

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089629.D
 Acq On : 18 Feb 2015 22:48
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-S

Manual Integrations
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Quant Time: Feb 19 05:09:38 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	40195	5.00	ng	0.00
4) Naphthalene-d8	12.25	136	159161	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	77324	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	152843	5.00	ng	0.00
19) Chrysene-d12	23.66	240	140802	5.00	ng	0.00
25) Perylene-d12	25.34	264	112079	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	74190	10.72	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	193958	9.36	ng	0.00
21) Terphenyl-d14	22.31	244	232865	11.50	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.74	88	293	0.06	ng	# 85
6) Naphthalene	12.29	128	2309	0.06	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1247	0.06	ng	98
10) Acenaphthylene	16.07	152	6591	0.05	ng	99
11) Acenaphthene	16.50	154	1253	0.06	ng	91
12) Fluorene	17.74	166	1357	0.06	ng	# 98
14) Hexachlorobenzene	19.00	284	436	0.07	ng	91
15) Pentachlorophenol	19.45	266	28	Below Cal		# 62
16) Phenanthrene	19.82	178	2378	0.06	ng	99
17) Anthracene	19.91	178	1692	0.05	ng	99
18) Fluoranthene	21.72	202	1787	0.05	ng	99
20) Pyrene	22.04	202	1871	0.05	ng	99
22) Benzo(a)anthracene	23.65	228	6824	0.05	ng	# 94
23) Chrysene	23.69	228	10517	0.08	ng	95
24) Indeno(1,2,3-cd)pyrene	26.74	276	1787	0.19	ng	# 91
26) Benzo(b)fluoranthene	24.91	252	421	0.28	ng	# 74
27) Benzo(k)fluoranthene	24.94	252	970m	0.03	ng	
28) Benzo(a)pyrene	25.27	252	446	0.26	ng	# 70
29) Dibenzo(a,h)anthracene	26.78	278	299	0.24	ng	# 45
30) Benzo(g,h,i)perylene	27.16	276	2142	0.15	ng	# 66

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

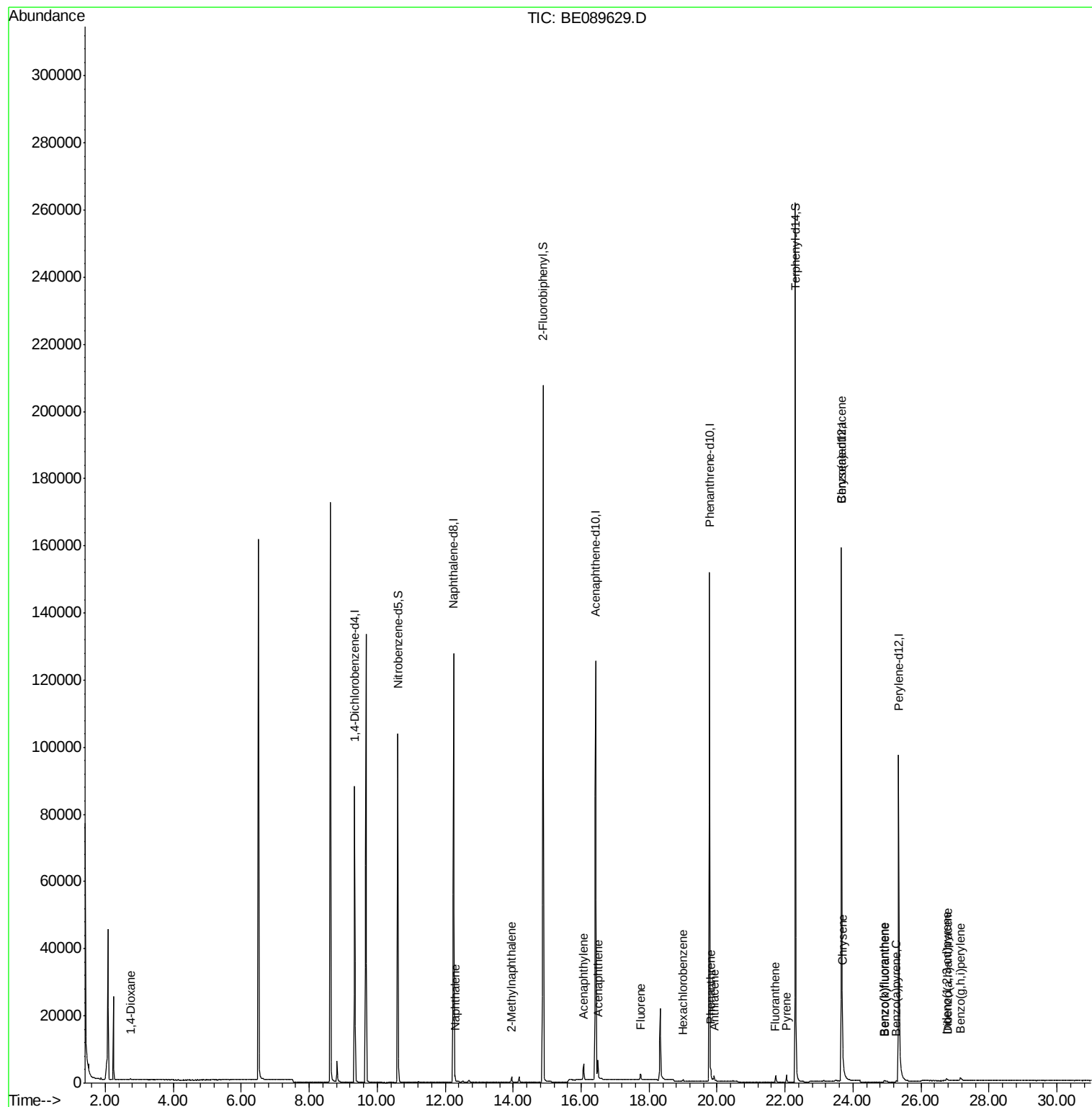
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089629.D

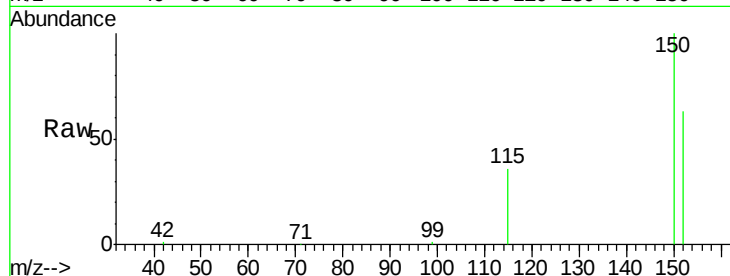
Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

ClientSampleId :

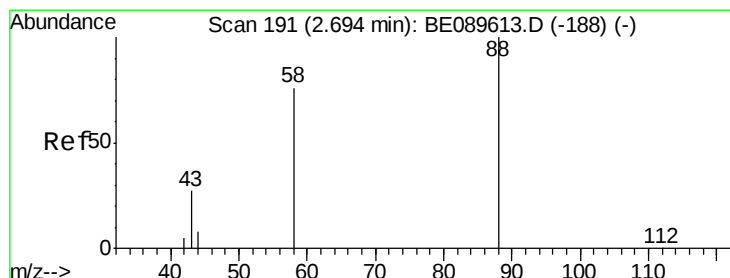
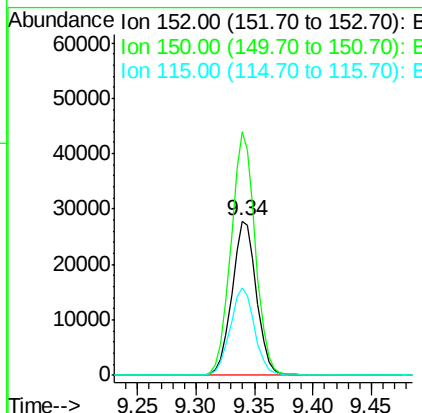
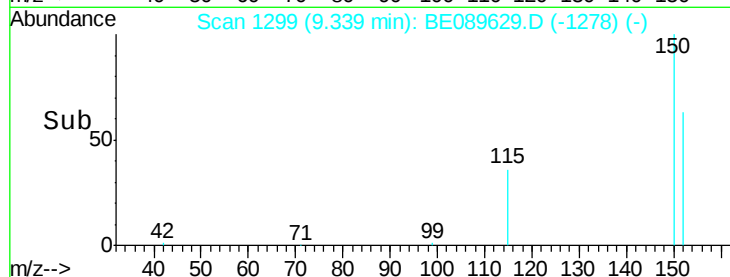
MDL-01-S



Tgt Ion:	152	Resp:	40195
Ion Ratio	Lower	Upper	
152	100		
150	158.0	122.4	183.6
115	56.9	44.2	66.2

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#2

1,4-Dioxane

Concen: 0.06 ng

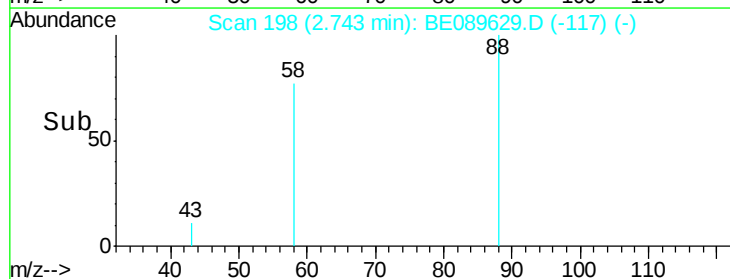
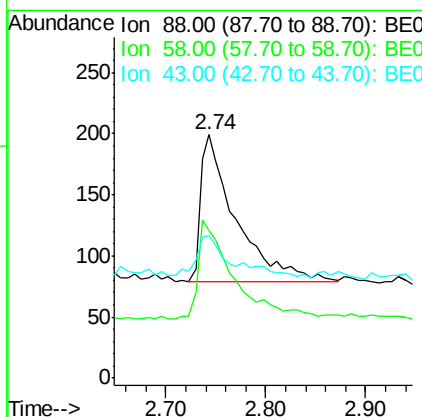
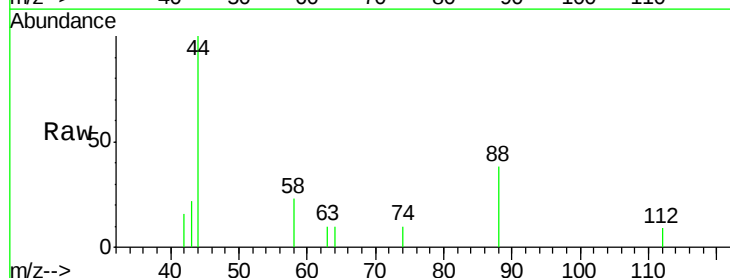
RT: 2.74 min Scan# 198

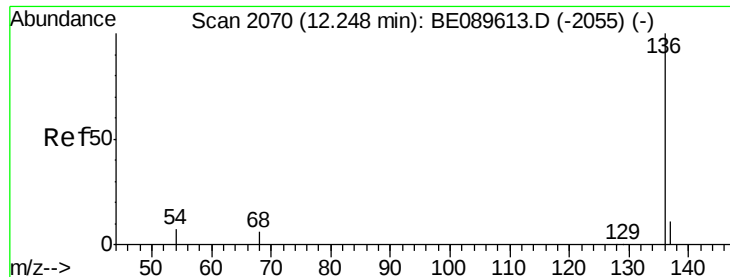
Delta R.T. 0.05 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Tgt Ion:	88	Resp:	293
Ion Ratio	Lower	Upper	
88	100		
58	66.6	54.6	81.8
43	0.0	20.6	30.8#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.25 min Scan# 2070

Delta R.T. -0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

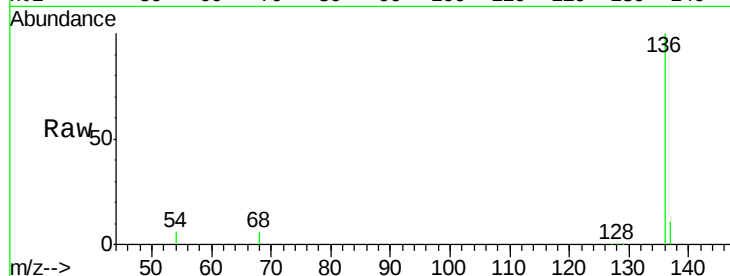
ClientSampleId :

MDL-01-S

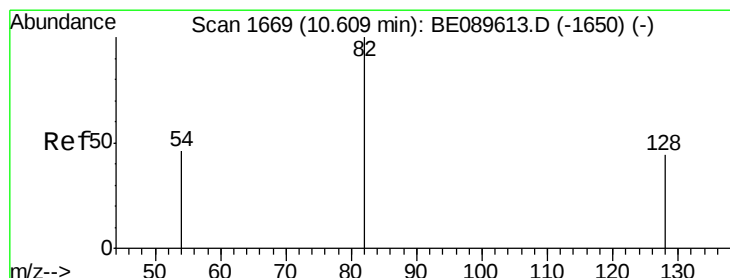
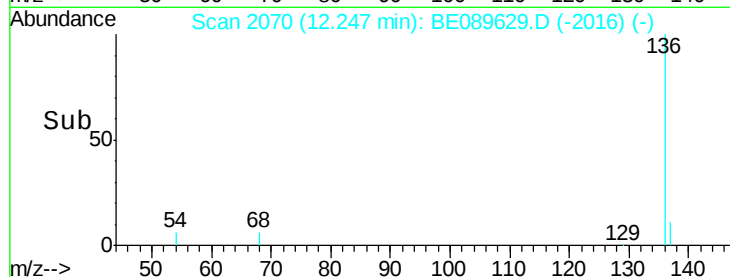
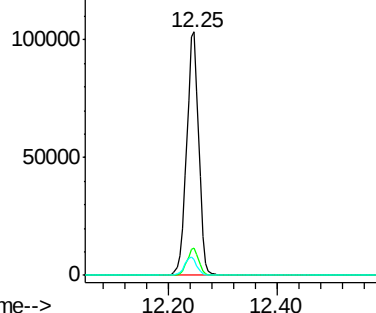
Tgt Ion:	136	Resp:	159161
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	6.4	5.3	7.9

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Abundance Ion 136.00 (135.70 to 136.70): BE089613.D (-2055) (-)



#5

Nitrobenzene-d5

Concen: 10.72 ng

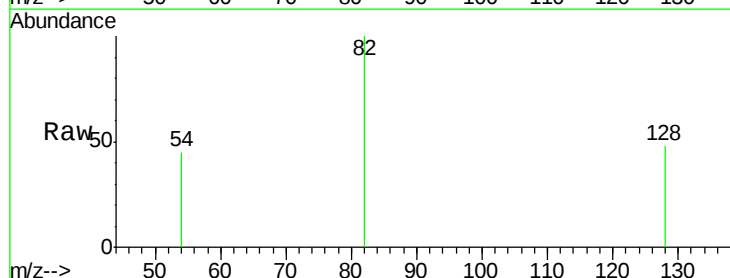
RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

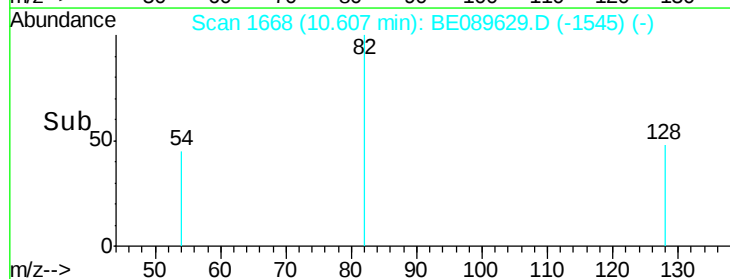
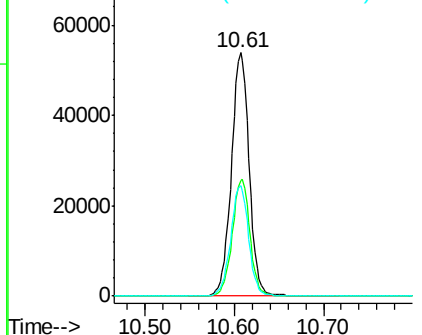
Lab File: BE089629.D

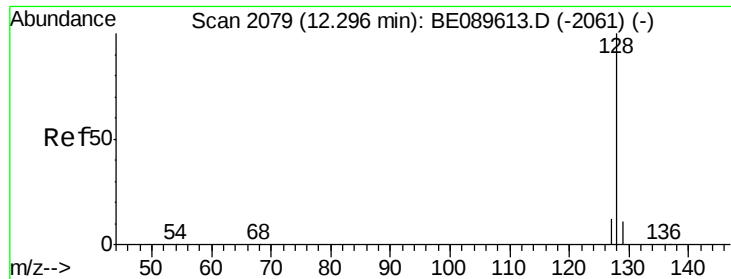
Acq: 18 Feb 2015 22:48

Tgt Ion:	82	Resp:	74190
Ion Ratio	Lower	Upper	
82	100		
128	47.7	35.5	53.3
54	45.5	37.5	56.3



Abundance Ion 82.00 (81.70 to 82.70): BE089613.D (-1650) (-)





#6

Naphthalene

Concen: 0.06 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.01 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

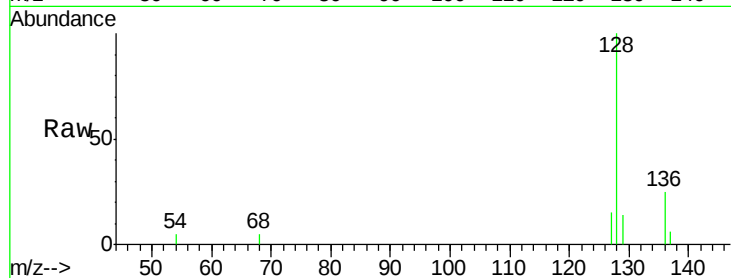
ClientSampleId :

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Tgt Ion	Ratio	Resp	Lower	Upper
128	100	2309		
129	13.6	8.9	13.3#	
127	15.3	9.8	14.8#	

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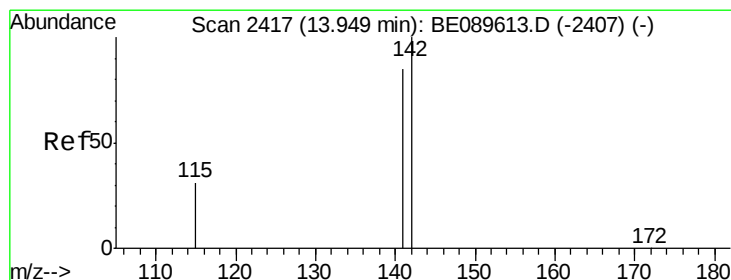
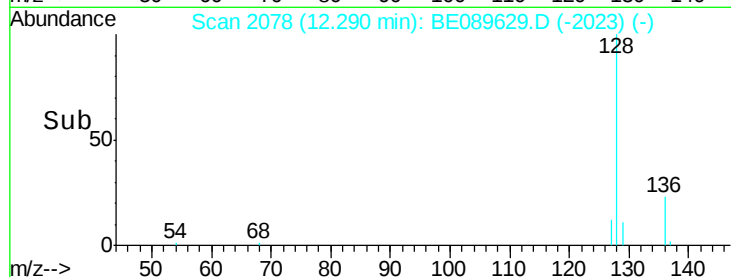
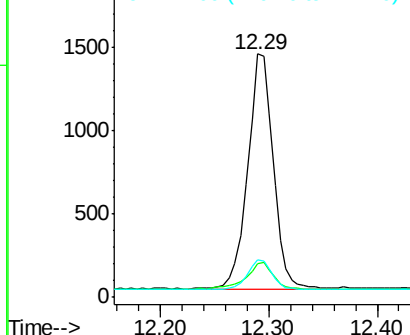


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.06 ng

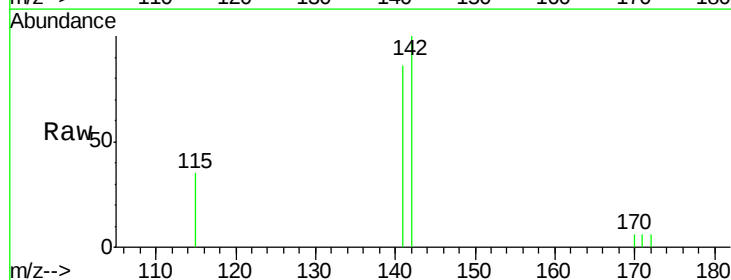
RT: 13.95 min Scan# 2418

Delta R.T. 0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	1247		
141	86.0	68.3	102.5	
115	35.2	25.1	37.7	

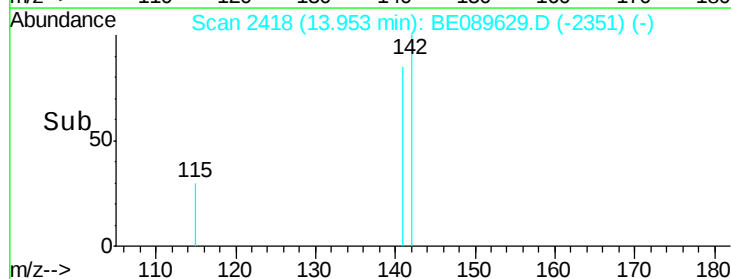
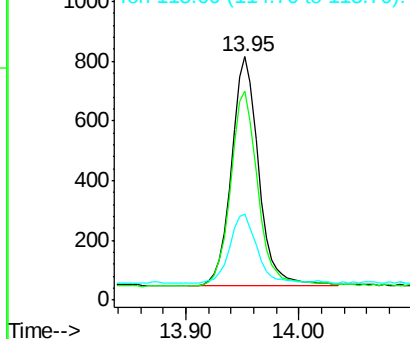


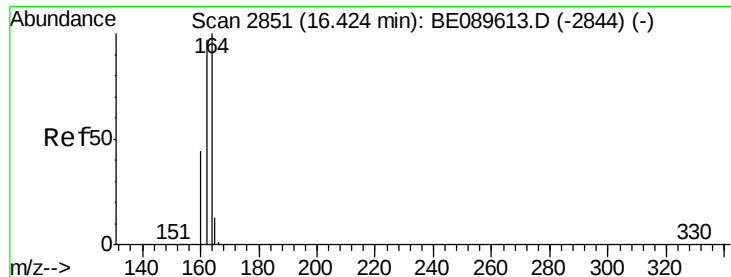
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089629.D

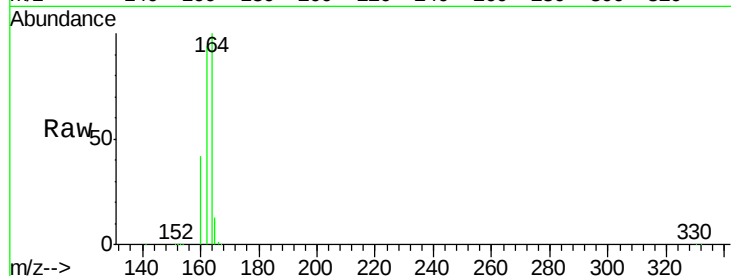
Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

ClientSampleId :

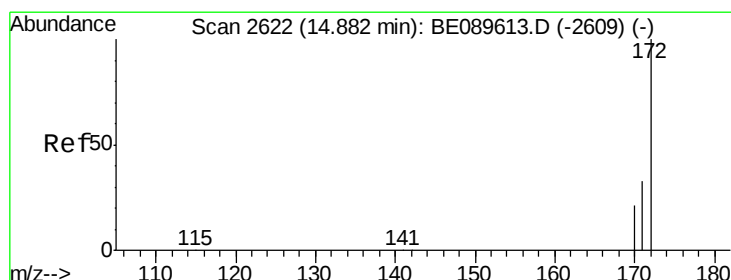
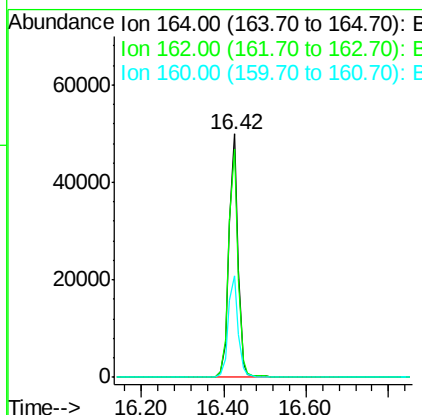
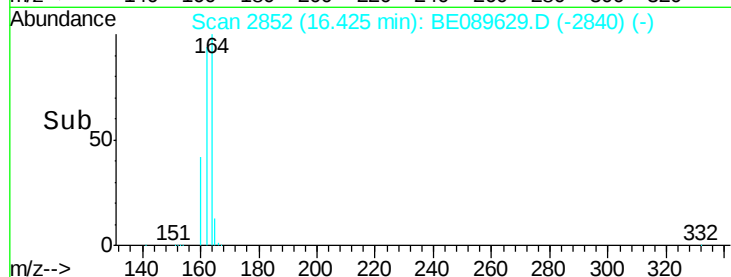
MDL-01-S



Tgt Ion:	164	Resp:	77324
Ion Ratio	Lower	Upper	
164	100		
162	93.7	77.5	116.3
160	41.9	35.5	53.3

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#9

2-Fluorobiphenyl

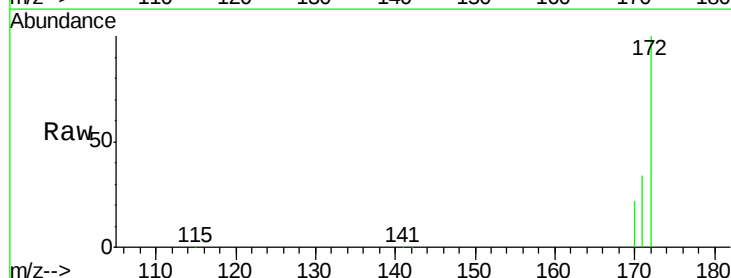
Concen: 9.36 ng

RT: 14.88 min Scan# 2622

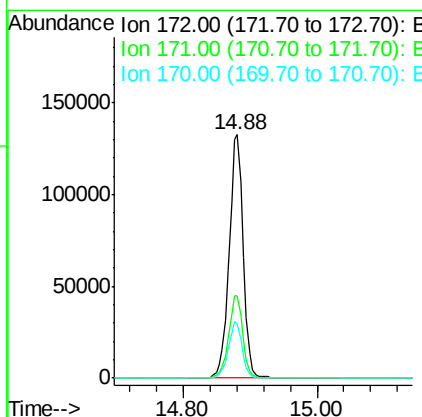
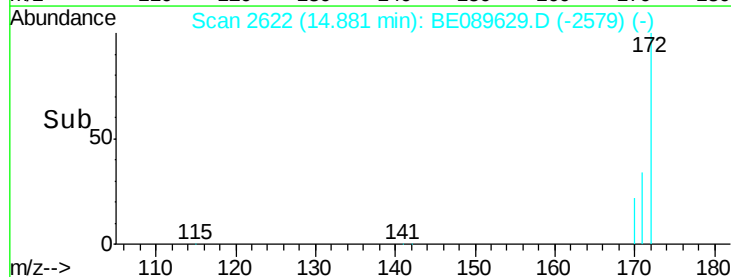
Delta R.T. -0.00 min

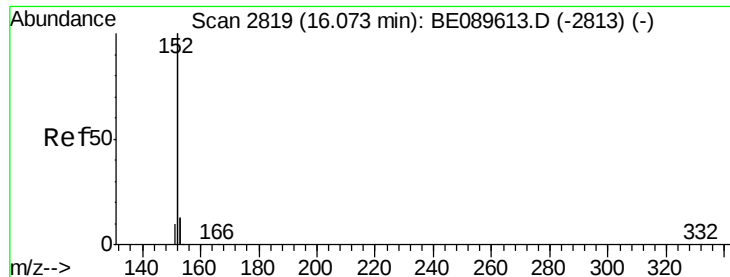
Lab File: BE089629.D

Acq: 18 Feb 2015 22:48



Tgt Ion:	172	Resp:	193958
Ion Ratio	Lower	Upper	
172	100		
171	33.9	26.9	40.3
170	22.1	17.4	26.0





#10

Acenaphthylene

Concen: 0.05 ng

RT: 16.07 min Scan# 2820

Delta R.T. 0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

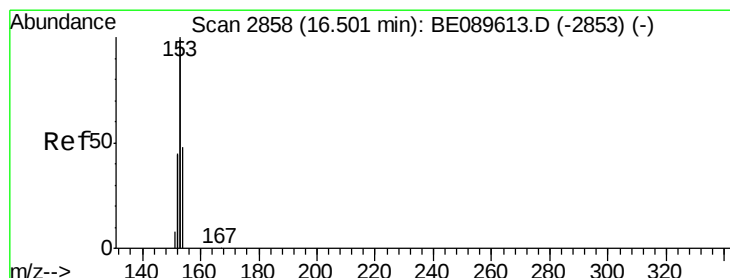
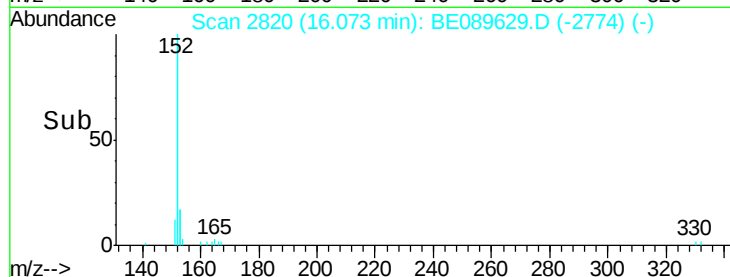
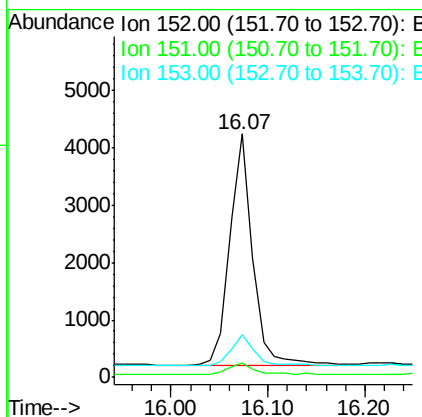
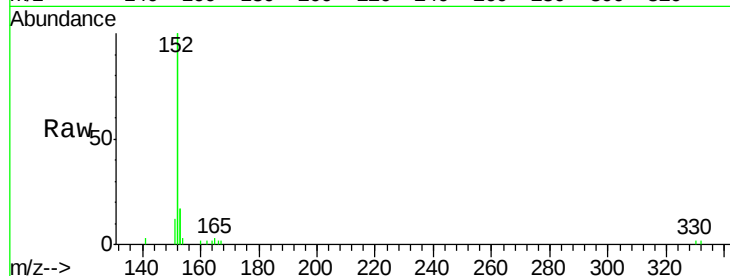
ClientSampleId :

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Tgt Ion:	152	Resp:	6591
Ion Ratio	Lower	Upper	
152	100		
151	5.4	3.9	5.9
153	13.4	10.5	15.7



#11

Acenaphthene

Concen: 0.06 ng

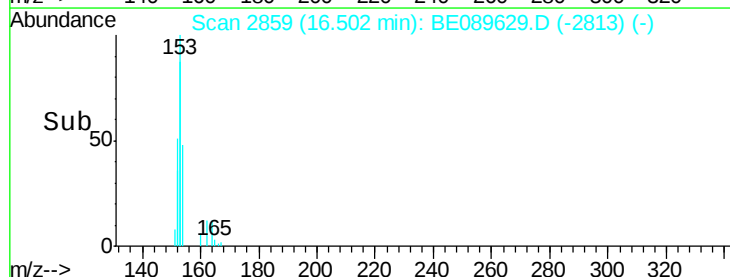
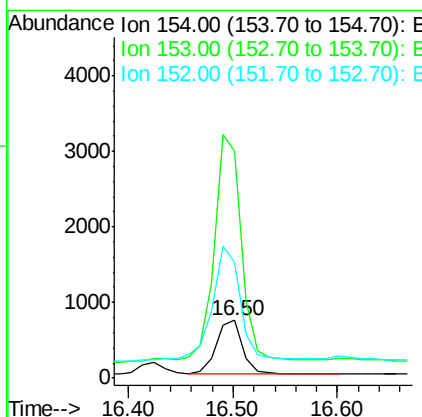
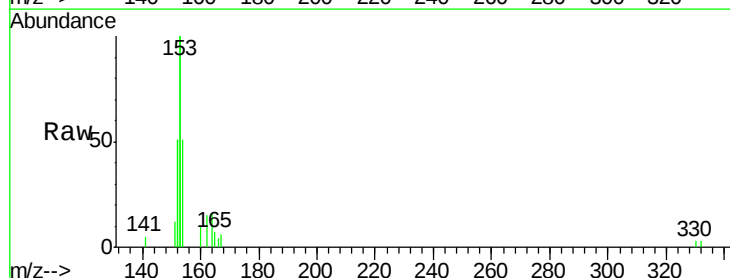
RT: 16.50 min Scan# 2859

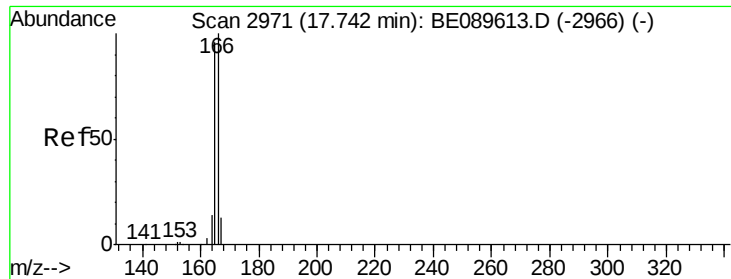
Delta R.T. 0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Tgt Ion:	154	Resp:	1253
Ion Ratio	Lower	Upper	
154	100		
153	447.6	348.9	523.3
152	238.2	166.6	249.8





#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089629.D

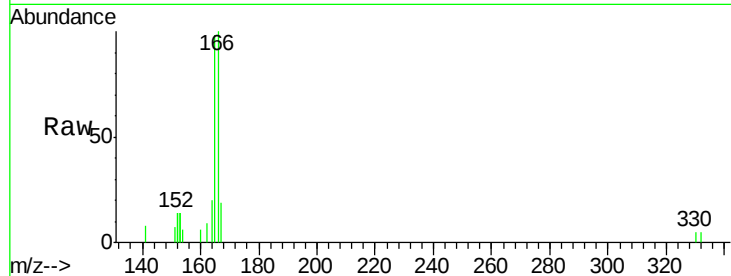
Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

ClientSampleId :

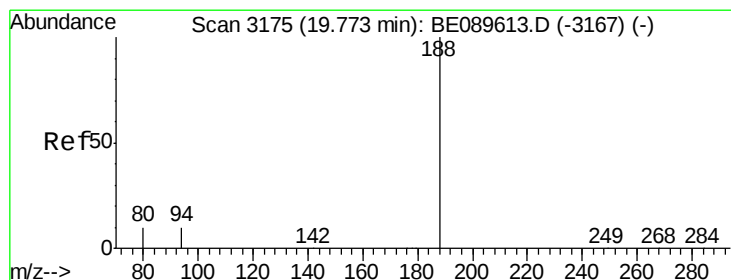
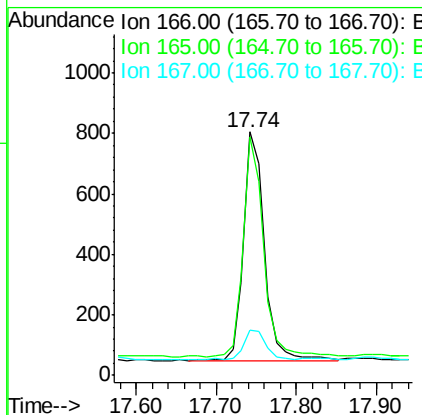
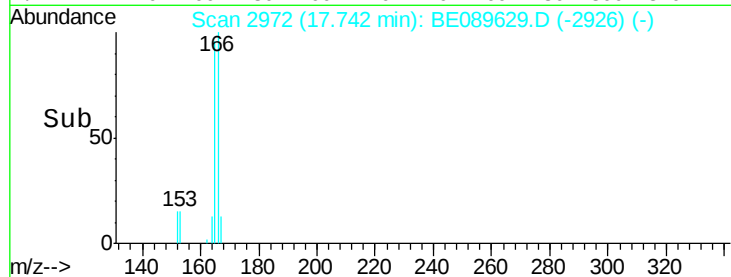
MDL-01-S



Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.7	74.7	112.1
167	15.8	10.5	15.7

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#13

Phenanthrene-d10

Concen: 5.00 ng

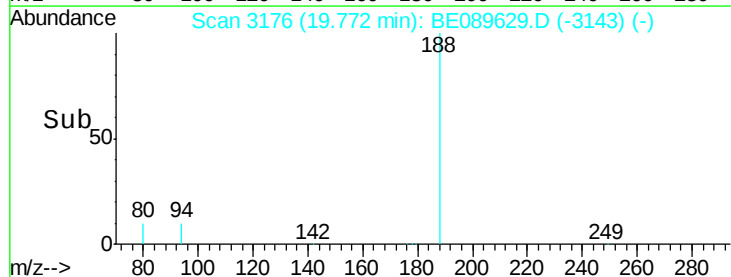
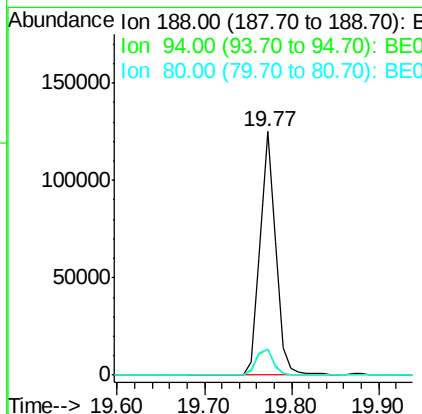
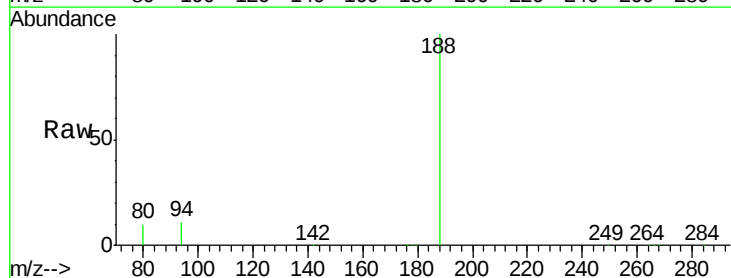
RT: 19.77 min Scan# 3176

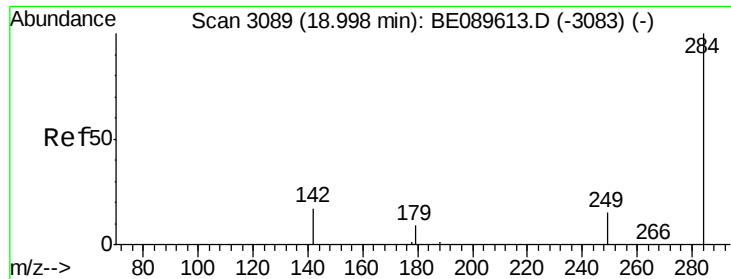
Delta R.T. -0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.2	12.4
80	10.5	8.1	12.1





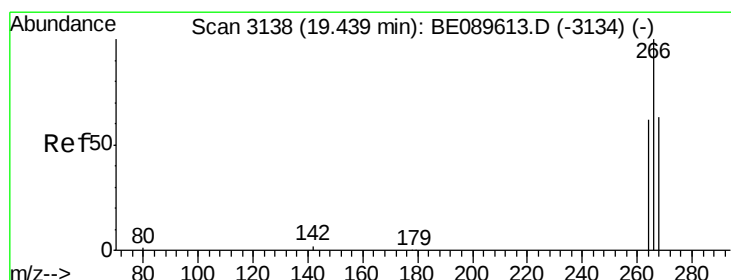
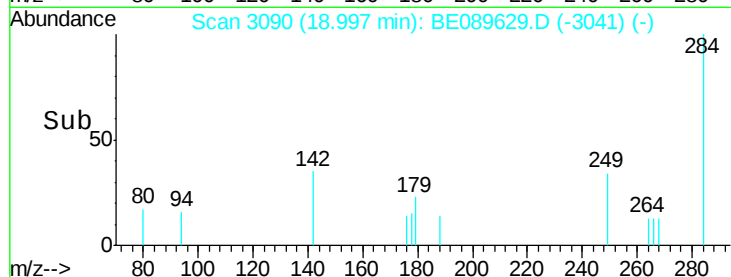
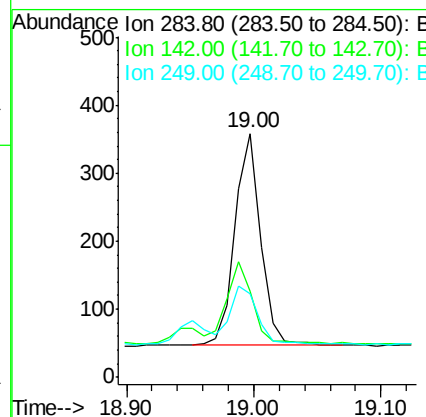
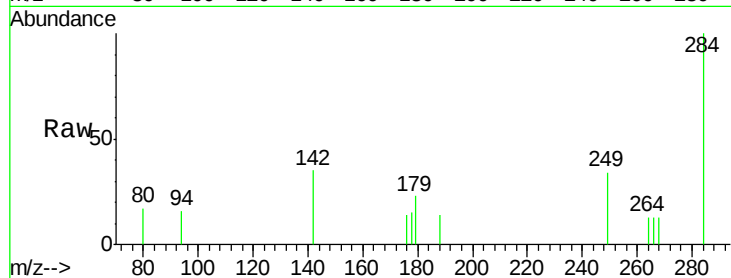
#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 19.00 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

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ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.7	32.3	48.5
249	30.0	22.3	33.5

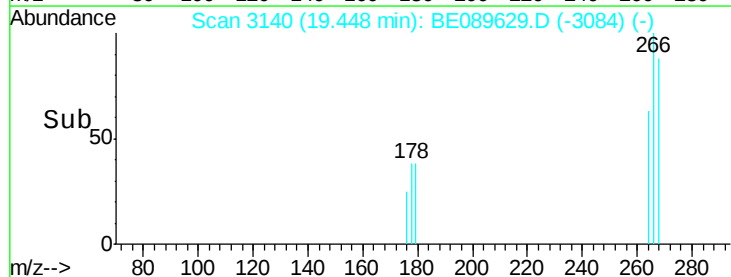
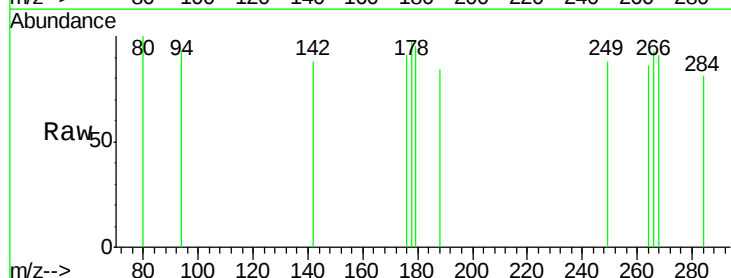
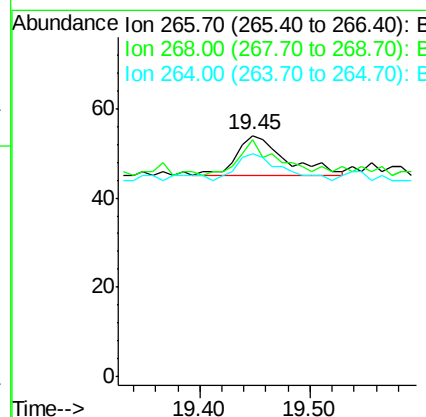
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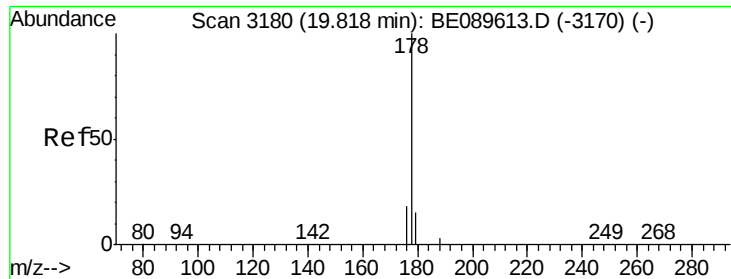
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#15
Pentachlorophenol
Concen: Below Cal
RT: 19.45 min Scan# 3140
Delta R.T. 0.01 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
266	100		
268	98.1	52.6	79.0#
264	92.6	51.8	77.8#





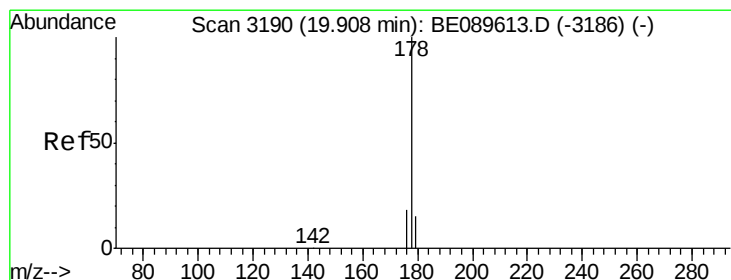
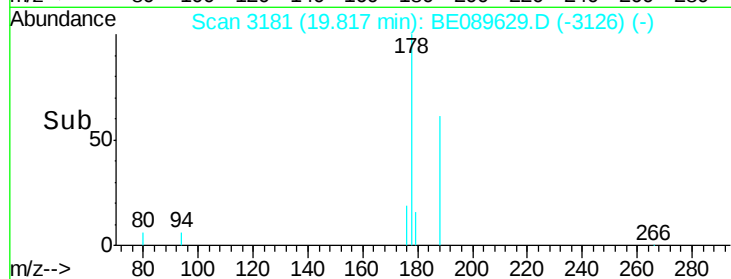
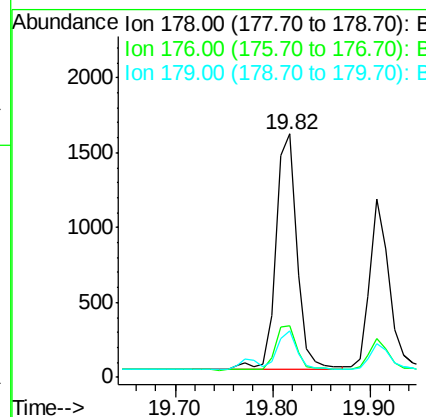
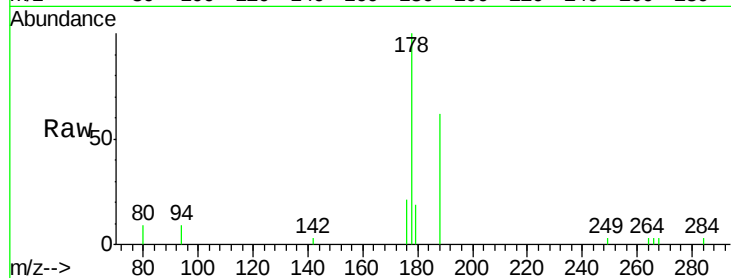
#16
Phenanthrene
Concen: 0.06 ng
RT: 19.82 min Scan# 3181
Delta R.T. -0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Instrument :
BNA_E
ClientSampleId :
MDL-01-S

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.1	22.7
179	15.1	12.3	18.5

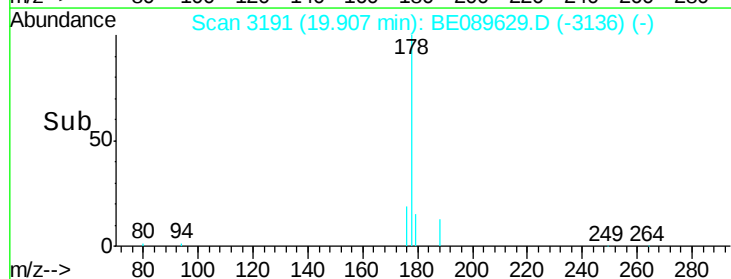
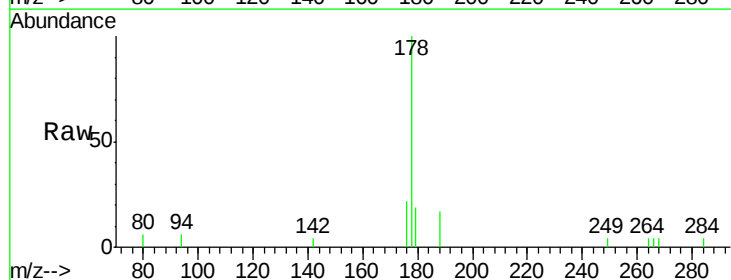
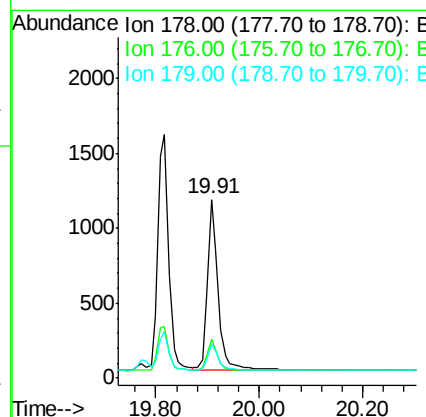
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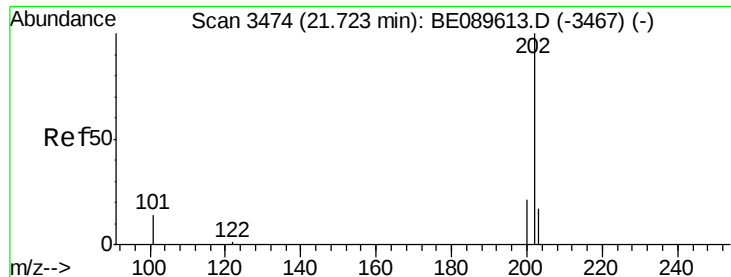
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#17
Anthracene
Concen: 0.05 ng
RT: 19.91 min Scan# 3191
Delta R.T. -0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	14.8	12.3	18.5





#18

Fluoranthene

Concen: 0.05 ng

RT: 21.72 min Scan# 3475

Delta R.T. -0.00 min

Lab File: BE089629.D

Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

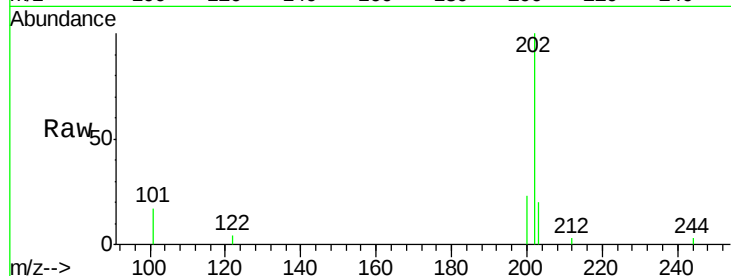
ClientSampleId :

MDL-01-S

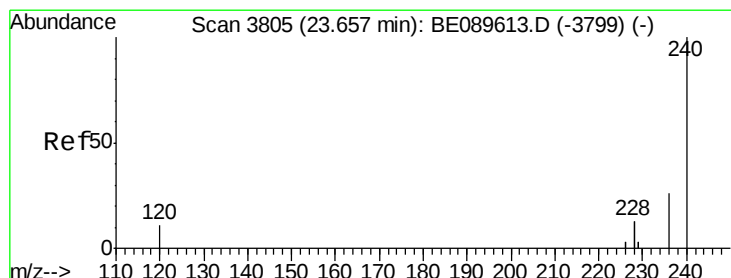
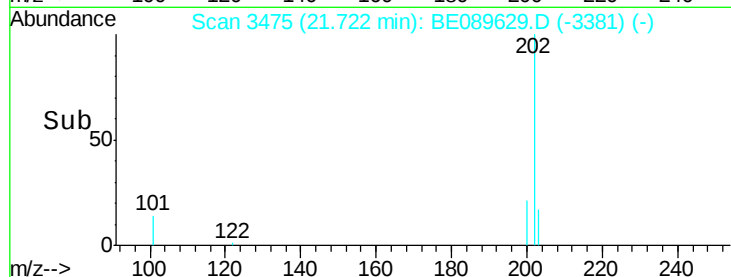
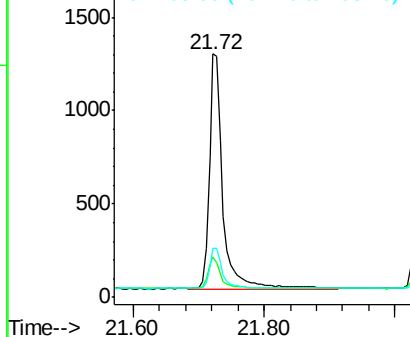
Tgt	Ion	202	Resp:	1787
Ion	Ratio	Lower	Upper	
202	100			
101	13.0	10.4	15.6	
203	16.8	13.9	20.9	

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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



#19

Chrysene-d12

Concen: 5.00 ng

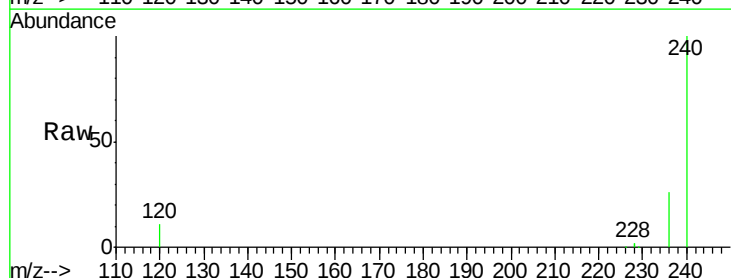
RT: 23.66 min Scan# 3806

Delta R.T. 0.00 min

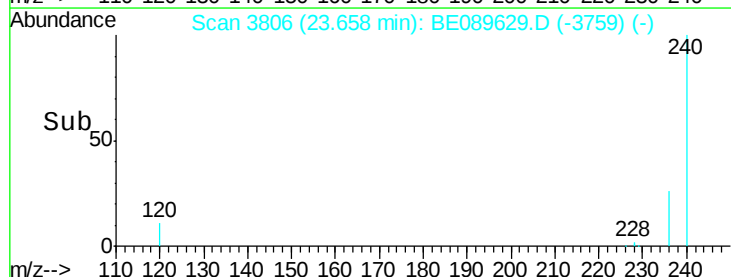
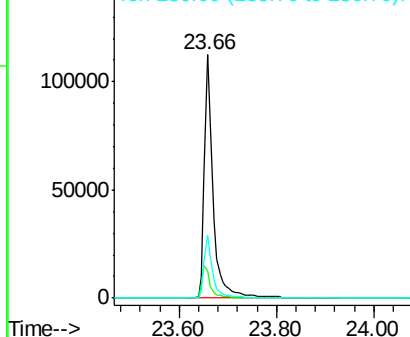
Lab File: BE089629.D

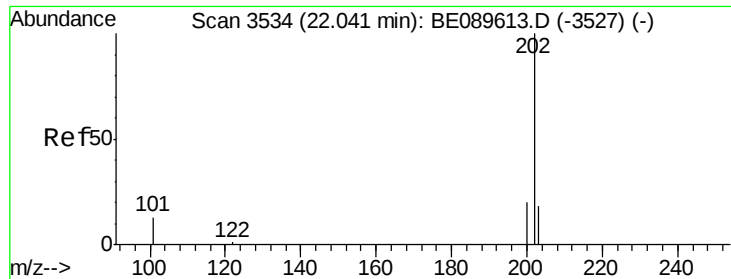
Acq: 18 Feb 2015 22:48

Tgt	Ion	240	Resp:	140802
Ion	Ratio	Lower	Upper	
240	100			
120	11.1	9.0	13.4	
236	25.9	21.0	31.6	



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





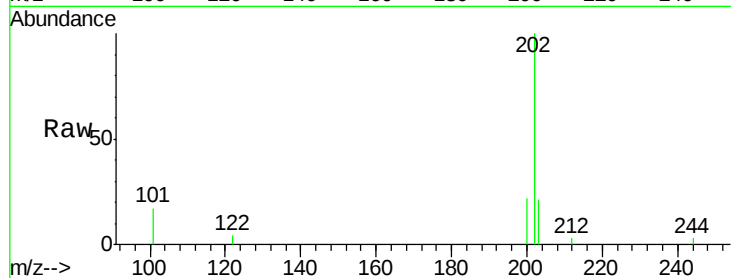
#20
 Pyrene
 Concen: 0.05 ng
 RT: 22.04 min Scan# 3535
 Delta R.T. -0.00 min
 Lab File: BE089629.D
 Acq: 18 Feb 2015 22:48

Instrument :
 BNA_E
 ClientSampleId :
 MDL-01-S

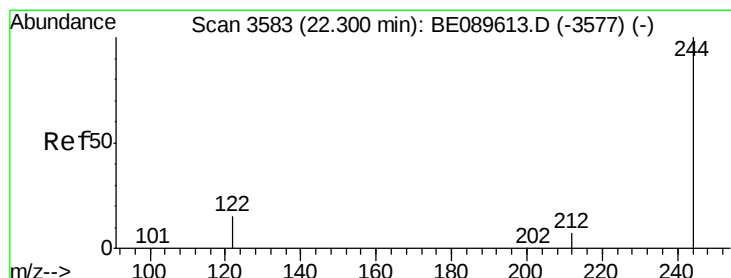
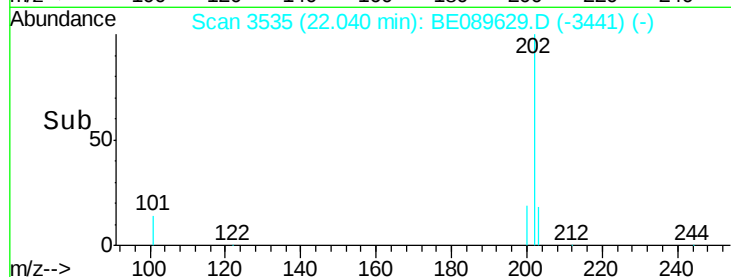
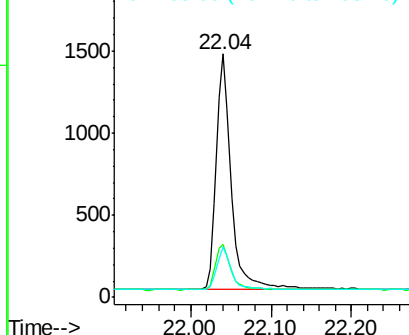
Tgt Ion:	202	Resp:	1871
Ion Ratio	Lower	Upper	
202	100		
200	19.6	16.3	24.5
203	17.6	13.8	20.8

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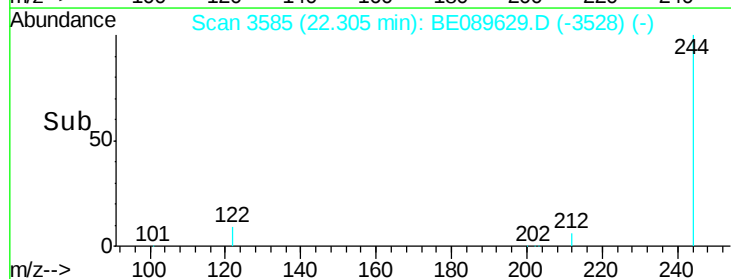
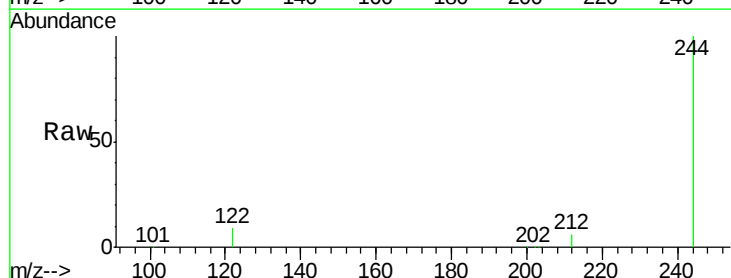
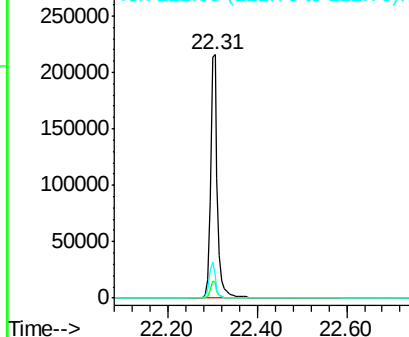
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

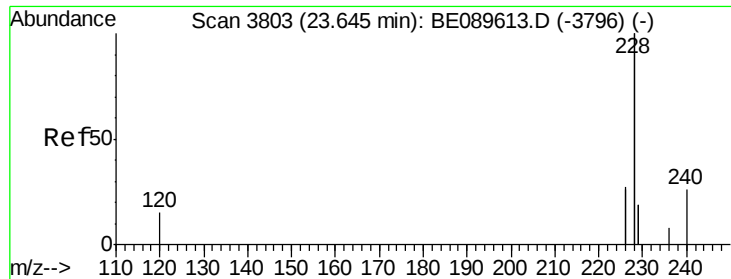


#21
 Terphenyl-d14
 Concen: 11.50 ng
 RT: 22.31 min Scan# 3585
 Delta R.T. 0.00 min
 Lab File: BE089629.D
 Acq: 18 Feb 2015 22:48

Tgt Ion:	244	Resp:	232865
Ion Ratio	Lower	Upper	
244	100		
212	6.5	5.8	8.8
122	9.1	11.8	17.8#

Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E





#22

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.65 min Scan# 3805

Delta R.T. 0.01 min

Lab File: BE089629.D

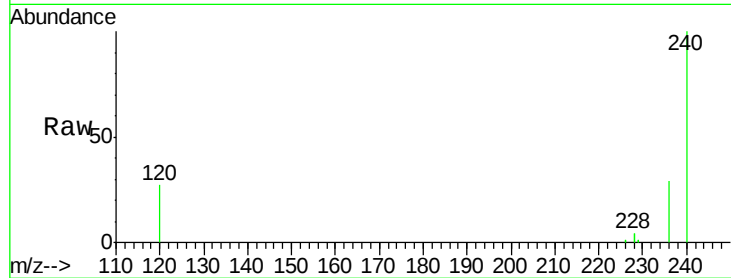
Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

ClientSampleId :

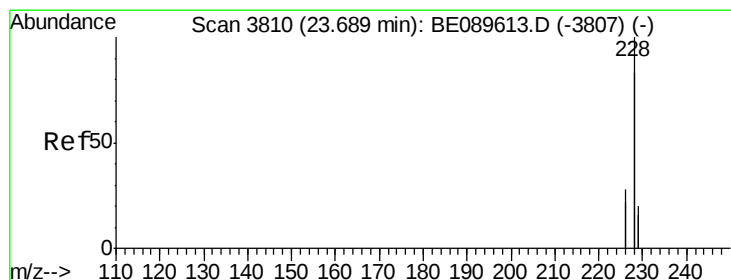
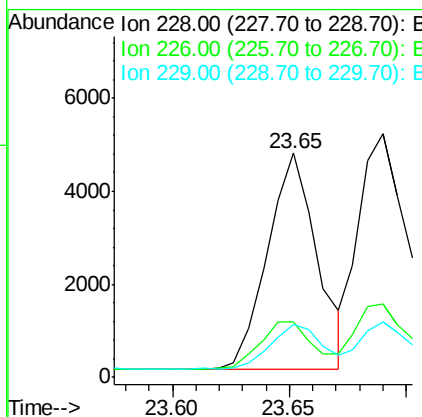
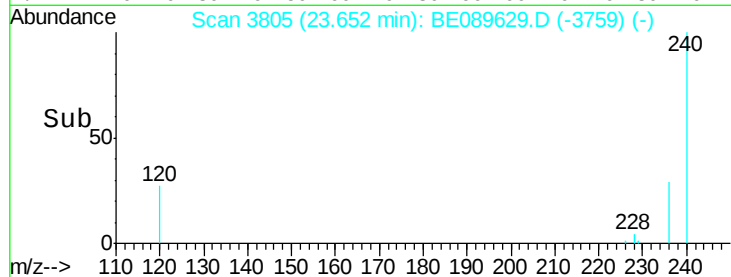
MDL-01-S



Tgt Ion:	228	Resp:	6824
Ion Ratio	Lower	Upper	
228	100		
226	24.8	21.2	31.8
229	23.7	15.2	22.8

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#23

Chrysene

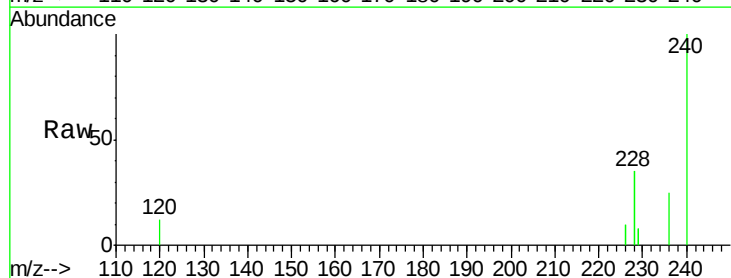
Concen: 0.08 ng

RT: 23.69 min Scan# 3811

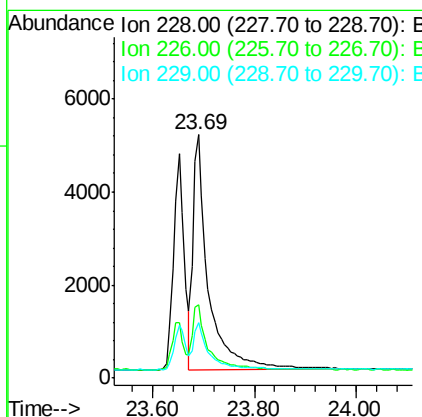
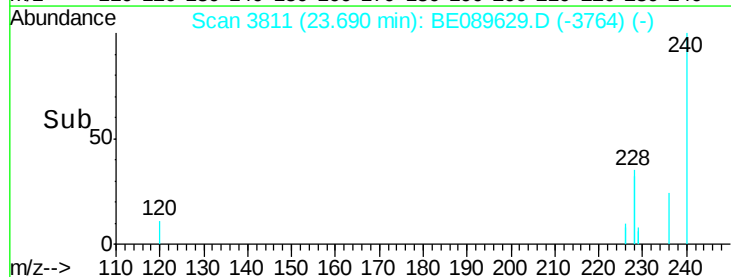
Delta R.T. 0.00 min

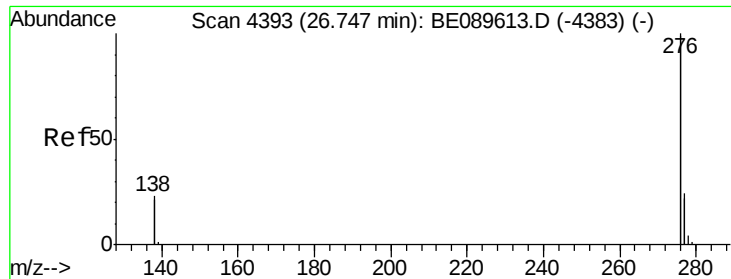
Lab File: BE089629.D

Acq: 18 Feb 2015 22:48



Tgt Ion:	228	Resp:	10517
Ion Ratio	Lower	Upper	
228	100		
226	30.0	22.2	33.4
229	22.9	16.0	24.0





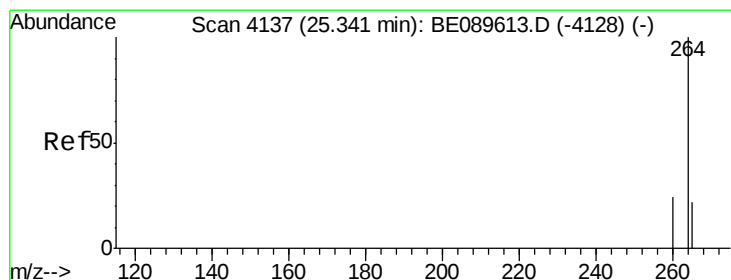
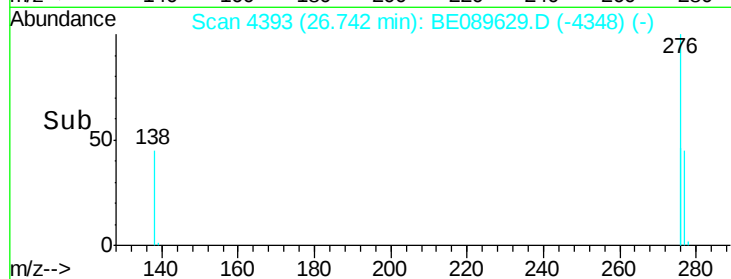
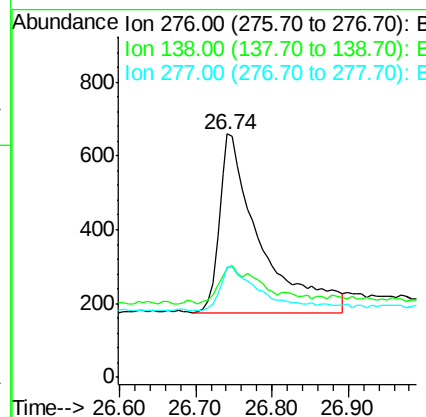
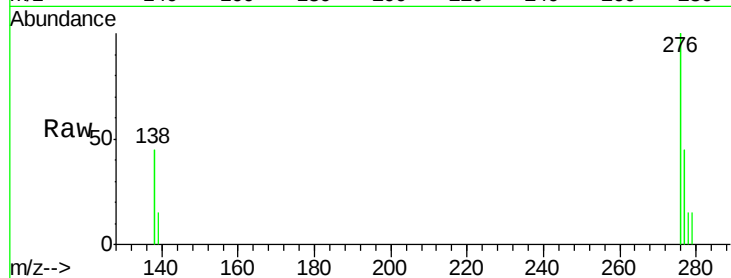
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ng
RT: 26.74 min Scan# 4393
Delta R.T. -0.01 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Instrument :
BNA_E
ClientSampleId :
MDL-01-S

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.3	21.4	32.2#
277	23.5	19.9	29.9

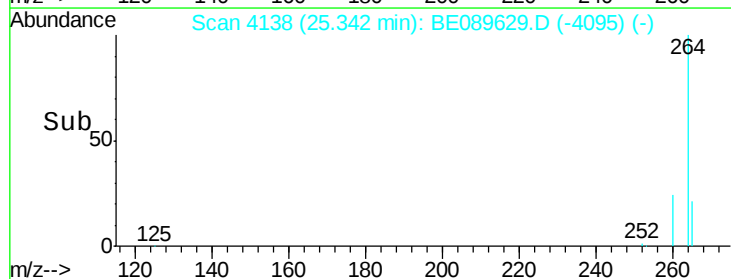
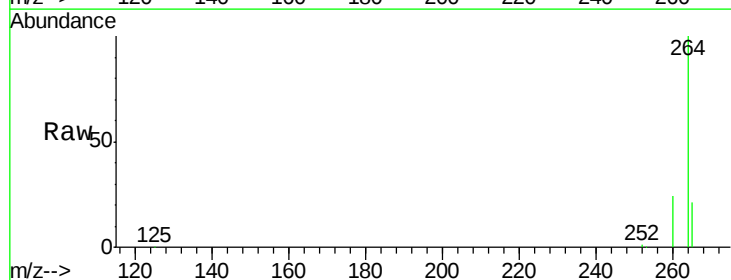
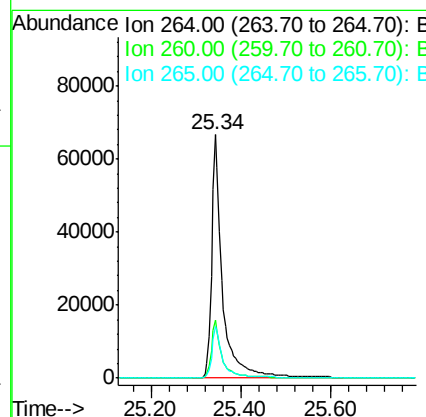
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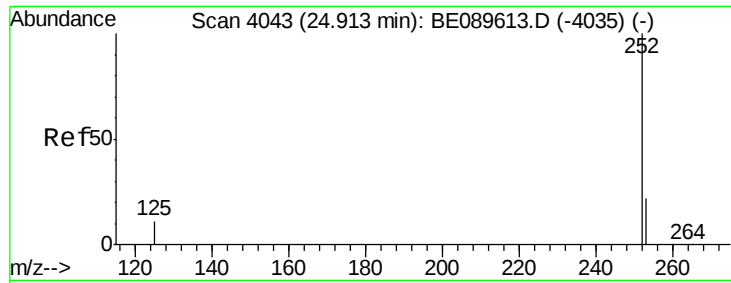
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#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4138
Delta R.T. 0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.6
265	21.3	17.4	26.0





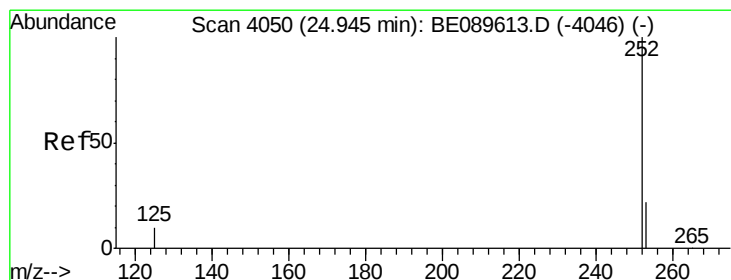
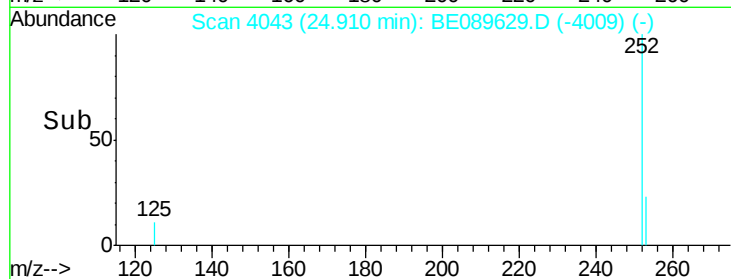
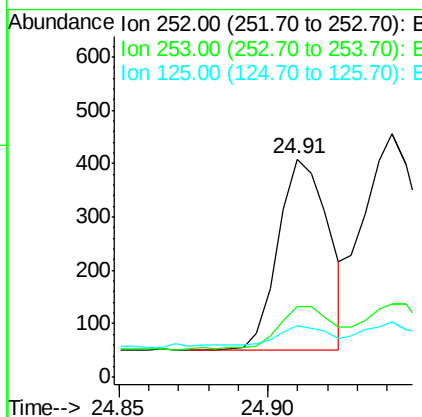
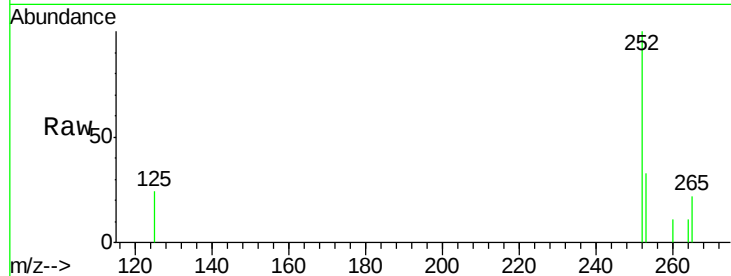
#26
Benzo(b)fluoranthene
Concen: 0.28 ng
RT: 24.91 min Scan# 4043
Delta R.T. -0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Instrument :
BNA_E
ClientSampleId :
MDL-01-S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.6	17.6	26.4#
125	23.5	8.8	13.2#

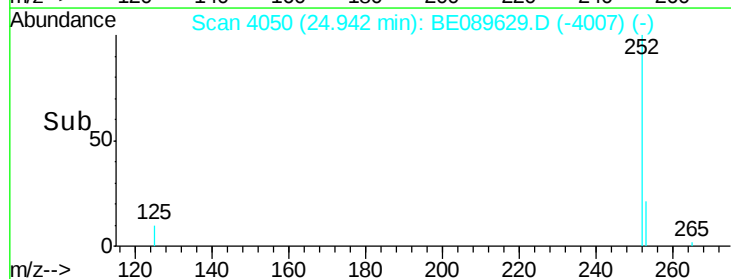
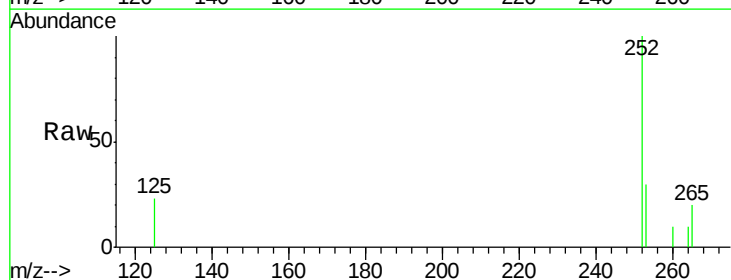
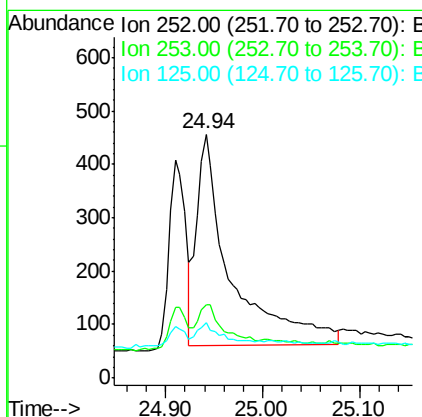
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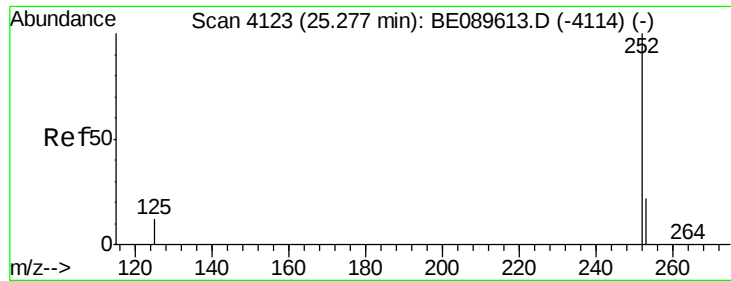
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#27
Benzo(k)fluoranthene
Concen: 0.03 ng m
RT: 24.94 min Scan# 4050
Delta R.T. -0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.8	17.7	26.5#
125	22.6	8.8	13.2#





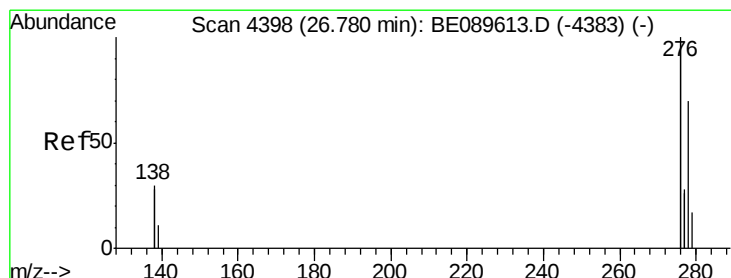
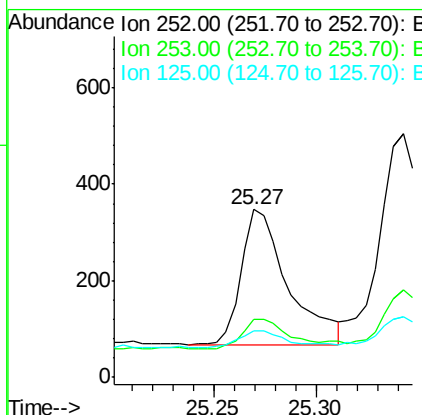
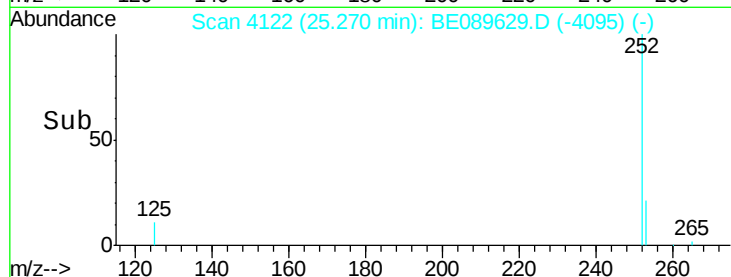
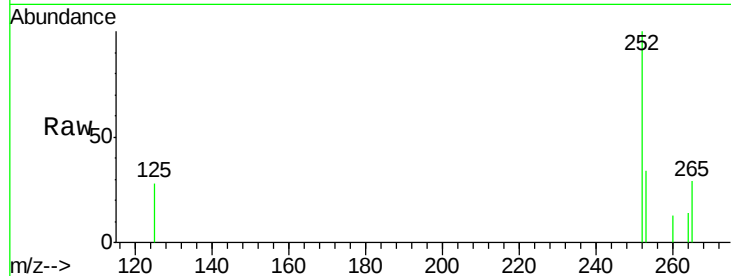
#28
Benzo(a)pyrene
Concen: 0.26 ng
RT: 25.27 min Scan# 4122
Delta R.T. -0.01 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Instrument :
BNA_E
ClientSampleId :
MDL-01-S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.2	18.1	27.1#
125	27.9	9.6	14.4#

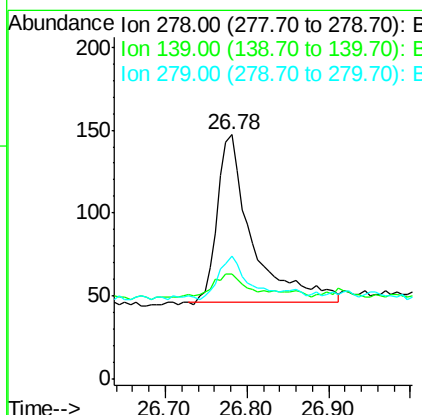
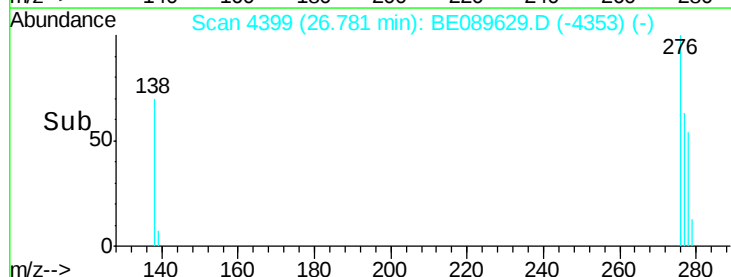
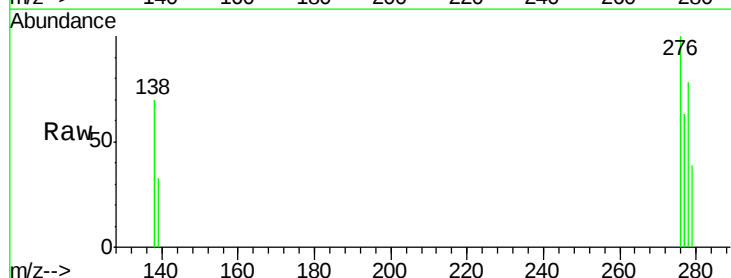
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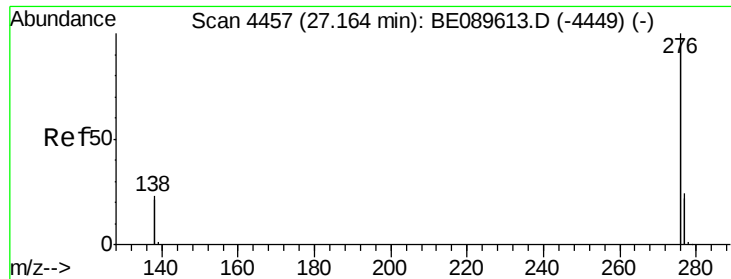
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#29
Dibenzo(a,h)anthracene
Concen: 0.24 ng
RT: 26.78 min Scan# 4399
Delta R.T. 0.00 min
Lab File: BE089629.D
Acq: 18 Feb 2015 22:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	42.9	13.7	20.5#
279	50.3	19.7	29.5#





#30

Benzo(g,h,i)perylene

Concen: 0.15 ng

RT: 27.16 min Scan# 4457

Delta R.T. -0.01 min

Lab File: BE089629.D

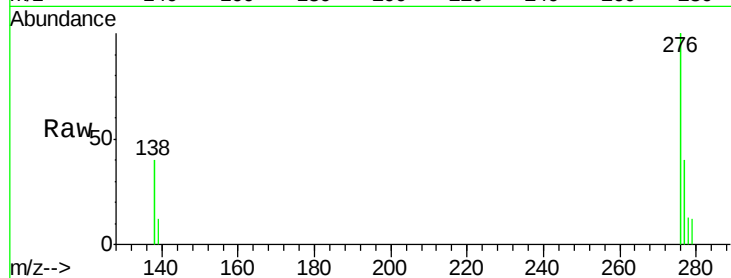
Acq: 18 Feb 2015 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-01-S



Tgt	Ion	276	Resp:	2142
Ion	Ratio	Lower	Upper	
276	100			
277	40.3	19.1	28.7#	
138	40.3	18.7	28.1#	

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