

Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\
 Data File : BE092621.D
 Acq On : 27 Dec 2016 13:41
 Operator : UM/SJ
 Sample : PB95532BSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB95532BSD

Manual Integrations
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sohil
 12/28/2016 9:49:07 AM

Quant Time: Dec 28 01:37:31 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 19 16:16:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	11793	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	53052	5.00	ng	-0.02
12) Acenaphthene-d10	14.80	164	33730	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	62423	5.00	ng	-0.02
24) Chrysene-d12	21.72	240	68070	5.00	ng	0.00
31) Perylene-d12	24.08	264	61312	5.00	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	23003	10.04	ng	-0.03
5) Phenol-d6	7.31	99	34228	9.84	ng	-0.07
8) Nitrobenzene-d5	9.32	82	15376	4.22	ng	-0.05
13) 2,4,6-Tribromophenol	16.28	330	8108	8.32	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	37277	4.62	ng	-0.02
26) Terphenyl-d14	20.16	244	41460	4.97	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.39	88	4787	3.51	ng	Qvalue # 64
3) n-Nitrosodimethylamine	3.73	42	8143	4.16	ng	93
6) bis(2-Chloroethyl)ether	7.57	93	13647	4.04	ng	91
9) Naphthalene	10.97	128	43993	4.04	ng	94
10) Hexachlorobutadiene	11.26	225	6584	3.98	ng	99
11) 2-Methylnaphthalene	12.60	142	30165	4.35	ng	# 85
15) Acenaphthylene	14.51	152	203681	4.38	ng	100
16) Acenaphthene	14.85	154	30999	4.04	ng	93
17) Fluorene	15.83	166	40176	4.26	ng	98
19) Hexachlorobenzene	16.87	284	11612	4.35	ng	# 63
20) Pentachlorophenol	17.21	266	8859	7.32	ng	85
21) Phenanthrene	17.58	178	73117	4.64	ng	# 94
22) Anthracene	17.67	178	67868	4.72	ng	99
23) Fluoranthene	19.58	202	274484	4.04	ng	99
25) Pyrene	19.95	202	275169	4.59	ng	99
27) Benzo(a)anthracene	21.70	228	274412m	4.49	ng	
28) Chrysene	21.75	228	297050m	4.19	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	33987	3.80	ng	# 77
30) Indeno(1,2,3-cd)pyrene	26.55	276	307622	4.81	ng	98
32) Benzo(b)fluoranthene	23.34	252	68632	4.87	ng	95
33) Benzo(k)fluoranthene	23.39	252	61192	3.89	ng	95
34) Benzo(a)pyrene	23.96	252	62661	4.60	ng	# 95
35) Dibenzo(a,h)anthracene	26.56	278	63497	4.91	ng	96
36) Benzo(g,h,i)perylene	27.30	276	265866	4.80	ng	97

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

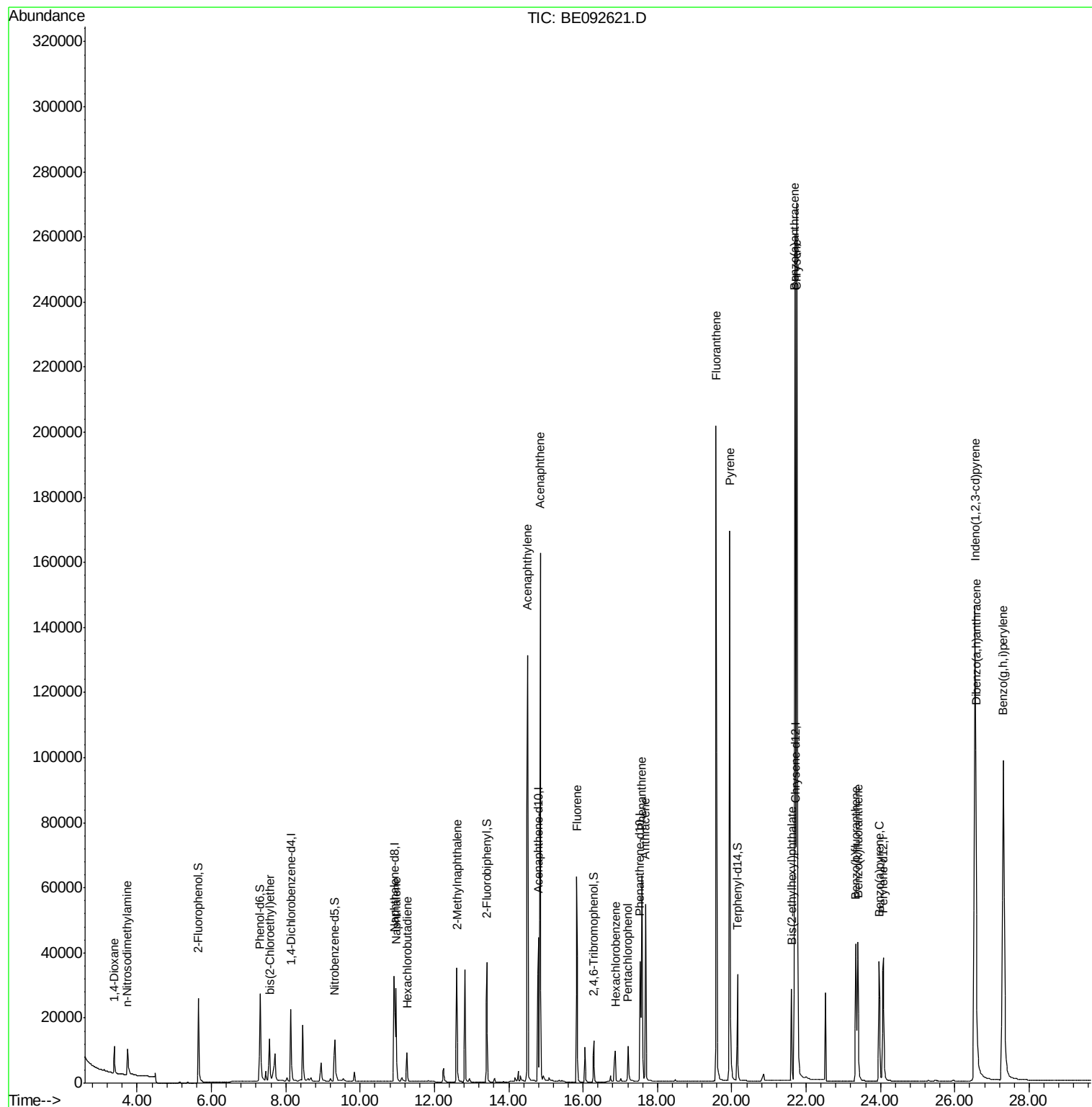
Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\
Data File : BE092621.D
Acq On : 27 Dec 2016 13:41
Operator : UM/SJ
Sample : PB95532BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

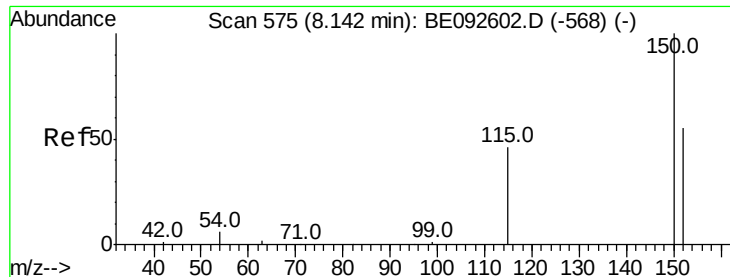
Instrument :
BNA_E
ClientSampleId :
PB95532BSD

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Quant Time: Dec 28 01:37:31 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 16:16:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

ClientSampleId :

PB95532BSD

Tot Ion:152 Resp: 11793

Ion Ratio Lower Upper

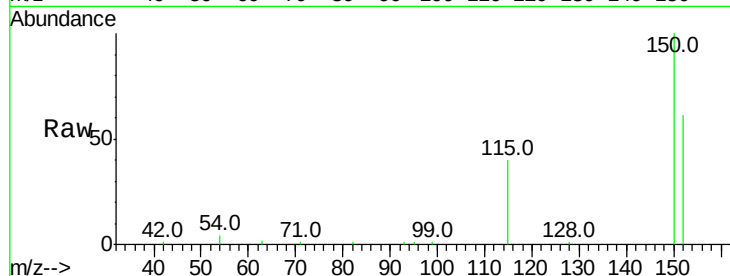
152 100

150 164.0 106.0 159.0#

115 66.2 31.2 46.8#

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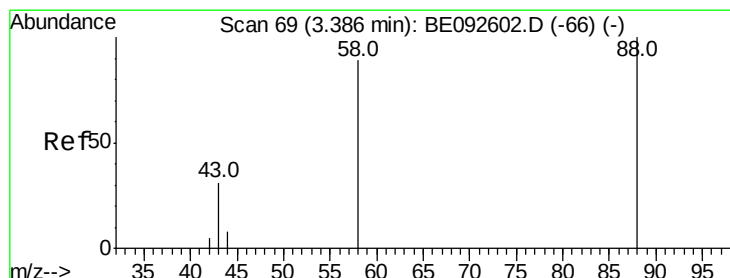
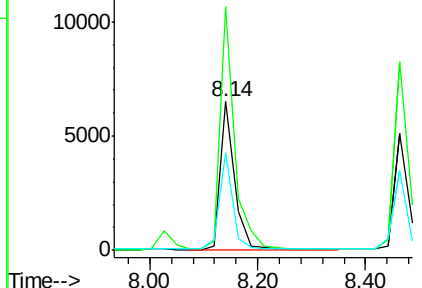
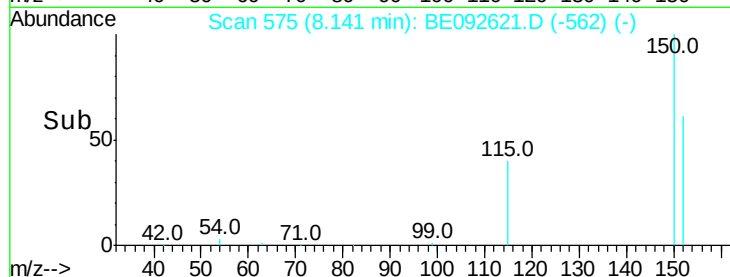
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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 3.51 ng

RT: 3.39 min Scan# 69

Delta R.T. 0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

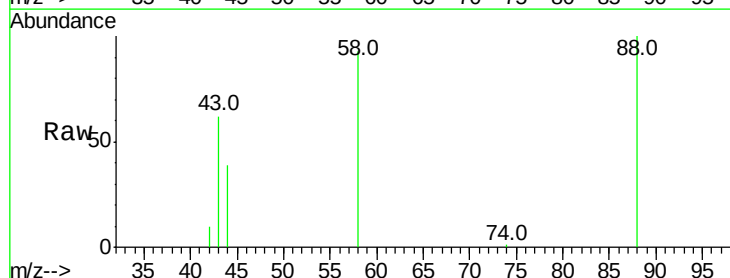
Tgt Ion: 88 Resp: 4787

Ion Ratio Lower Upper

88 100

58 95.3 63.6 95.4

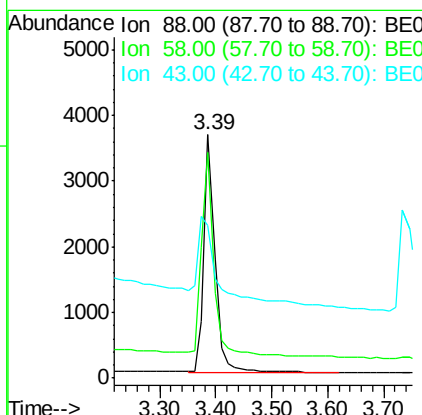
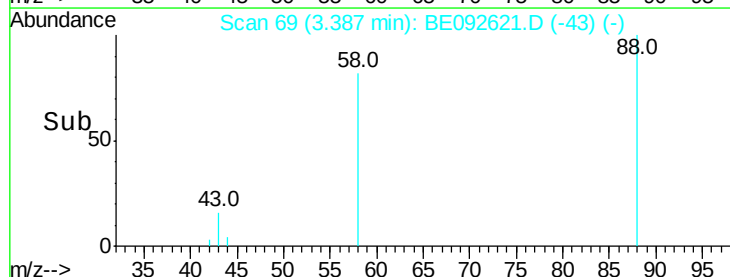
43 80.4 28.0 42.0#

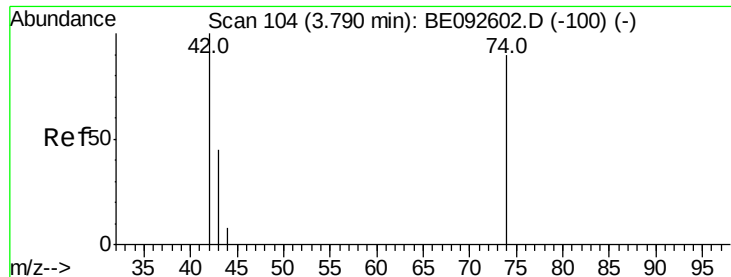


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

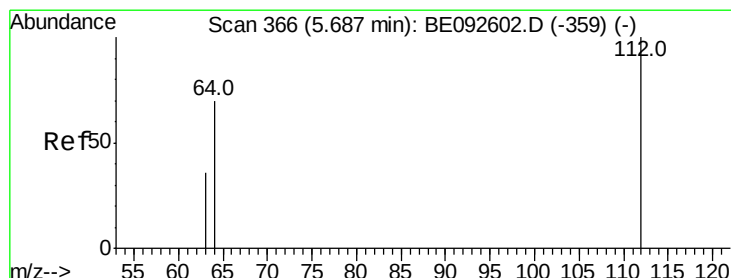
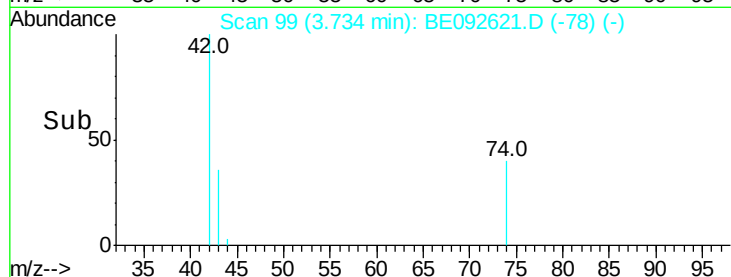
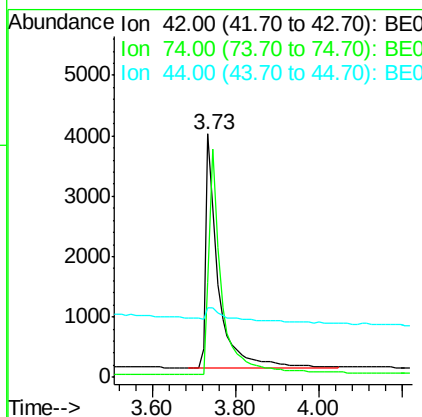
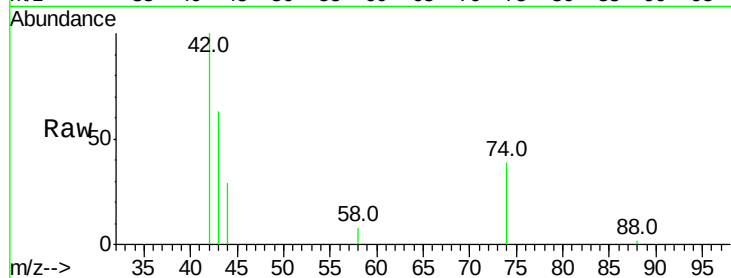
n-Nitrosodimethylamine
Concen: 4.16 ng
RT: 3.73 min Scan# 99
Delta R.T. -0.06 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
42	100		
74	100.2	86.0	129.0
44	7.5	5.1	7.7

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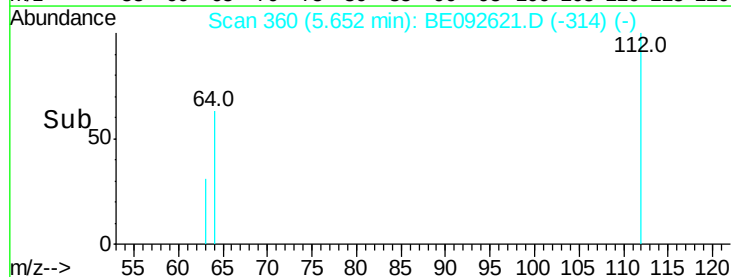
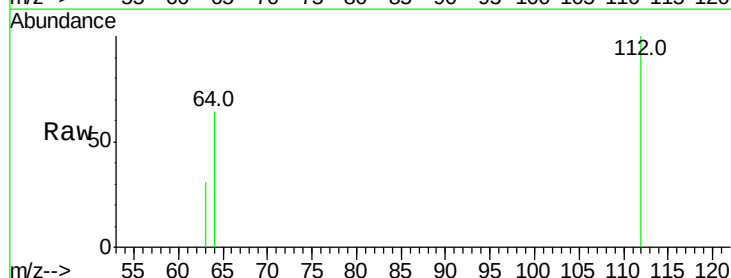
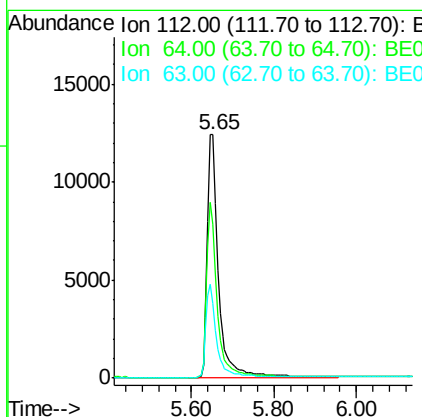
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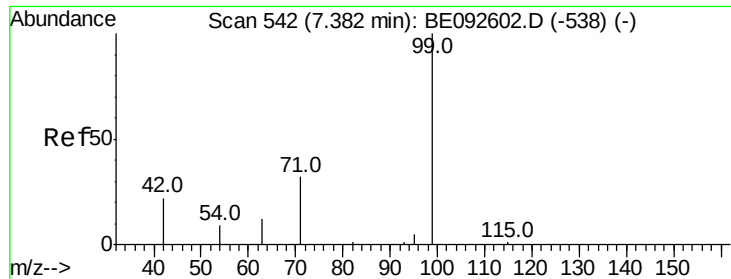


#4

2-Fluorophenol
Concen: 10.04 ng
RT: 5.65 min Scan# 360
Delta R.T. -0.03 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.5	80.3
63	37.0	27.9	41.9





#5

Phenol-d6

Concen: 9.84 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.07 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

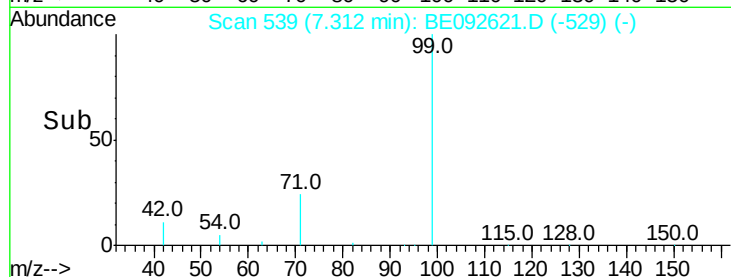
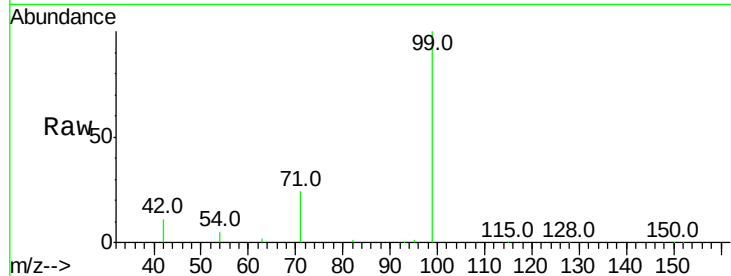
ClientSampleId :

PB95532BSD

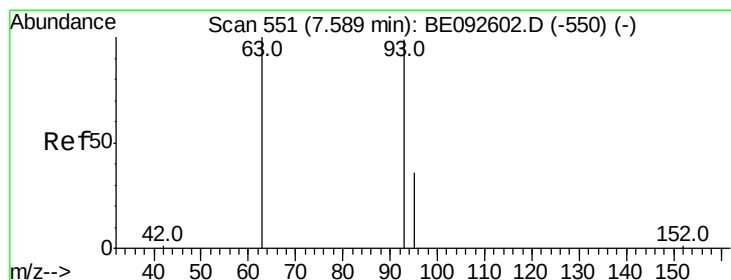
Tot Ion:	99	Resp:	34228
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	31.6	30.6	45.8

Manual Integrations
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#6

bis(2-Chloroethyl)ether

Concen: 4.04 ng

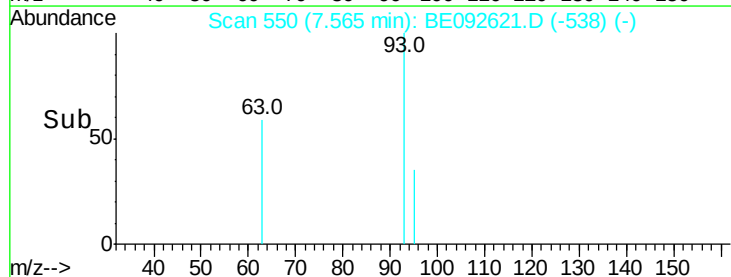
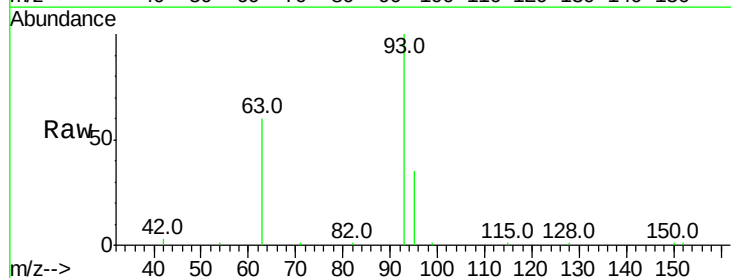
RT: 7.57 min Scan# 550

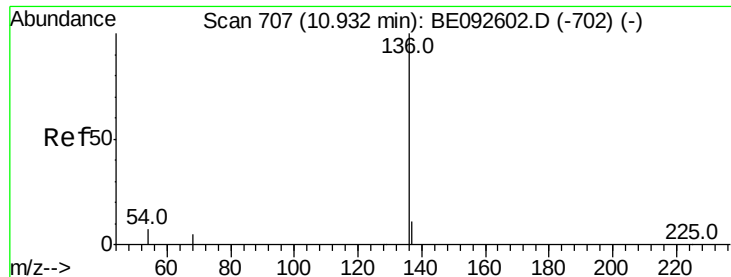
Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion:	93	Resp:	13647
Ion Ratio	Lower	Upper	
93	100		
63	79.6	71.6	107.4
95	32.7	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

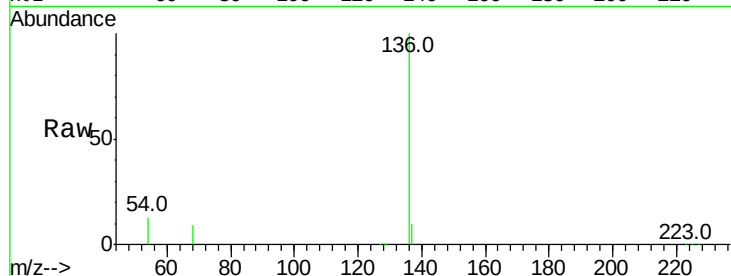
ClientSampleId :

PB95532BSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.2	8.2	12.4	
54	13.3	9.6	14.4	
68	8.8	6.7	10.1	

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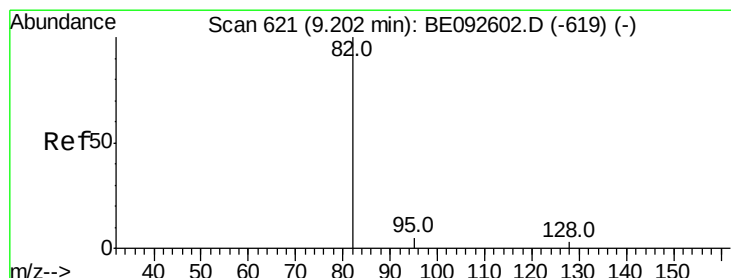
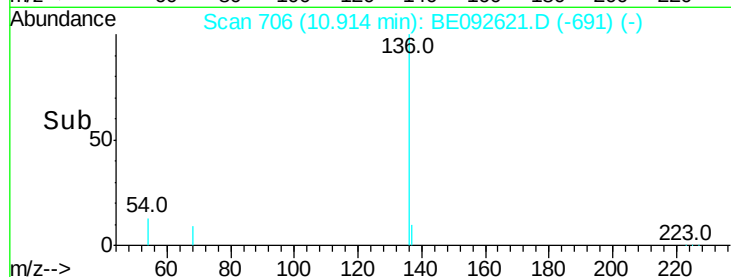
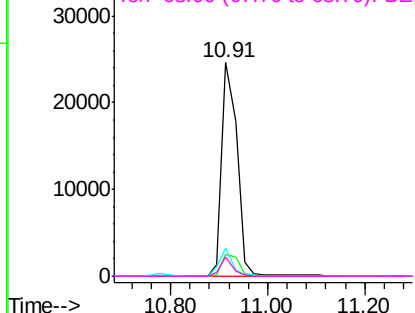


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.22 ng

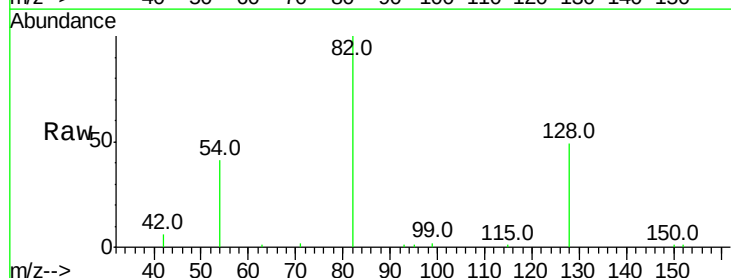
RT: 9.32 min Scan# 626

Delta R.T. -0.05 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

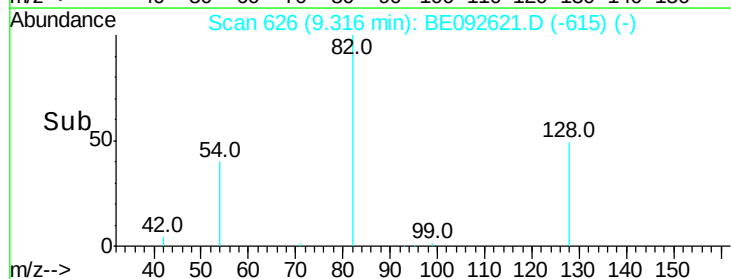
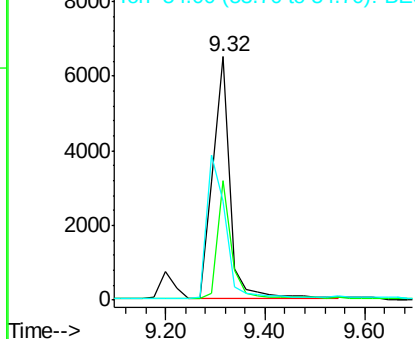
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	49.1	39.0	58.4	
54	40.9	44.8	67.2	

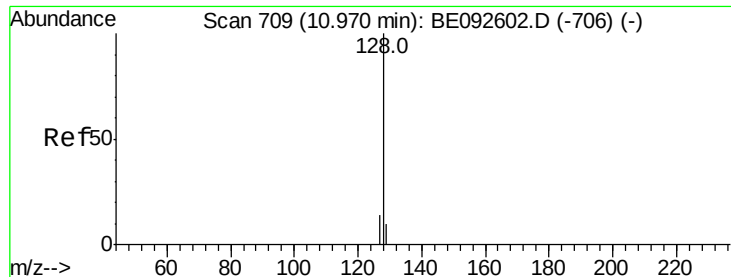


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 4.04 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

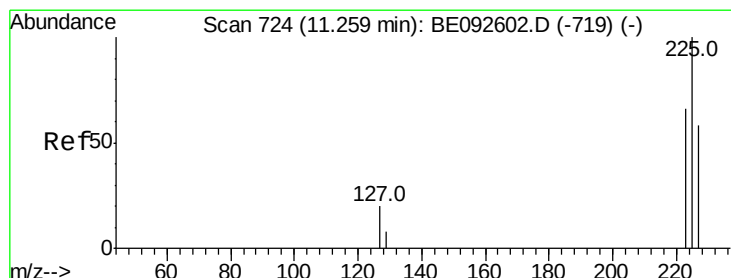
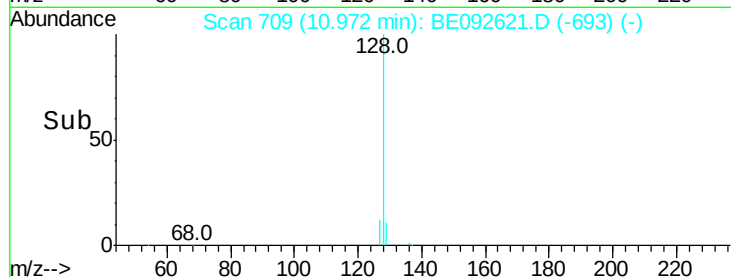
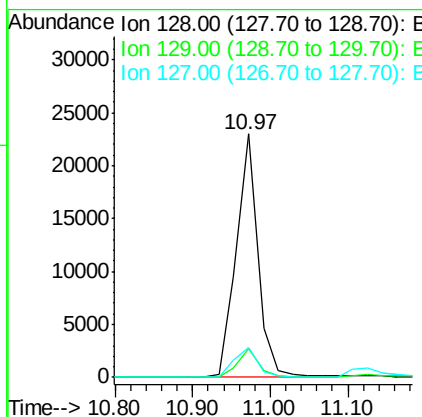
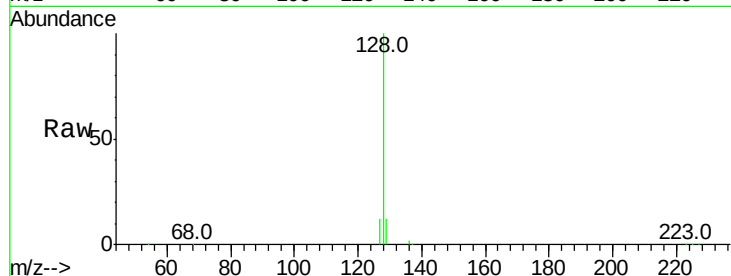
ClientSampleId :

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Tot Ion:	128	Resp:	43993
Ion	Ratio	Lower	Upper
128	100		
129	11.5	11.2	16.8
127	12.2	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 3.98 ng

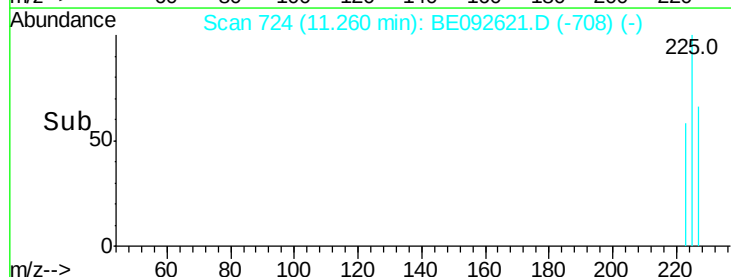
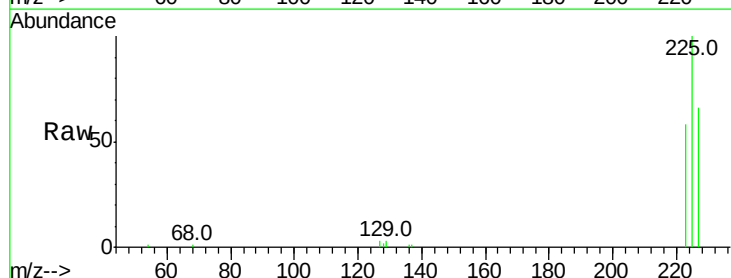
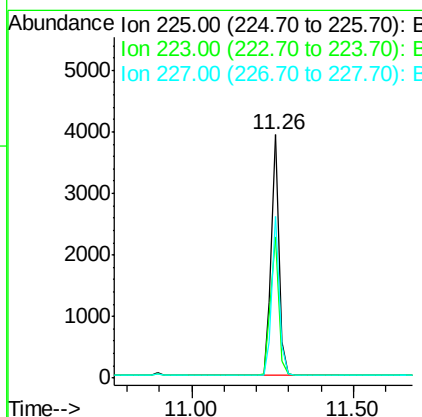
RT: 11.26 min Scan# 724

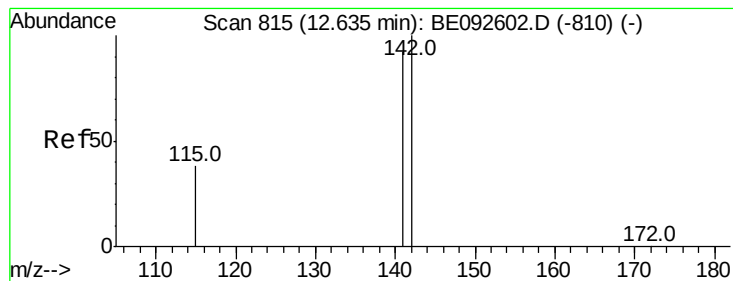
Delta R.T. 0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion:	225	Resp:	6584
Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.6	76.0
227	64.1	51.4	77.0





#11

2-Methylnaphthalene

Concen: 4.35 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

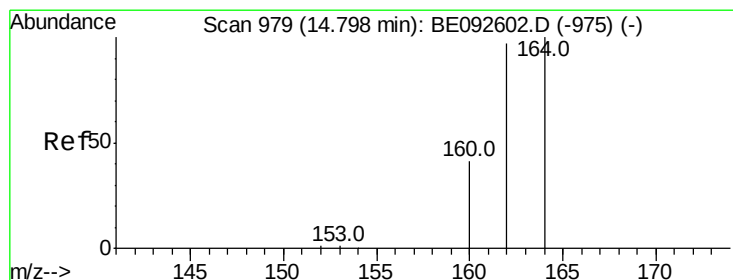
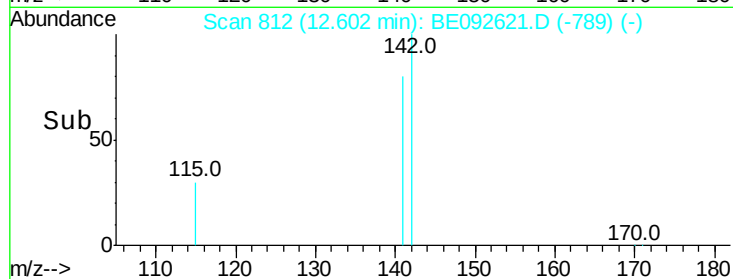
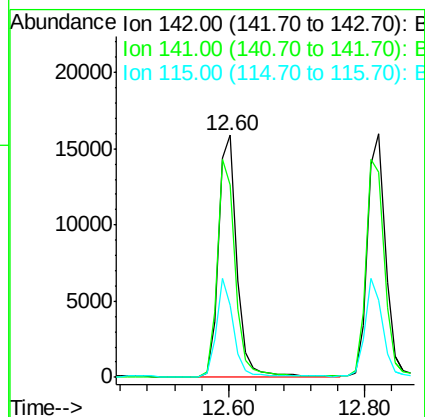
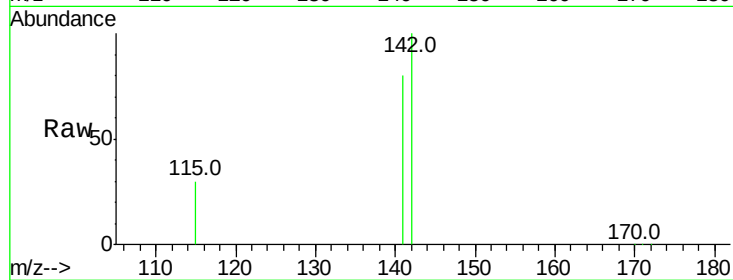
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
142	100		
141	79.7	73.7	110.5
115	29.6	34.0	51.0

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#12

Acenaphthene-d10

Concen: 5.00 ng

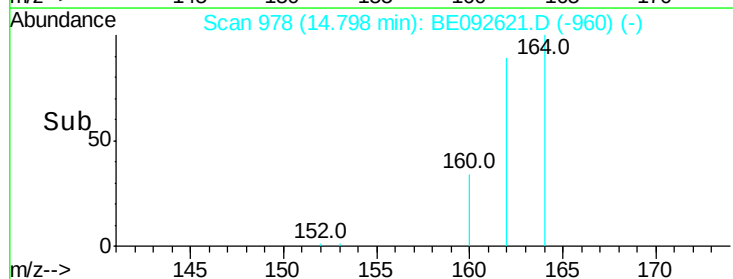
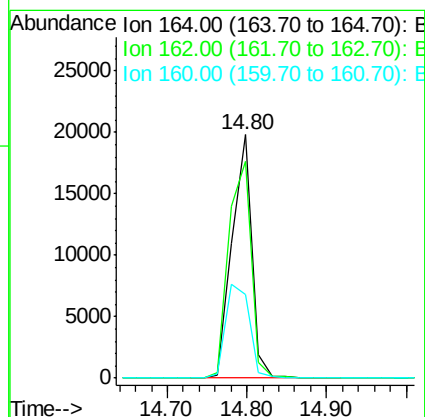
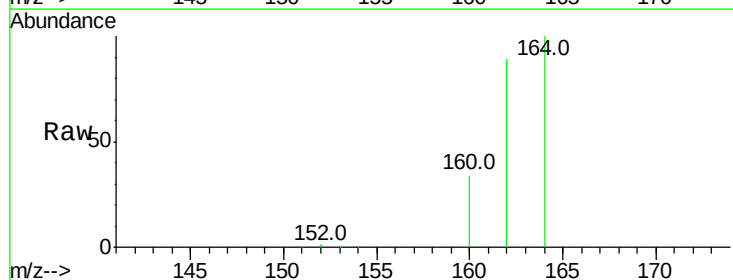
RT: 14.80 min Scan# 978

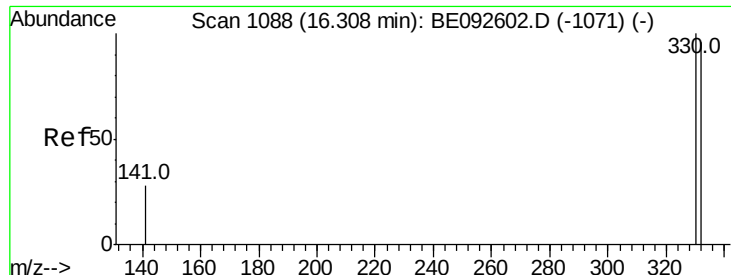
Delta R.T. -0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	89.0	71.4	107.0
160	34.3	27.4	41.2





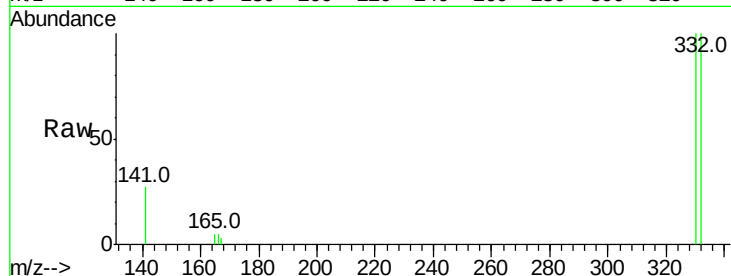
#13
 2,4,6-Tribromophenol
 Concen: 8.32 ng
 RT: 16.28 min Scan# 1085
 Delta R.T. -0.02 min
 Lab File: BE092621.D
 Acq: 27 Dec 2016 13:41

Instrument :
 BNA_E
 ClientSampleId :
 PB95532BSD

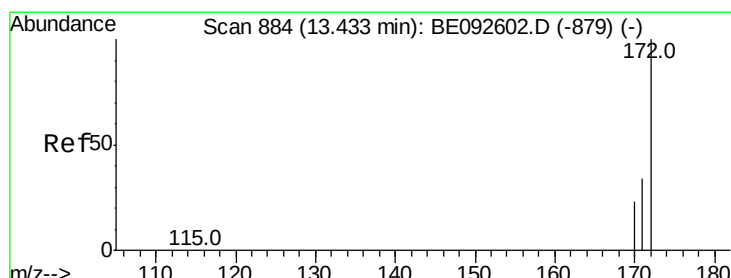
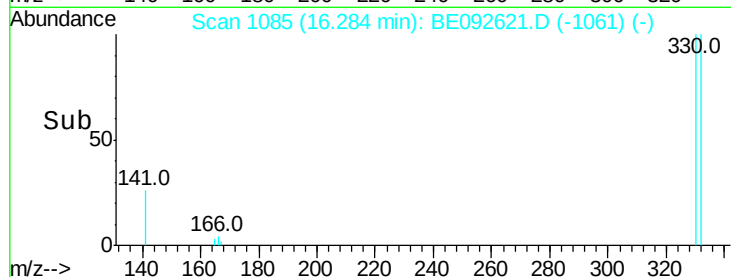
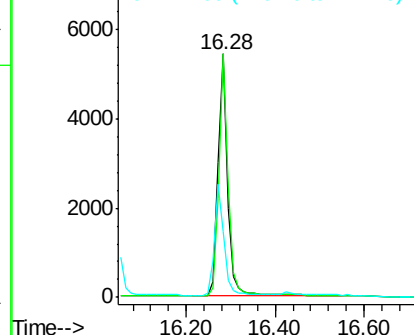
Tot Ion:330 Resp: 8108
 Ion Ratio Lower Upper
 330 100
 332 97.1 75.4 113.0
 141 45.5 31.0 46.6

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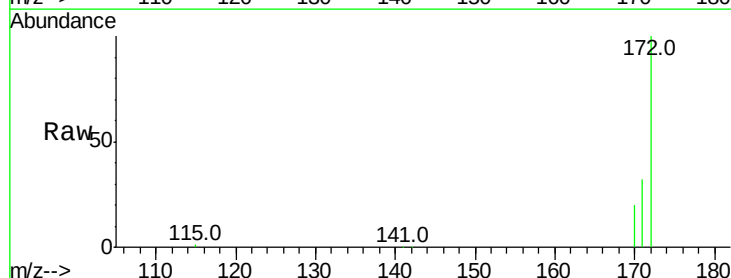


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

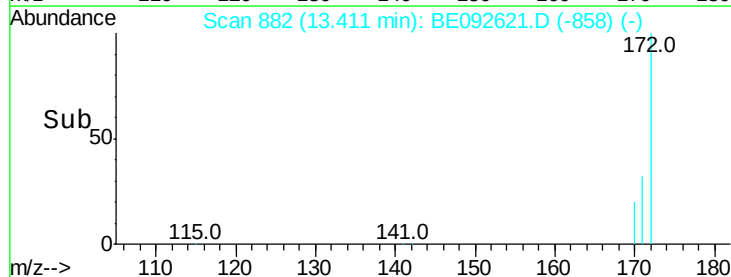
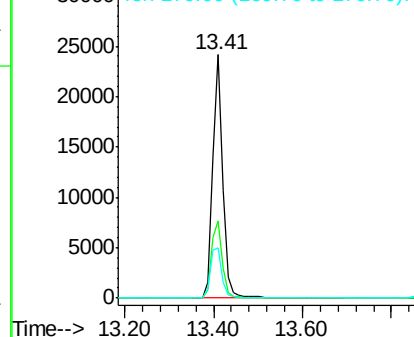


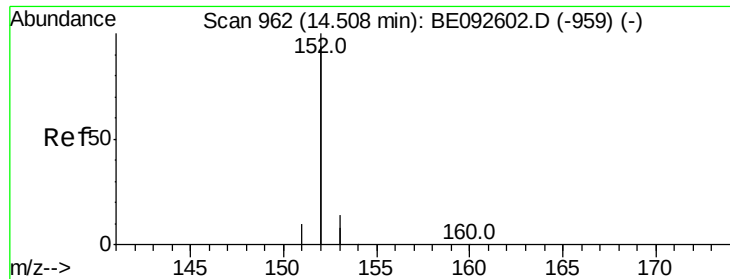
#14
 2-Fluorobiphenyl
 Concen: 4.62 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092621.D
 Acq: 27 Dec 2016 13:41

Tgt Ion:172 Resp: 37277
 Ion Ratio Lower Upper
 172 100
 171 32.0 30.1 45.1
 170 20.5 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





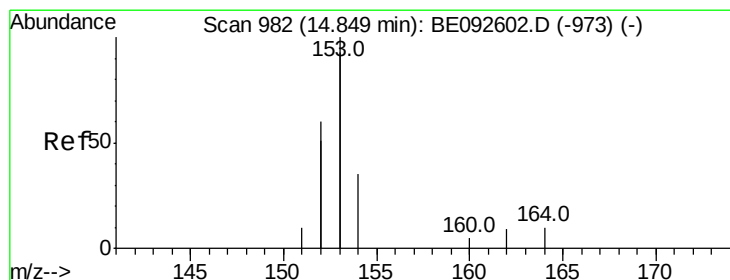
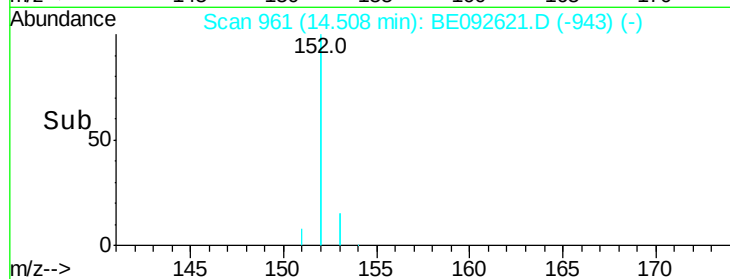
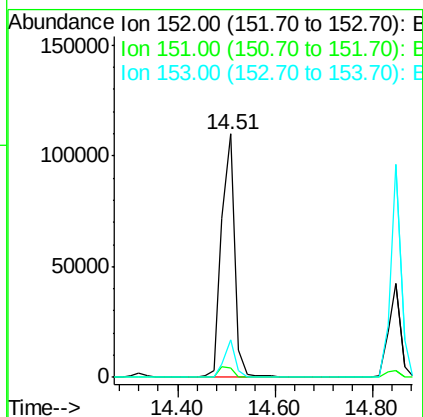
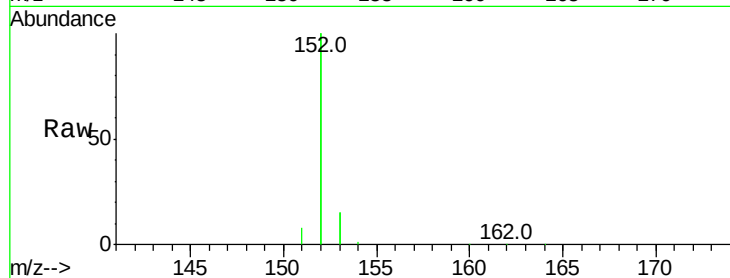
#15
Acenaphthylene
Concen: 4.38 ng
RT: 14.51 min Scan# 961
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

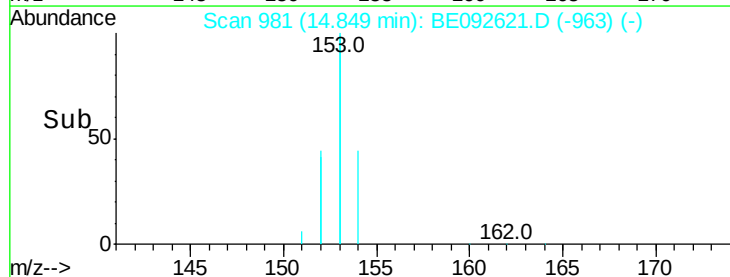
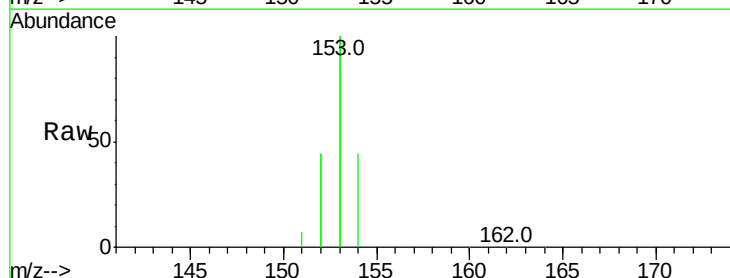
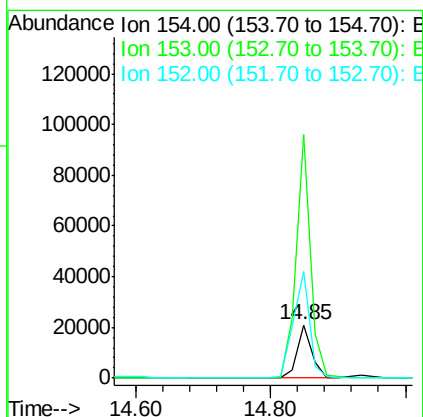
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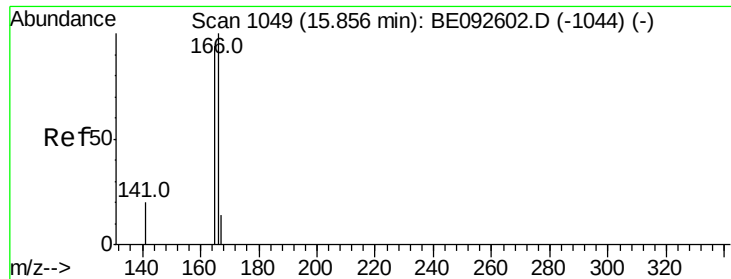
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#16
Acenaphthene
Concen: 4.04 ng
RT: 14.85 min Scan# 981
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	455.2	350.8	526.2
152	224.2	171.1	256.7





#17

Fluorene

Concen: 4.26 ng

RT: 15.83 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

ClientSampleId :

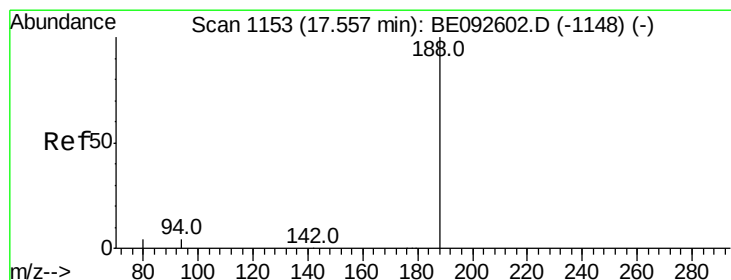
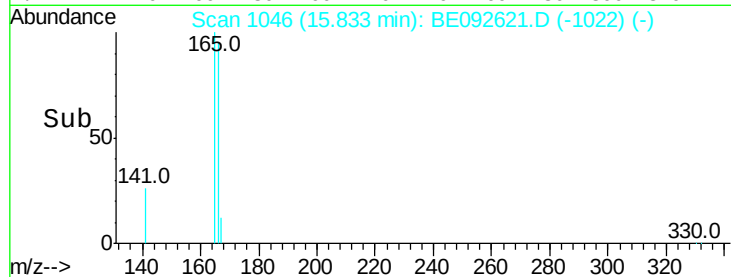
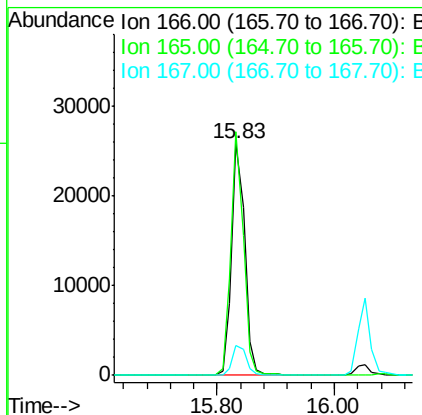
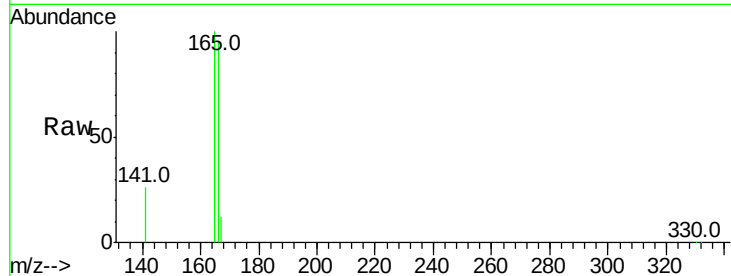
PB95532BSD

Tot Ion:166 Resp: 40176

Ion	Ratio	Lower	Upper
166	100		
165	100.0	78.2	117.4
167	13.4	11.0	16.4

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#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.53 min Scan# 1151

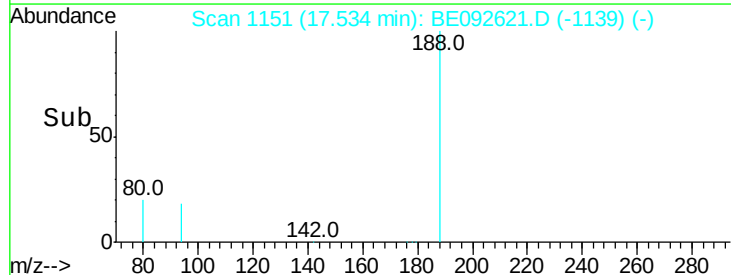
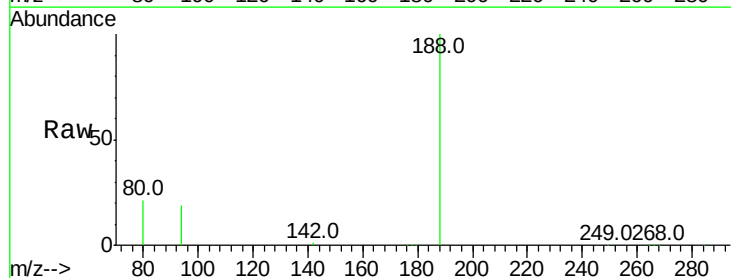
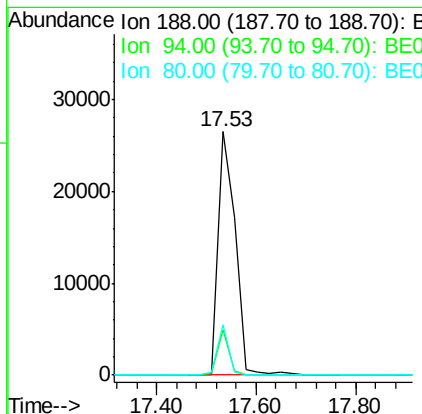
Delta R.T. -0.02 min

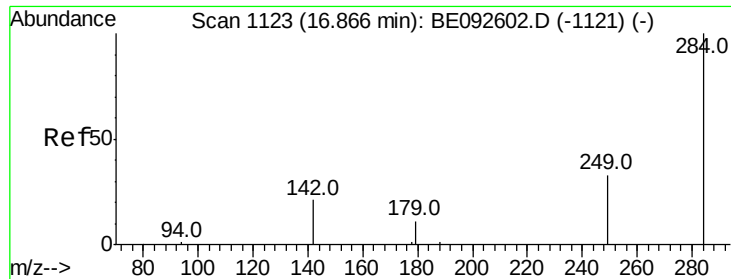
Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion:188 Resp: 62423

Ion	Ratio	Lower	Upper
188	100		
94	18.7	3.2	4.8#
80	20.6	2.6	3.8#





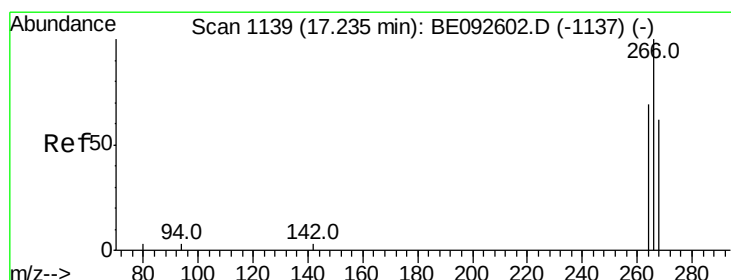
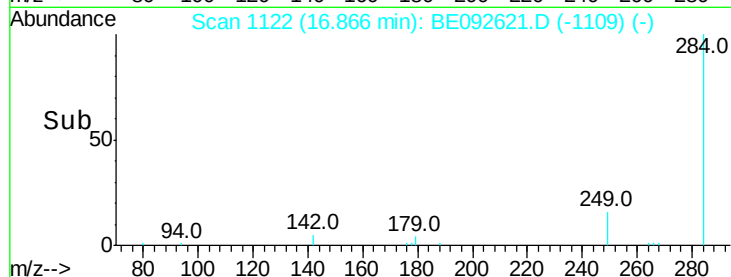
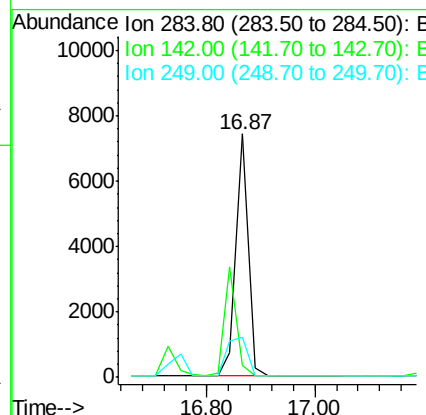
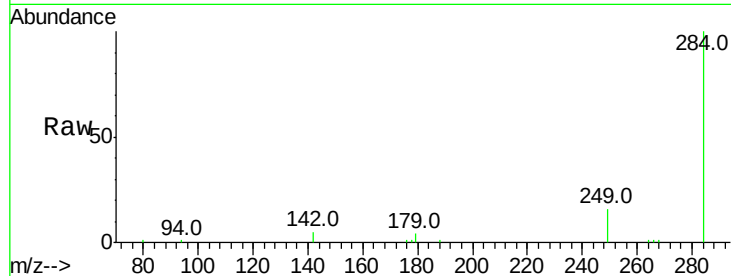
#19
Hexachlorobenzene
Concen: 4.35 ng
RT: 16.87 min Scan# 1122
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion	Ratio	Resp	Lower	Upper
284	100	11612		
142	0.0	29.1	43.7#	
249	28.1	27.9	41.9	

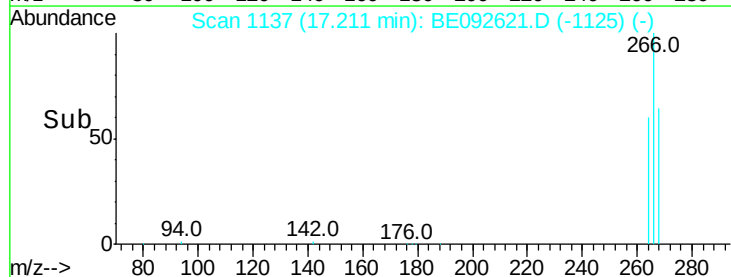
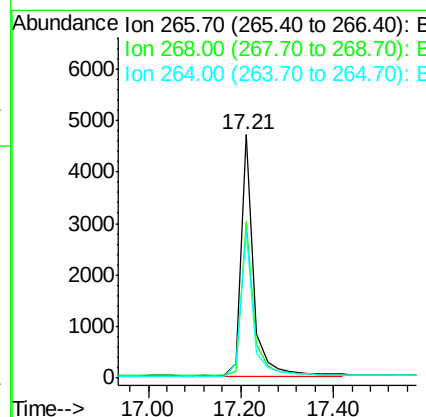
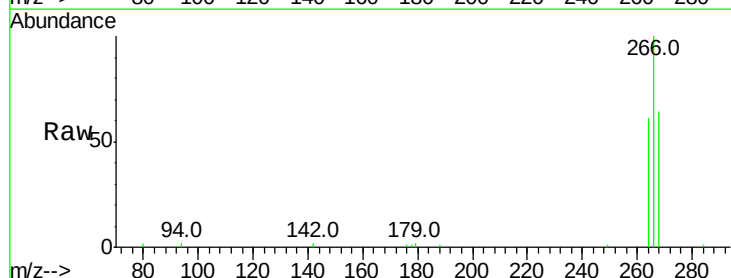
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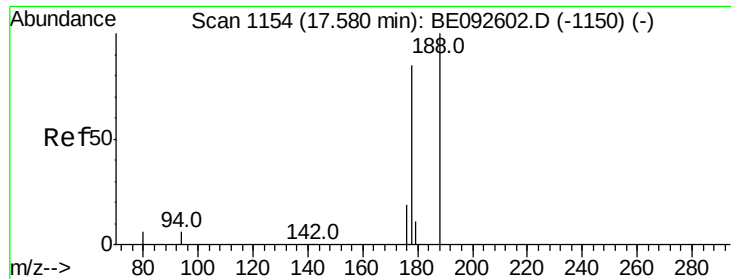
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#20
Pentachlorophenol
Concen: 7.32 ng
RT: 17.21 min Scan# 1137
Delta R.T. -0.02 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	8859		
268	64.2	62.5	93.7	
264	60.6	57.2	85.8	





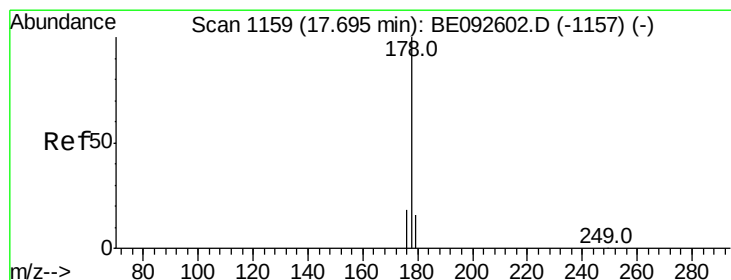
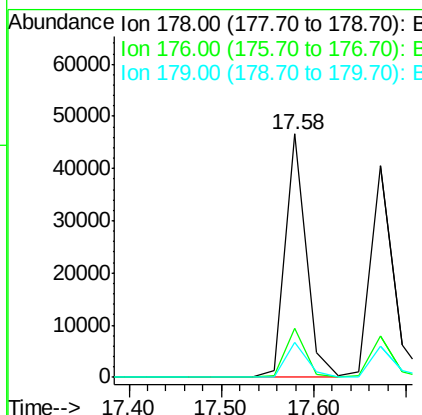
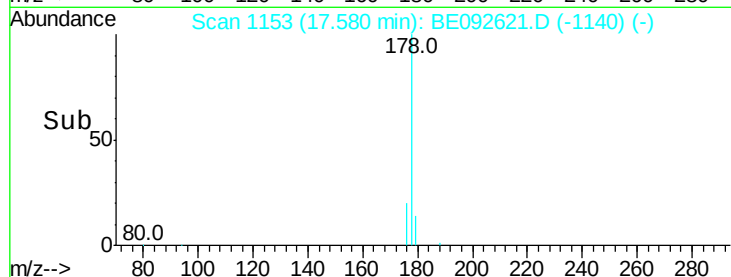
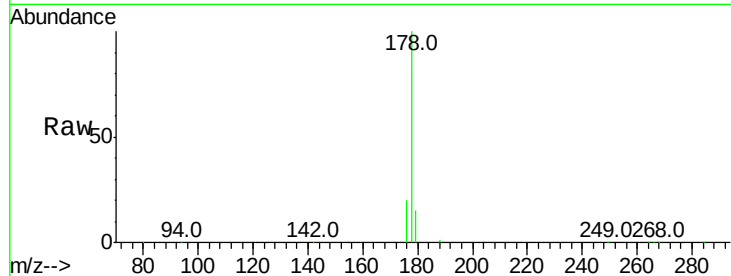
#21
Phenanthrene
Concen: 4.64 ng
RT: 17.58 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion:178 Resp: 73117
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.8
179 15.0 16.0 24.0#

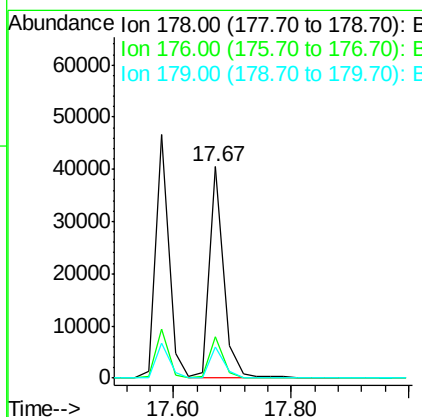
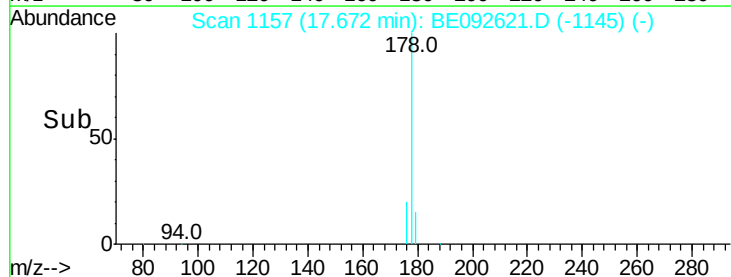
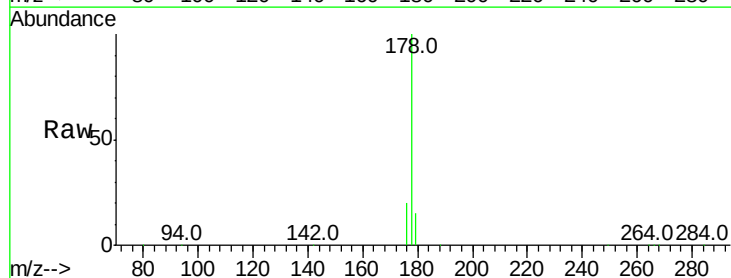
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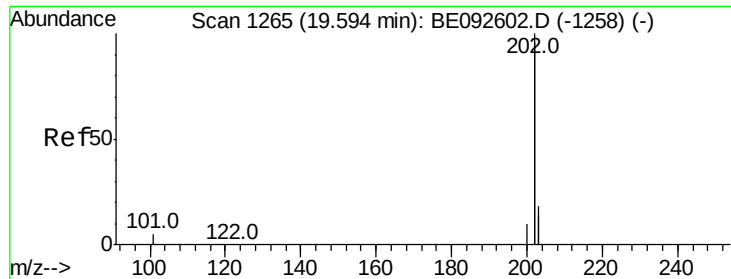
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#22
Anthracene
Concen: 4.72 ng
RT: 17.67 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion:178 Resp: 67868
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.4
179 15.2 12.2 18.2





#23

Fluoranthene

Concen: 4.04 ng

RT: 19.58 min Scan# 1263

Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

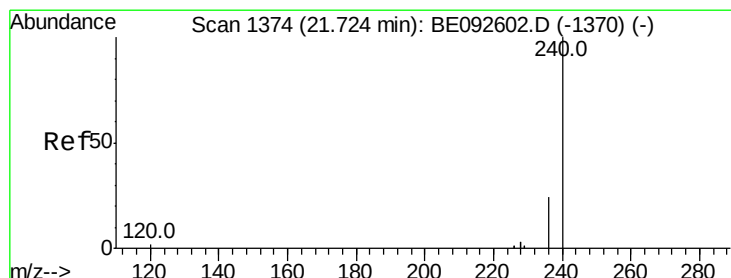
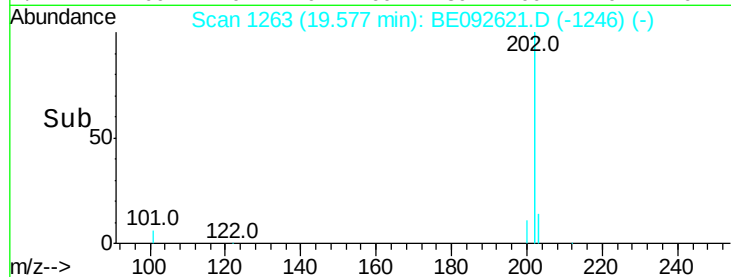
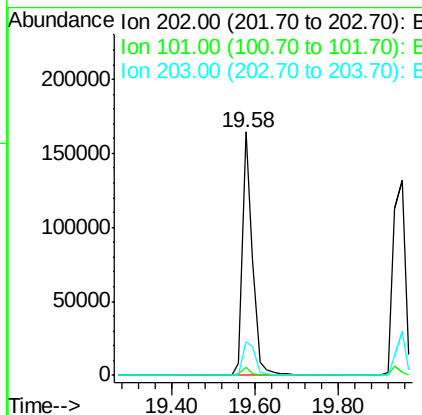
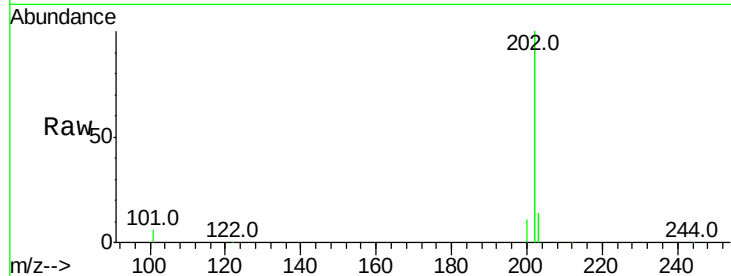
ClientSampleId :

PB95532BSD

Tot Ion:	202	Resp:	274484
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.4
203	17.4	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

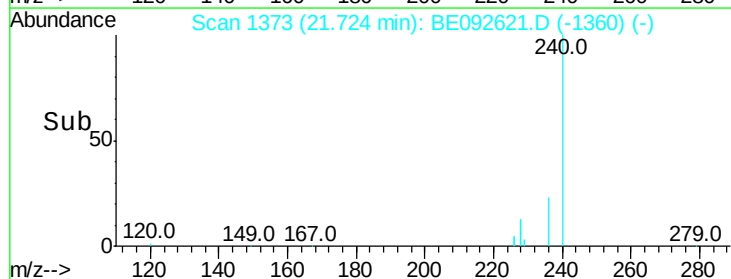
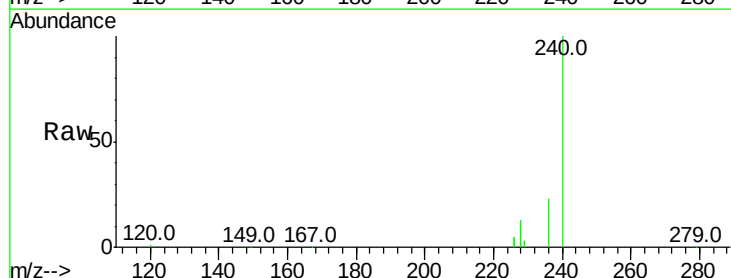
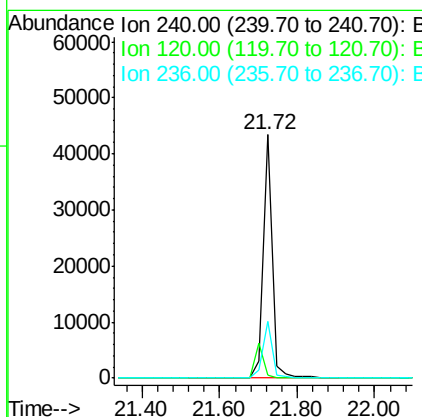
RT: 21.72 min Scan# 1373

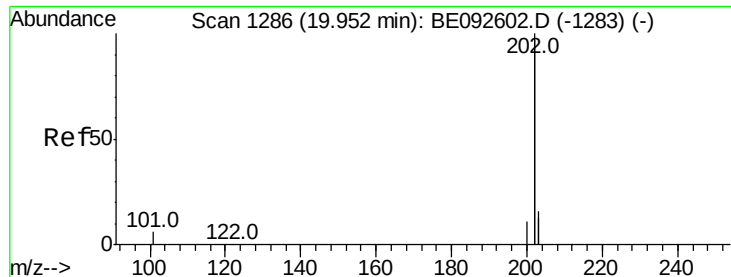
Delta R.T. -0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion:	240	Resp:	68070
Ion Ratio	Lower	Upper	
240	100		
120	1.1	2.6	4.0#
236	23.4	24.6	37.0#





#25

Pvrene

Concen: 4.59 ng

RT: 19.95 min Scan# 1285

Delta R.T. -0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

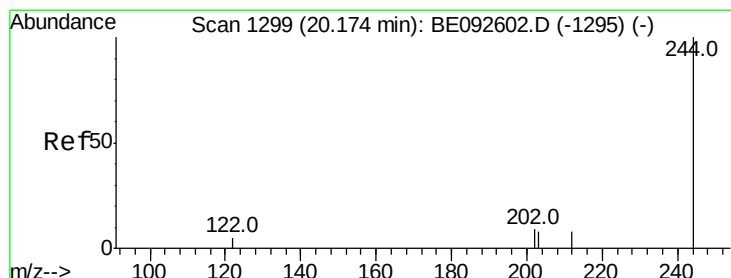
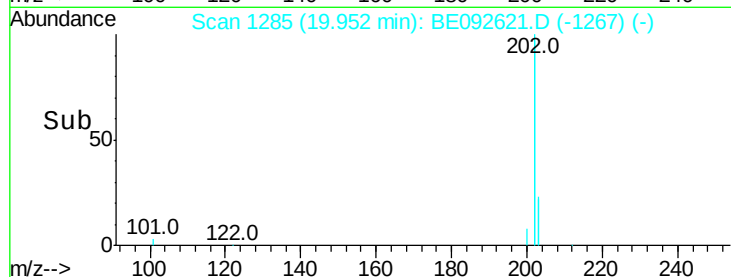
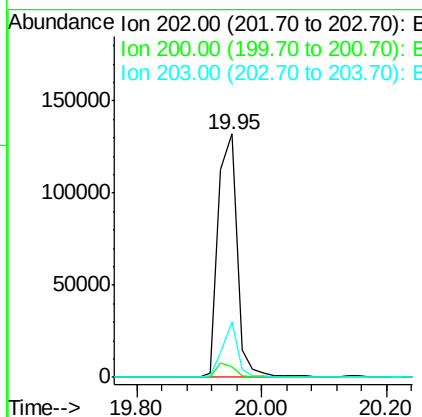
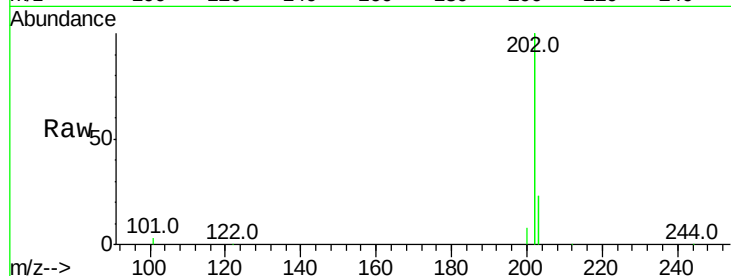
ClientSampleId :

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Tot Ion:	202	Resp:	275169
Ion Ratio	Lower	Upper	
202	100		
200	5.3	4.2	6.4
203	18.2	13.9	20.9

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#26

Terphenyl-d14

Concen: 4.97 ng

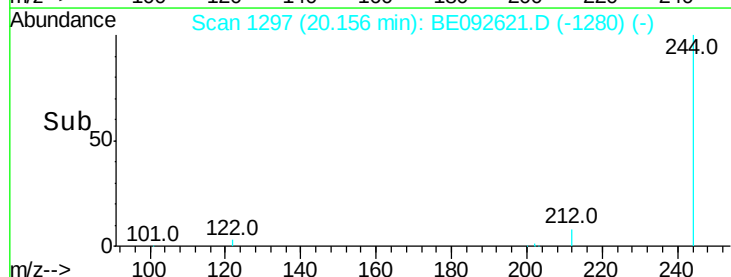
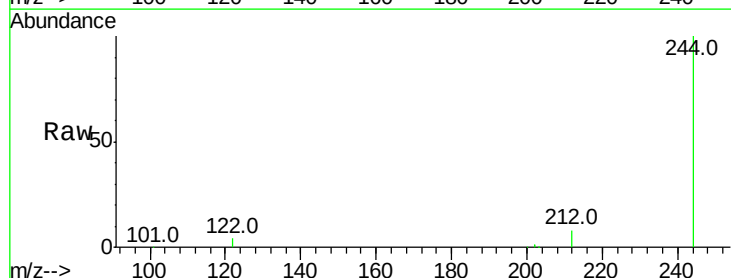
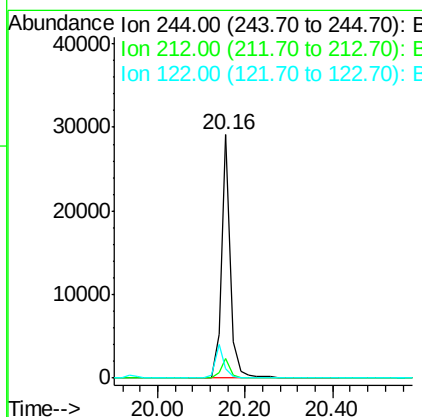
RT: 20.16 min Scan# 1297

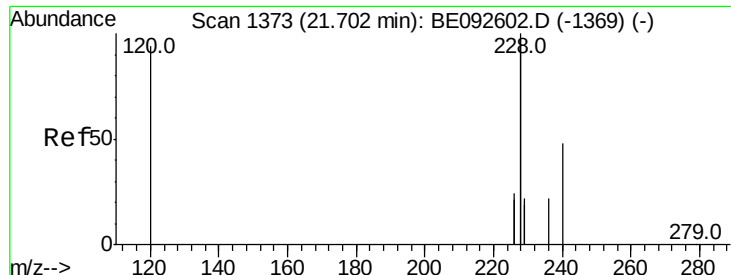
Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion:	244	Resp:	41460
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.7	10.1
122	3.6	3.6	5.4





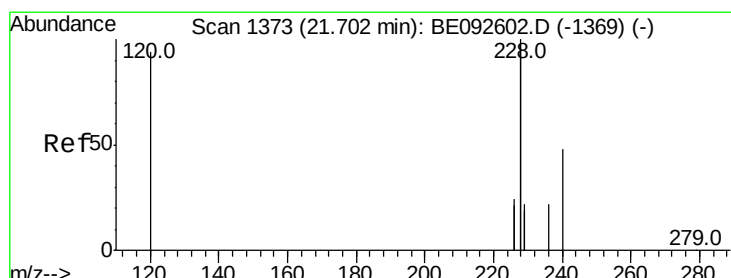
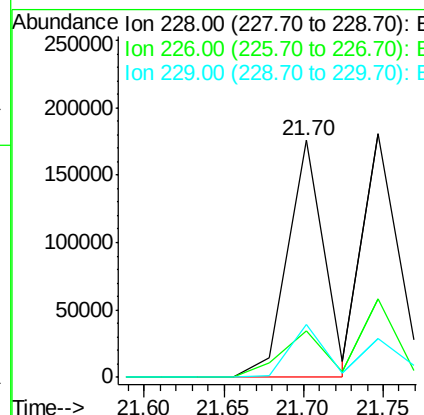
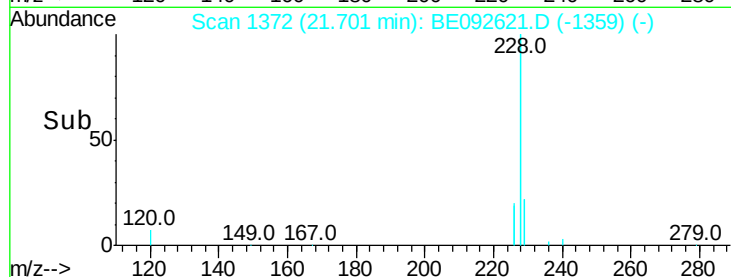
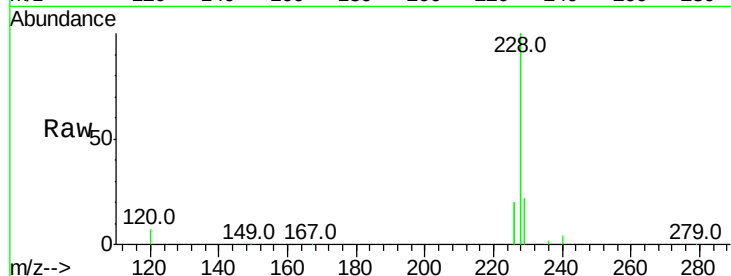
#27
Benzo(a)anthracene
Concen: 4.49 ng m
RT: 21.70 min Scan# 1372
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleID :
PB95532BSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	19.7	23.6	35.4#
229	22.3	13.3	19.9#

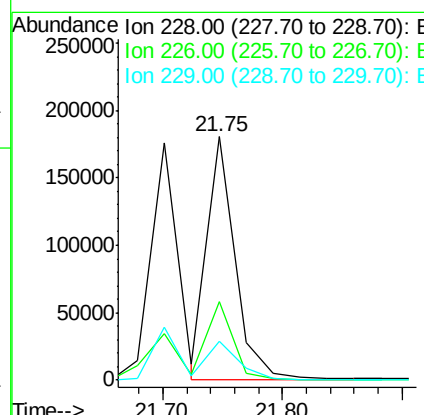
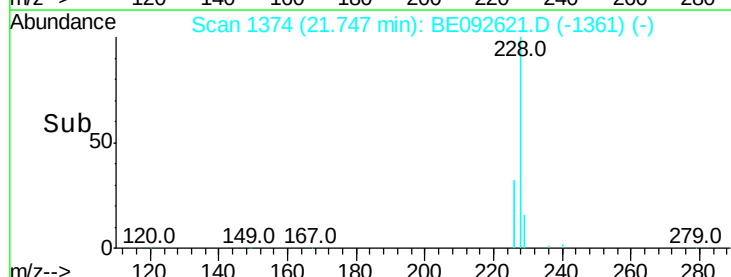
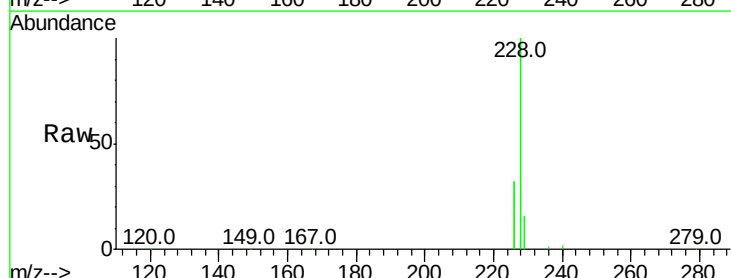
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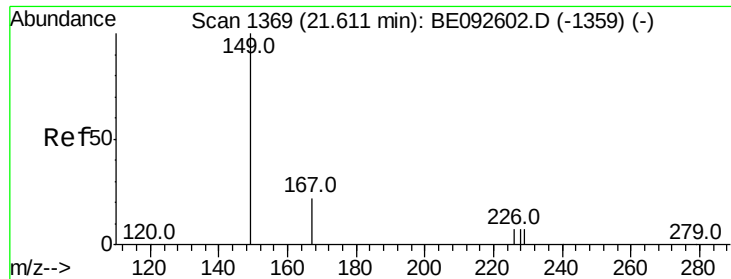
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#28
Chrysene
Concen: 4.19 ng m
RT: 21.75 min Scan# 1374
Delta R.T. -0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.3	36.3	54.5#
229	15.8	10.6	16.0





#29

Bis(2-ethylhexyl)phthalate

Concen: 3.80 ng

RT: 21.61 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Instrument :

BNA_E

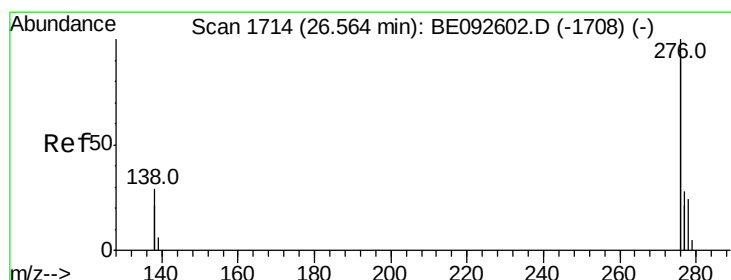
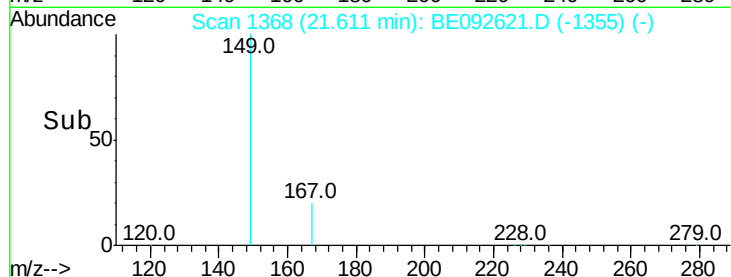
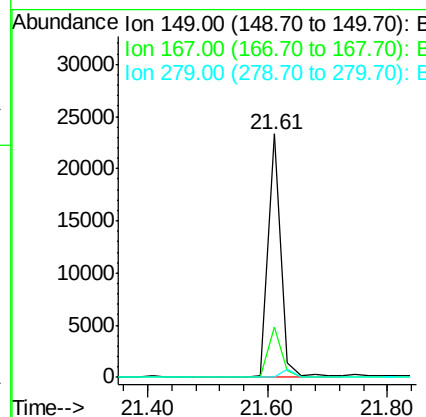
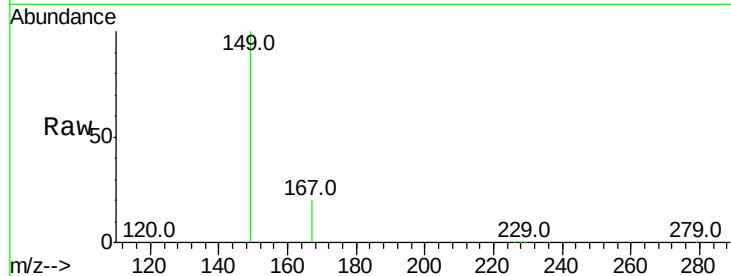
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
149	100		
167	21.5	16.0	24.0
279	0.0	16.0	24.0

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#30

Indeno(1,2,3-cd)pyrene

Concen: 4.81 ng

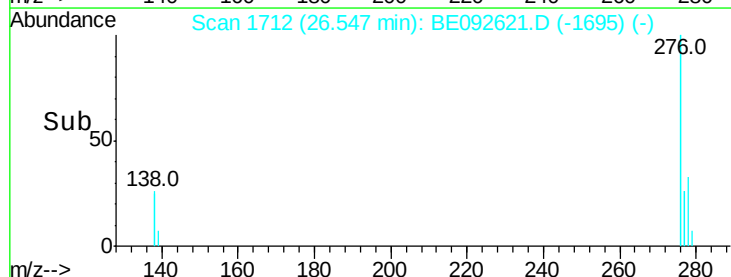
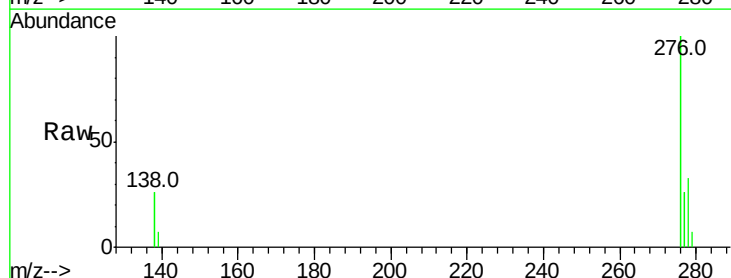
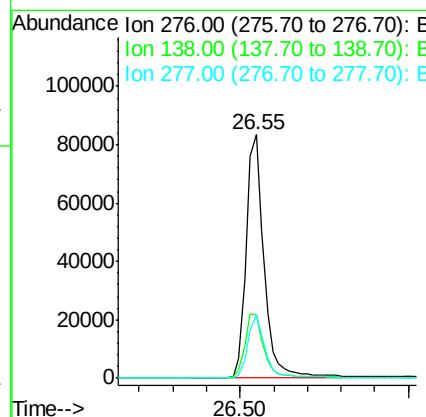
RT: 26.55 min Scan# 1712

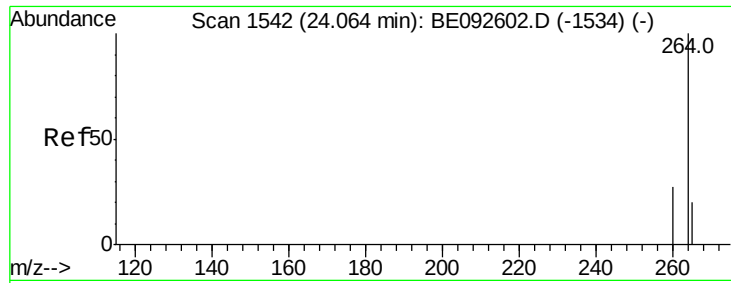
Delta R.T. -0.02 min

Lab File: BE092621.D

Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.7	20.3	30.5
277	24.7	19.7	29.5





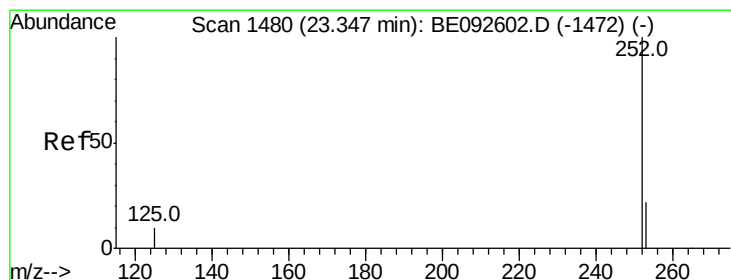
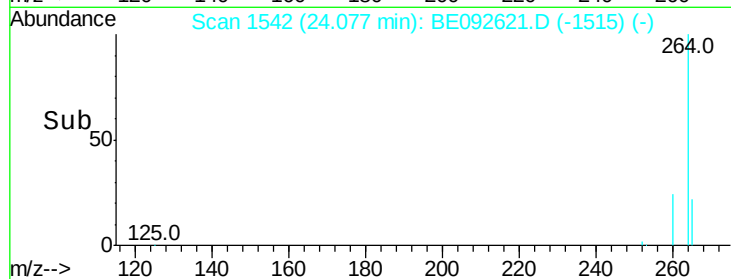
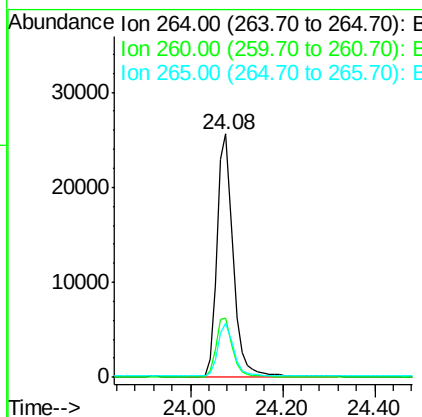
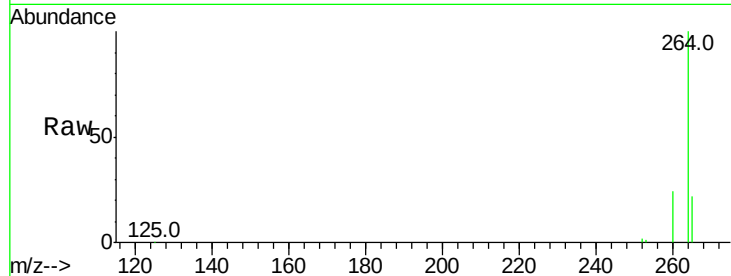
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.08 min Scan# 1542
Delta R.T. 0.01 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.1	30.1
265	22.2	17.9	26.9

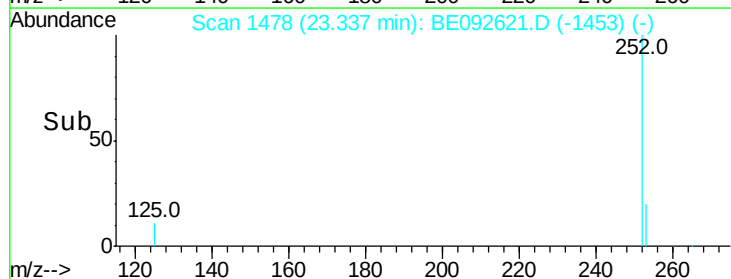
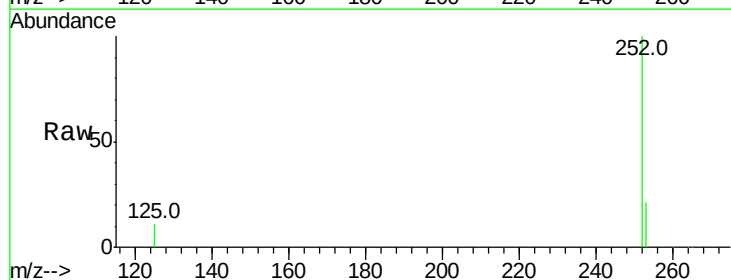
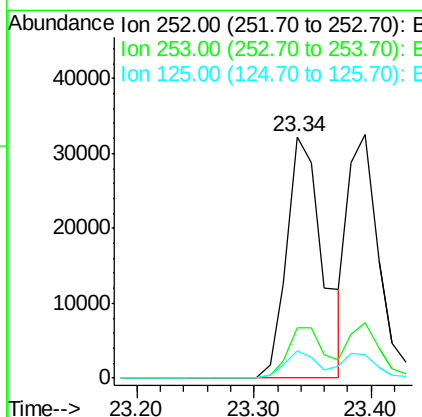
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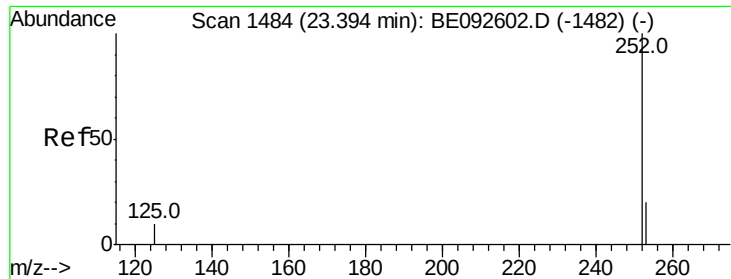
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#32
Benzo(b)fluoranthene
Concen: 4.87 ng
RT: 23.34 min Scan# 1478
Delta R.T. -0.01 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.7	18.7	28.1
125	11.1	10.5	15.7





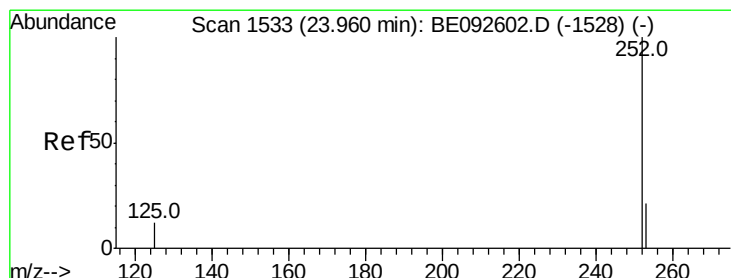
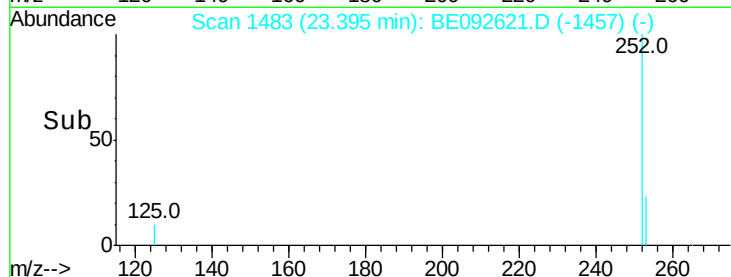
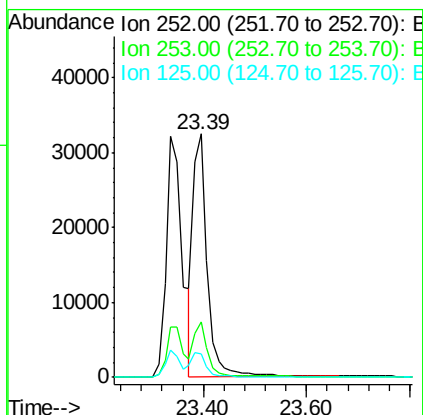
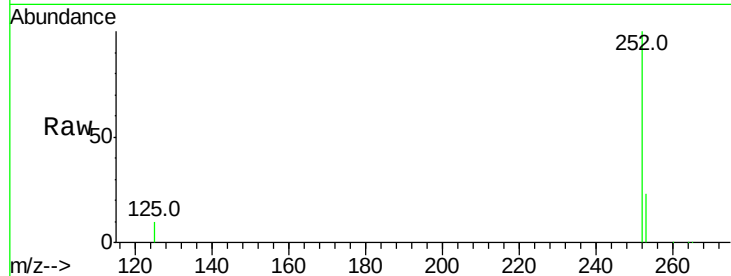
#33
Benzo(k)fluoranthene
Concen: 3.89 ng
RT: 23.39 min Scan# 1483
Delta R.T. 0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	20.3	30.5
125	9.9	9.6	14.4

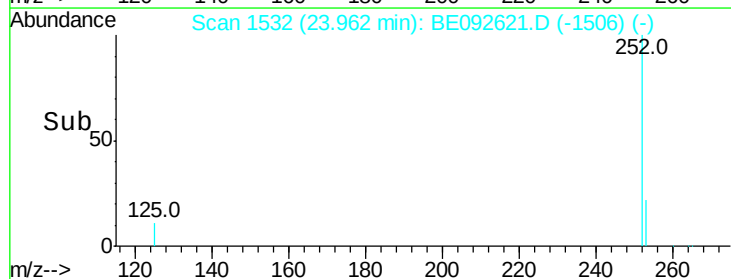
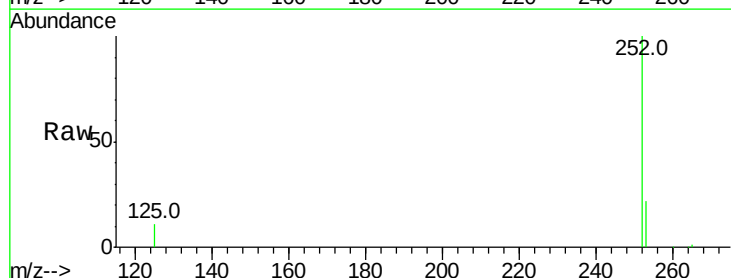
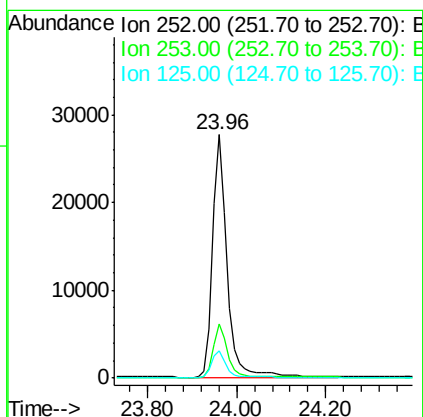
Manual Integrations
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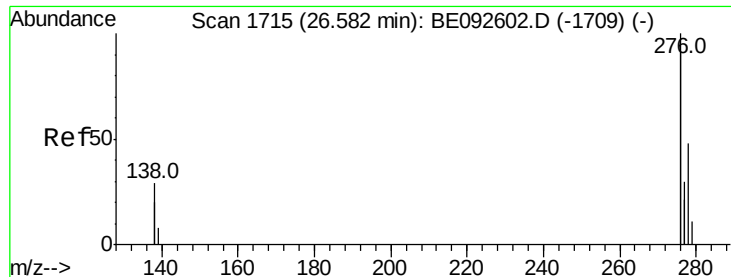
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#34
Benzo(a)pyrene
Concen: 4.60 ng
RT: 23.96 min Scan# 1532
Delta R.T. 0.00 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.0	28.6
125	11.5	11.8	17.8





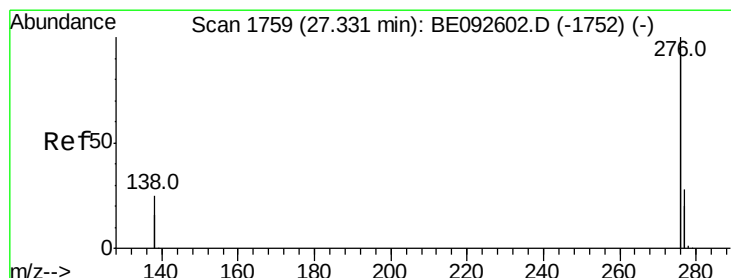
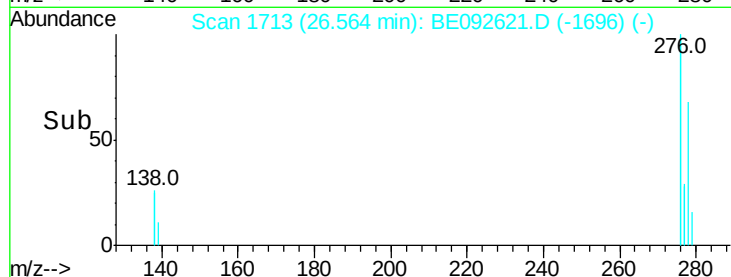
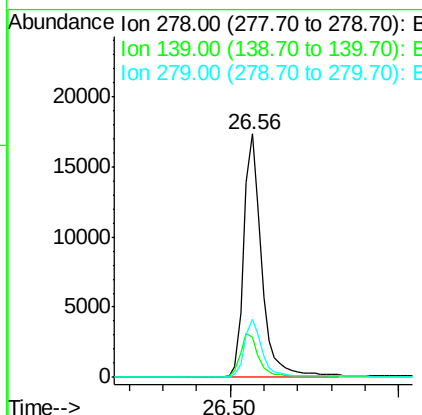
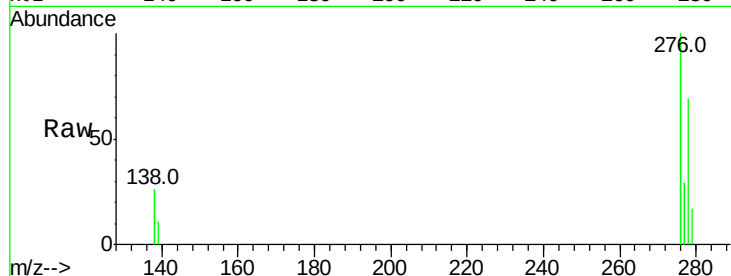
#35
Dibenzo(a,h)anthracene
Concen: 4.91 ng
RT: 26.56 min Scan# 1713
Delta R.T. -0.02 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Instrument :
BNA_E
ClientSampleId :
PB95532BSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.8	20.8
279	24.0	21.4	32.2

Manual Integrations
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#36
Benzo(g,h,i)perylene
Concen: 4.80 ng
RT: 27.30 min Scan# 1756
Delta R.T. -0.03 min
Lab File: BE092621.D
Acq: 27 Dec 2016 13:41

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.2	19.8	29.8
138	24.9	19.8	29.6

