

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088131.D
 Acq On : 21 Oct 2014 8:32
 Operator : TP/JJ
 Sample : F4244-10
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-GW12-1014A

Manual Integrations
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Quant Time: Oct 21 14:48:55 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	39695	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	147212	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	66681	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	119719	5.00	ng	0.00
16) Chrysene-d12	18.38	240	85710	5.00	ng	0.00
22) Perylene-d12	21.44	264	82195	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	85271	8.04	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	140008	7.60	ng	0.00
18) Terphenyl-d14	16.15	244	118699	8.61	ng	0.00
Target Compounds						Qvalue
15) Fluoranthene	15.25	202	1589	0.07	ng	99
17) Pyrene	15.70	202	1796	0.08	ng	96
19) Benzo(a)anthracene	18.36	228	6959	0.09	ng	# 93
20) Chrysene	18.44	228	7406	0.10	ng	# 93
21) Indeno(1,2,3-cd)pyrene	23.63	276	5166m	0.06	ng	
23) Benzo(b)fluoranthene	20.68	252	1295	0.07	ng	# 84
24) Benzo(k)fluoranthene	20.74	252	1415	0.07	ng	# 83
25) Benzo(a)pyrene	21.32	252	1022	0.06	ng	# 78
26) Dibenzo(a,h)anthracene	23.73	278	912	0.05	ng	# 74
27) Benzo(g,h,i)perylene	24.26	276	4514	0.06	ng	# 79

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

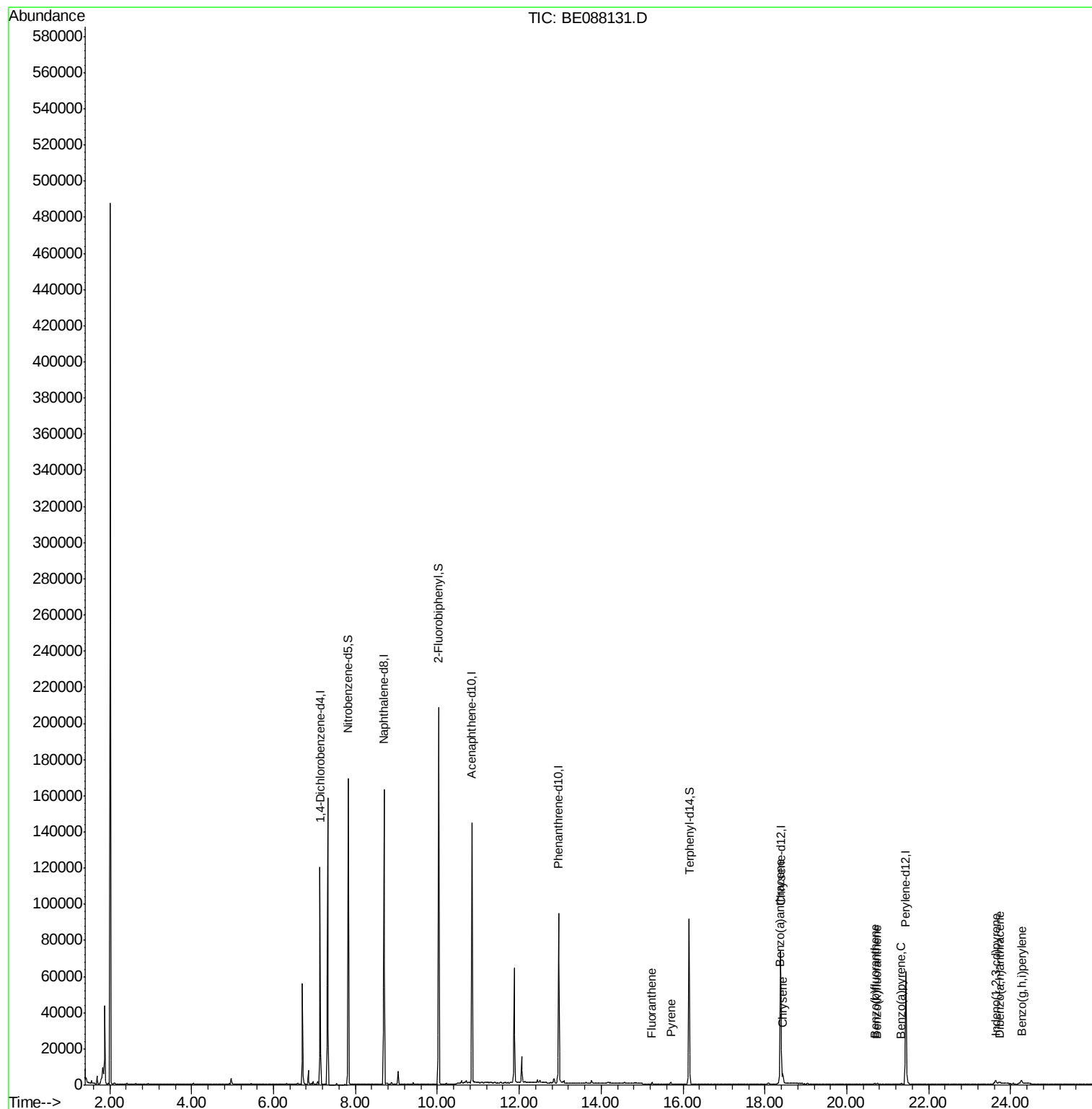
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
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Misc :
ALS Vial : 16 Sample Multiplier: 1

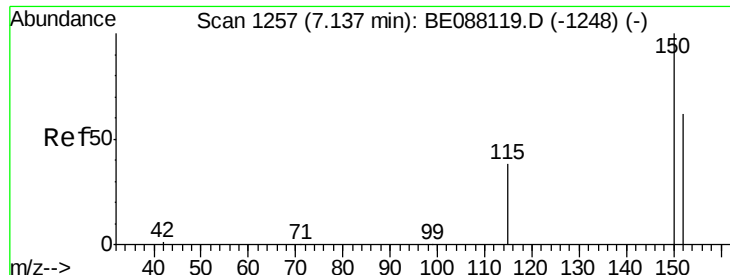
Instrument :
BNA_E
ClientSampleId :
YS19-GW12-1014A

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BE088131.D

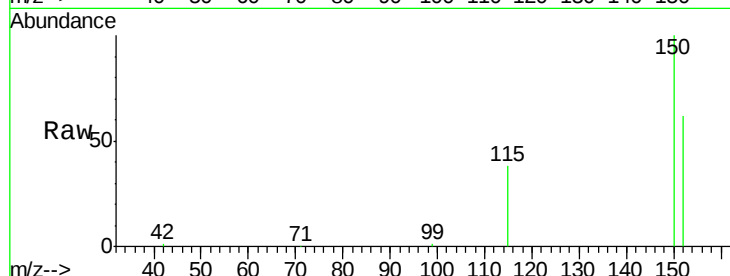
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 39695

Ion Ratio Lower Upper

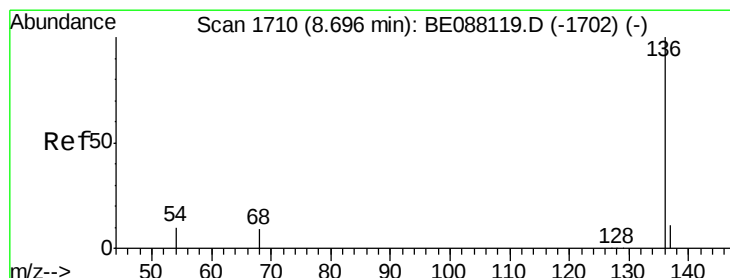
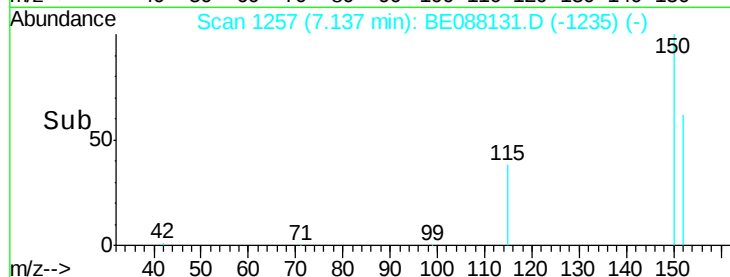
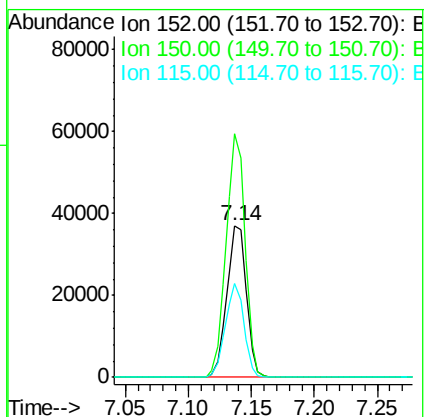
152 100

150 160.5 129.2 193.8

115 61.6 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

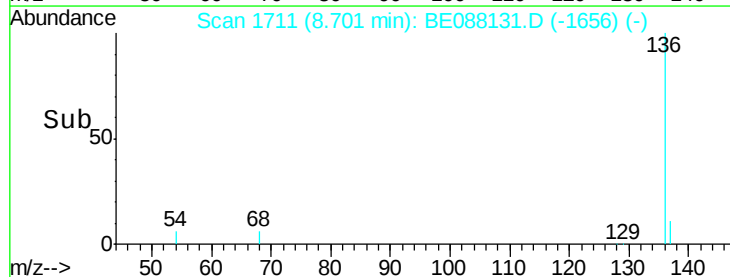
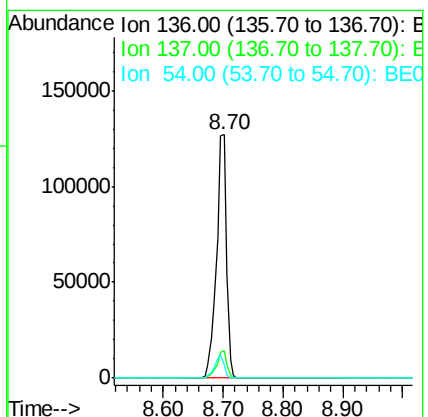
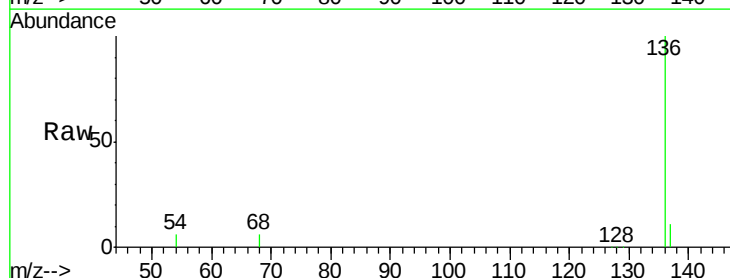
Tgt Ion:136 Resp: 147212

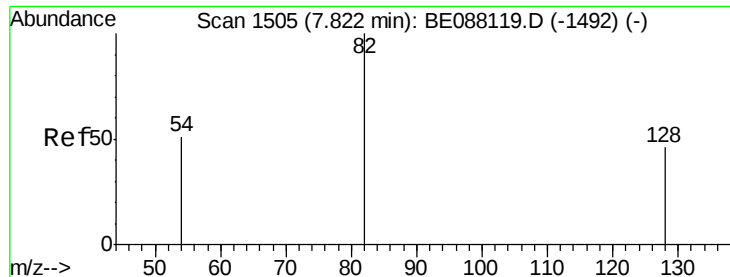
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 5.6 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 8.04 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088131.D

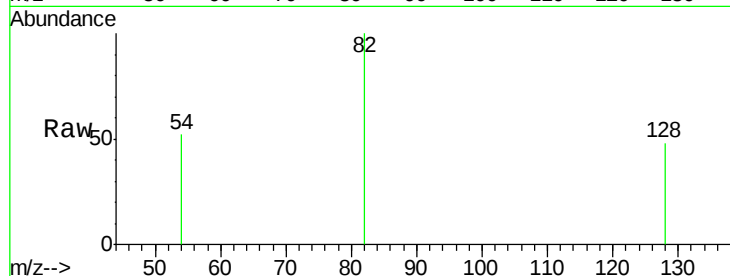
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

YS19-GW12-1014A



Tgt Ion: 82 Resp: 85271

Ion Ratio Lower Upper

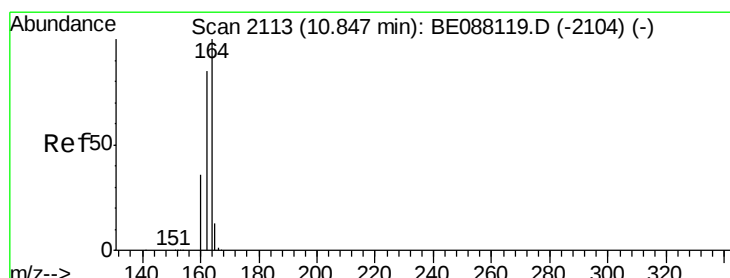
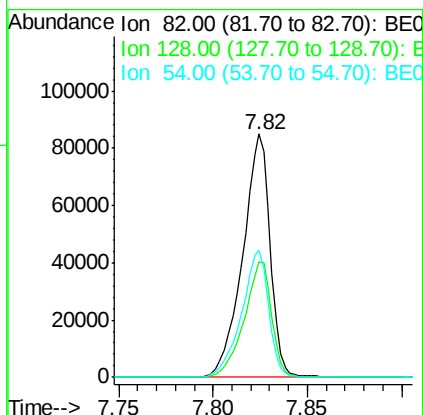
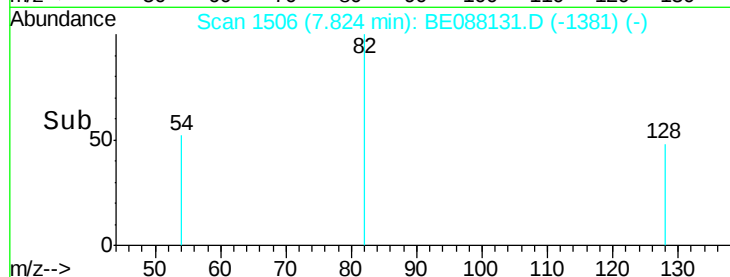
82 100

128 47.7 37.1 55.7

54 52.0 41.1 61.7

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#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

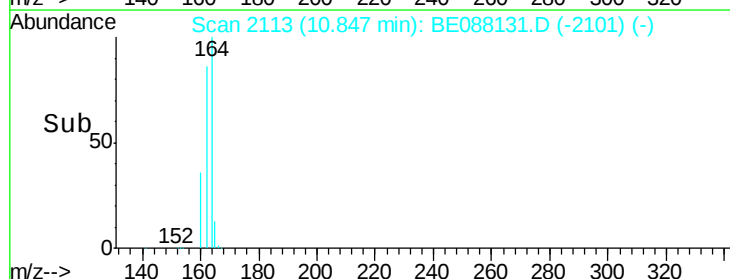
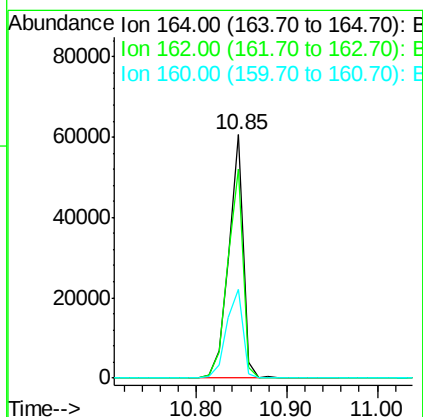
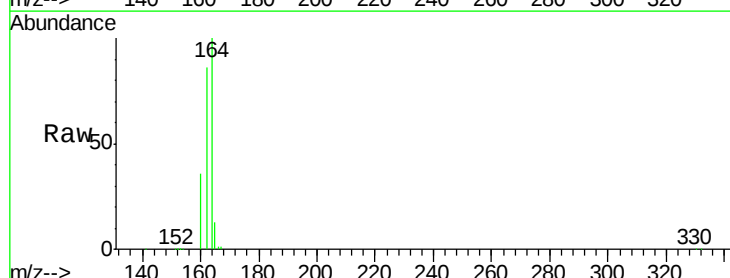
Tgt Ion: 164 Resp: 66681

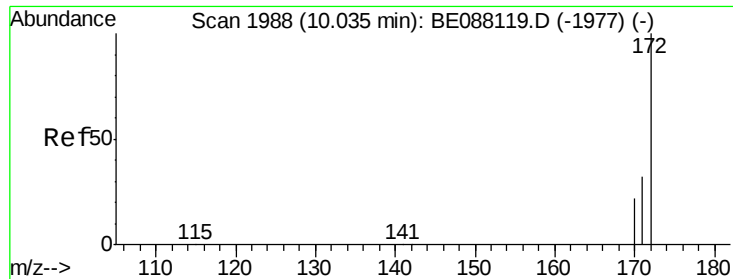
Ion Ratio Lower Upper

164 100

162 85.9 68.3 102.5

160 36.3 28.7 43.1





#8

2-Fluorobiphenyl

Concen: 7.60 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088131.D

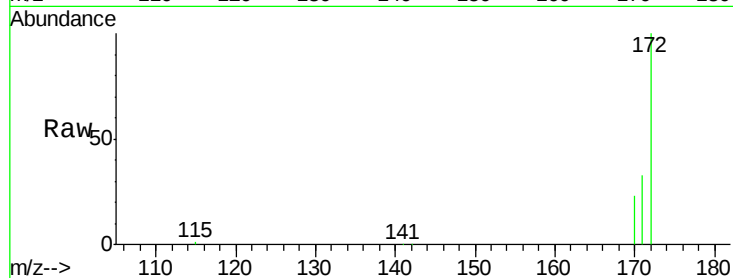
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

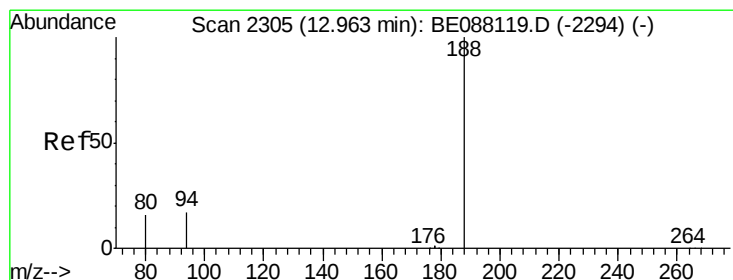
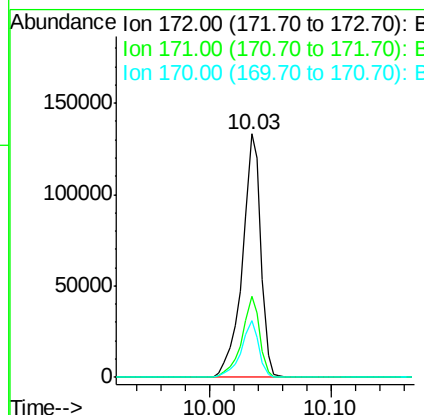
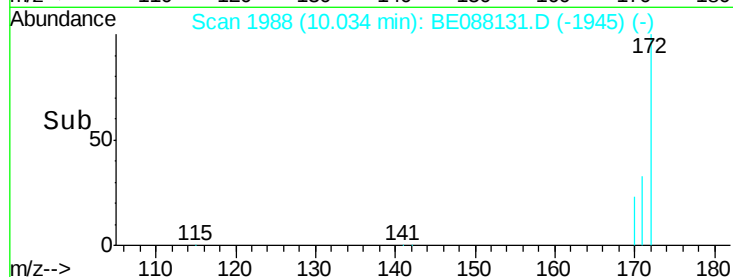
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Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.1	25.4	38.2
170	23.1	17.4	26.2

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#12

Phenanthrene-d10

Concen: 5.00 ng

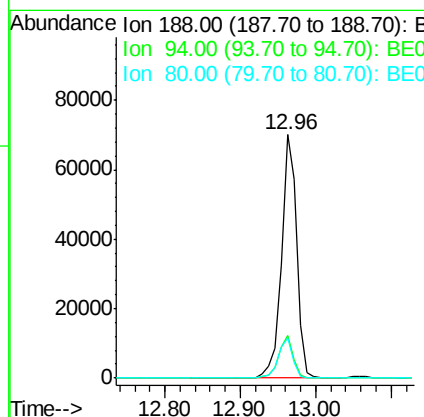
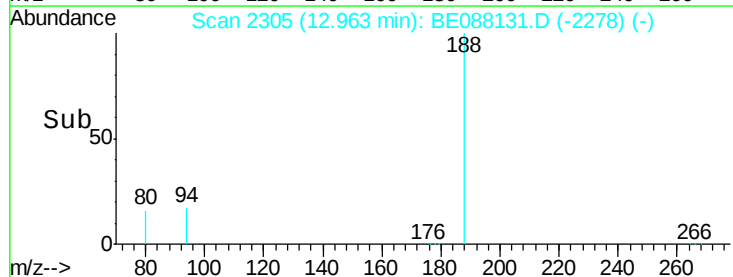
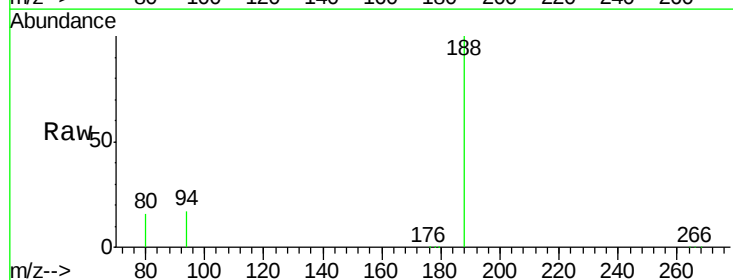
RT: 12.96 min Scan# 2305

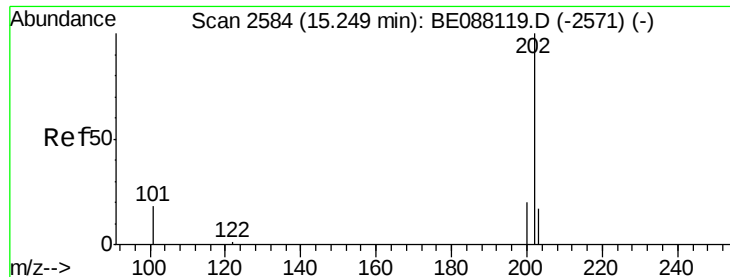
Delta R.T. -0.00 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

Tgt Ion	Ratio	Lower	Upper
188	100		
94	17.3	13.9	20.9
80	16.2	12.9	19.3





#15

Fluoranthene

Concen: 0.07 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088131.D

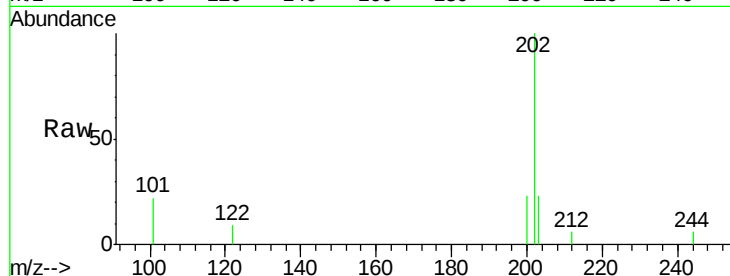
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

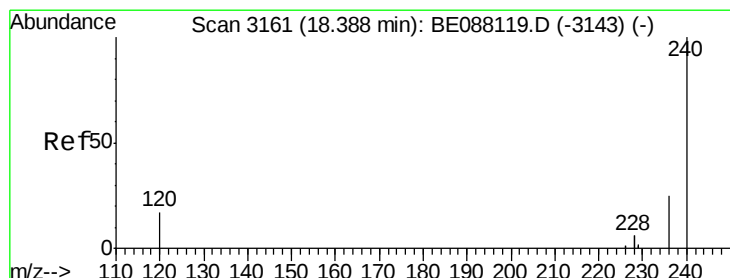
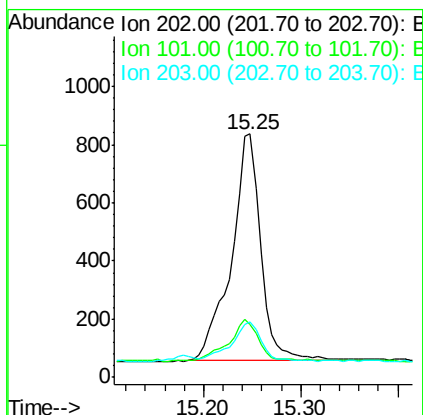
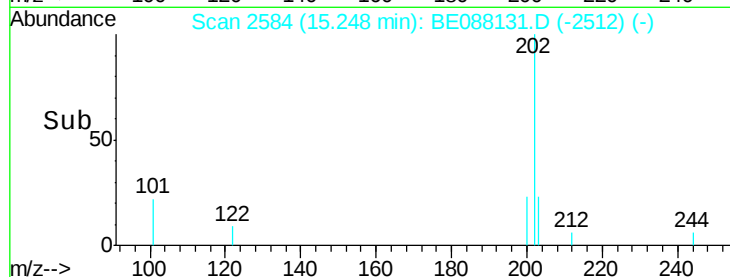
YS19-GW12-1014A



Tgt Ion:	202	Resp:	1589
Ion Ratio	Lower	Upper	
202	100		
101	17.5	14.8	22.2
203	16.7	13.5	20.3

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#16

Chrysene-d12

Concen: 5.00 ng

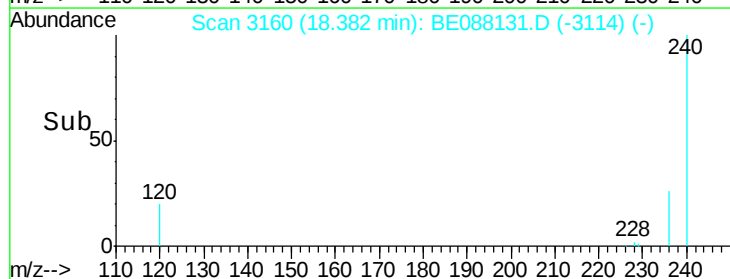
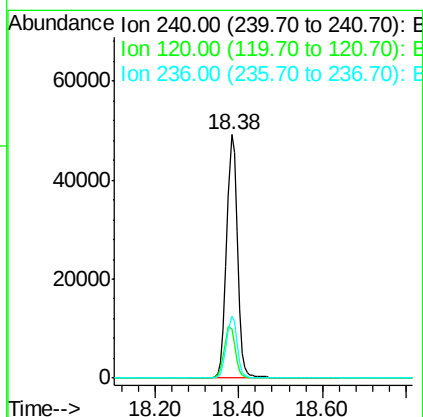
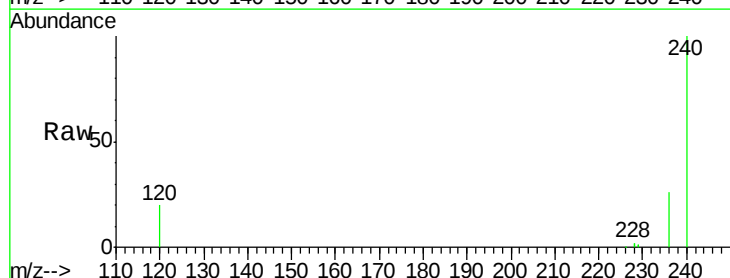
RT: 18.38 min Scan# 3160

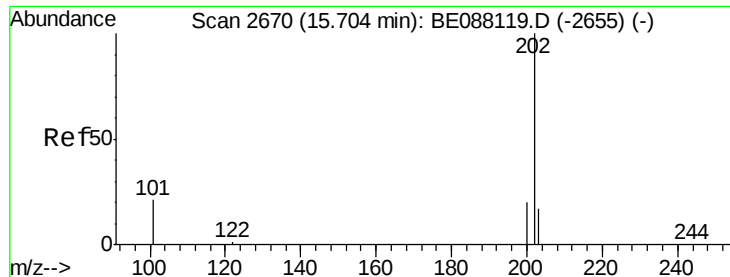
Delta R.T. -0.01 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

Tgt Ion:	240	Resp:	85710
Ion Ratio	Lower	Upper	
240	100		
120	20.3	13.9	20.9
236	25.7	19.9	29.9





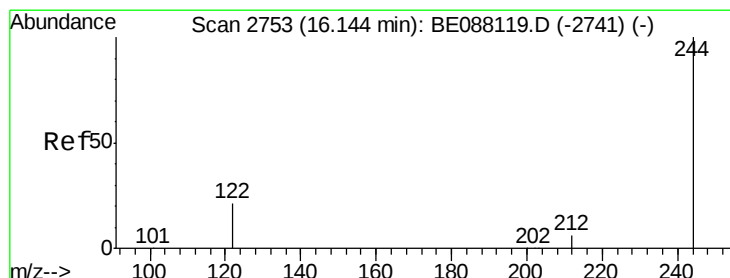
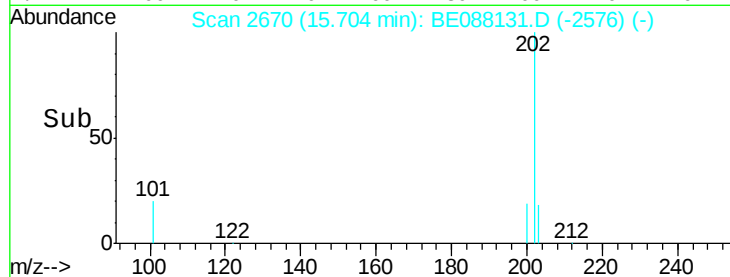
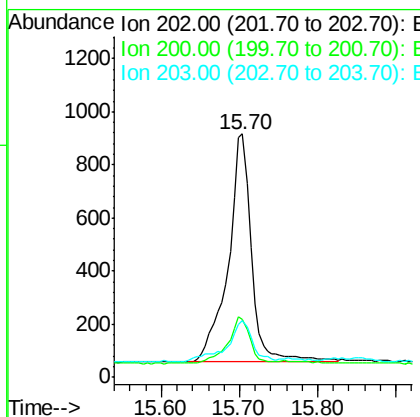
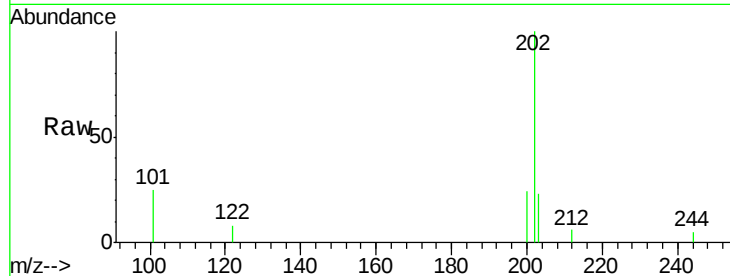
#17
 Pyrene
 Concen: 0.08 ng
 RT: 15.70 min Scan# 2670
 Delta R.T. -0.00 min
 Lab File: BE088131.D
 Acq: 21 Oct 2014 8:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-GW12-1014A

Tgt Ion:	202	Resp:	1796
Ion Ratio	Lower	Upper	
202	100		
200	18.9	16.1	24.1
203	19.5	13.9	20.9

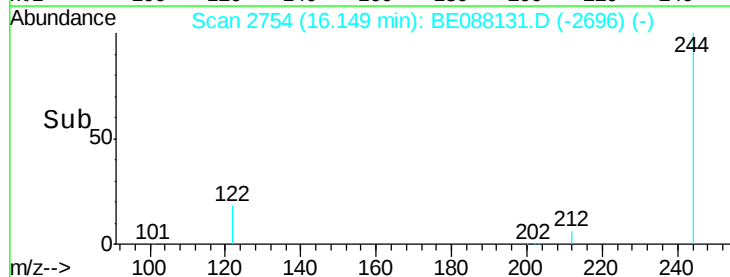
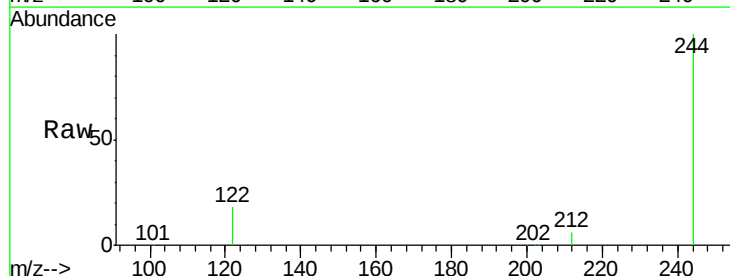
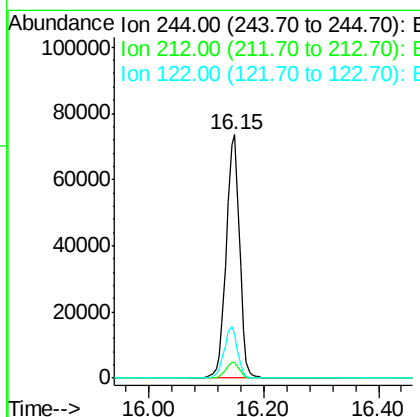
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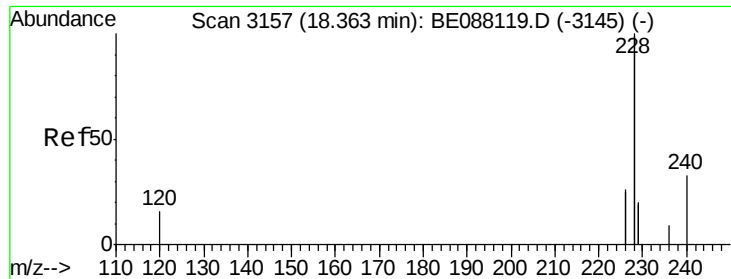
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#18
 Terphenyl-d14
 Concen: 8.61 ng
 RT: 16.15 min Scan# 2754
 Delta R.T. 0.00 min
 Lab File: BE088131.D
 Acq: 21 Oct 2014 8:32

Tgt Ion:	244	Resp:	118699
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	18.0	17.5	26.3





#19

Benzo(a)anthracene

Concen: 0.09 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088131.D

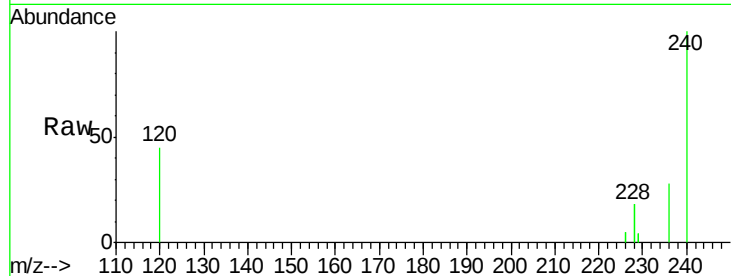
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

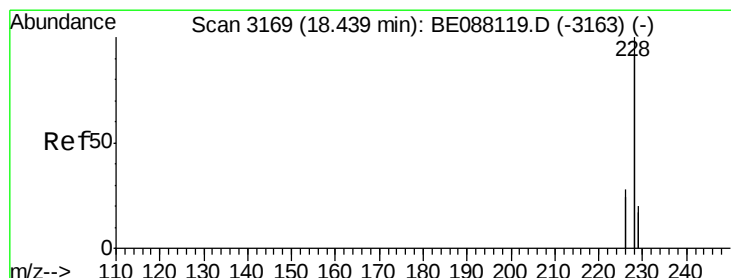
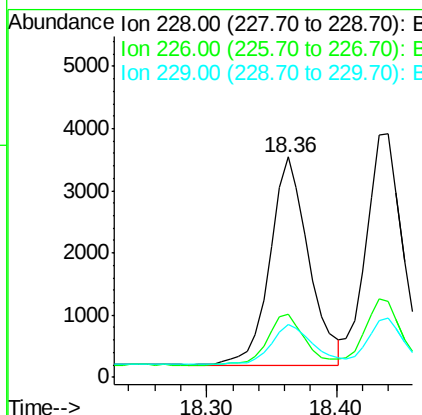
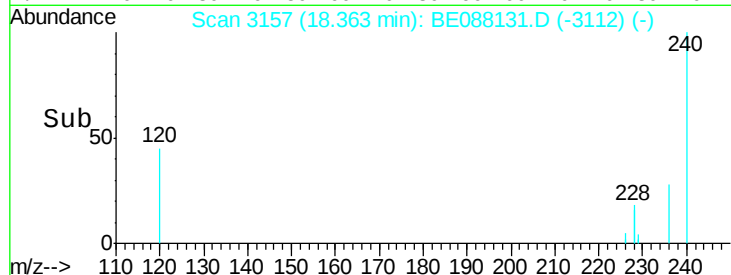
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Tgt Ion:	228	Resp:	6959
Ion Ratio	Lower	Upper	
228	100		
226	28.4	20.8	31.2
229	24.0	15.6	23.4#

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#20

Chrysene

Concen: 0.10 ng

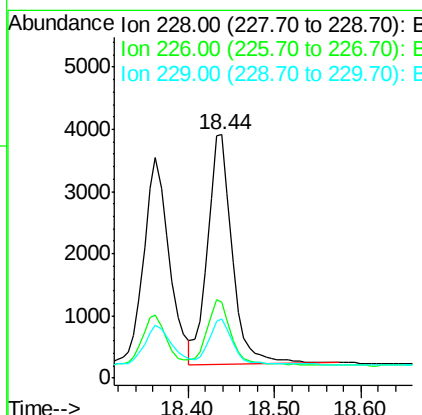
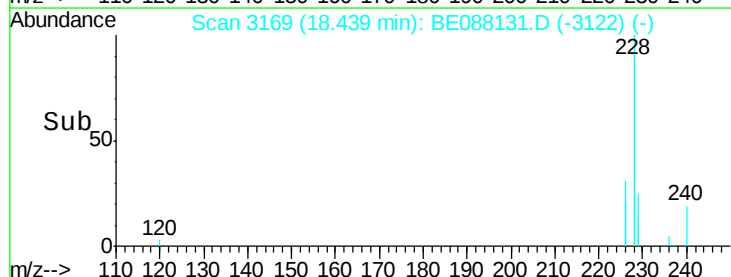
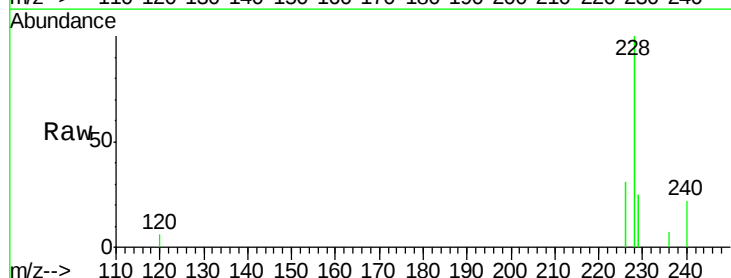
RT: 18.44 min Scan# 3169

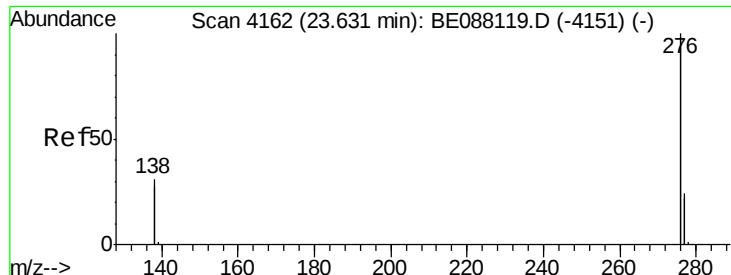
Delta R.T. 0.00 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

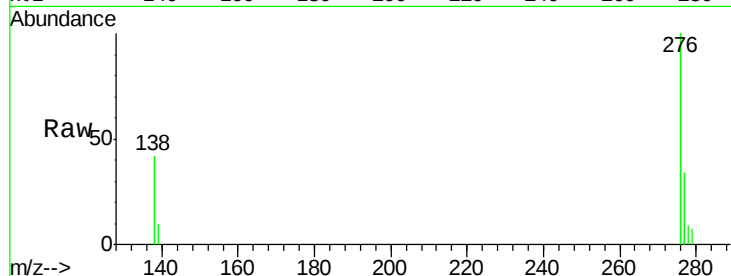
Tgt Ion:	228	Resp:	7406
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.7	34.1
229	24.5	15.8	23.6#





#21
Indeno(1,2,3-cd)pyrene
Concen: 0.06 ng m
RT: 23.63 min Scan# 4162
Delta R.T. -0.00 min
Lab File: BE088131.D
Acq: 21 Oct 2014 8:32

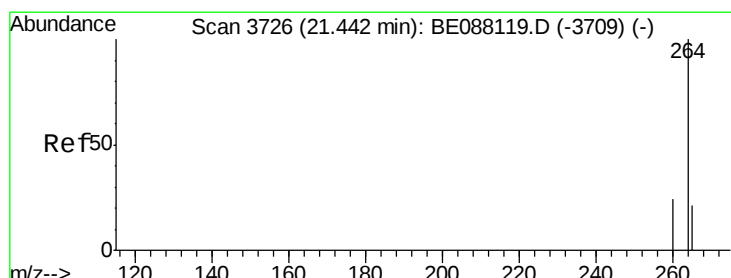
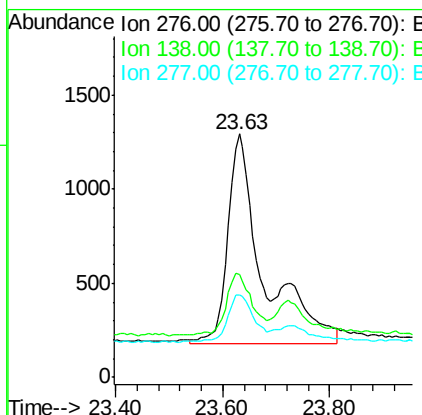
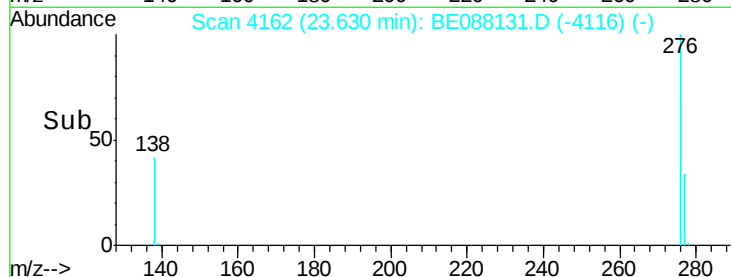
Instrument :
BNA_E
ClientSampleId :
YS19-GW12-1014A



Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.4	18.5	27.7
277	15.9	14.6	21.8

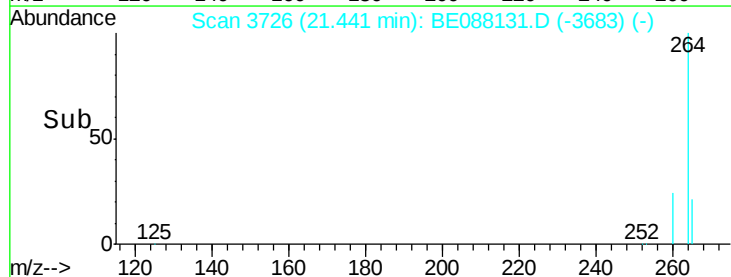
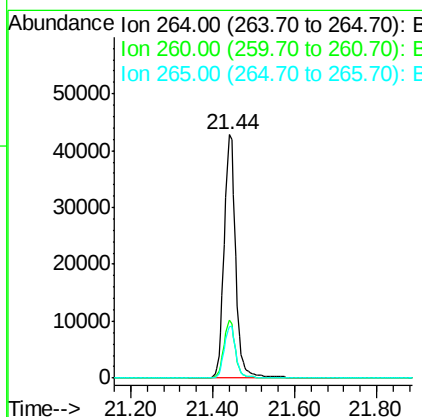
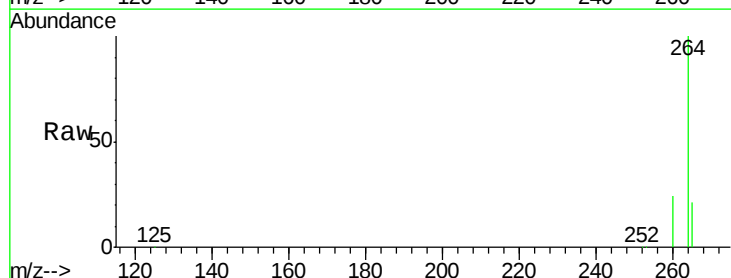
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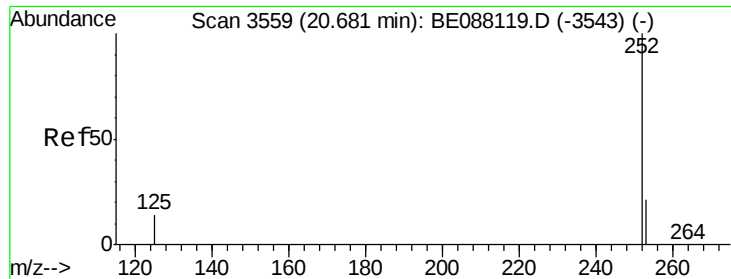
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.44 min Scan# 3726
Delta R.T. -0.00 min
Lab File: BE088131.D
Acq: 21 Oct 2014 8:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.4
265	21.4	17.2	25.8





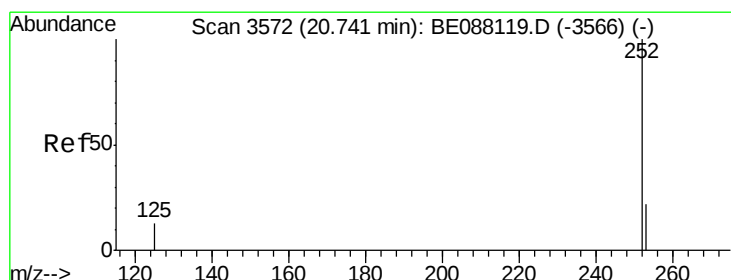
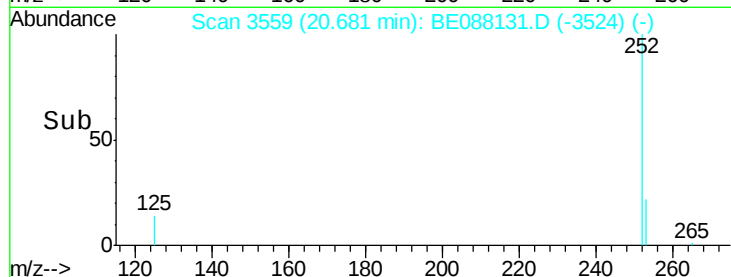
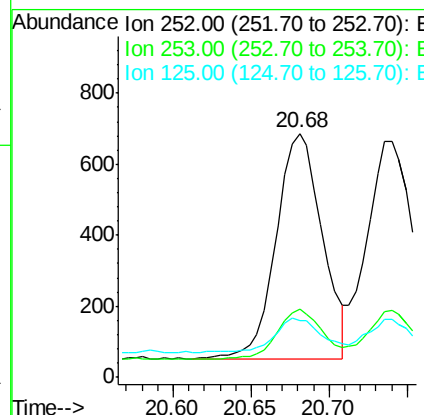
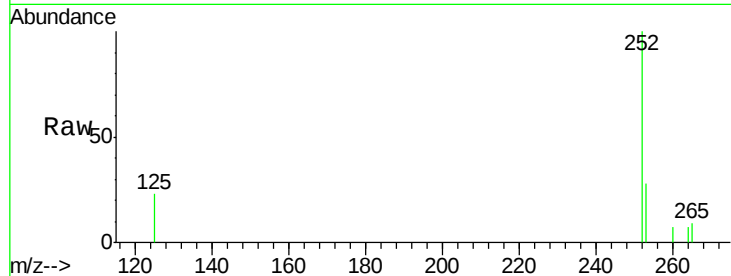
#23
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 20.68 min Scan# 3559
Delta R.T. -0.00 min
Lab File: BE088131.D
Acq: 21 Oct 2014 8:32

Instrument :
BNA_E
ClientSampleId :
YS19-GW12-1014A

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.8	17.4	26.0#
125	23.3	11.8	17.8#

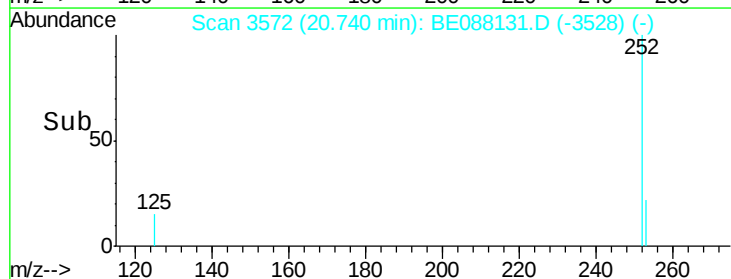
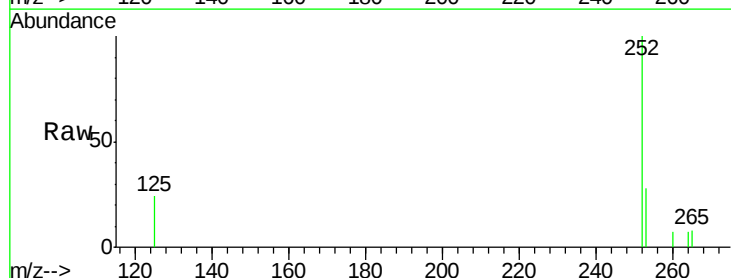
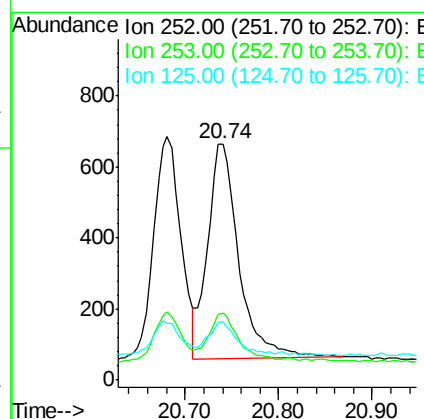
Manual Integrations
APPROVED

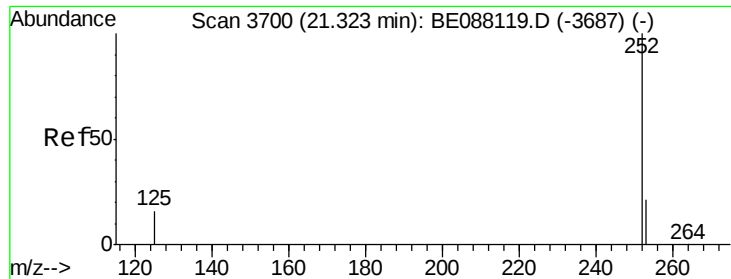
mohammad
10/22/2014 1:52:26 PM



#24
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 20.74 min Scan# 3572
Delta R.T. -0.00 min
Lab File: BE088131.D
Acq: 21 Oct 2014 8:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.1	17.6	26.4#
125	24.3	11.5	17.3#





#25

Benzo(a)pyrene

Concen: 0.06 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088131.D

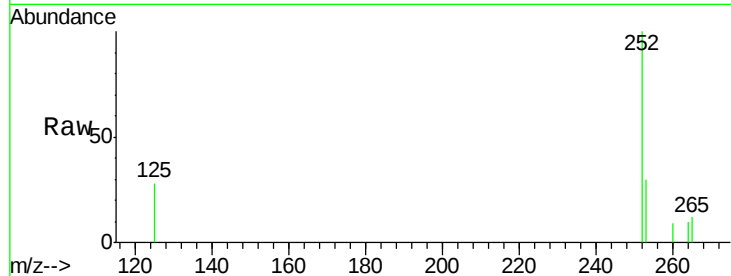
Acq: 21 Oct 2014 8:32

Instrument :

BNA_E

ClientSampleId :

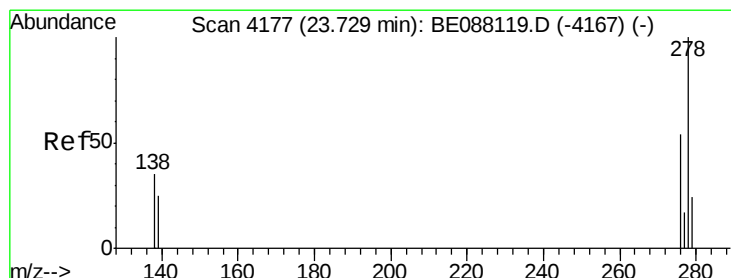
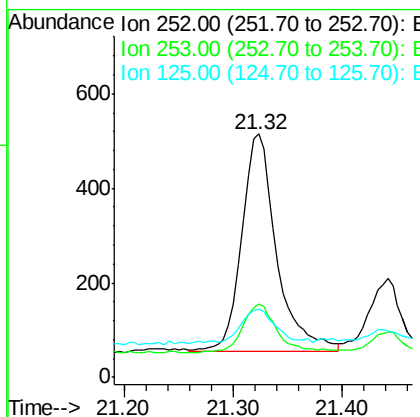
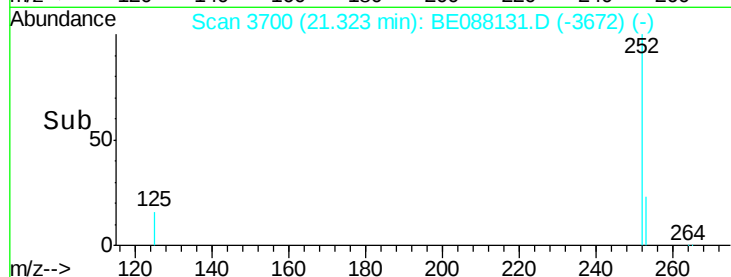
YS19-GW12-1014A



Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.3	17.5	26.3#
125	28.2	13.0	19.6#

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#26

Dibenzo(a,h)anthracene

Concen: 0.05 ng

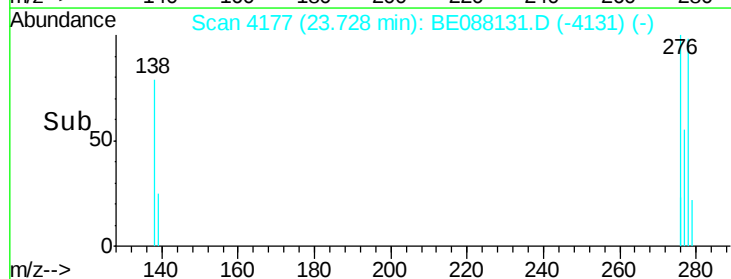
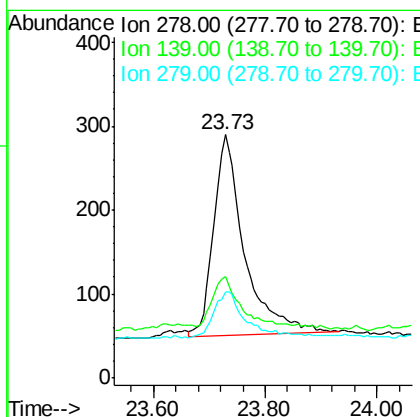
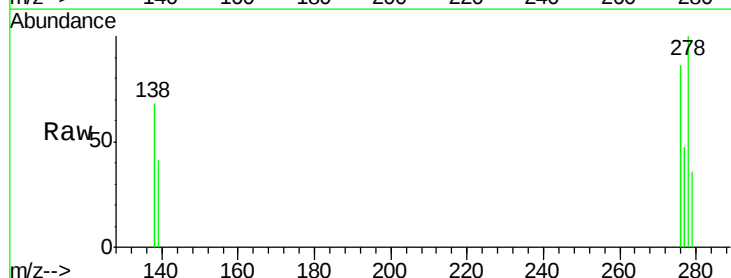
RT: 23.73 min Scan# 4177

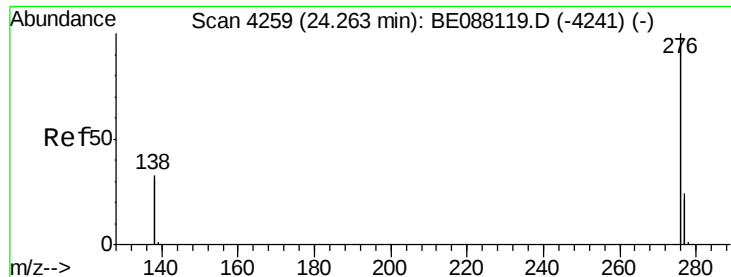
Delta R.T. -0.00 min

Lab File: BE088131.D

Acq: 21 Oct 2014 8:32

Tgt Ion	Ratio	Lower	Upper
278	100		
139	41.4	20.9	31.3#
279	35.5	19.8	29.8#





#27
 Benzo(g,h,i)perylene
 Concen: 0.06 ng
 RT: 24.26 min Scan# 4259
 Delta R.T. -0.00 min
 Lab File: BE088131.D
 Acq: 21 Oct 2014 8:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-GW12-1014A

Tgt Ion	Ratio	Lower	Upper
276	100		
277	35.2	19.2	28.8#
138	44.9	26.6	40.0#

Manual Integrations
 APPROVED

mohammad
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