

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089630.D
 Acq On : 18 Feb 2015 23:26
 Operator : TP/IZ
 Sample : MDL-02-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

Manual Integrations
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Quant Time: Feb 19 05:12:00 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	41382	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	165175	5.00	ng	0.00
8) Acenaphthene-d10	16.43	164	82182	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	160573	5.00	ng	0.00
19) Chrysene-d12	23.66	240	144678	5.00	ng	0.00
25) Perylene-d12	25.34	264	116374	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	69718	9.71	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	193779	8.80	ng	0.00
21) Terphenyl-d14	22.30	244	234529	11.27	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	315	0.06	ng	# 85
6) Naphthalene	12.29	128	2438	0.07	ng	# 94
7) 2-Methylnaphthalene	13.95	142	1318	0.06	ng	97
10) Acenaphthylene	16.07	152	7308	0.05	ng	100
11) Acenaphthene	16.49	154	1349	0.06	ng	89
12) Fluorene	17.74	166	1511	0.06	ng	97
14) Hexachlorobenzene	19.00	284	487	0.07	ng	93
15) Pentachlorophenol	19.45	266	27	Below Cal	#	66
16) Phenanthrene	19.82	178	2650	0.07	ng	99
17) Anthracene	19.91	178	1878	0.06	ng	96
18) Fluoranthene	21.72	202	1891	0.05	ng	99
20) Pyrene	22.04	202	1994	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	7091	0.06	ng	94
23) Chrysene	23.69	228	11361	0.08	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	1977	0.19	ng	93
26) Benzo(b)fluoranthene	24.91	252	459	0.29	ng	# 77
27) Benzo(k)fluoranthene	24.94	252	1033m	0.03	ng	
28) Benzo(a)pyrene	25.27	252	511	0.26	ng	# 73
29) Dibenzo(a,h)anthracene	26.78	278	357	0.24	ng	# 54
30) Benzo(g,h,i)perylene	27.16	276	2534	0.16	ng	# 66

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

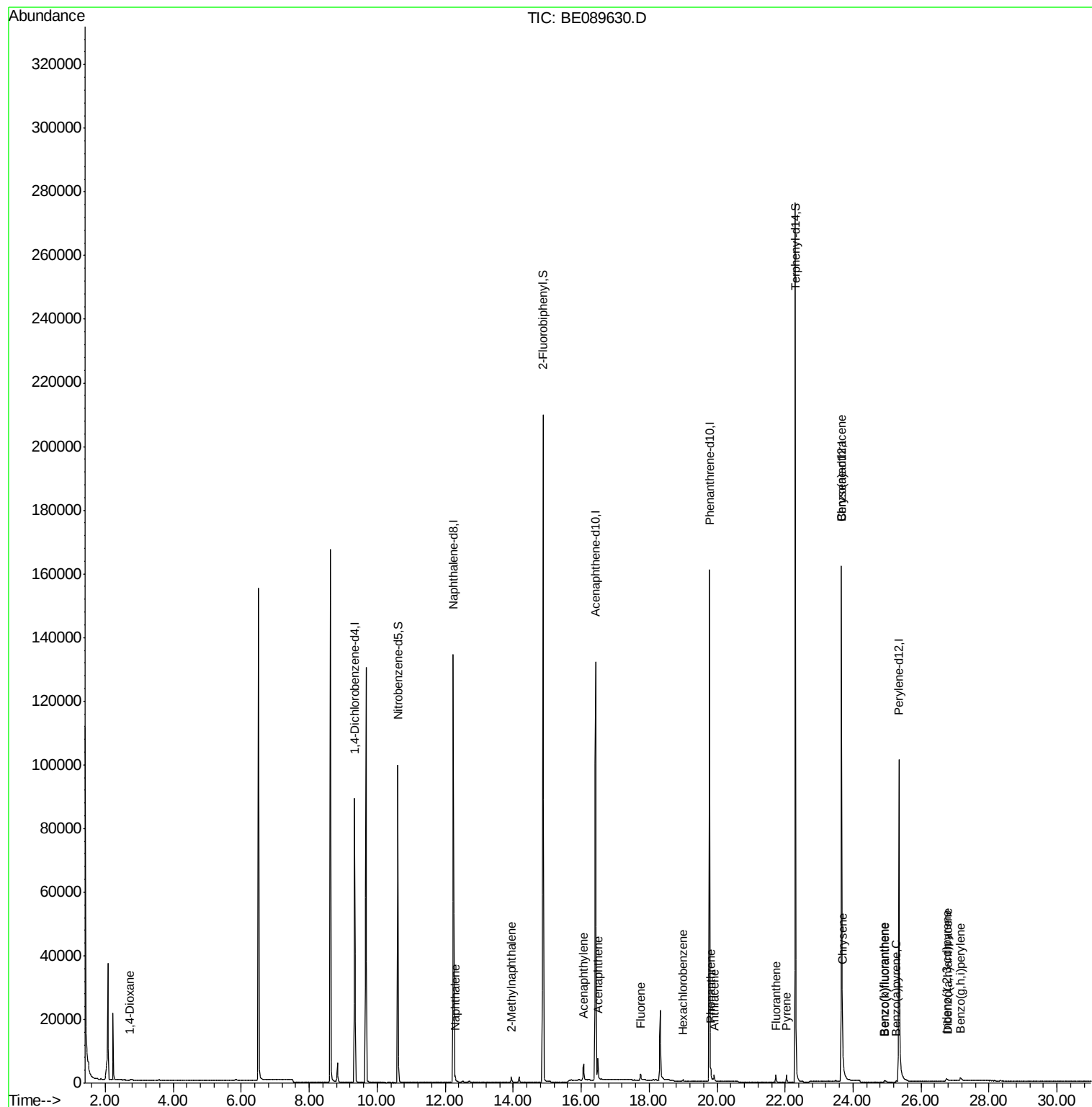
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
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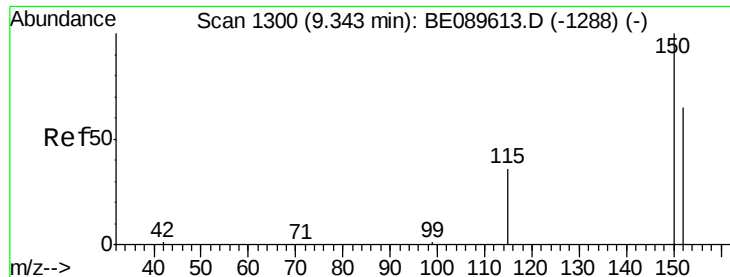
Instrument :
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MDL-02-S

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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089630.D

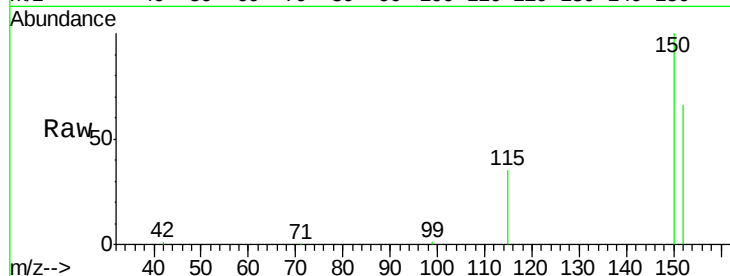
Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

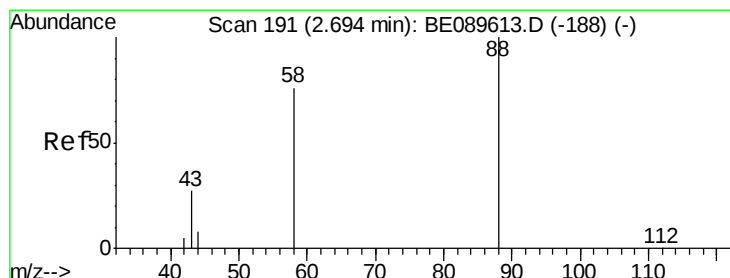
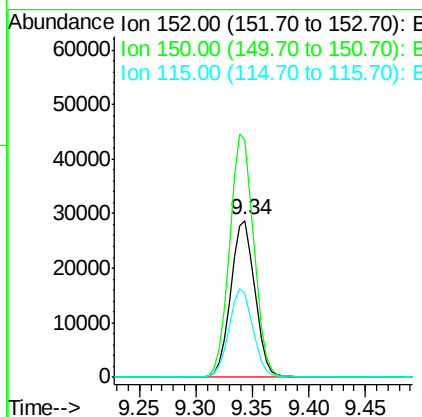
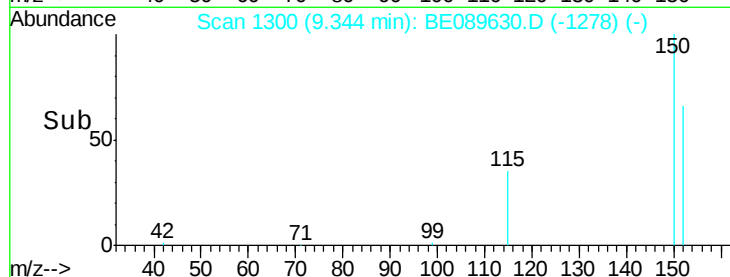
MDL-02-S



Tgt Ion:	152	Resp:	41382
Ion Ratio	Lower	Upper	
152	100		
150	150.8	122.4	183.6
115	53.0	44.2	66.2

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#2

1,4-Dioxane

Concen: 0.06 ng

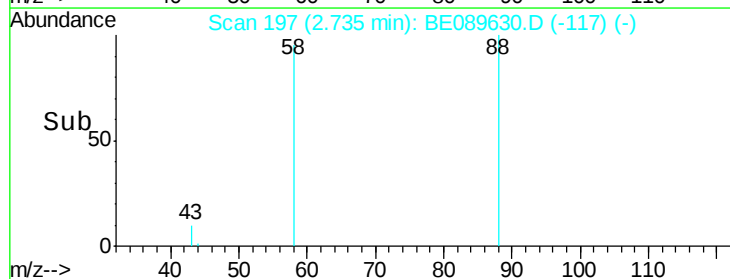
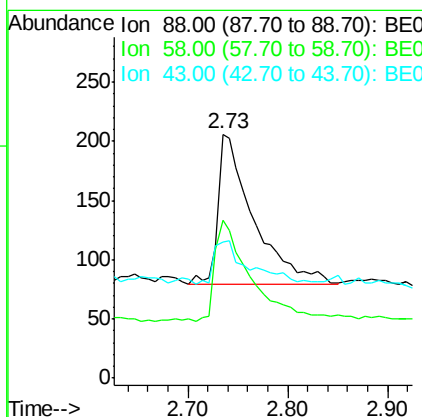
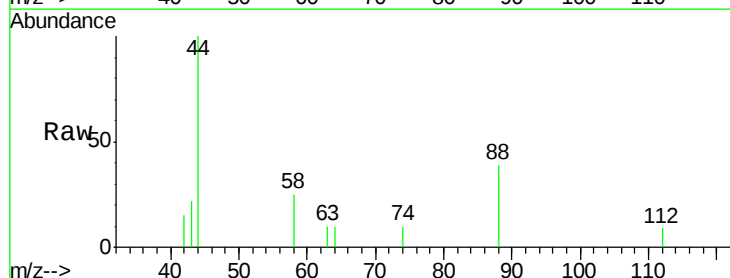
RT: 2.73 min Scan# 197

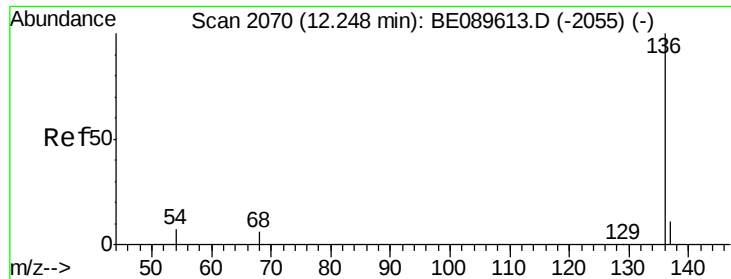
Delta R.T. 0.04 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Tgt Ion:	88	Resp:	315
Ion Ratio	Lower	Upper	
88	100		
58	69.5	54.6	81.8
43	0.0	20.6	30.8#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2069

Delta R.T. -0.01 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

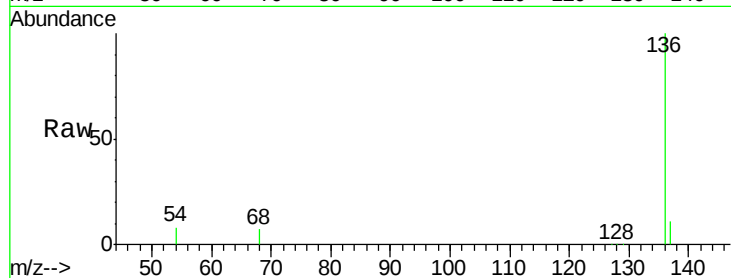
ClientSampleId :

MDL-02-S

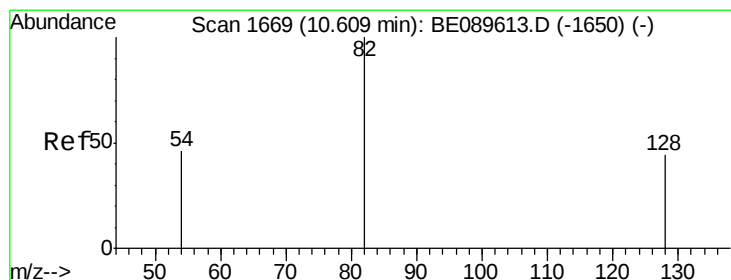
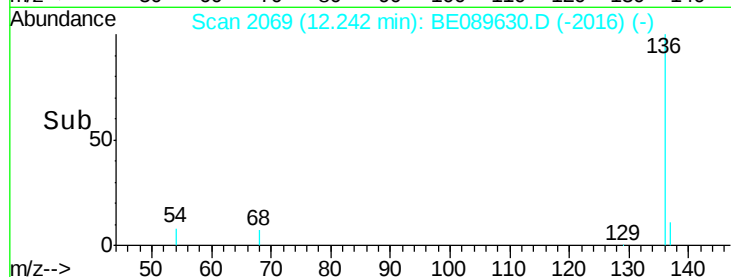
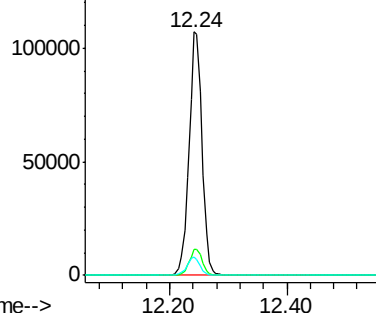
Tgt Ion:	136	Resp:	165175
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	7.7	5.3	7.9

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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



#5

Nitrobenzene-d5

Concen: 9.71 ng

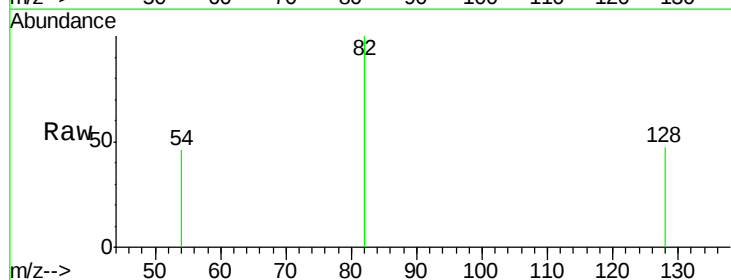
RT: 10.61 min Scan# 1668

Delta R.T. -0.00 min

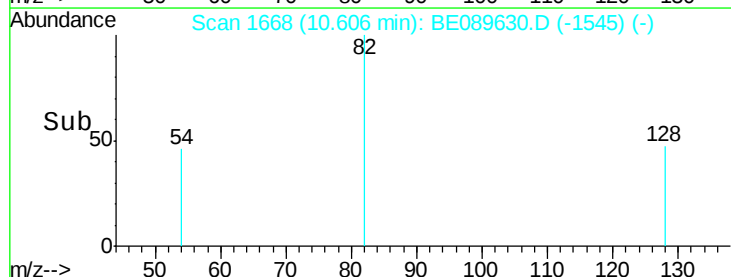
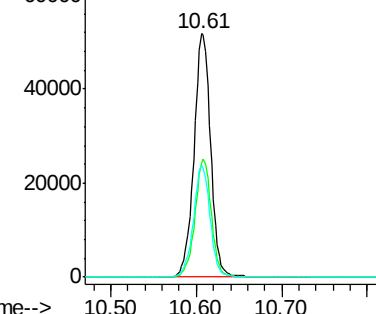
Lab File: BE089630.D

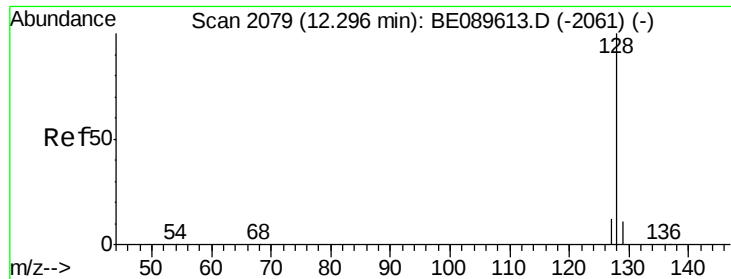
Acq: 18 Feb 2015 23:26

Tgt Ion:	82	Resp:	69718
Ion Ratio	Lower	Upper	
82	100		
128	47.1	35.5	53.3
54	45.9	37.5	56.3



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





#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

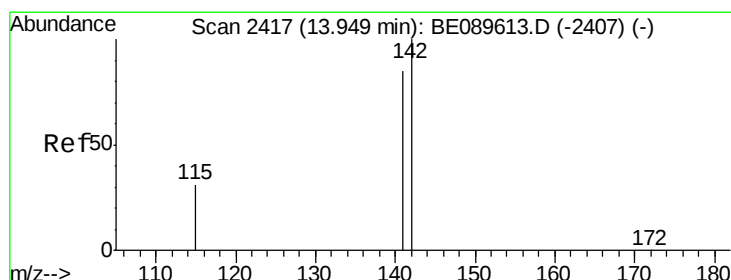
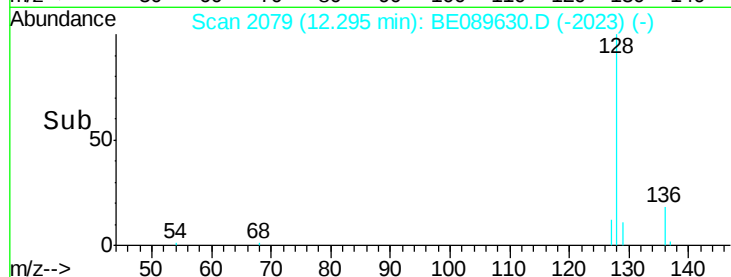
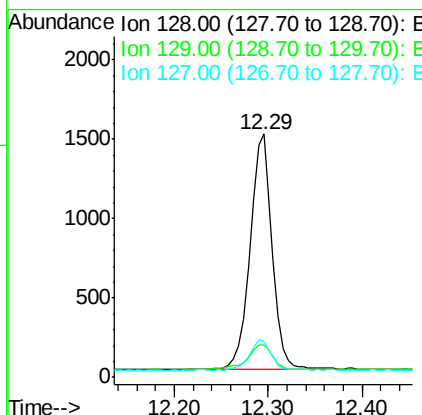
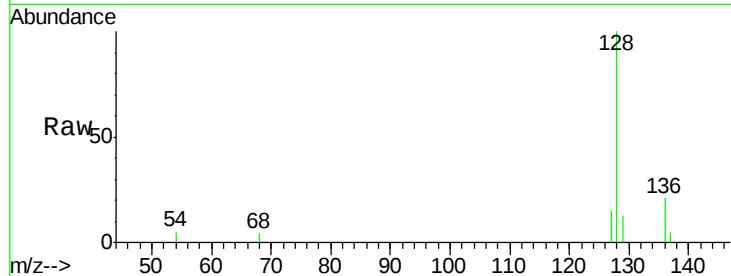
ClientSampleId :

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Tgt Ion:	128	Resp:	2438
Ion Ratio		Lower	Upper
128	100		
129	13.5	8.9	13.3#
127	14.9	9.8	14.8#

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#7

2-Methylnaphthalene

Concen: 0.06 ng

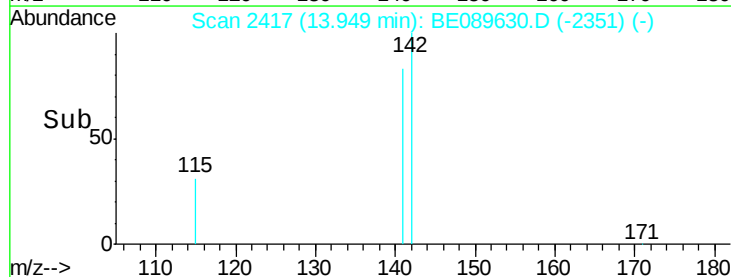
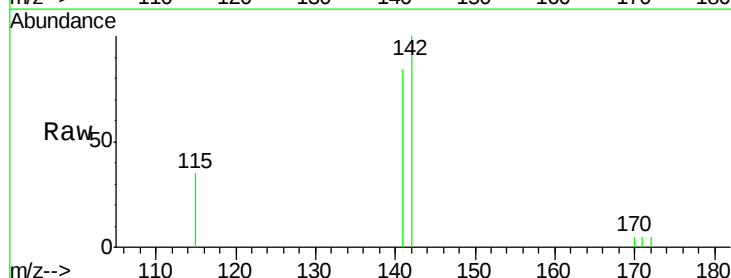
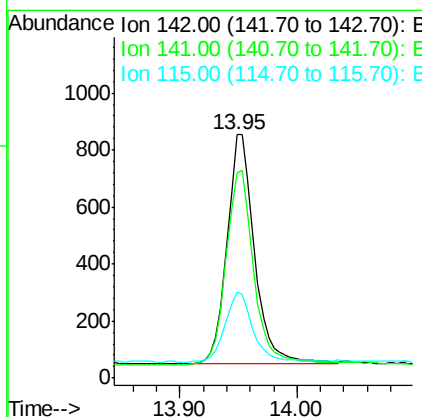
RT: 13.95 min Scan# 2417

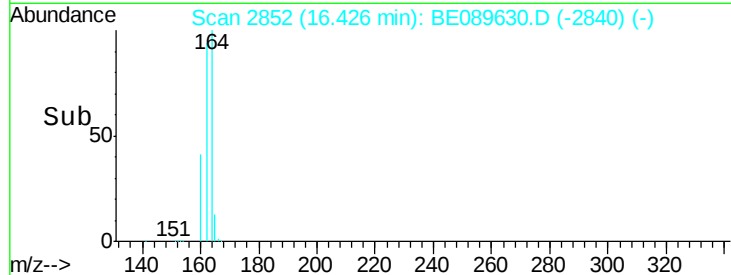
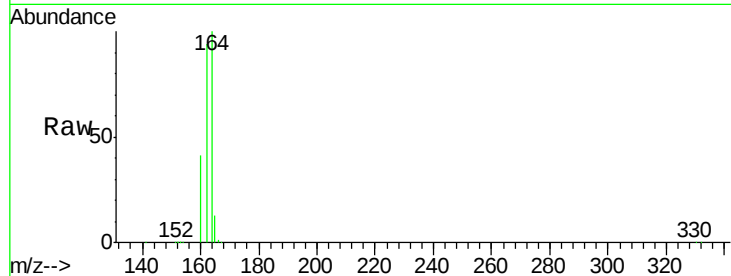
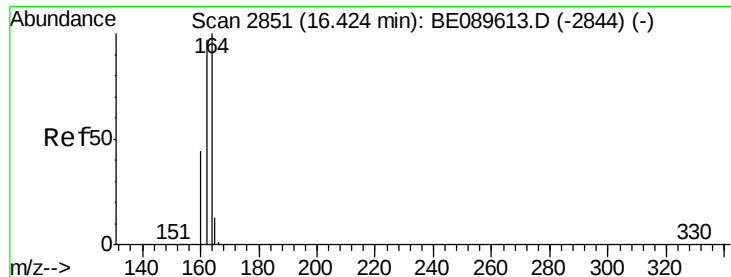
Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Tgt Ion:	142	Resp:	1318
Ion Ratio		Lower	Upper
142	100		
141	84.4	68.3	102.5
115	35.5	25.1	37.7





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.43 min Scan# 2852

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Tgt Ion:	164	Resp:	82182
Ion Ratio	Lower	Upper	
164	100		
162	93.8	77.5	116.3
160	41.3	35.5	53.3

Instrument :

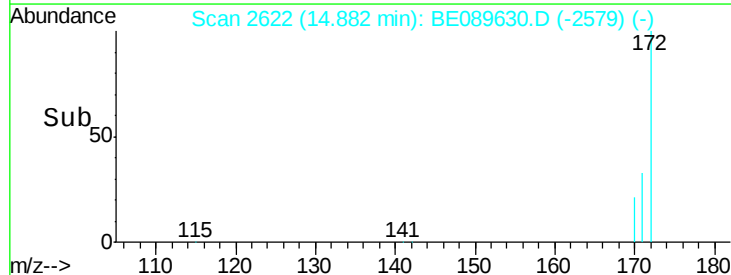
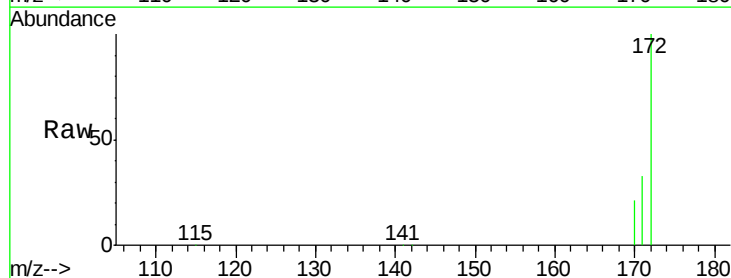
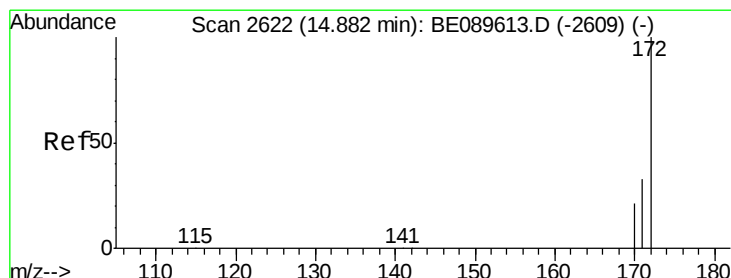
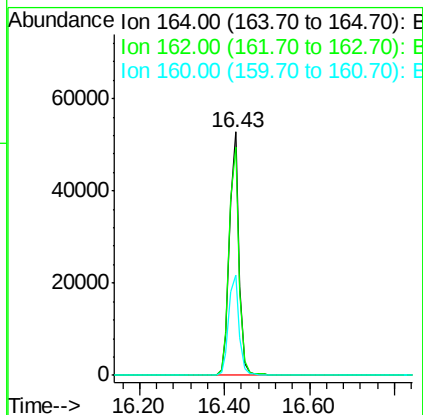
BNA_E

ClientSampleId :

MDL-02-S

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#9

2-Fluorobiphenyl

Concen: 8.80 ng

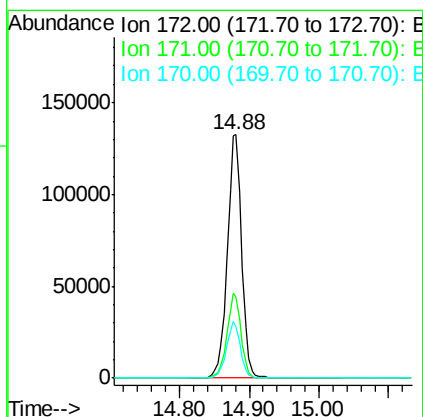
RT: 14.88 min Scan# 2622

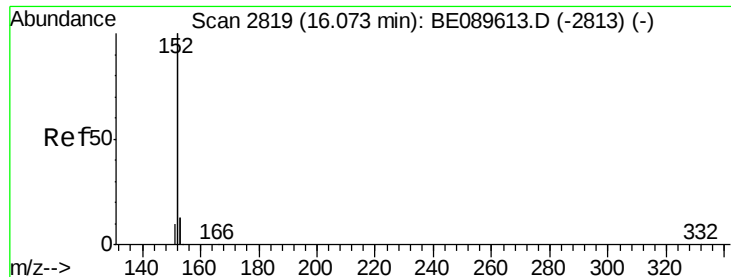
Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Tgt Ion:	172	Resp:	193779
Ion Ratio	Lower	Upper	
172	100		
171	33.3	26.9	40.3
170	21.3	17.4	26.0





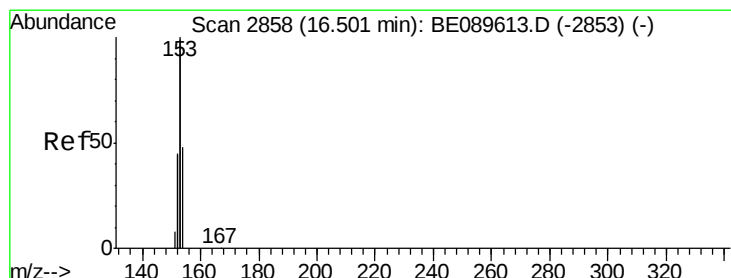
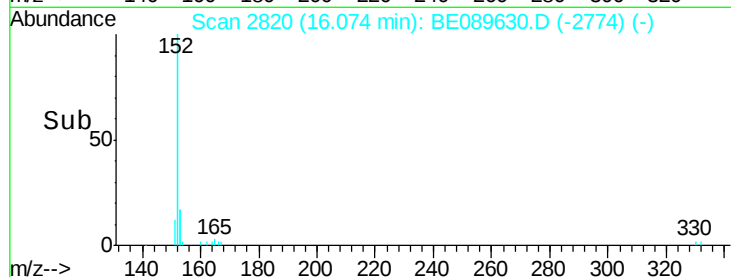
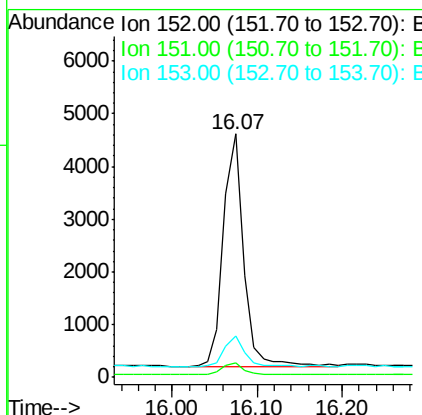
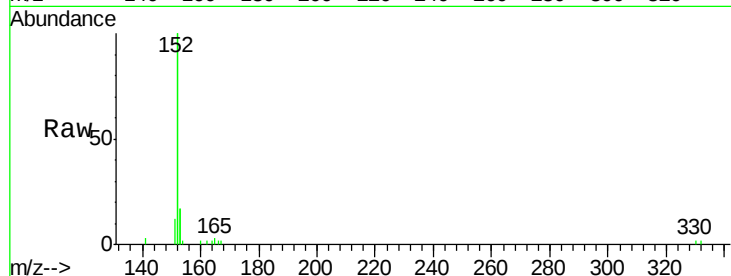
#10
Acenaphthylene
Concen: 0.05 ng
RT: 16.07 min Scan# 2820
Delta R.T. 0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion	Ratio	Lower	Upper
152	100		
151	4.9	3.9	5.9
153	13.1	10.5	15.7

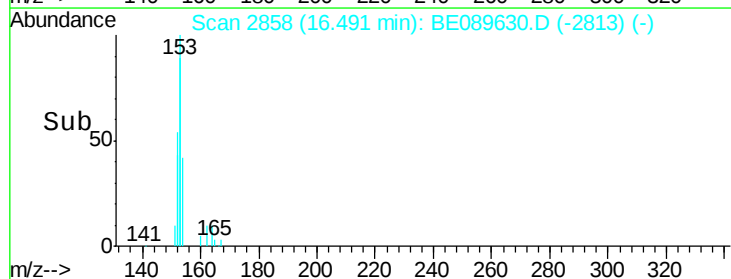
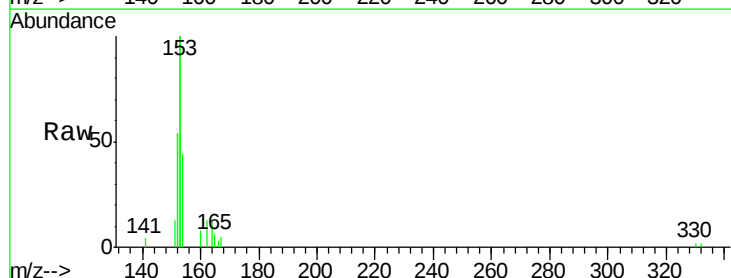
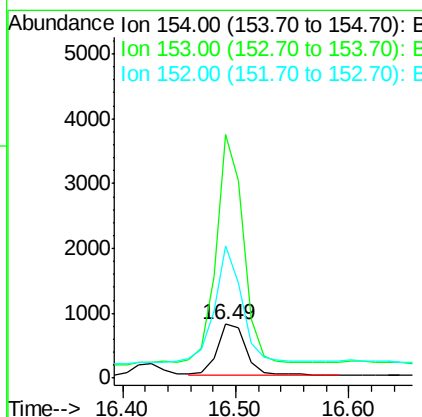
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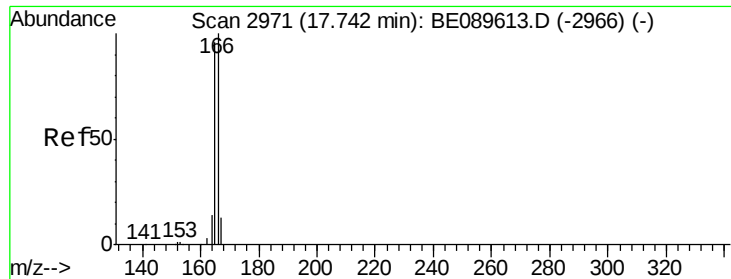
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#11
Acenaphthene
Concen: 0.06 ng
RT: 16.49 min Scan# 2858
Delta R.T. -0.01 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
154	100		
153	454.8	348.9	523.3
152	235.4	166.6	249.8





#12

Fluorene

Concen: 0.06 ng

RT: 17.74 min Scan# 2972

Delta R.T. 0.00 min

Lab File: BE089630.D

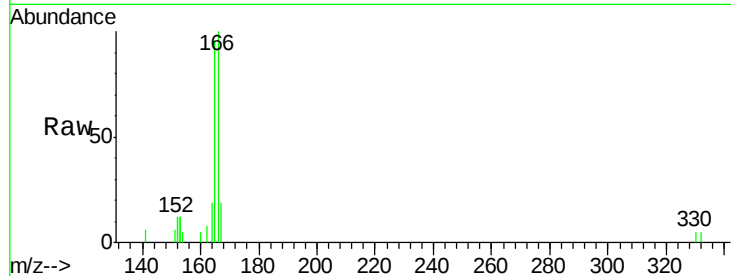
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Instrument :

BNA_E

ClientSampleId :

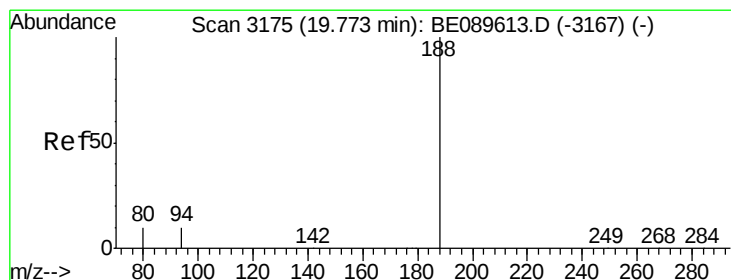
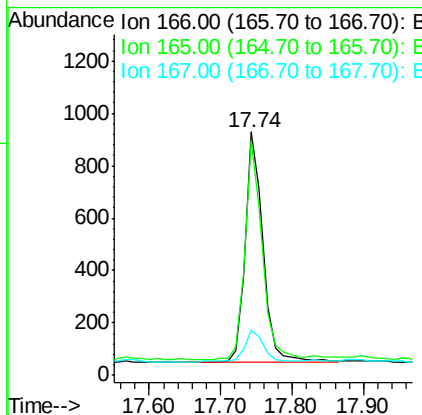
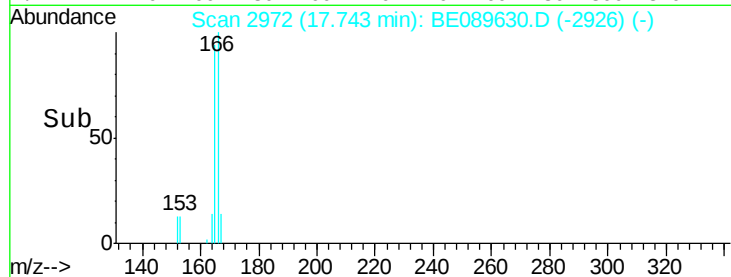
MDL-02-S



Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.9	74.7	112.1
167	15.2	10.5	15.7

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#13

Phenanthrene-d10

Concen: 5.00 ng

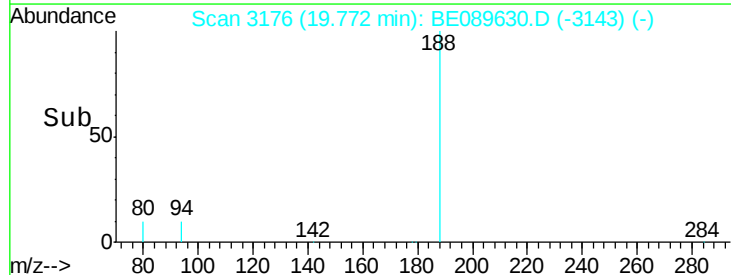
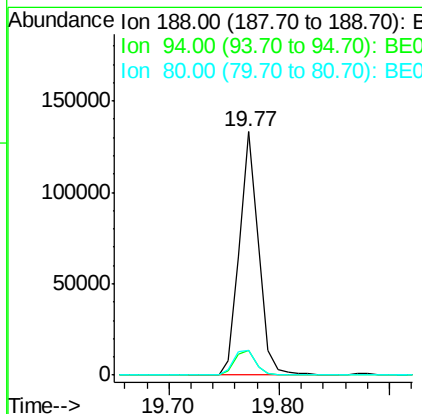
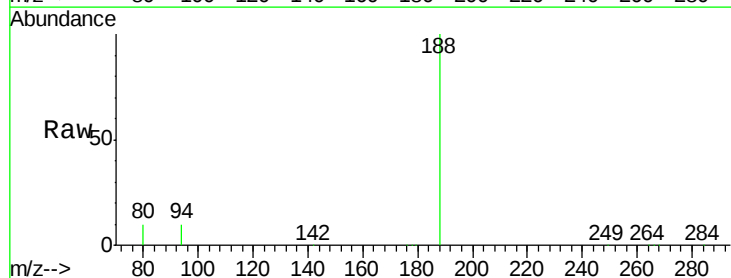
RT: 19.77 min Scan# 3176

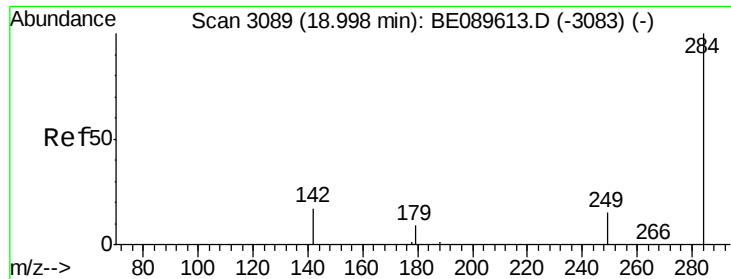
Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.4
80	10.2	8.1	12.1





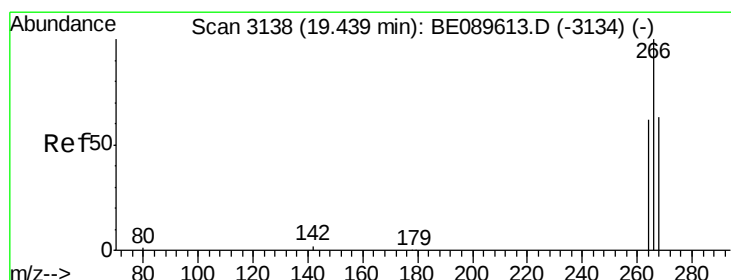
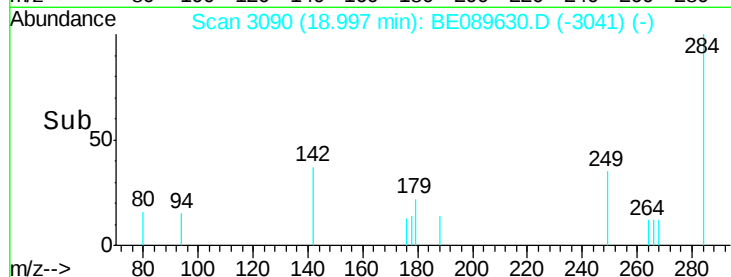
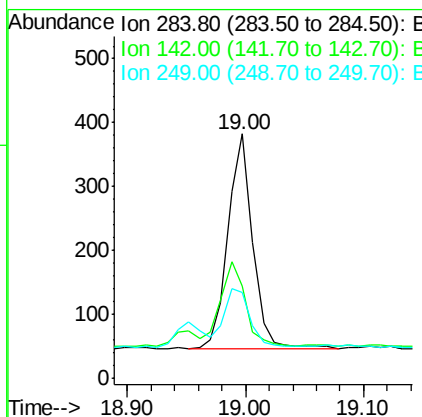
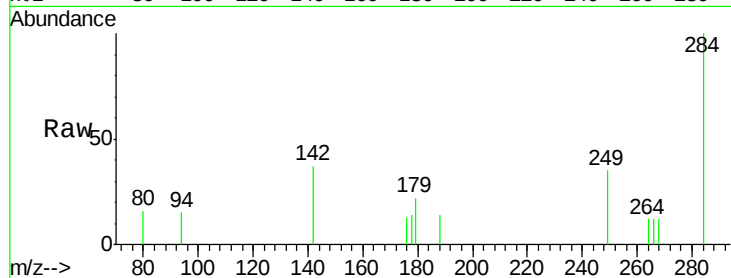
#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 19.00 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	487		
142	47.4	32.3	48.5	
249	28.5	22.3	33.5	

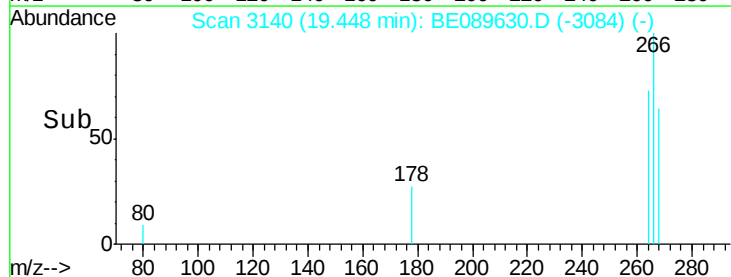
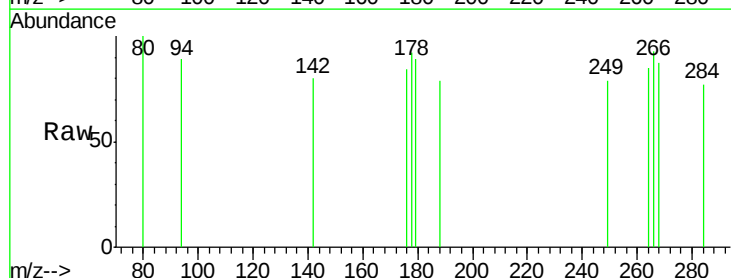
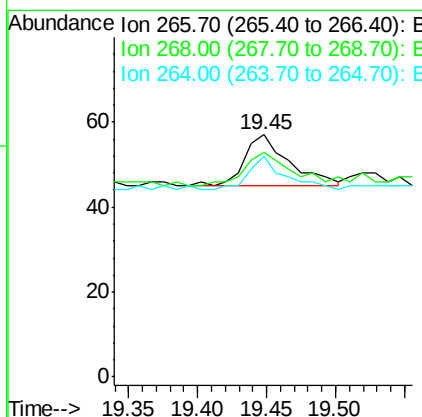
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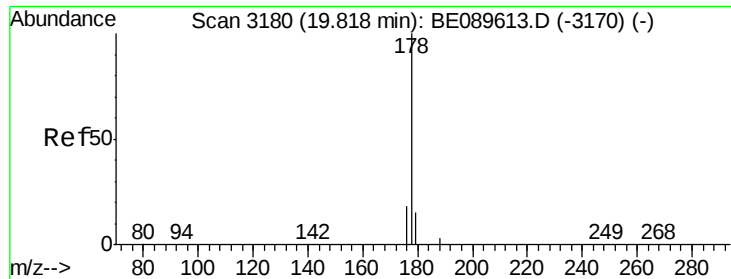
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#15
Pentachlorophenol
Concen: Below Cal
RT: 19.45 min Scan# 3140
Delta R.T. 0.01 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	27		
268	93.0	52.6	79.0#	
264	91.2	51.8	77.8#	





#16

Phenanthrene

Concen: 0.07 ng

RT: 19.82 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

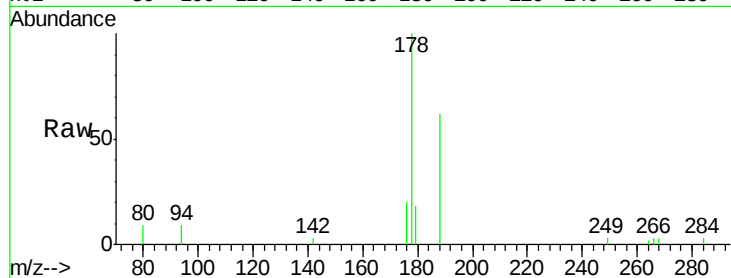
ClientSampleId :

MDL-02-S

Tgt Ion:	178	Resp:	2650
Ion Ratio	Lower	Upper	
178	100		
176	18.4	15.1	22.7
179	15.4	12.3	18.5

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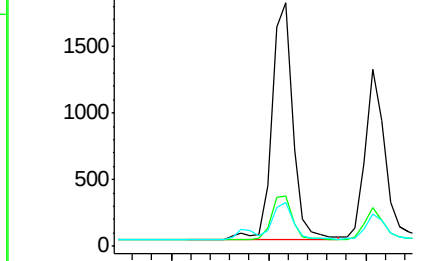
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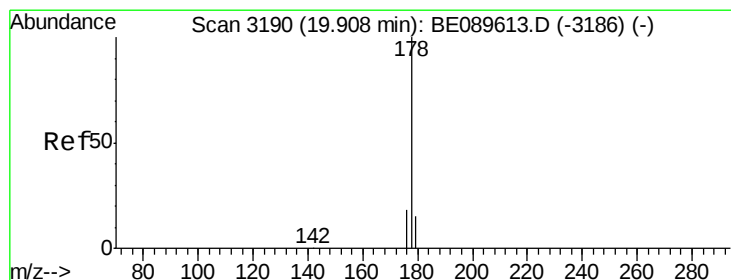
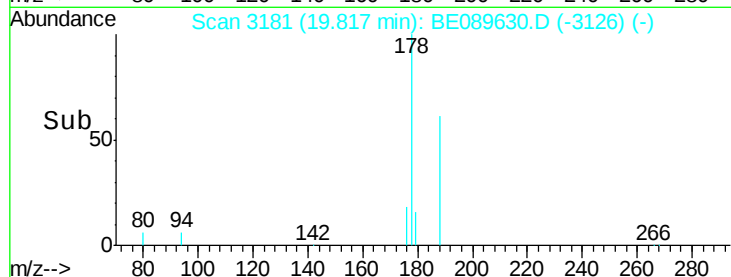
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#17

Anthracene

Concen: 0.06 ng

RT: 19.91 min Scan# 3191

Delta R.T. -0.00 min

Lab File: BE089630.D

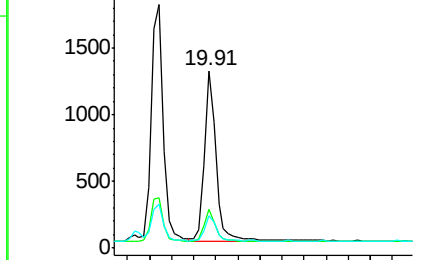
Acq: 18 Feb 2015 23:26

Tgt Ion:	178	Resp:	1878
Ion Ratio	Lower	Upper	
178	100		
176	16.6	14.6	22.0
179	14.1	12.3	18.5

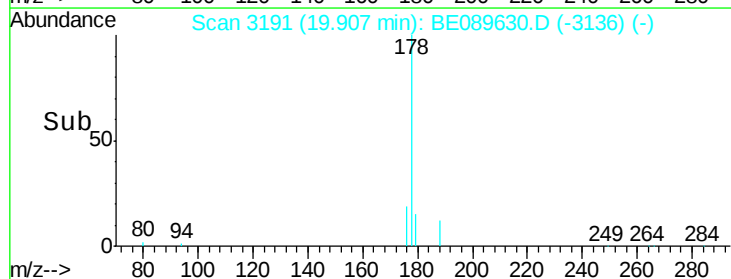
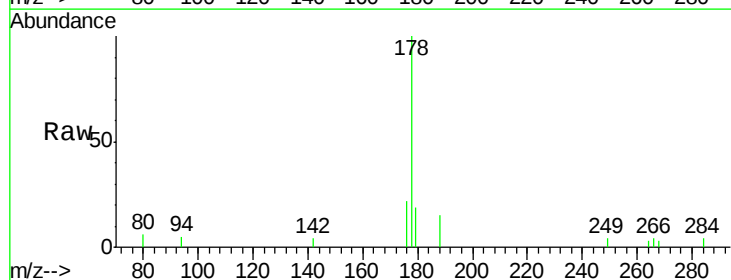
Abundance Ion 178.00 (177.70 to 178.70): E

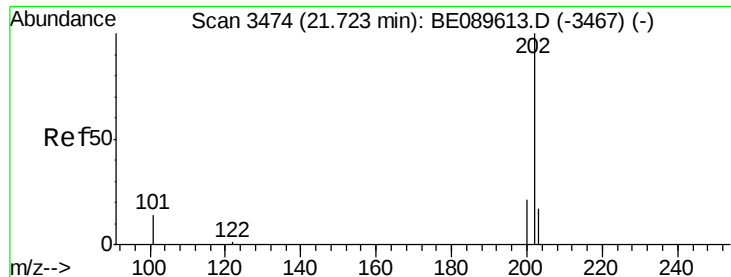
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#18

Fluoranthene

Concen: 0.05 ng

RT: 21.72 min Scan# 3476

Delta R.T. 0.00 min

Lab File: BE089630.D

Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

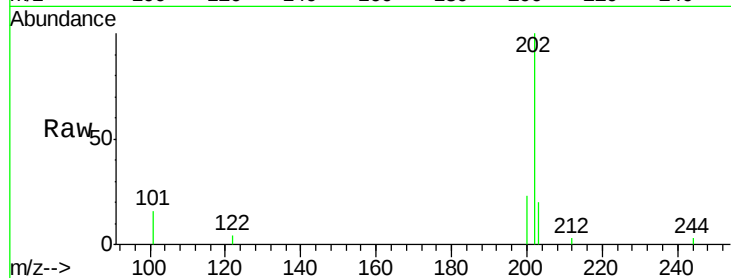
ClientSampleId :

MDL-02-S

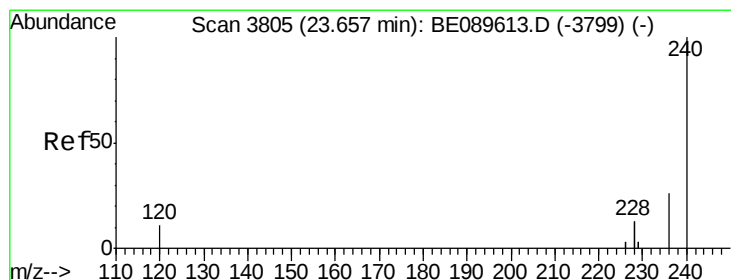
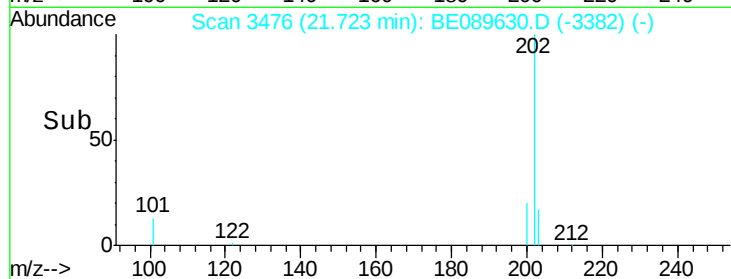
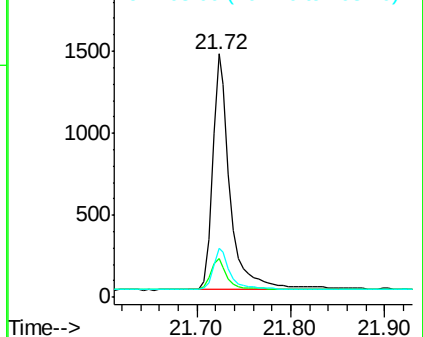
Tgt Ion:	202	Resp:	1891
Ion Ratio	Lower	Upper	
202	100		
101	12.6	10.4	15.6
203	17.0	13.9	20.9

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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

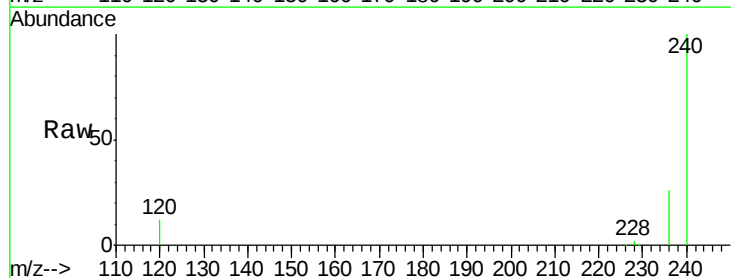
RT: 23.66 min Scan# 3807

Delta R.T. 0.00 min

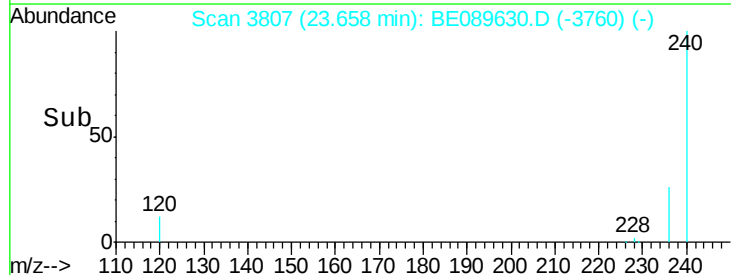
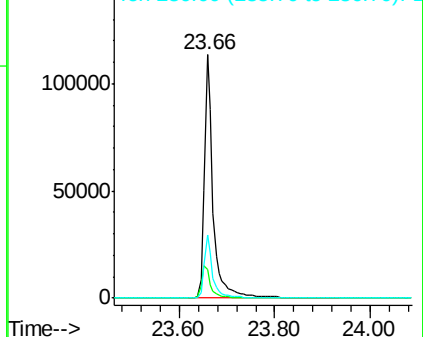
Lab File: BE089630.D

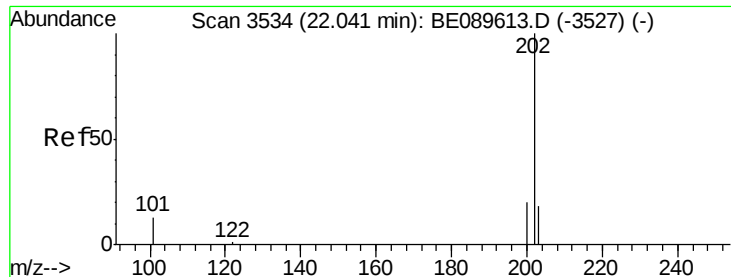
Acq: 18 Feb 2015 23:26

Tgt Ion:	240	Resp:	144678
Ion Ratio	Lower	Upper	
240	100		
120	11.8	9.0	13.4
236	26.1	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





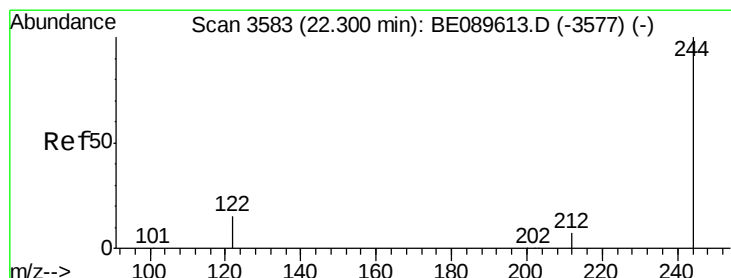
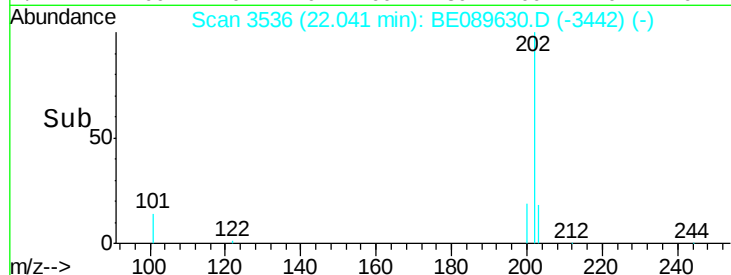
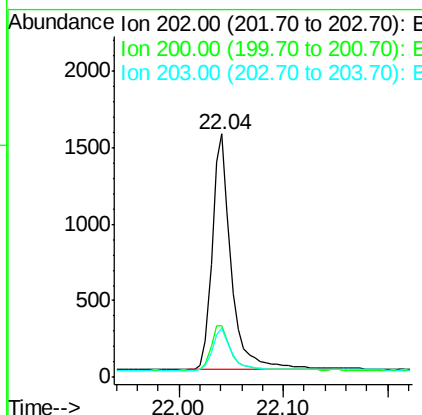
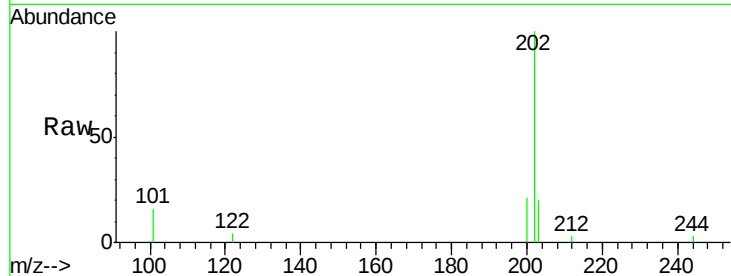
#20
 Pyrene
 Concen: 0.06 ng
 RT: 22.04 min Scan# 3536
 Delta R.T. 0.00 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.3	24.5
203	17.8	13.8	20.8

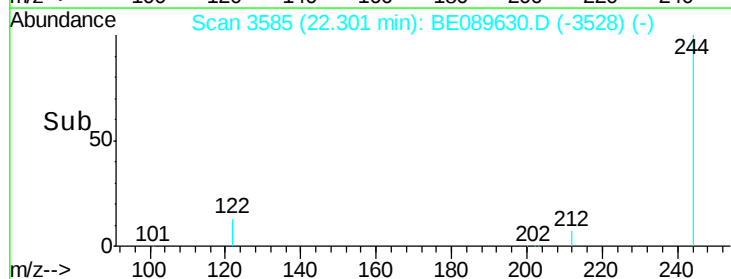
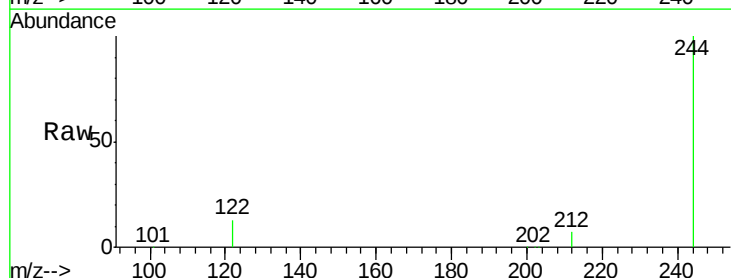
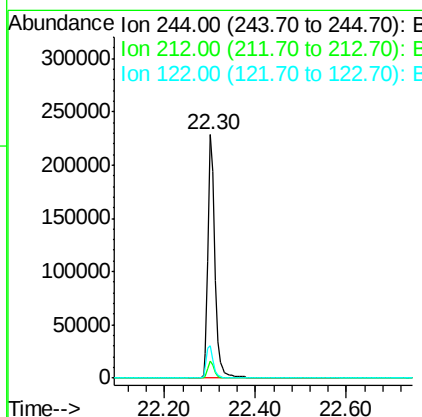
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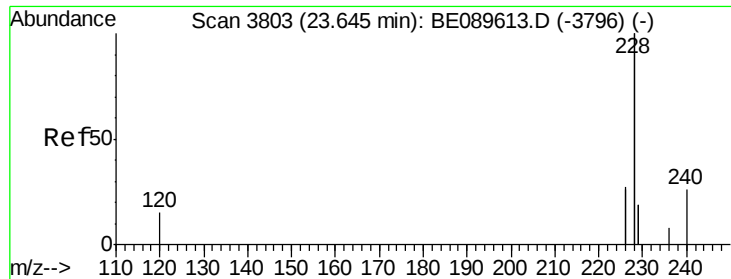
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#21
 Terphenyl-d14
 Concen: 11.27 ng
 RT: 22.30 min Scan# 3585
 Delta R.T. 0.00 min
 Lab File: BE089630.D
 Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	13.4	11.8	17.8





#22

Benzo(a)anthracene

Concen: 0.06 ng

RT: 23.65 min Scan# 3806

Delta R.T. 0.01 min

Lab File: BE089630.D

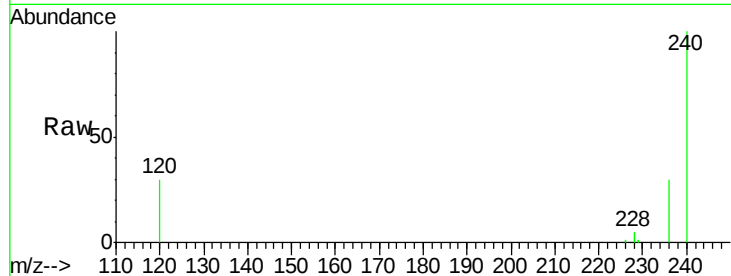
Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

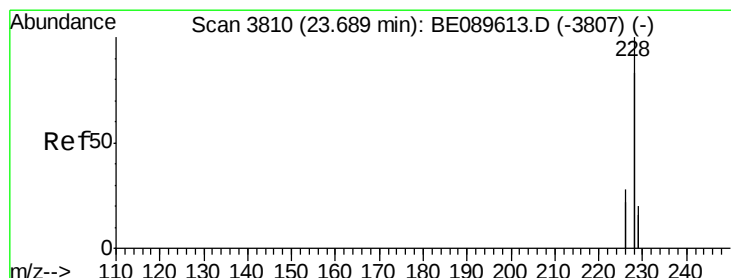
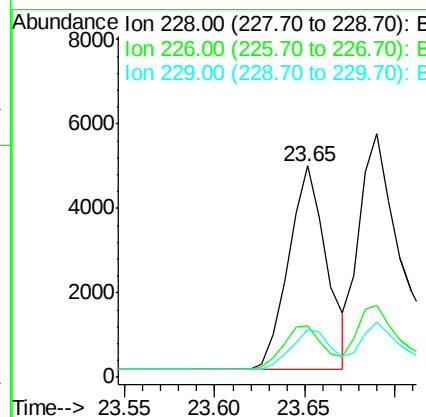
MDL-02-S



Tgt Ion	Ratio	Lower	Upper
228	100		
226	24.7	21.2	31.8
229	22.7	15.2	22.8

Manual Integrations
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#23

Chrysene

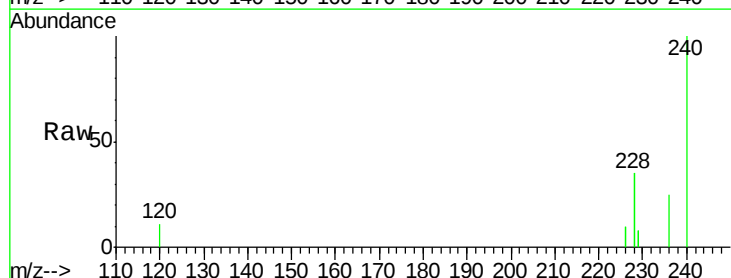
Concen: 0.08 ng

RT: 23.69 min Scan# 3812

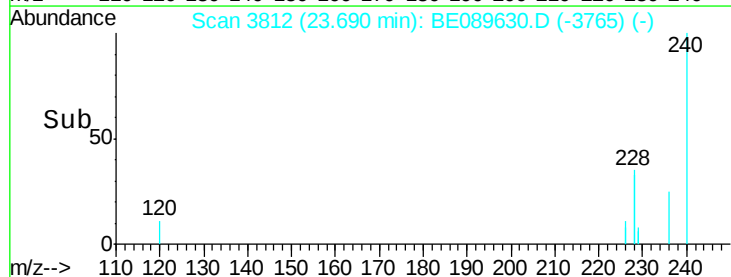
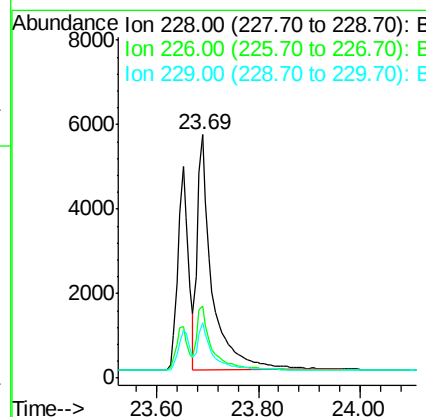
Delta R.T. 0.00 min

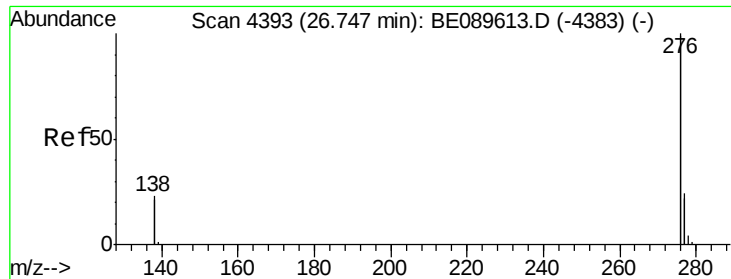
Lab File: BE089630.D

Acq: 18 Feb 2015 23:26



Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.2	33.4
229	22.6	16.0	24.0





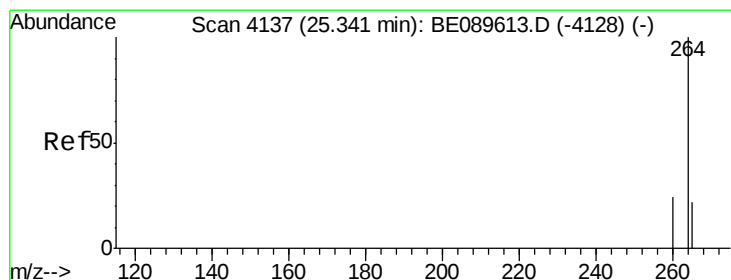
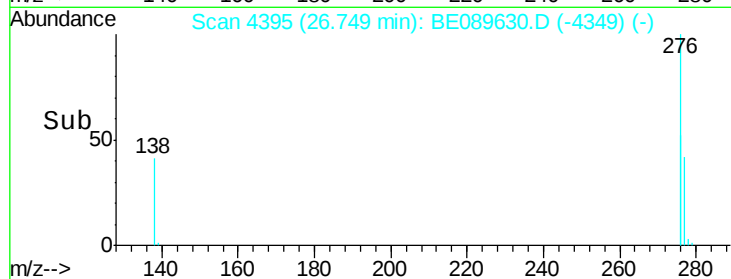
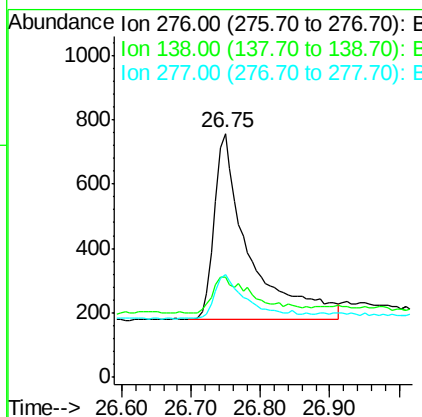
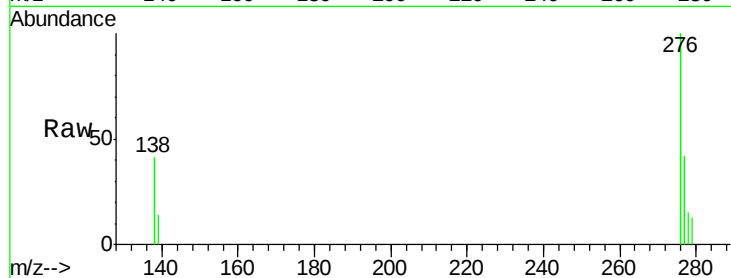
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ng
RT: 26.75 min Scan# 4395
Delta R.T. 0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.8	21.4	32.2
277	21.1	19.9	29.9

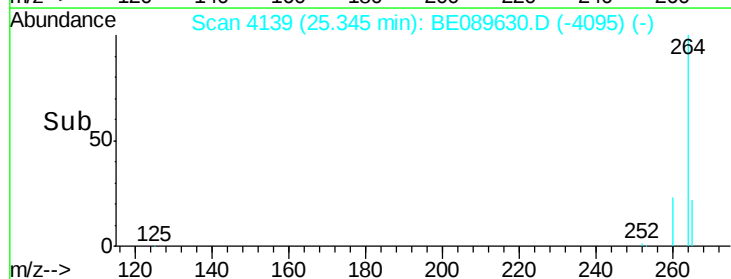
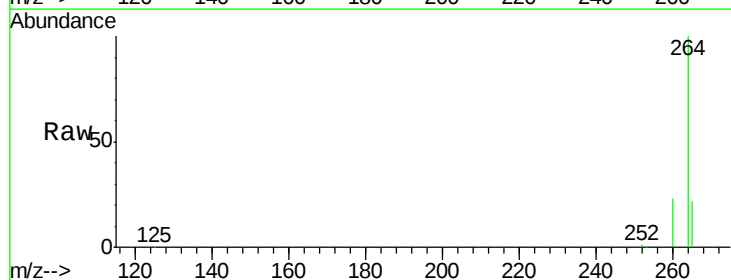
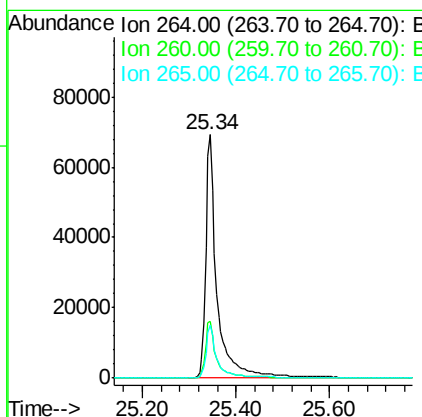
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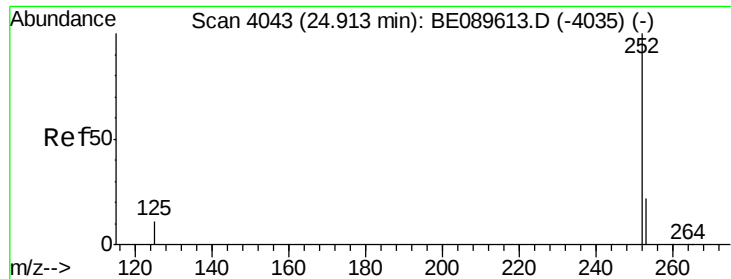
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#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4139
Delta R.T. 0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.0	28.6
265	21.9	17.4	26.0





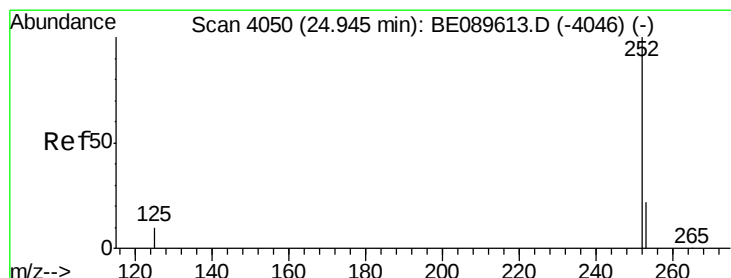
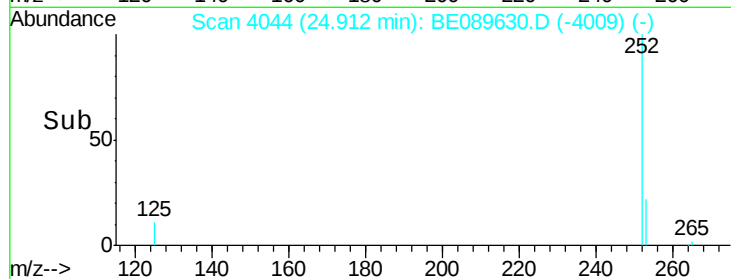
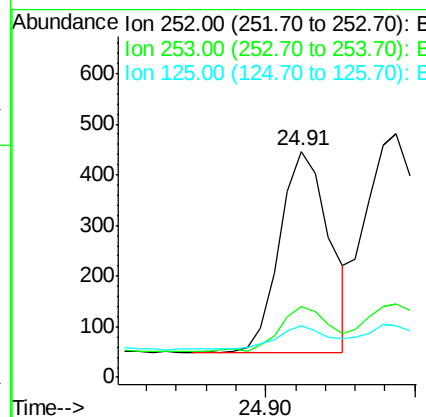
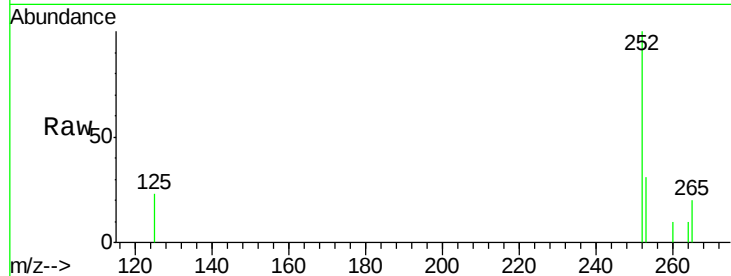
#26
Benzo(b)fluoranthene
Concen: 0.29 ng
RT: 24.91 min Scan# 4044
Delta R.T. -0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	31.3	17.6	26.4#
125	22.6	8.8	13.2#

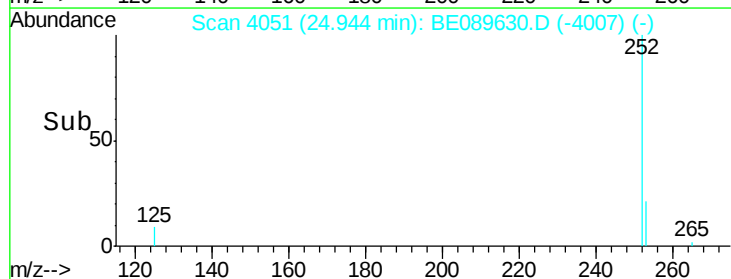
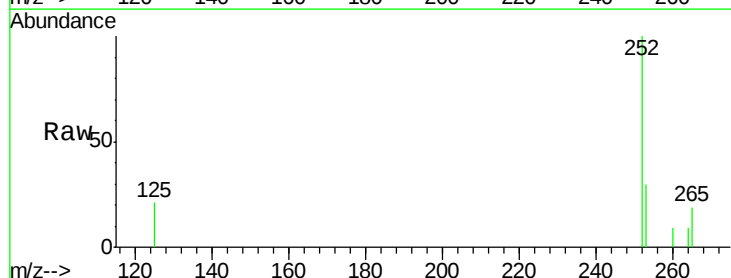
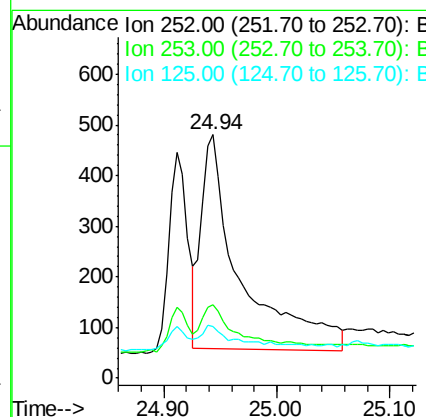
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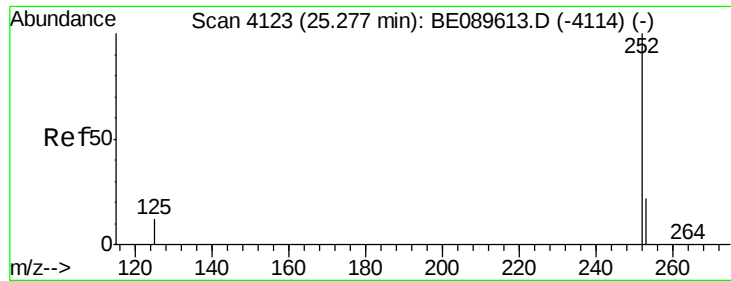
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#27
Benzo(k)fluoranthene
Concen: 0.03 ng m
RT: 24.94 min Scan# 4051
Delta R.T. -0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.4	17.7	26.5#
125	21.0	8.8	13.2#





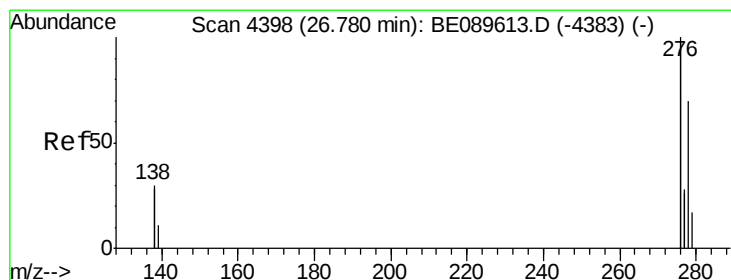
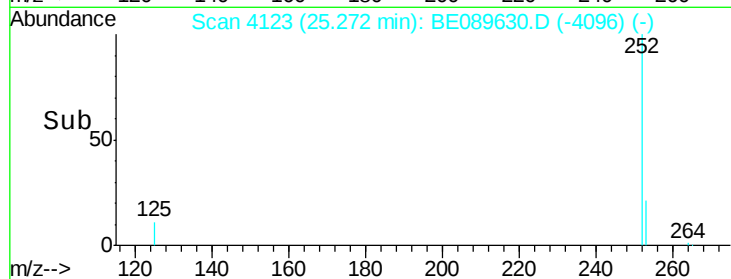
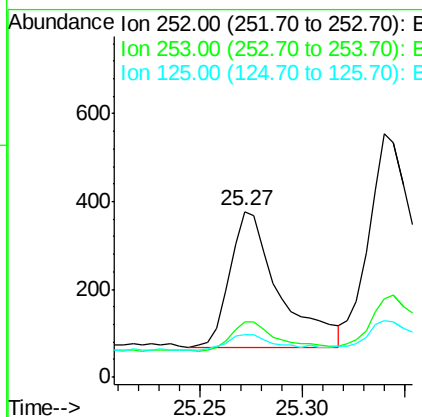
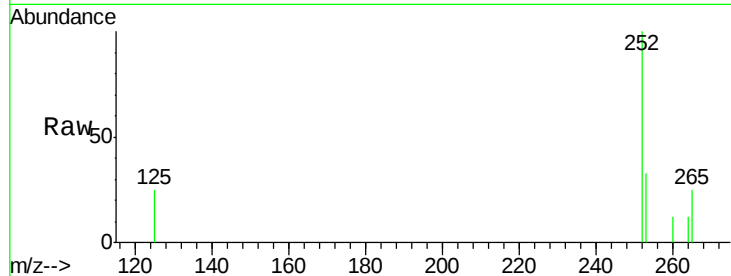
#28
Benzo(a)pyrene
Concen: 0.26 ng
RT: 25.27 min Scan# 4123
Delta R.T. -0.01 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.4	18.1	27.1#
125	25.5	9.6	14.4#

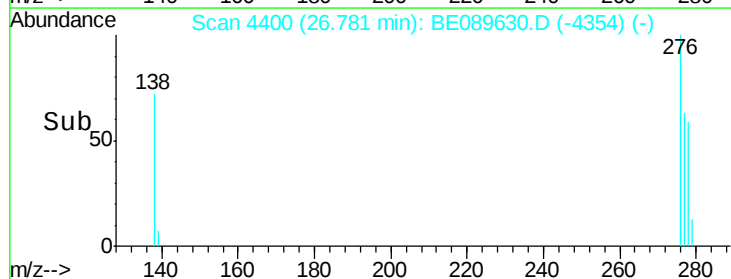
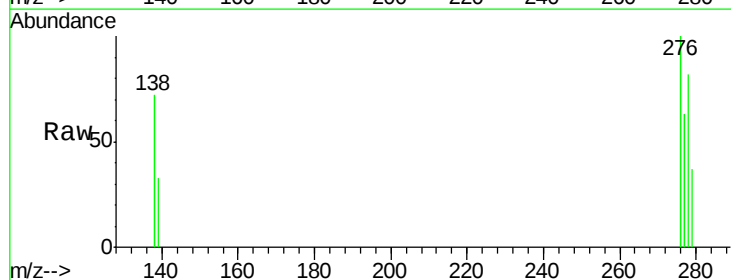
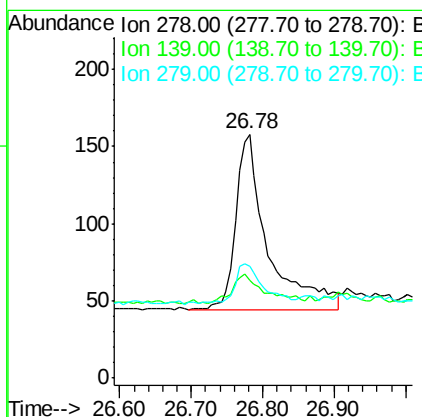
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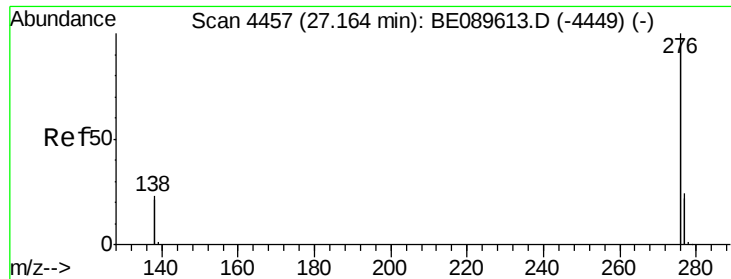
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#29
Dibenzo(a,h)anthracene
Concen: 0.24 ng
RT: 26.78 min Scan# 4400
Delta R.T. 0.00 min
Lab File: BE089630.D
Acq: 18 Feb 2015 23:26

Tgt Ion	Ratio	Lower	Upper
278	100		
139	39.9	13.7	20.5#
279	45.6	19.7	29.5#





#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4458

Delta R.T. -0.00 min

Lab File: BE089630.D

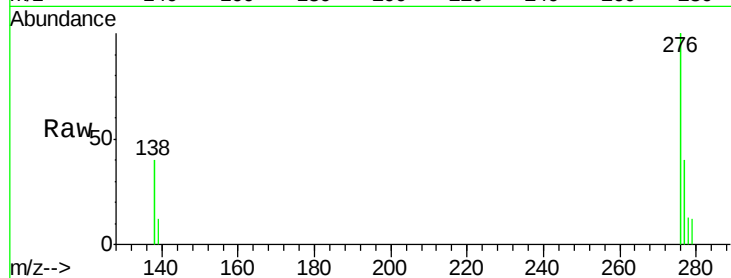
Acq: 18 Feb 2015 23:26

Instrument :

BNA_E

ClientSampleId :

MDL-02-S



Tgt	Ion	Ratio	Lower	Upper
276	100			
277	40.2	19.1	28.7#	
138	40.5	18.7	28.1#	

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