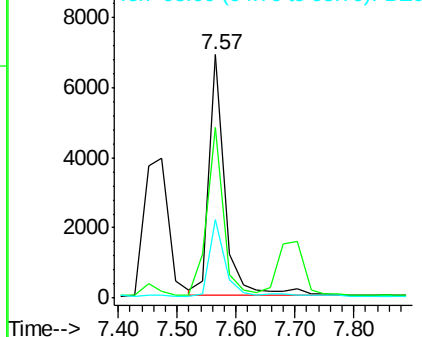
Lab File: BE092524.D

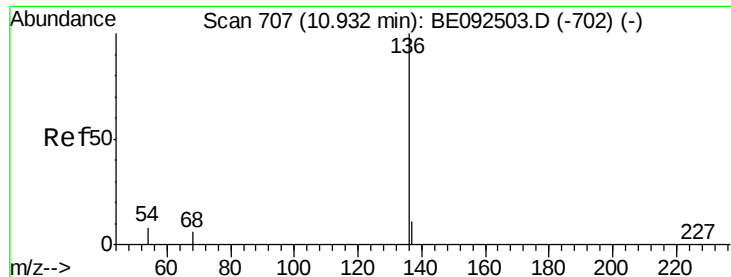
Acq: 9 Nov 2016 14:24

Tgt Ion:	93	Resp:	12768
Ion	Ratio	Lower	Upper
93	100		
63	73.2	71.6	107.4
95	31.8	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: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

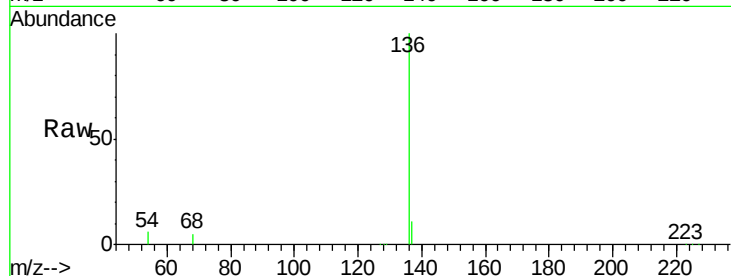
ClientSampled :

PB94547BS

Tot Ion	Ratio	Resp	Lower	Upper
136	100	42153		
137	11.4	8.2	12.4	
54	5.7	9.6	14.4	
68	4.5	6.7	10.1	

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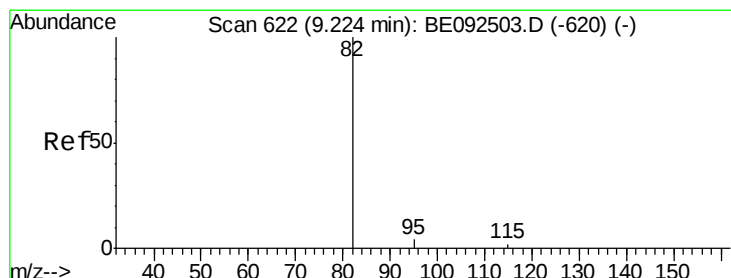
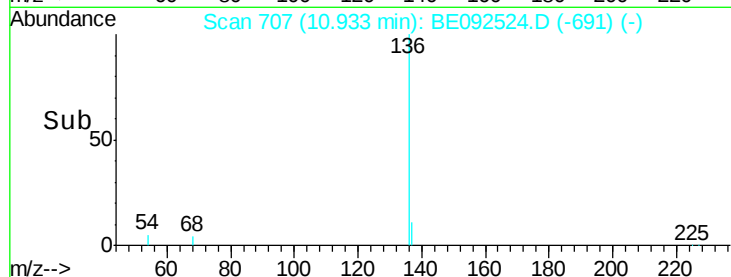
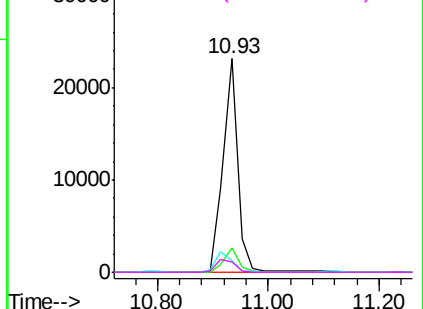


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 5.08 ng

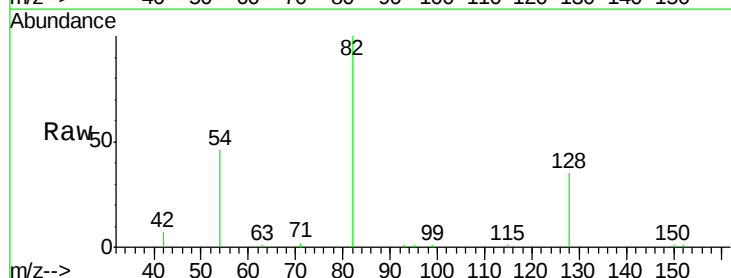
RT: 9.32 min Scan# 626

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

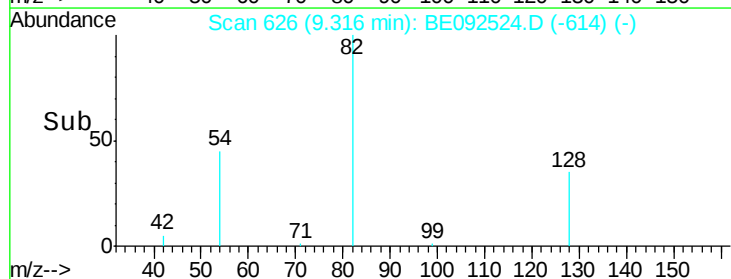
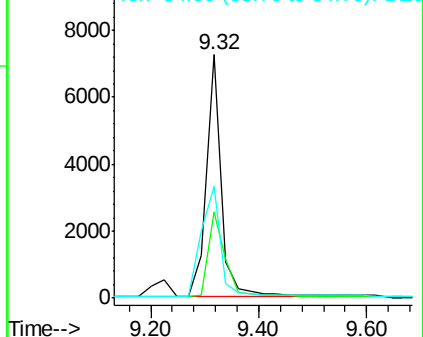
Tgt Ion	Ratio	Resp	Lower	Upper
82	100	14037		
128	35.3	39.0	58.4	
54	45.9	44.8	67.2	

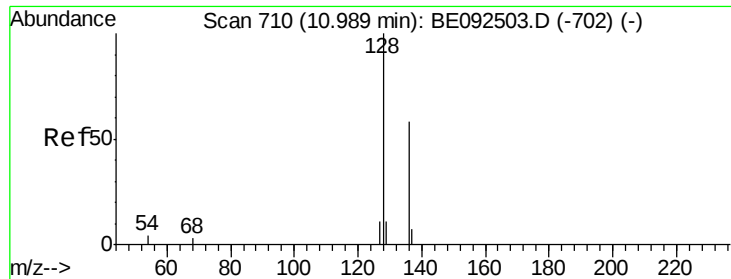


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 4.13 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

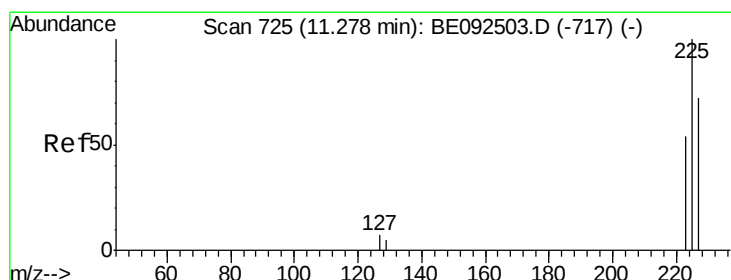
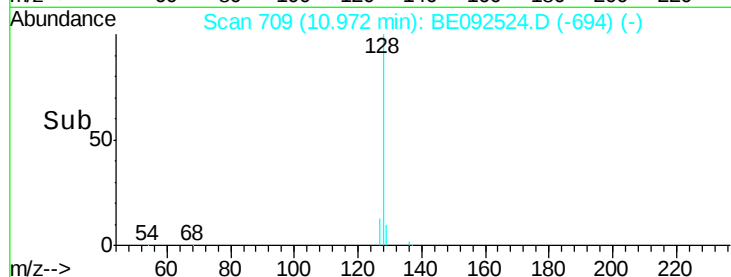
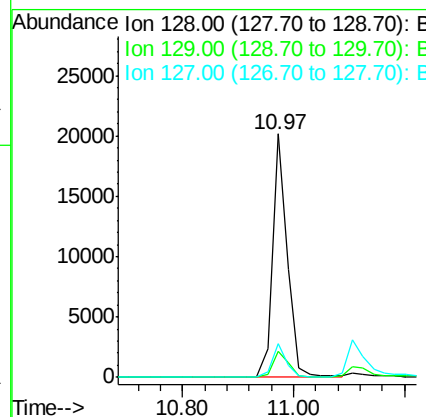
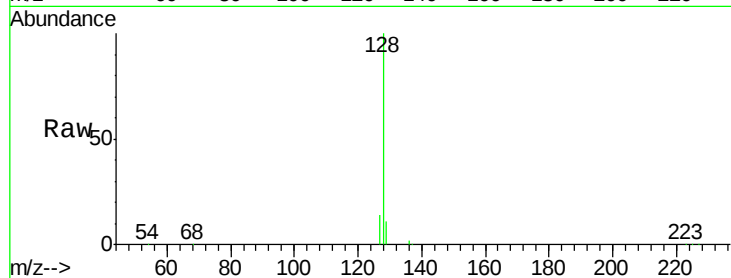
ClientSampled :

PB94547BS

Tot Ion:	128	Resp:	37657
Ion Ratio	Lower	Upper	
128	100		
129	10.6	11.2	16.8#
127	13.7	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 4.09 ng

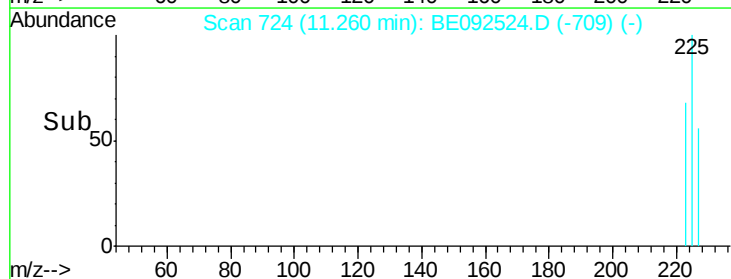
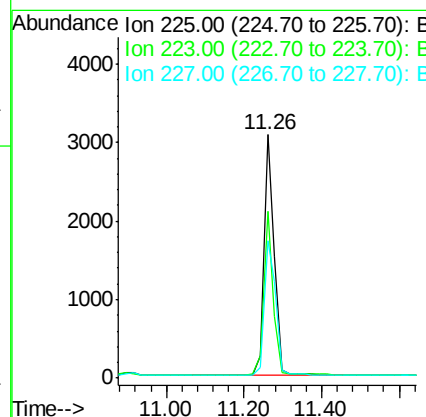
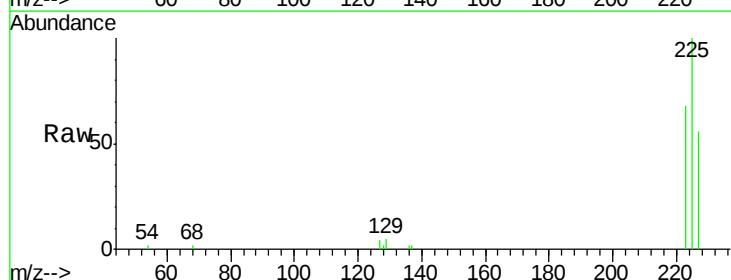
RT: 11.26 min Scan# 724

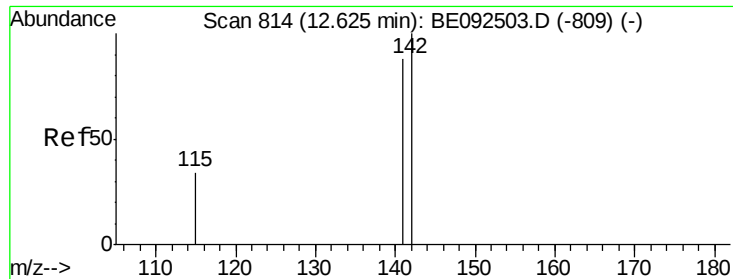
Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Tgt Ion:	225	Resp:	5652
Ion Ratio	Lower	Upper	
225	100		
223	63.3	50.6	76.0
227	62.5	51.4	77.0





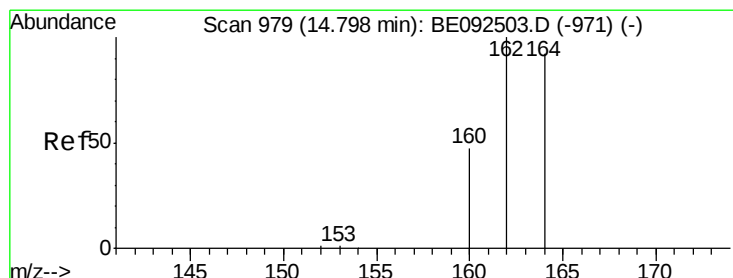
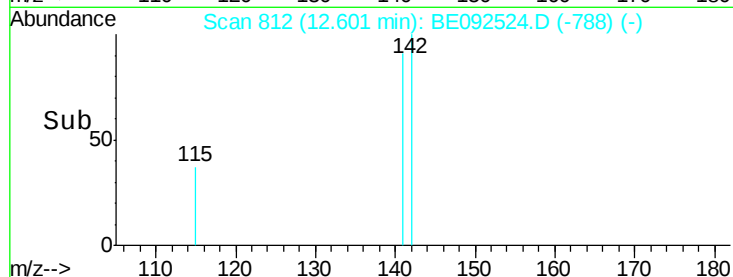
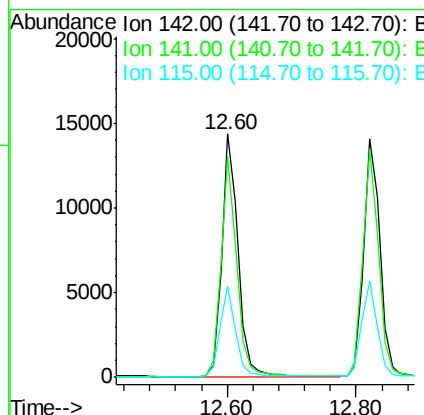
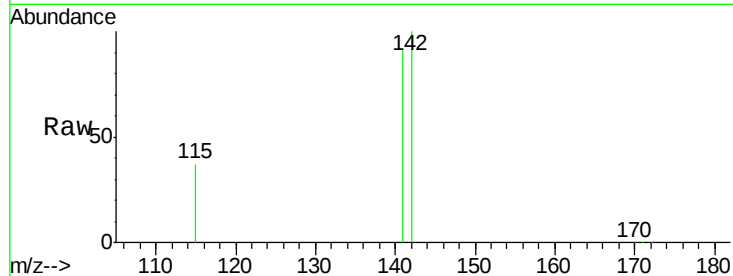
#11
2-Methylnaphthalene
Concen: 4.27 ng
RT: 12.60 min Scan# 812
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.7	110.5
115	37.4	34.0	51.0

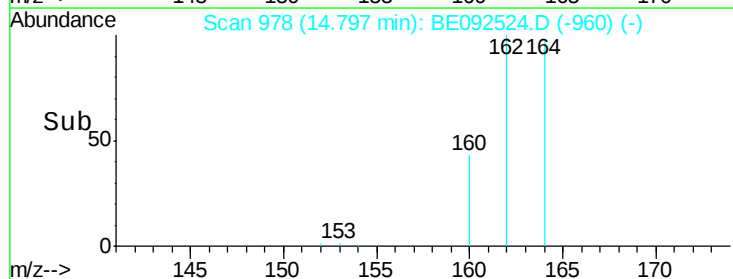
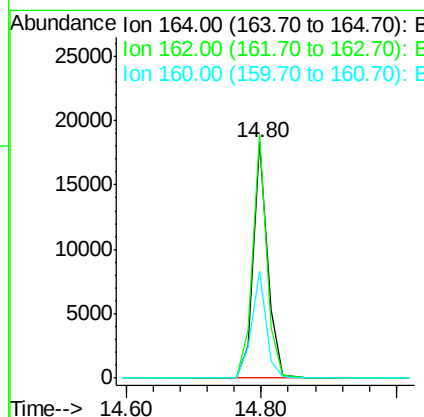
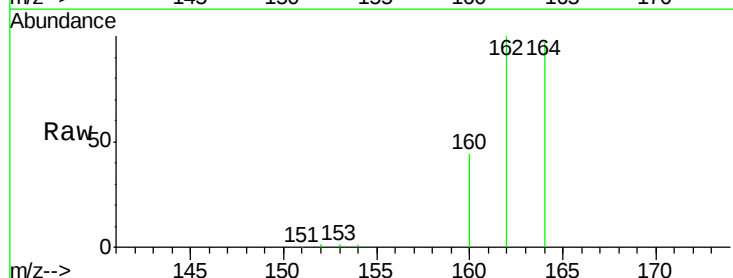
Manual Integrations
APPROVED

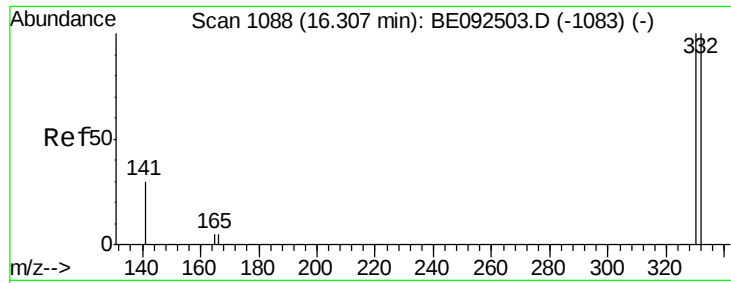
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.80 min Scan# 978
Delta R.T. -0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	71.4	107.0
160	45.0	27.4	41.2





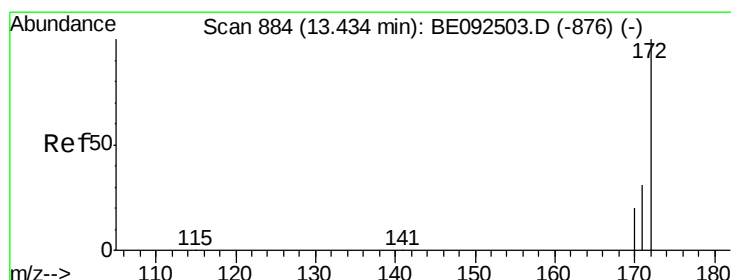
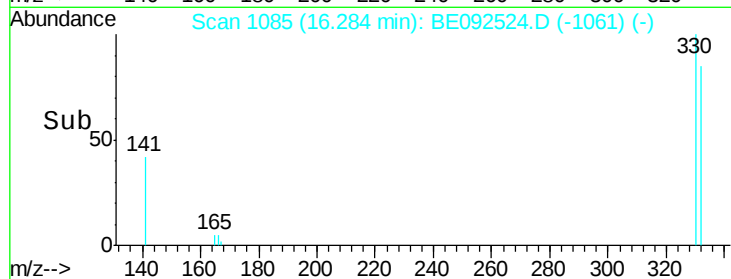
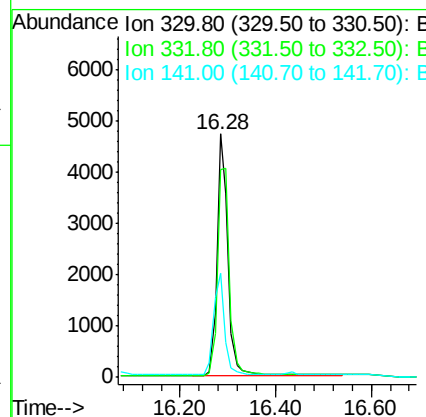
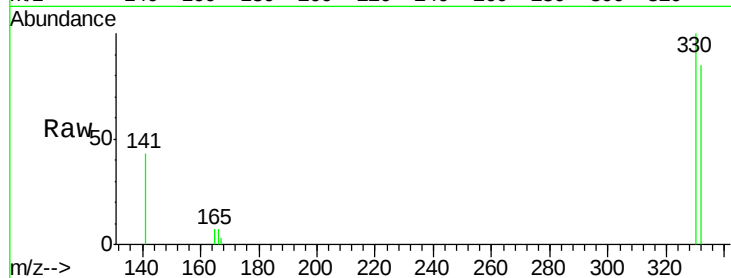
#13
 2,4,6-Tribromophenol
 Concen: 7.87 ng
 RT: 16.28 min Scan# 1085
 Delta R.T. -0.02 min
 Lab File: BE092524.D
 Acq: 9 Nov 2016 14:24

Instrument :
 BNA_E
 ClientSampleId :
 PB94547BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.7	75.4	113.0
141	42.2	31.0	46.6

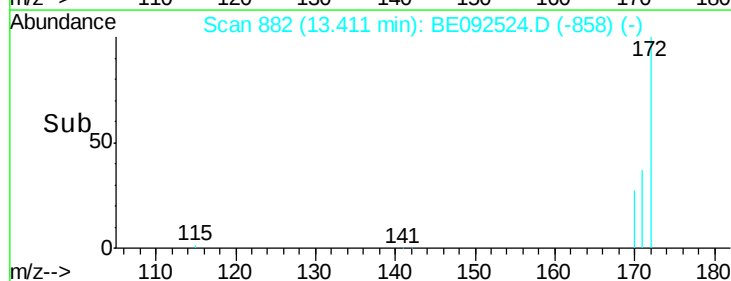
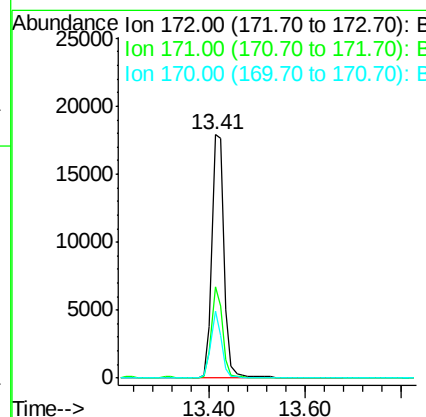
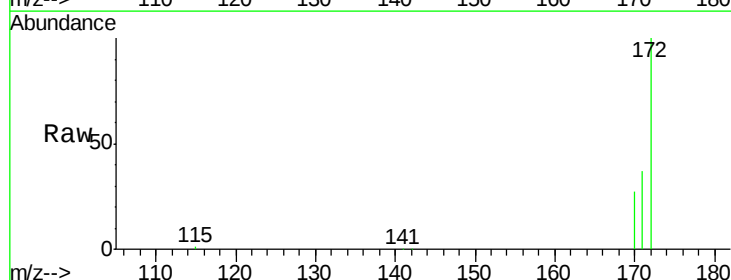
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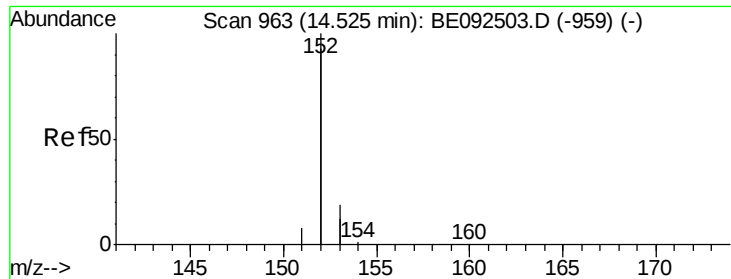
sohil
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#14
 2-Fluorobiphenyl
 Concen: 4.81 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092524.D
 Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.5	30.1	45.1
170	27.3	21.8	32.6





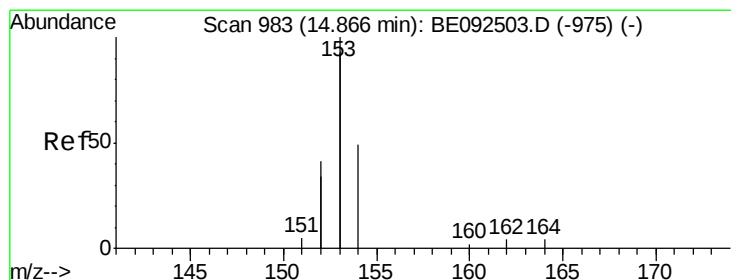
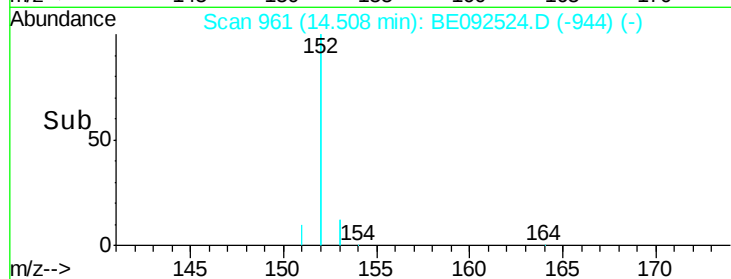
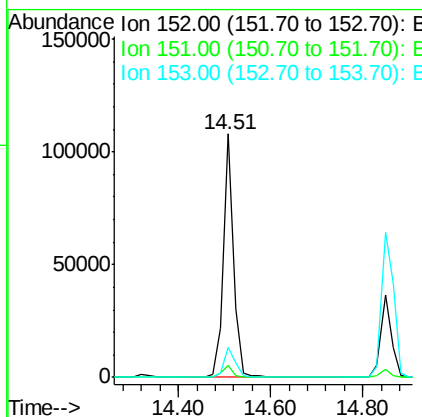
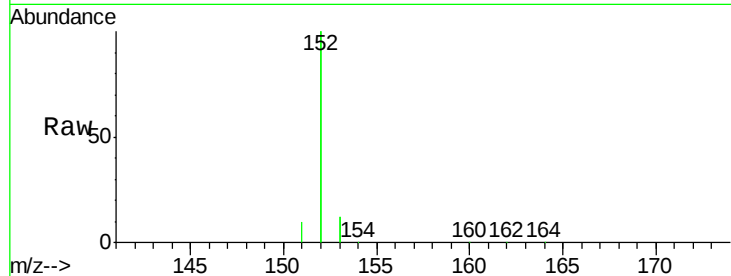
#15
Acenaphthylene
Concen: 4.34 ng
RT: 14.51 min Scan# 961
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	12.9	10.4	15.6

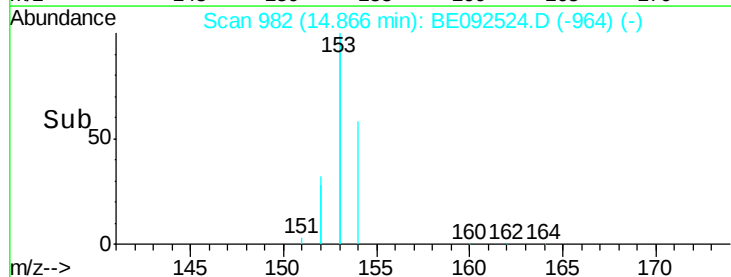
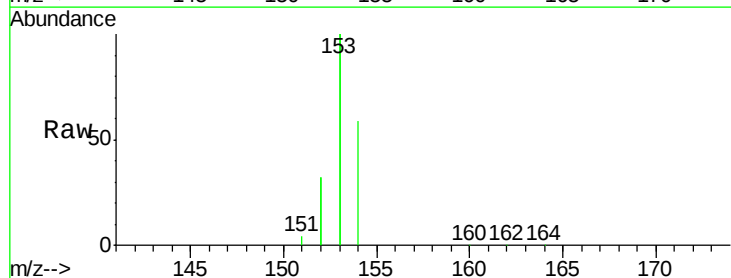
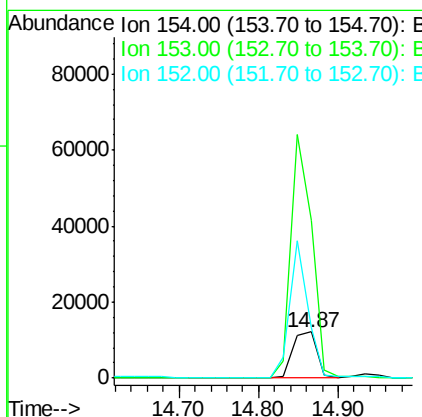
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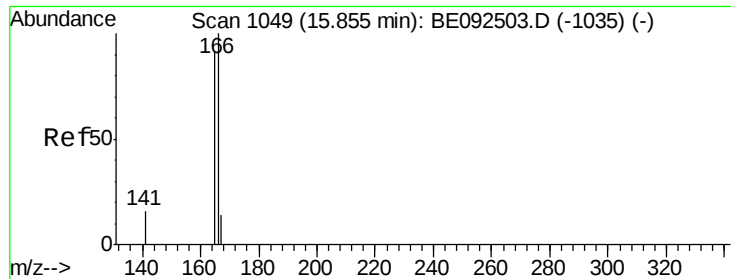
sohil
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#16
Acenaphthene
Concen: 4.07 ng
RT: 14.87 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
154	100		
153	452.5	350.8	526.2
152	222.7	171.1	256.7





#17

Fluorene

Concen: 4.24 ng

RT: 15.84 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

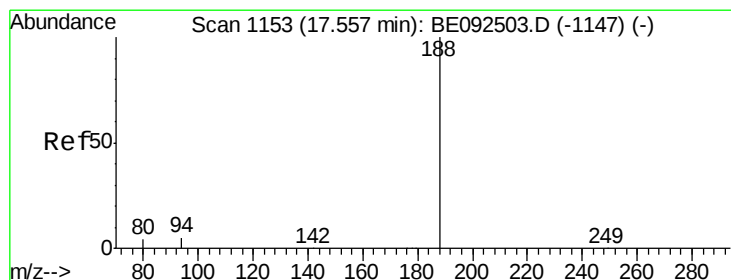
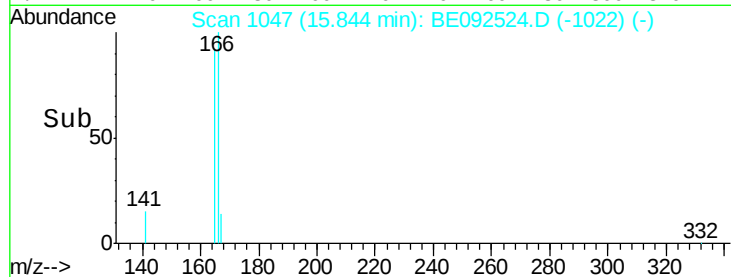
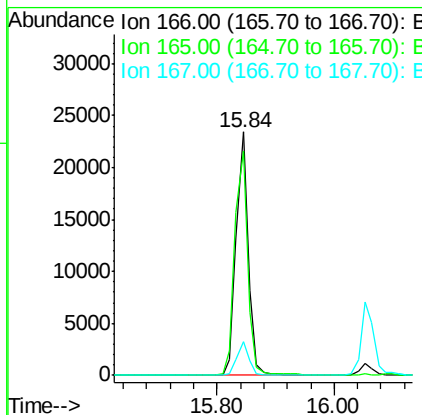
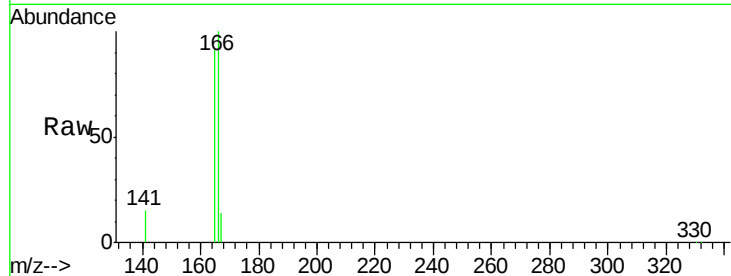
ClientSampleId :

PB94547BS

Tot Ion:	166	Resp:	33207
Ion Ratio	Lower	Upper	
166	100		
165	98.4	78.2	117.4
167	13.5	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

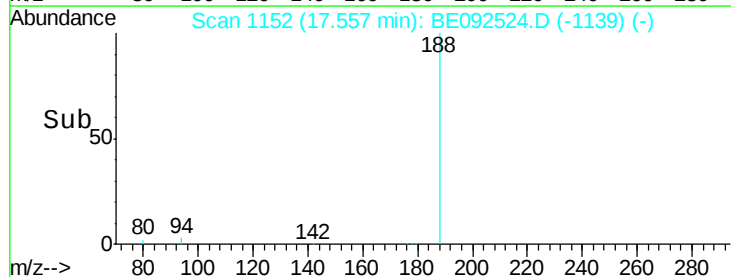
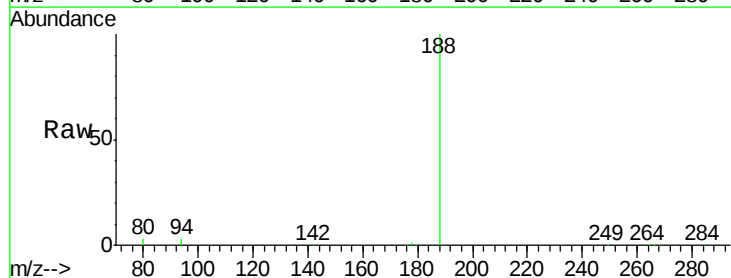
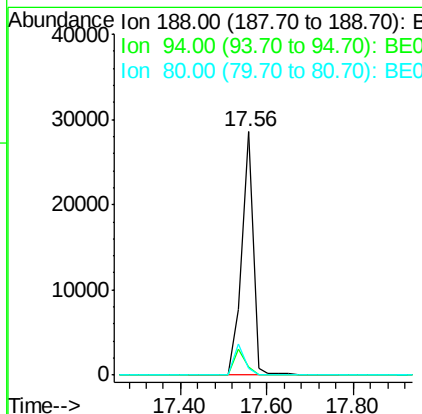
RT: 17.56 min Scan# 1152

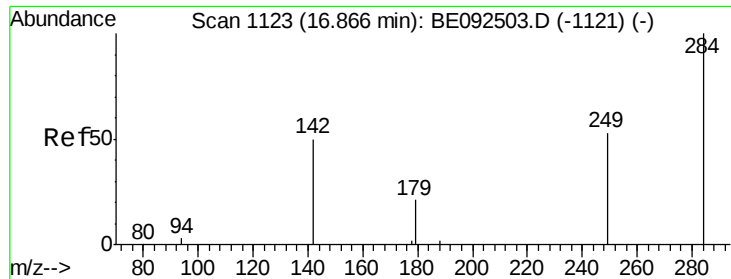
Delta R.T. 0.00 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Tgt Ion:	188	Resp:	52117
Ion Ratio	Lower	Upper	
188	100		
94	3.2	3.2	4.8#
80	2.6	2.6	3.8





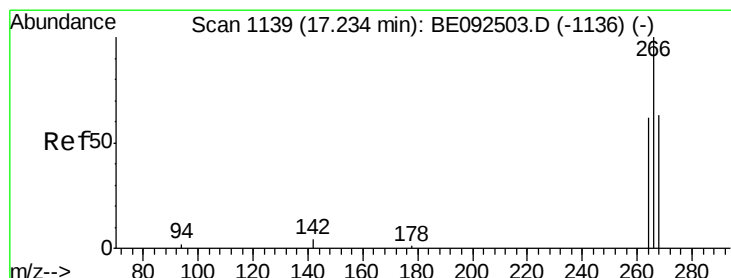
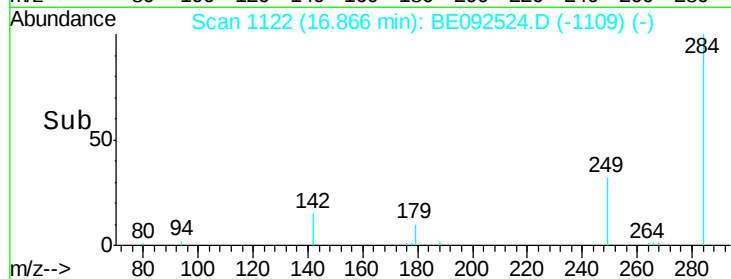
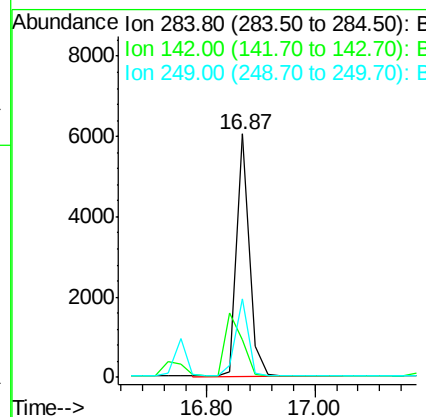
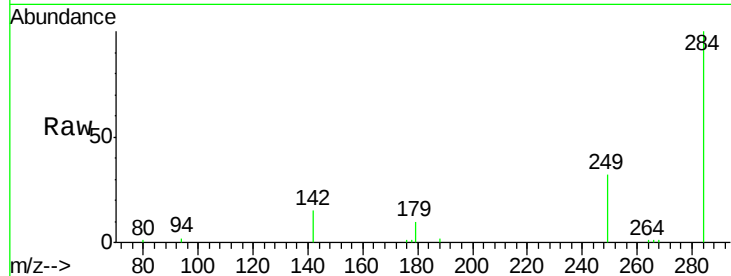
#19
Hexachlorobenzene
Concen: 4.97 ng
RT: 16.87 min Scan# 1122
Delta R.T. 0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	33.0	27.9	41.9

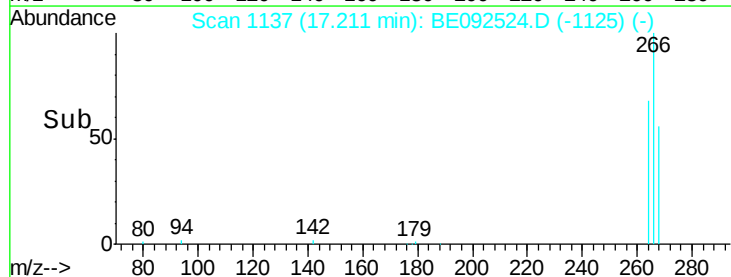
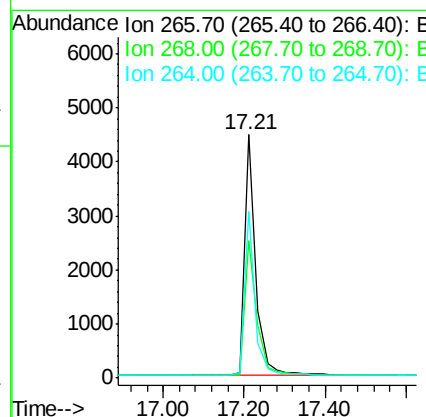
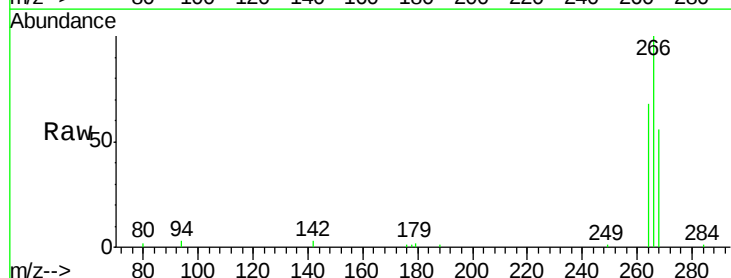
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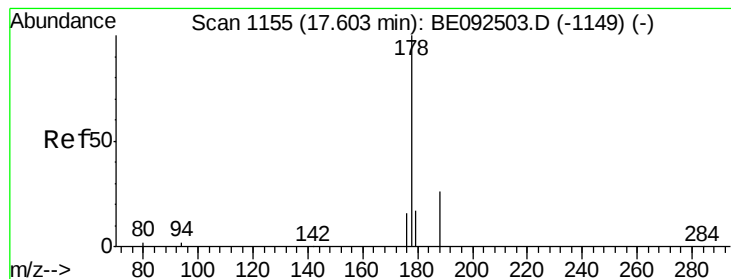
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#20
Pentachlorophenol
Concen: 15.31 ng
RT: 17.21 min Scan# 1137
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
266	100		
268	56.2	62.5	93.7#
264	68.4	57.2	85.8





#21

Phenanthrene

Concen: 4.70 ng

RT: 17.58 min Scan# 1153

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

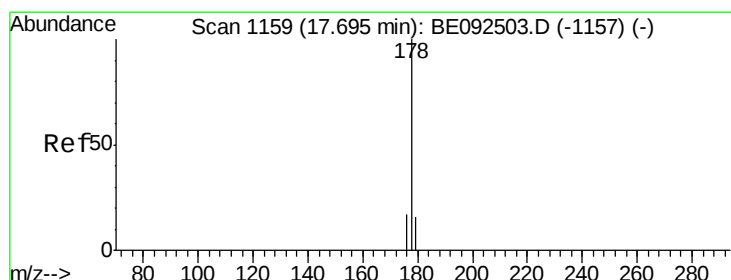
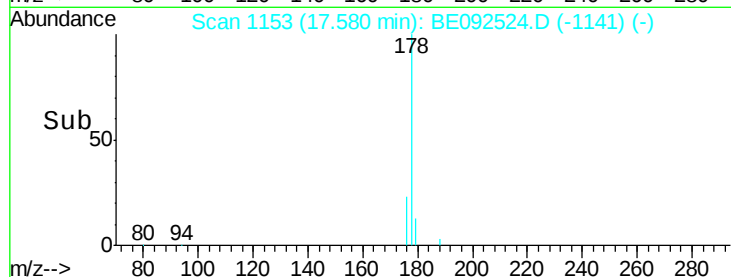
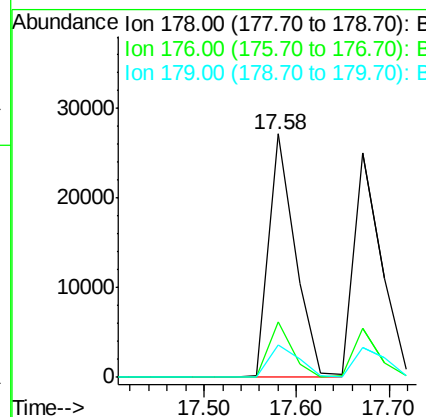
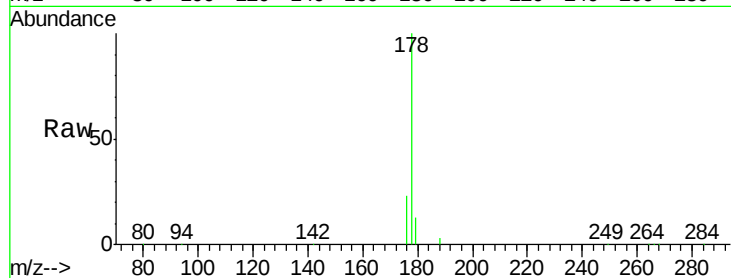
ClientSampleId :

PB94547BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.8
179	14.7	16.0	24.0

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#22

Anthracene

Concen: 4.73 ng

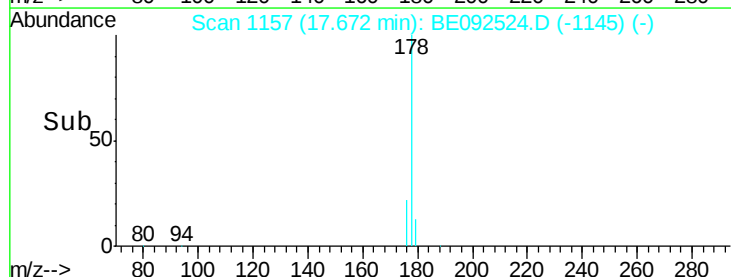
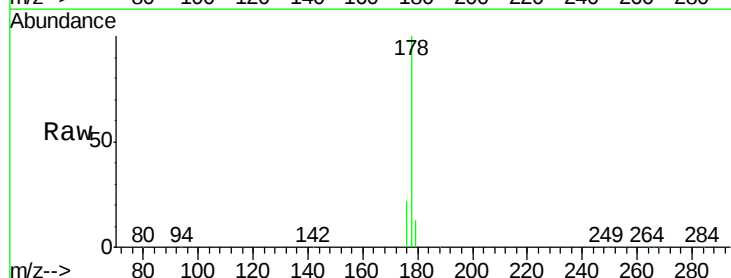
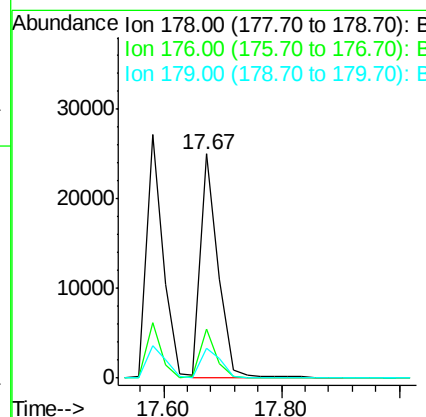
RT: 17.67 min Scan# 1157

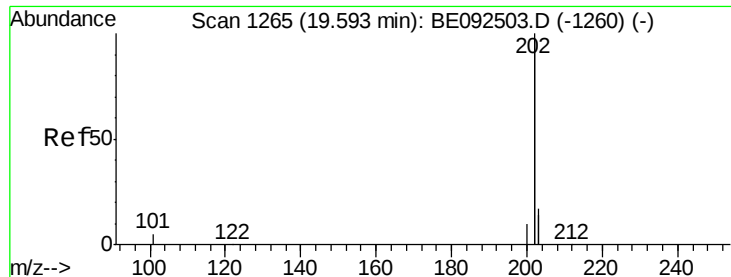
Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

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





#23

Fluoranthene

Concen: 4.20 ng

RT: 19.59 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

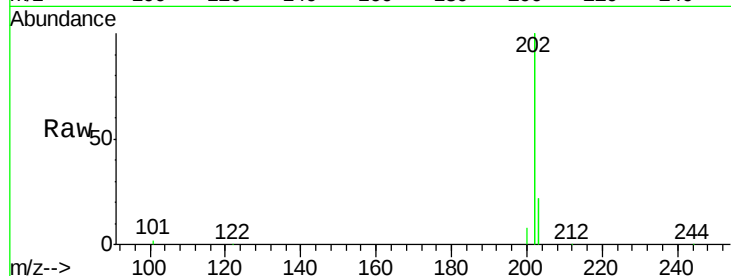
ClientSampleId :

PB94547BS

Tot Ion	Ratio	Lower	Upper
202	100		
101	2.9	2.2	3.4
203	17.5	13.7	20.5

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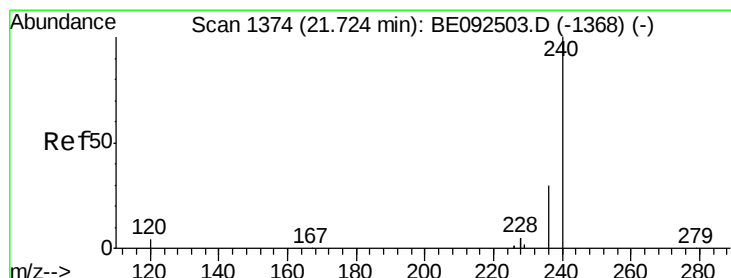
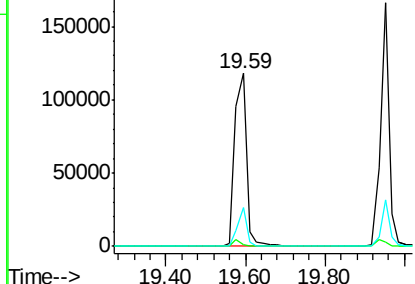
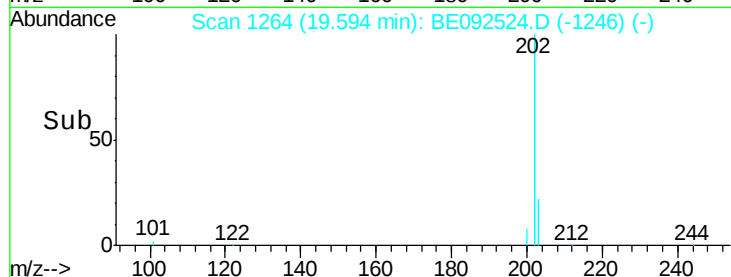


Abundance

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



#24

Chrysene-d12

Concen: 5.00 ng

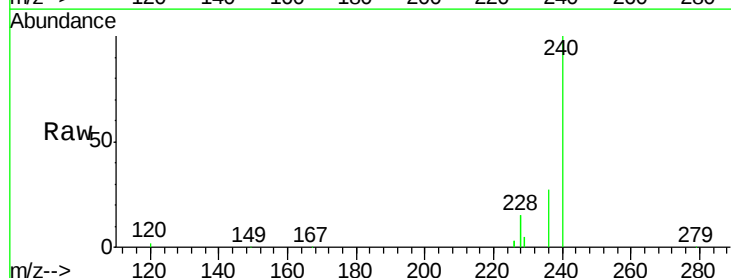
RT: 21.72 min Scan# 1373

Delta R.T. 0.00 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	2.1	2.6	4.0#
236	27.4	24.6	37.0

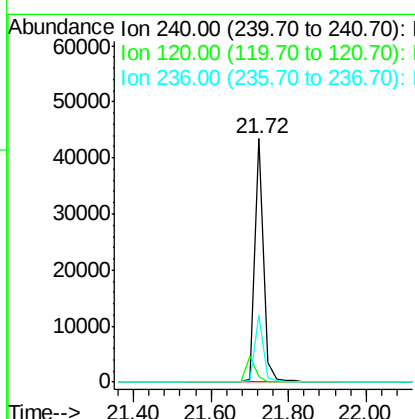
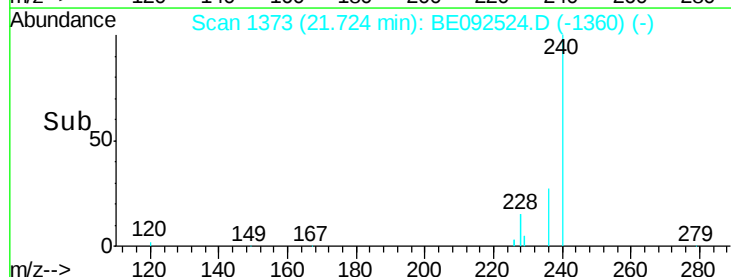


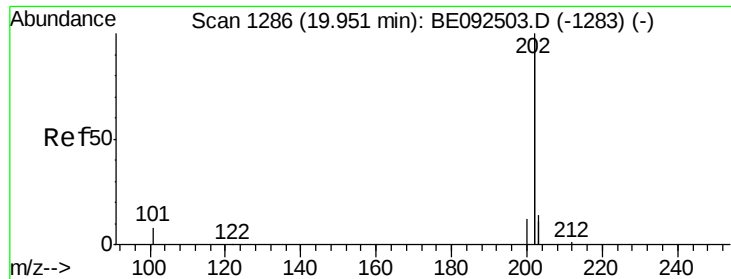
Abundance

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





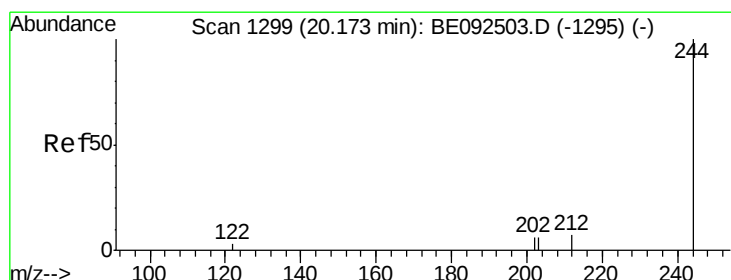
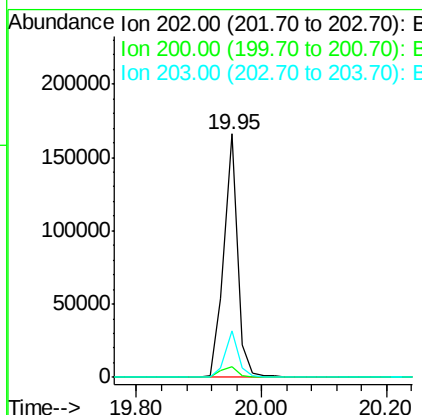
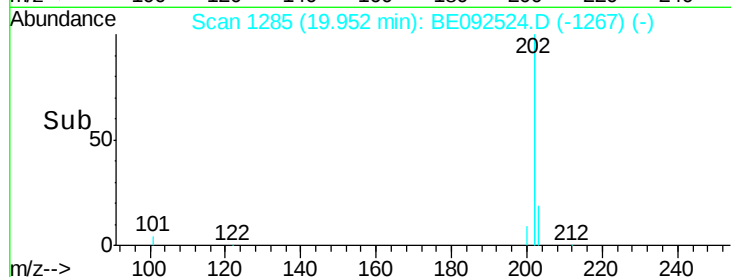
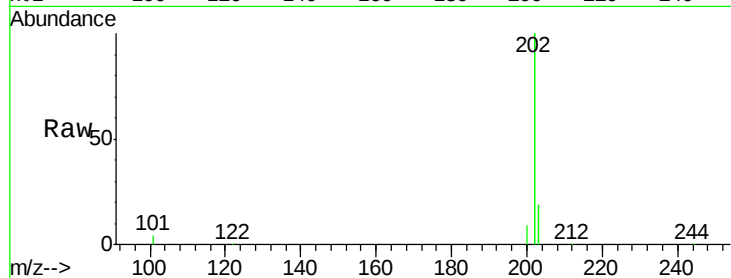
#25
Pvrene
Concen: 4.66 ng
RT: 19.95 min Scan# 1285
Delta R.T. 0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Resp	Lower	Upper
202	100	252614		
200	5.1		4.2	6.4
203	18.2		13.9	20.9

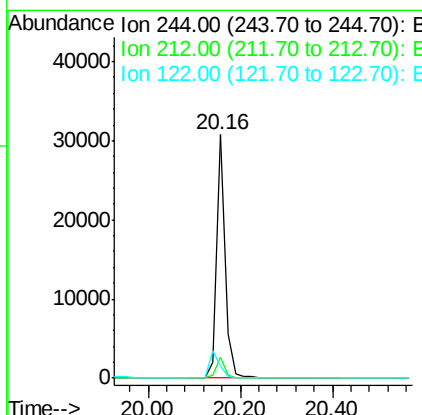
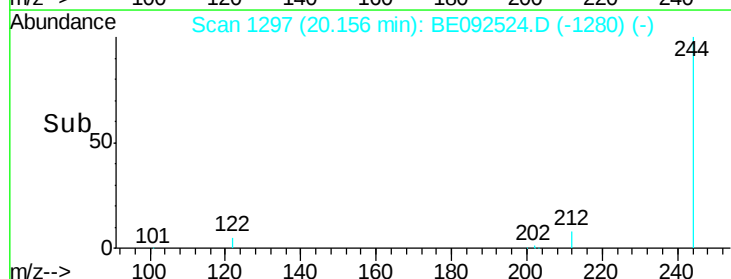
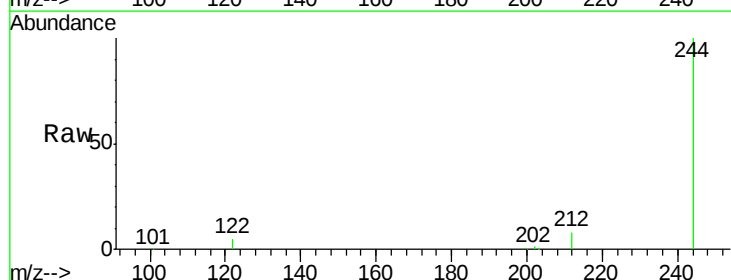
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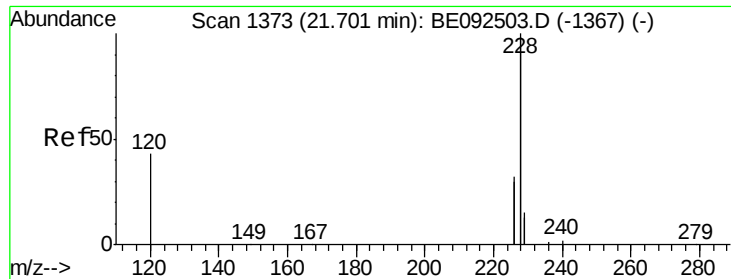
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#26
Terphenyl-d14
Concen: 5.02 ng
RT: 20.16 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	40330		
212	8.4		6.7	10.1
122	4.9		3.6	5.4





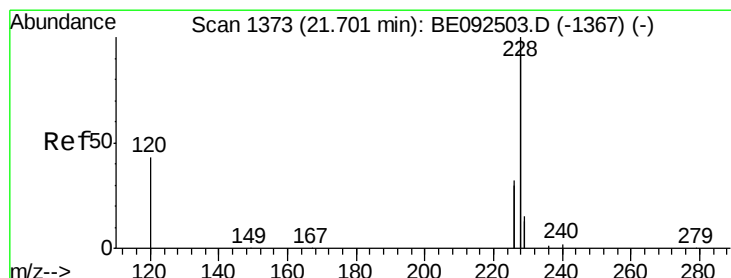
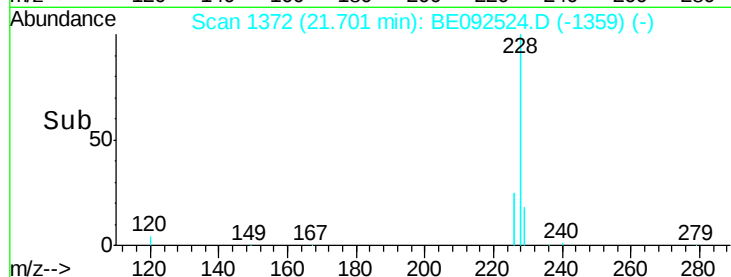
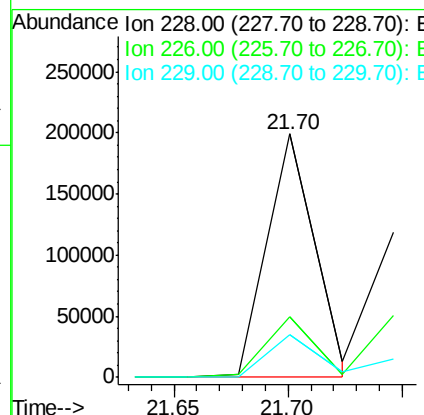
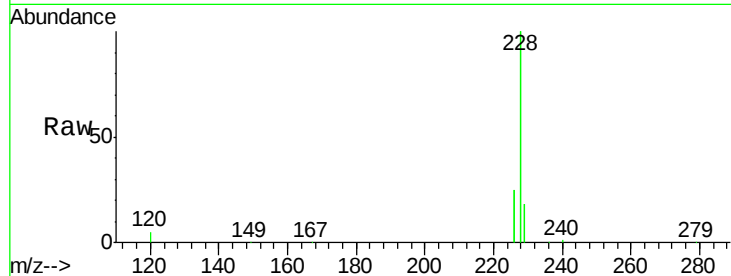
#27
Benzo(a)anthracene
Concen: 4.36 ng m
RT: 21.70 min Scan# 1372
Delta R.T. 0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampled :
PB94547BS

Tot Ion	Ratio	Lower	Upper
228	100		
226	24.9	23.6	35.4
229	17.6	13.3	19.9

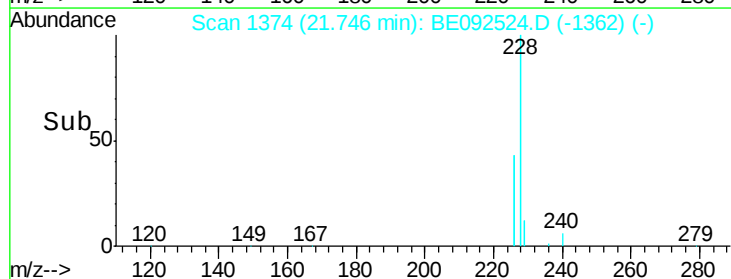
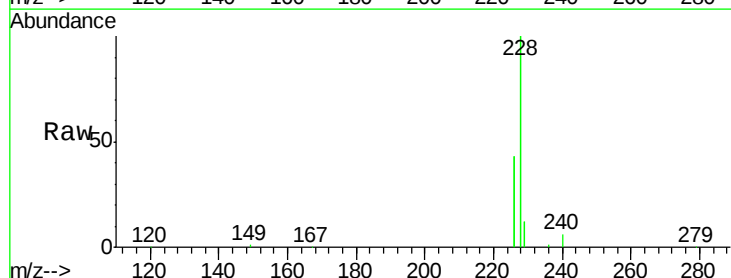
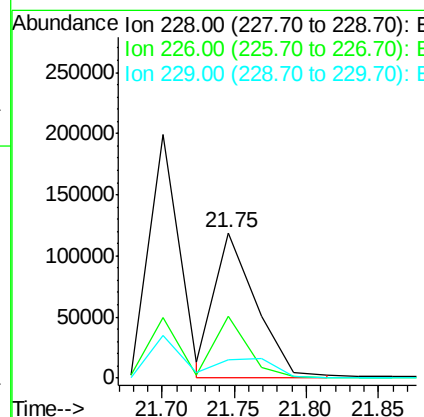
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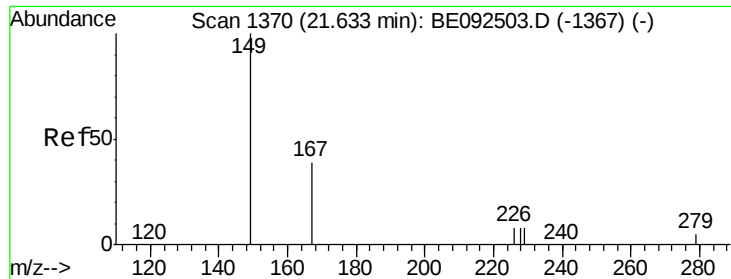
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#28
Chrysene
Concen: 4.45 ng m
RT: 21.75 min Scan# 1374
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	42.9	36.3	54.5
229	12.3	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 4.13 ng

RT: 21.61 min Scan# 1368

Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Instrument :

BNA_E

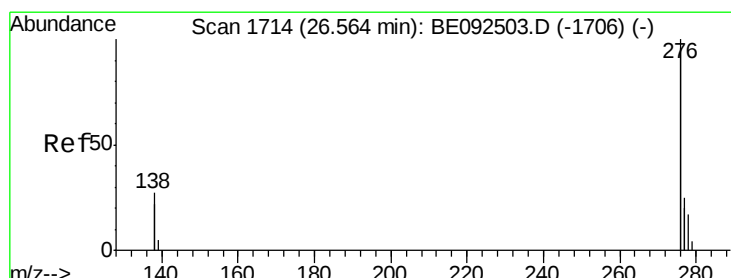
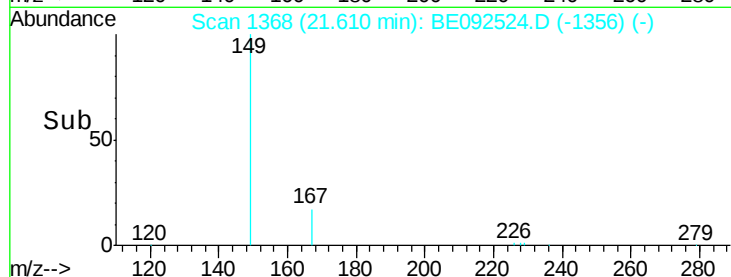
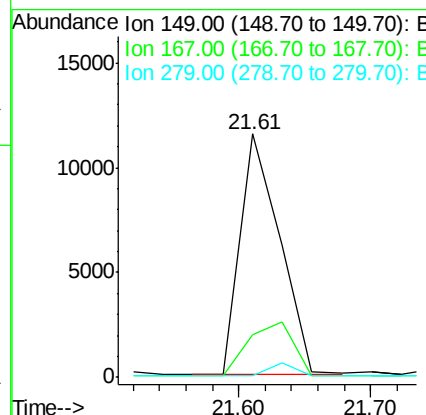
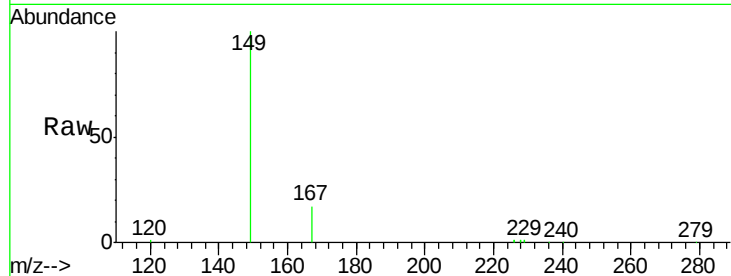
ClientSampleId :

PB94547BS

Tot Ion:	149	Resp:	24190
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: 4.54 ng

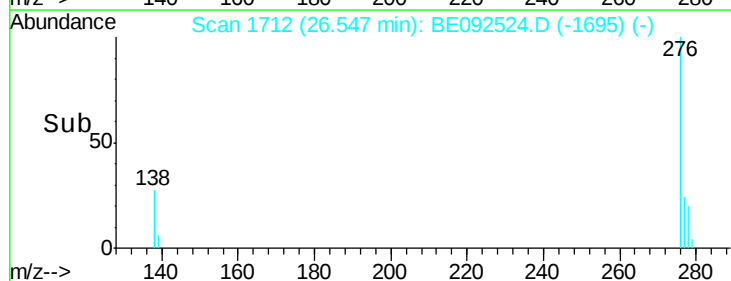
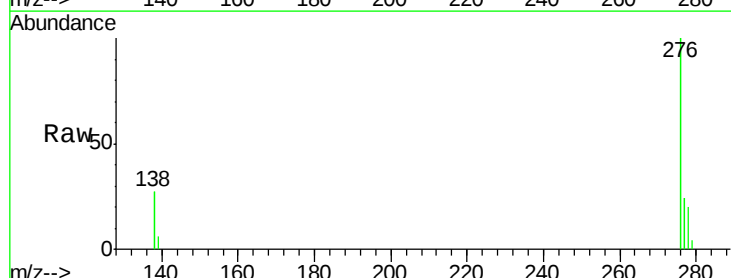
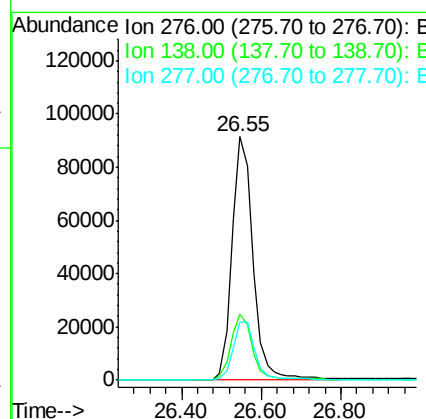
RT: 26.55 min Scan# 1712

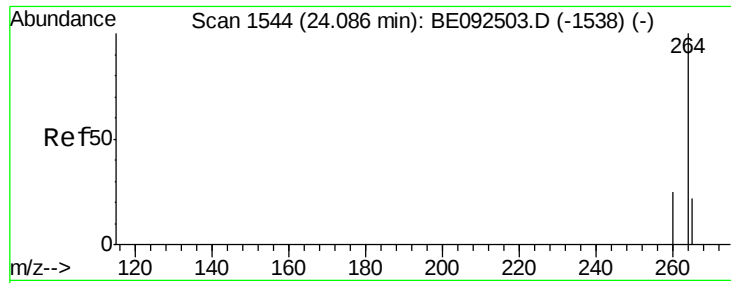
Delta R.T. -0.02 min

Lab File: BE092524.D

Acq: 9 Nov 2016 14:24

Tgt Ion:	276	Resp:	332563
Ion Ratio	Lower	Upper	
276	100		
138	27.2	20.3	30.5
277	24.8	19.7	29.5





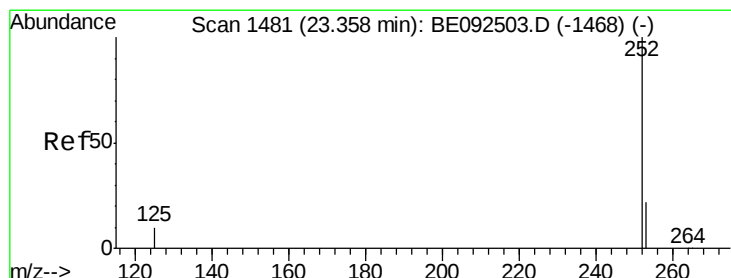
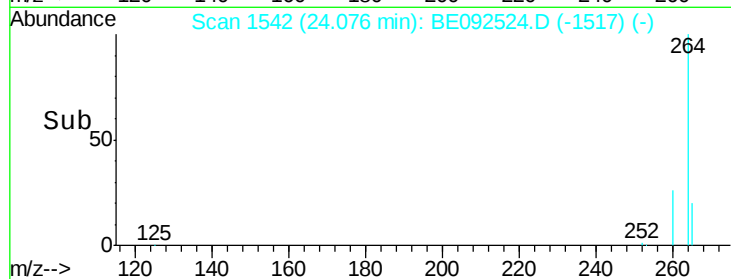
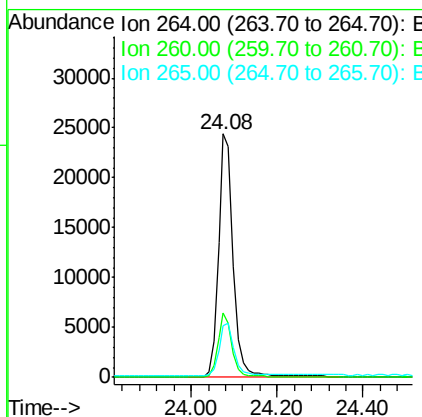
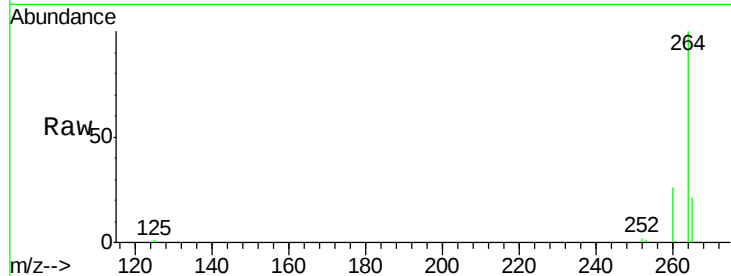
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1542
Delta R.T. -0.01 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.4	20.1	30.1
265	21.1	17.9	26.9

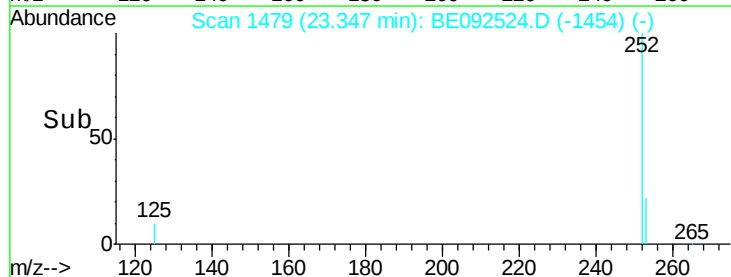
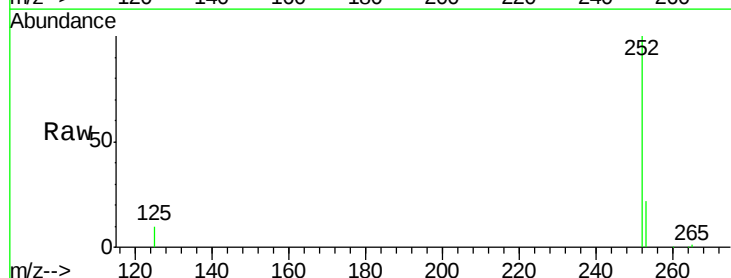
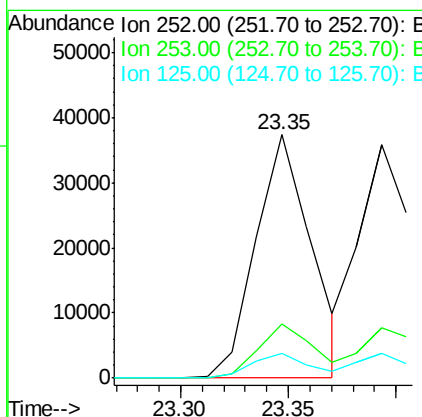
Manual Integrations
APPROVED

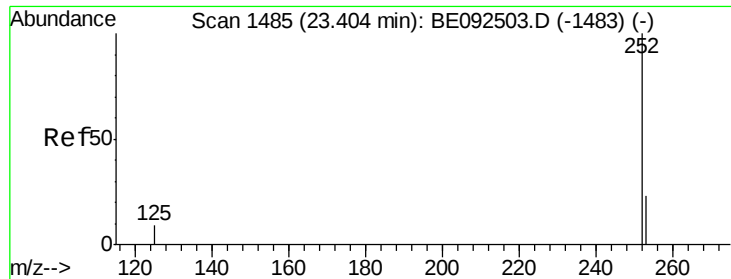
sohil
11/9/2016 4:05:02 PM



#32
Benzo(b)fluoranthene
Concen: 4.46 ng m
RT: 23.35 min Scan# 1479
Delta R.T. -0.01 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.7	28.1
125	10.3	10.5	15.7#





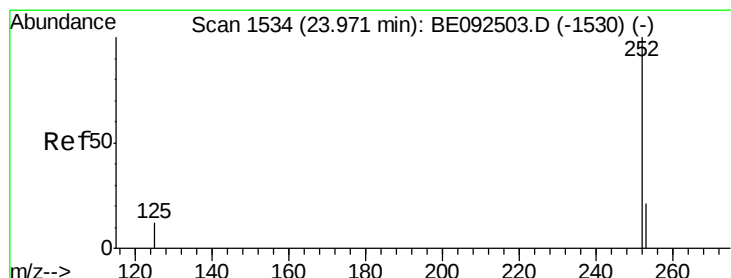
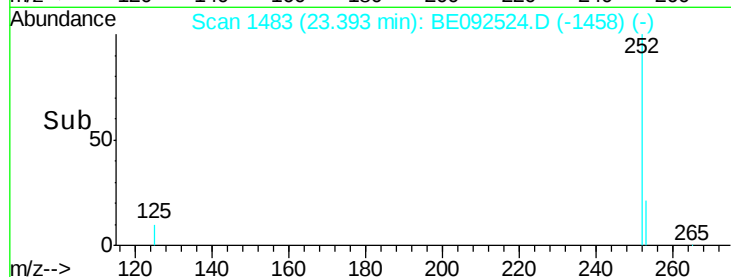
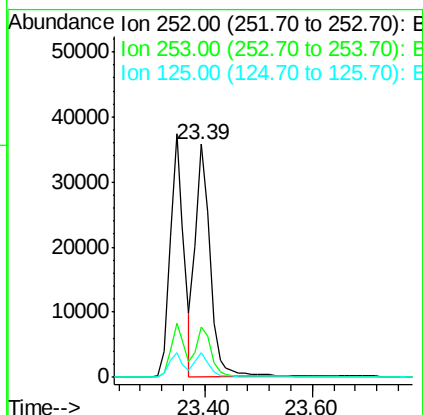
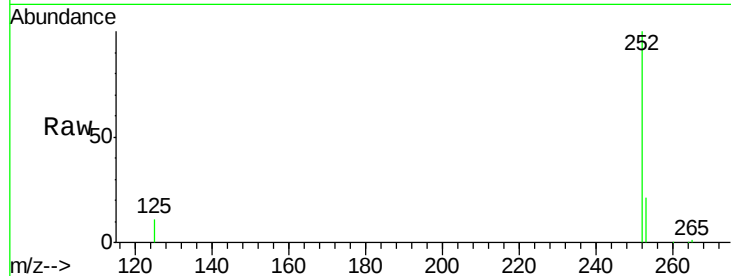
#33
Benzo(k)fluoranthene
Concen: 4.23 ng
RT: 23.39 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampleId :
PB94547BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	20.3	30.5
125	10.6	9.6	14.4

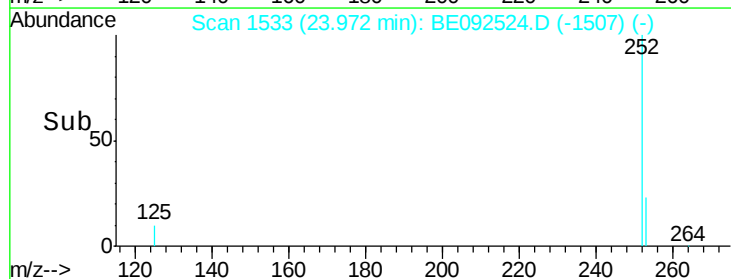
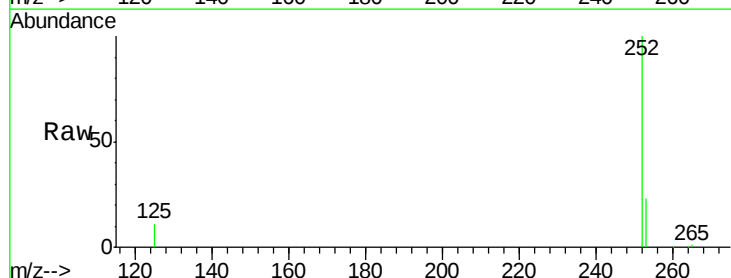
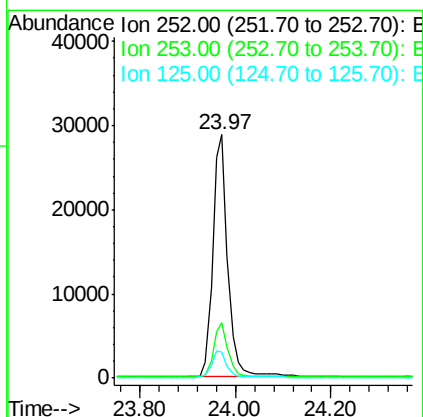
Manual Integrations
APPROVED

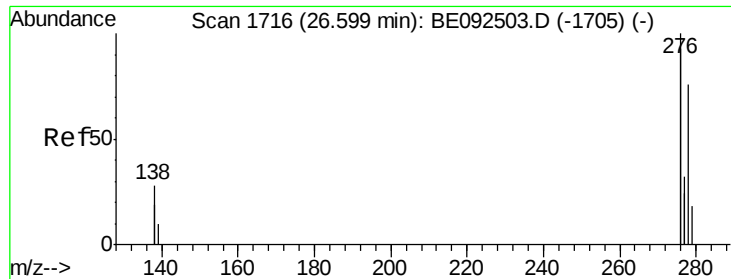
sohil
11/9/2016 4:05:02 PM



#34
Benzo(a)pyrene
Concen: 4.25 ng
RT: 23.97 min Scan# 1533
Delta R.T. 0.00 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.0	28.6
125	10.7	11.8	17.8#





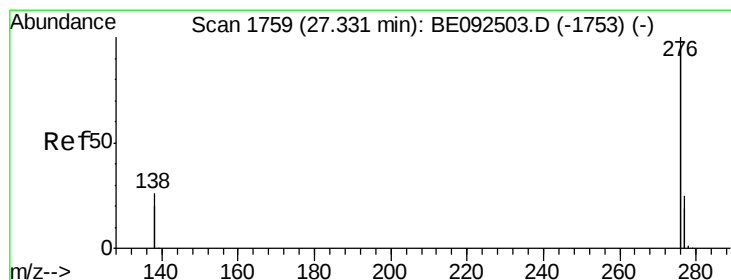
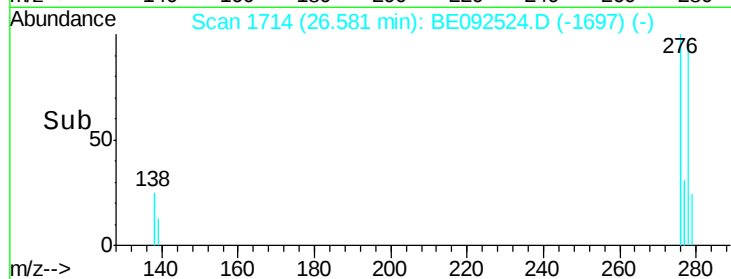
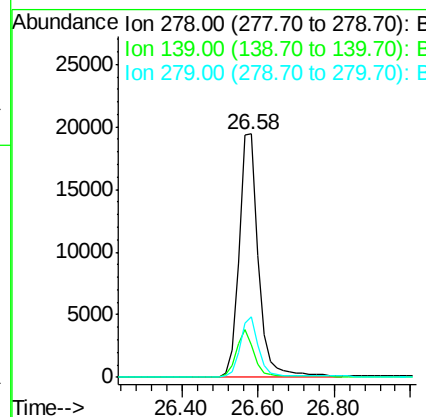
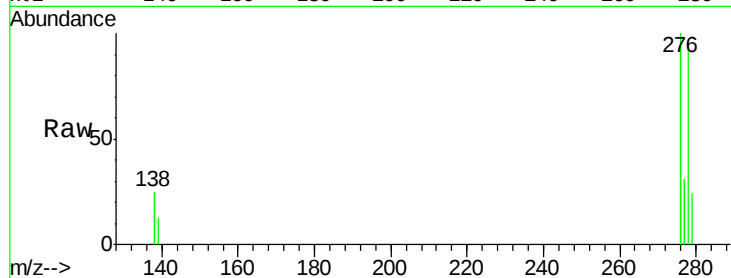
#35
Dibenzo(a,h)anthracene
Concen: 4.85 ng
RT: 26.58 min Scan# 1714
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Instrument :
BNA_E
ClientSampled :
PB94547BS

Tot Ion	Ratio	Lower	Upper
278	100		
139	13.2	13.8	20.8#
279	24.7	21.4	32.2

Manual Integrations
APPROVED

sohil
11/9/2016 4:05:02 PM



#36
Benzo(g,h,i)perylene
Concen: 4.95 ng
RT: 27.31 min Scan# 1757
Delta R.T. -0.02 min
Lab File: BE092524.D
Acq: 9 Nov 2016 14:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.8	29.8
138	22.6	19.8	29.6

