

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088448.D
 Acq On : 1 Nov 2014 6:26
 Operator : TP/JJ
 Sample : F4379-01MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:07:09 AM

Quant Time: Nov 01 06:18:13 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	38621	5.00	ng	0.00
3) Naphthalene-d8	8.66	136	134358	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	51455	5.00	ng	0.01
12) Phenanthrene-d10	12.92	188	93484	5.00	ng	0.02
16) Chrysene-d12	18.35	240	49156	5.00	ng	0.03
22) Perylene-d12	21.41	264	49411	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	86474	8.78	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	126817	8.74	ng	0.00
18) Terphenyl-d14	16.09	244	74763	8.28	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.38	88	43614	8.63	ng	97
5) Naphthalene	8.68	128	251630	9.05	ng	98
6) 2-Methylnaphthalene	9.53	142	144761	8.41	ng	97
9) Acenaphthylene	10.63	152	674921	8.10	ng	99
10) Acenaphthene	10.84	154	109449	8.86	ng	100
11) Fluorene	11.51	166	124245	9.48	ng	99
13) Phenanthrene	12.96	178	2032545	23.93	ng	100
14) Anthracene	13.04	178	783591	11.42	ng	97
15) Fluoranthene	15.21	202	466005	33.80	ng	99
17) Pyrene	15.66	202	401490	25.04	ng	96
19) Benzo(a)anthracene	18.33	228	1016719	21.97	ng	99
20) Chrysene	18.40	228	891569	19.63	ng	99
21) Indeno(1,2,3-cd)pyrene	23.62	276	829752m	19.60	ng	
23) Benzo(b)fluoranthene	20.66	252	272186	25.12	ng	99
24) Benzo(k)fluoranthene	20.71	252	159698	13.38	ng	99
25) Benzo(a)pyrene	21.30	252	207547	19.95	ng	99
26) Dibenzo(a,h)anthracene	23.70	278	109990	11.38	ng	99
27) Benzo(g,h,i)perylene	24.26	276	745979	16.84	ng	96

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

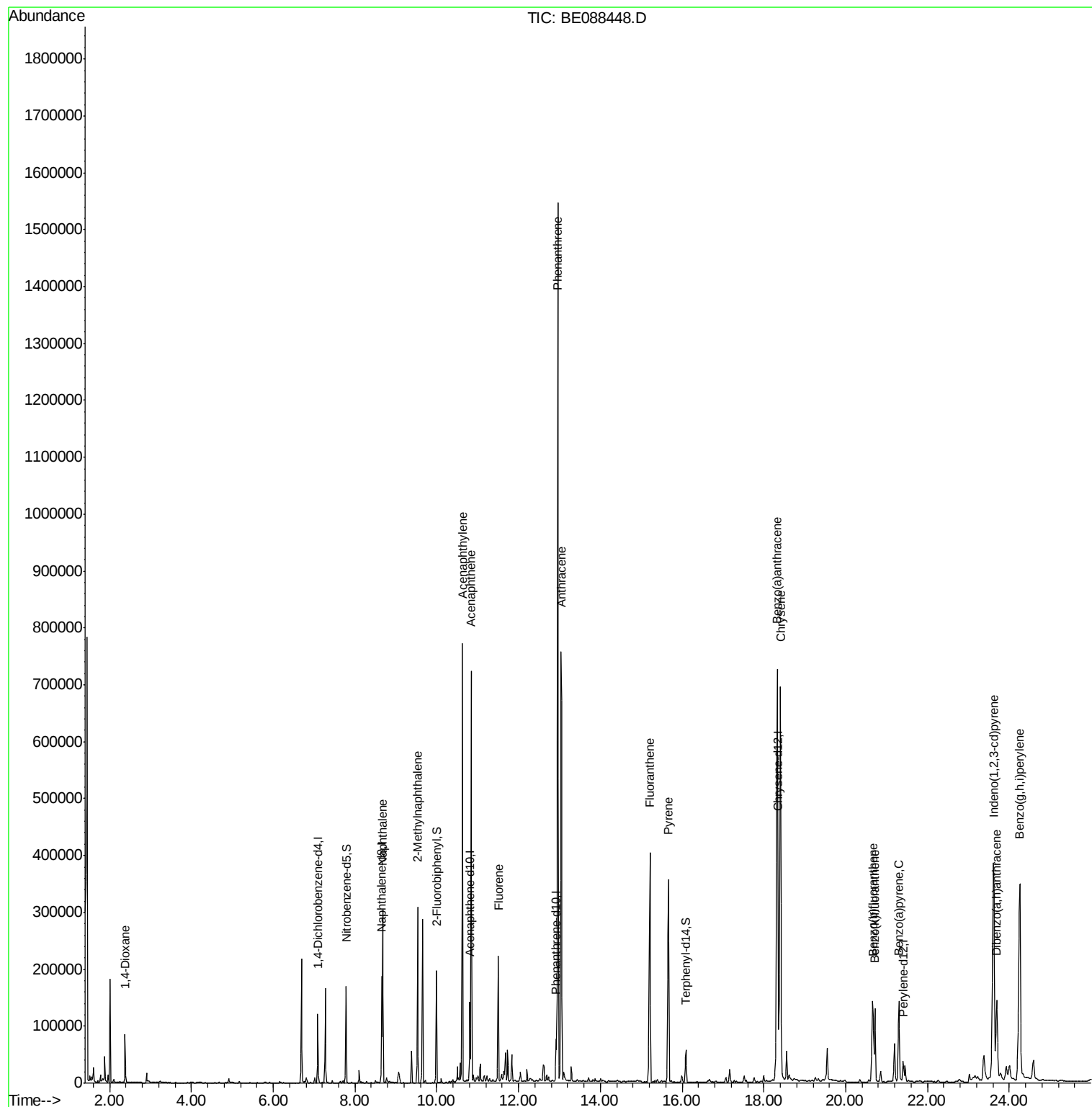
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088448.D

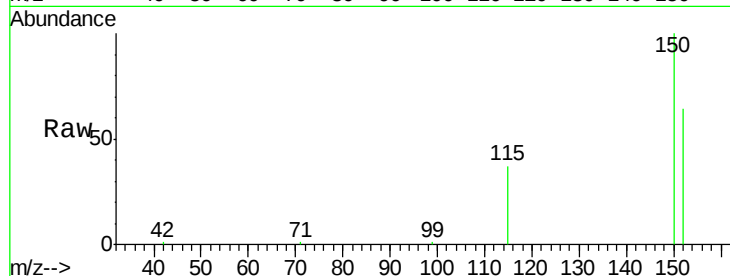
Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

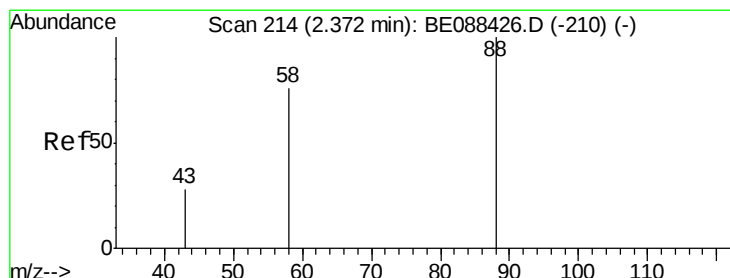
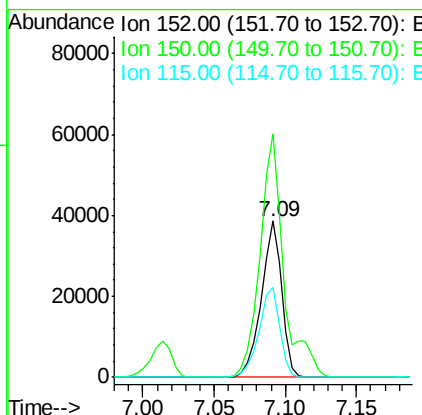
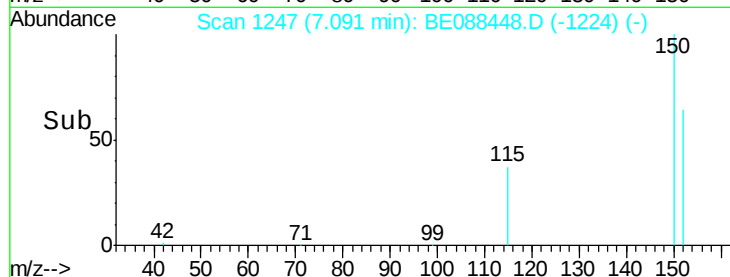
YS19-SS32-1014MSD



Tgt Ion:	152	Resp:	38621
Ion Ratio	Lower	Upper	
152	100		
150	155.7	121.8	182.8
115	57.5	43.9	65.9

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#2

1,4-Dioxane

Concen: 8.63 ng

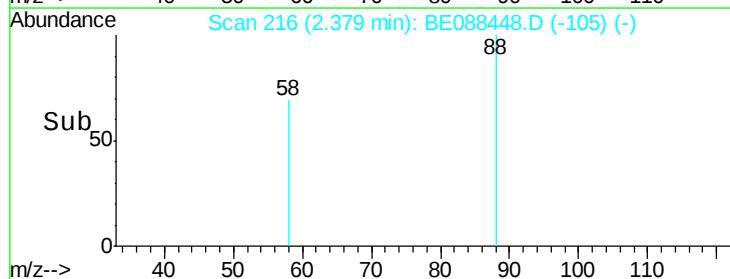
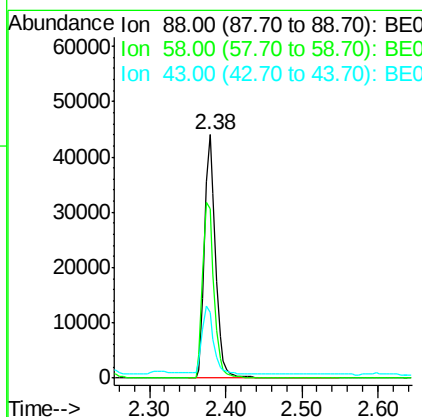
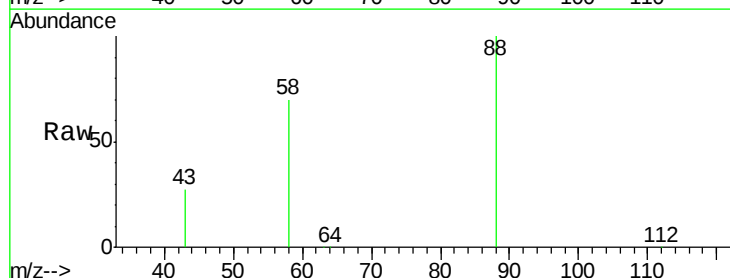
RT: 2.38 min Scan# 216

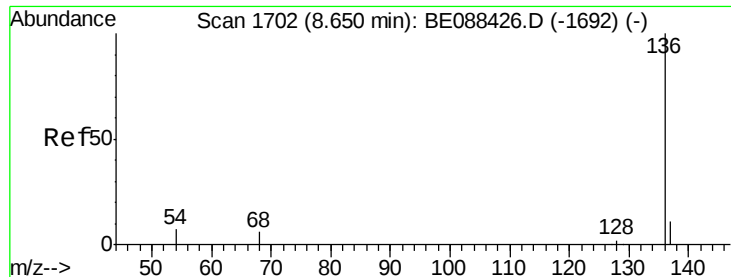
Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt Ion:	88	Resp:	43614
Ion Ratio	Lower	Upper	
88	100		
58	75.0	59.1	88.7
43	30.5	21.9	32.9





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.66 min Scan# 1703

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

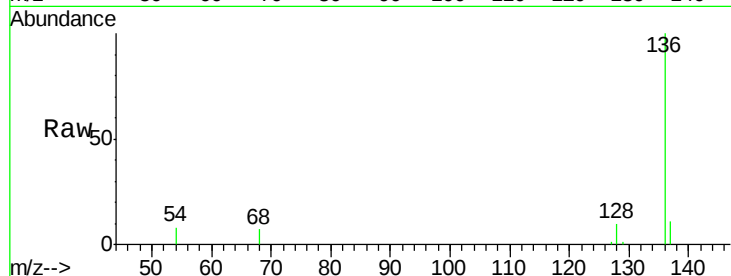
ClientSampleId :

YS19-SS32-1014MSD

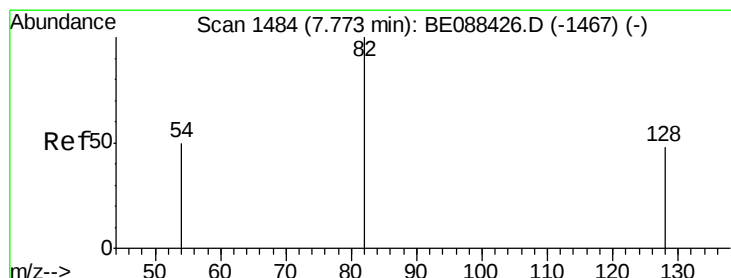
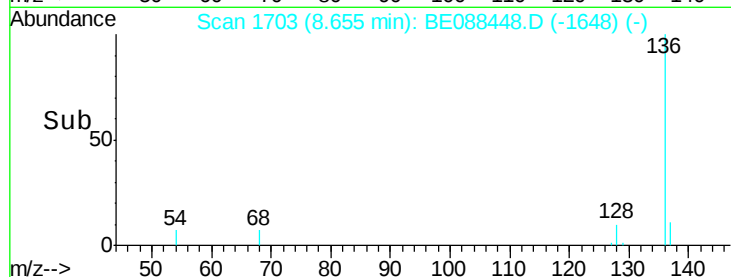
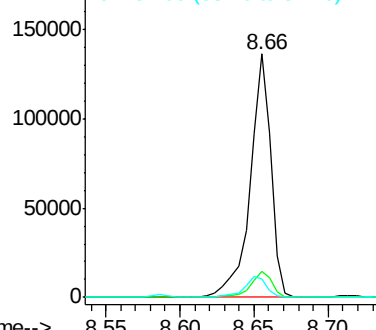
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Tgt Ion:	136	Resp:	134358
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.8	13.2
54	7.5	5.3	7.9



Abundance Ion 136.00 (135.70 to 136.70): BE088448.D (-1648) (-)



#4

Nitrobenzene-d5

Concen: 8.78 ng

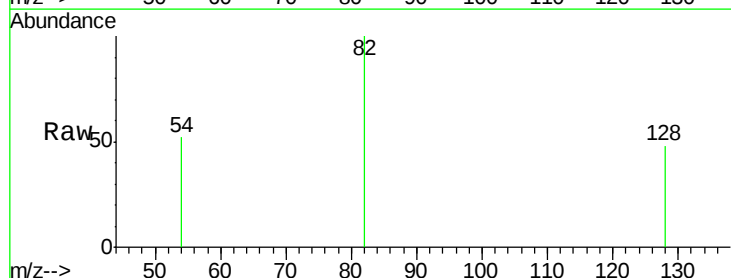
RT: 7.78 min Scan# 1488

Delta R.T. 0.01 min

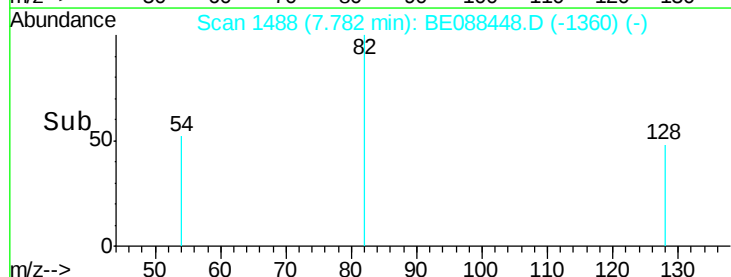
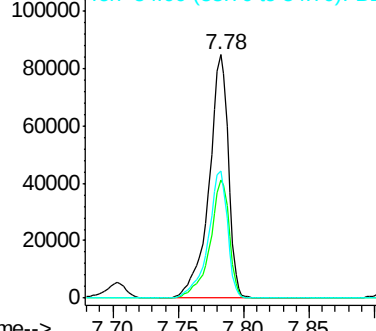
Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt Ion:	82	Resp:	86474
Ion Ratio	Lower	Upper	
82	100		
128	48.4	38.4	57.6
54	52.0	40.2	60.2



Abundance Ion 82.00 (81.70 to 82.70): BE088448.D (-1360) (-)





#5

Naphthalene

Concen: 9.05 ng

RT: 8.68 min Scan# 1708

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

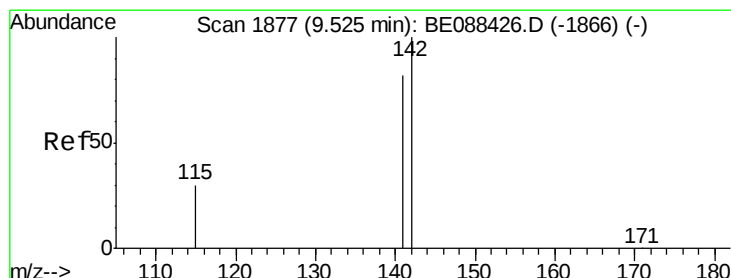
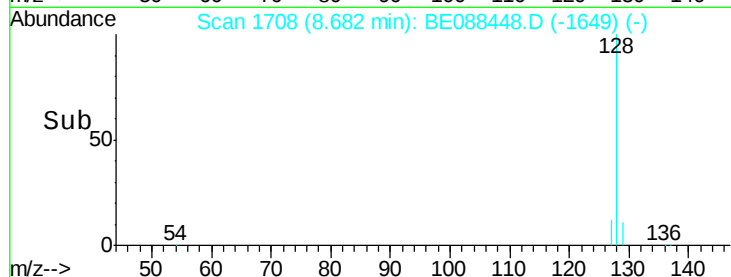
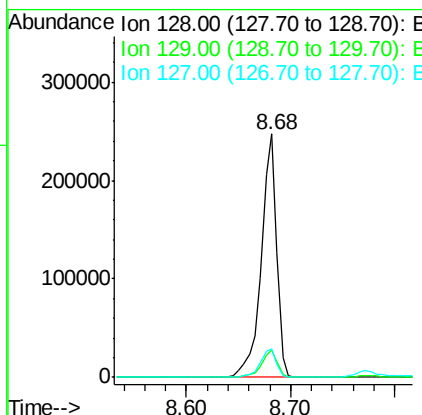
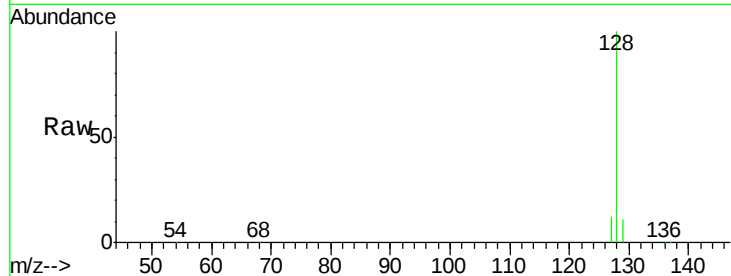
ClientSampleId :

YS19-SS32-1014MSD

Tgt Ion:	128	Resp:	251630
Ion Ratio		Lower	Upper
128	100		
129	11.2	8.6	12.8
127	11.9	10.1	15.1

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#6

2-Methylnaphthalene

Concen: 8.41 ng

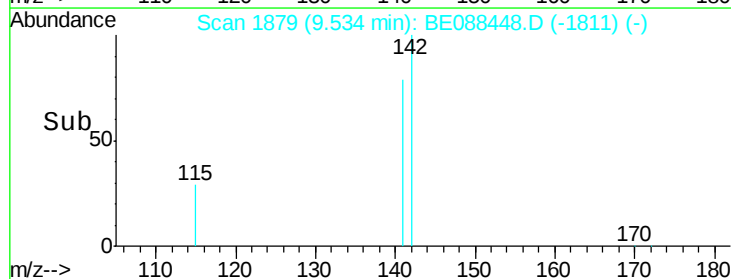
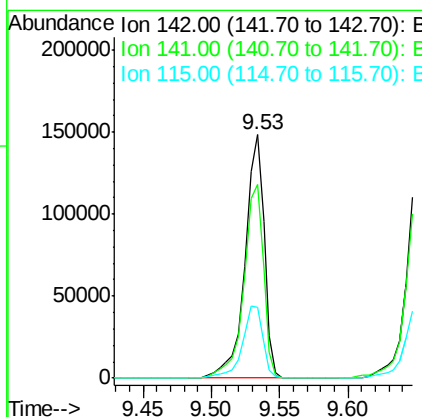
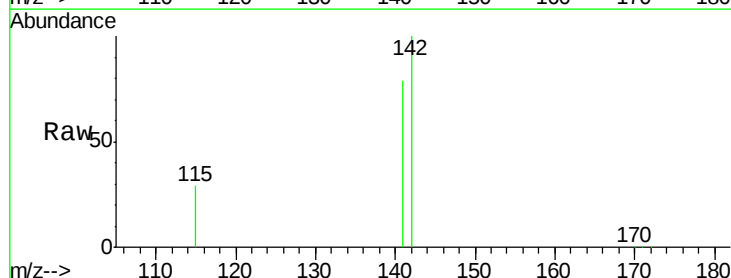
RT: 9.53 min Scan# 1879

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt Ion:	142	Resp:	144761
Ion Ratio		Lower	Upper
142	100		
141	79.5	65.8	98.8
115	29.3	24.2	36.4





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088448.D

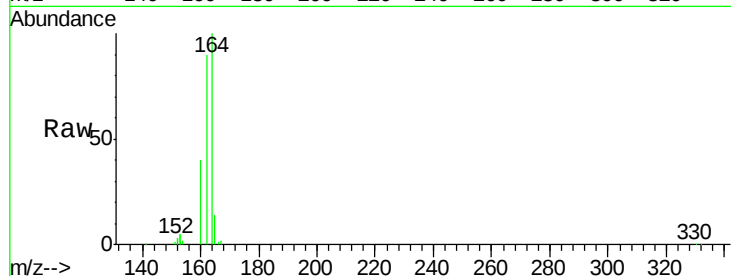
Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

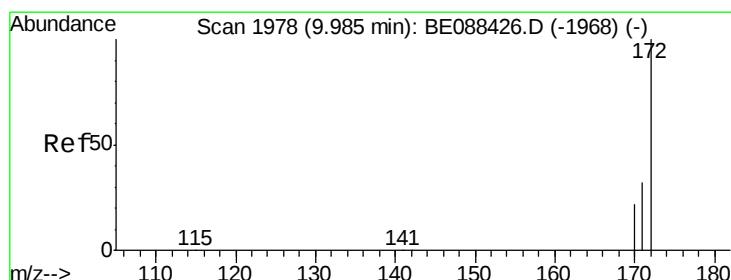
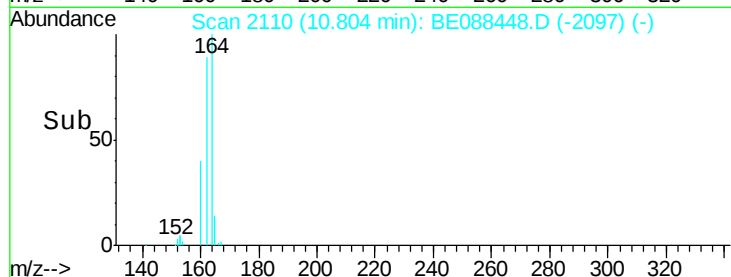
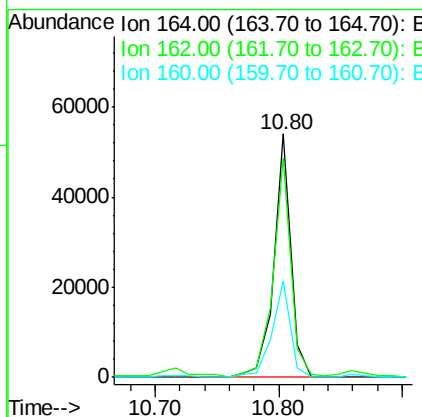
YS19-SS32-1014MSD



Tgt Ion:	164	Resp:	51455
Ion Ratio	Lower	Upper	
164	100		
162	90.0	77.0	115.4
160	39.8	36.8	55.2

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#8

2-Fluorobiphenyl

Concen: 8.74 ng

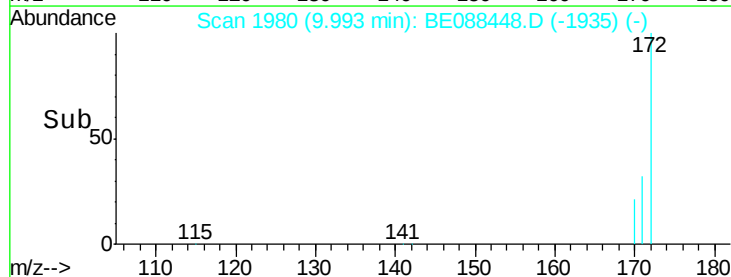
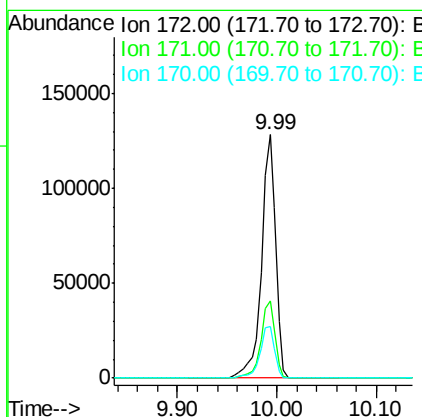
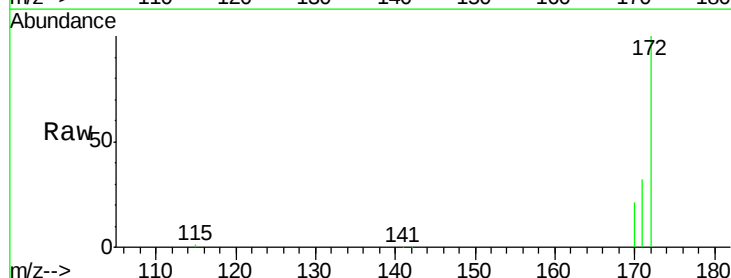
RT: 9.99 min Scan# 1980

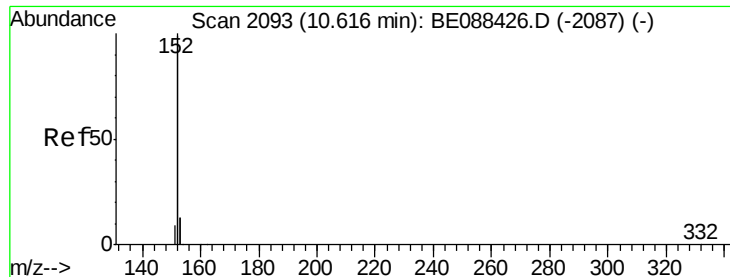
Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt Ion:	172	Resp:	126817
Ion Ratio	Lower	Upper	
172	100		
171	31.7	26.0	39.0
170	21.1	17.6	26.4





#9

Acenaphthylene

Concen: 8.10 ng

RT: 10.63 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

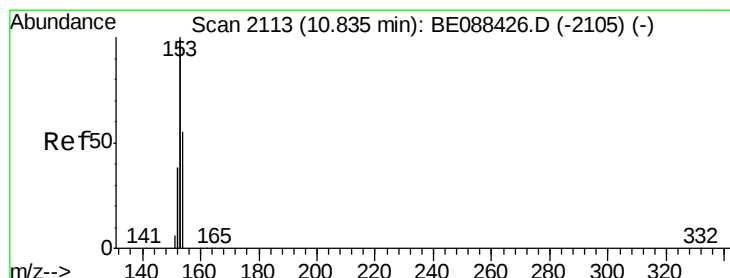
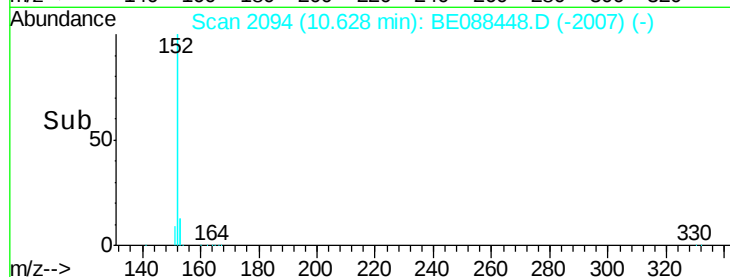
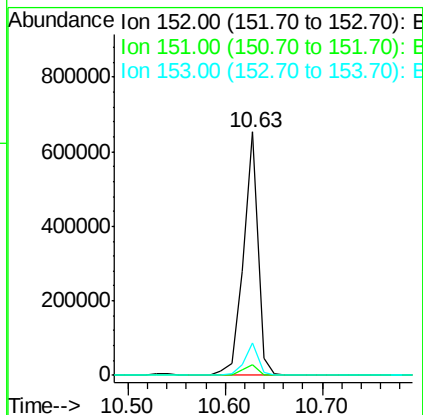
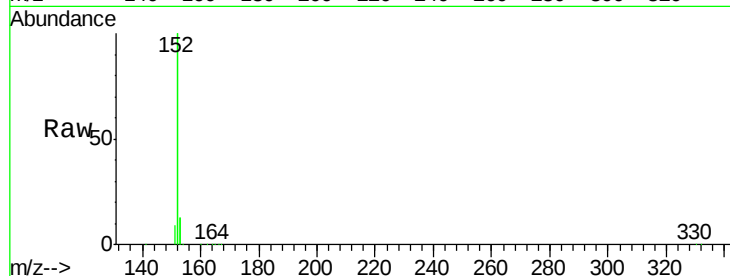
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Tgt	Ion	Ratio	Lower	Upper
152	100			
151	4.7	4.4	6.6	
153	12.9	10.5	15.7	



#10

Acenaphthene

Concen: 8.86 ng

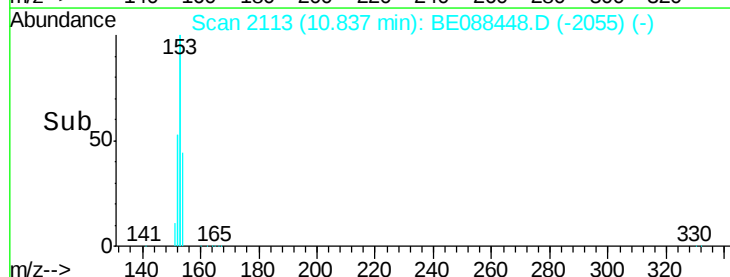
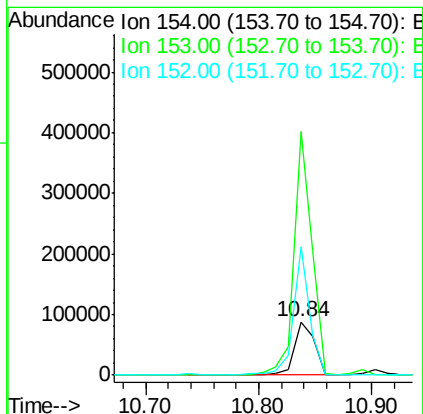
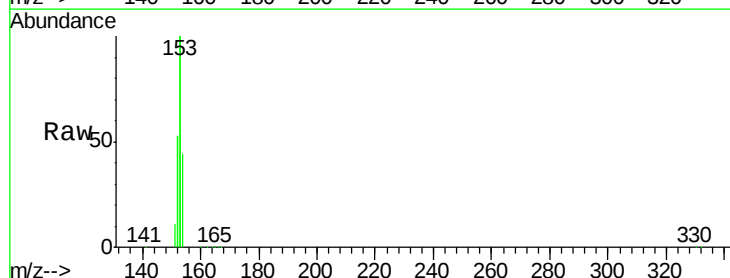
RT: 10.84 min Scan# 2113

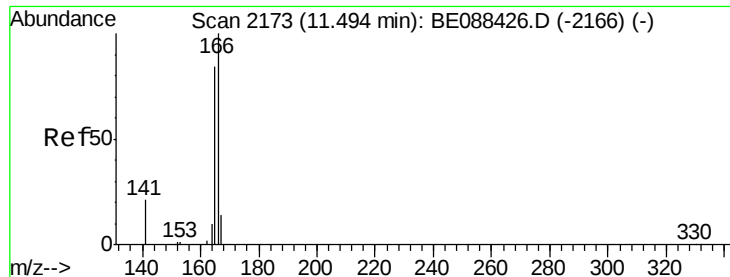
Delta R.T. 0.00 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

Tgt	Ion	Ratio	Lower	Upper
154	100			
153	405.6	324.3	486.5	
152	194.1	154.9	232.3	





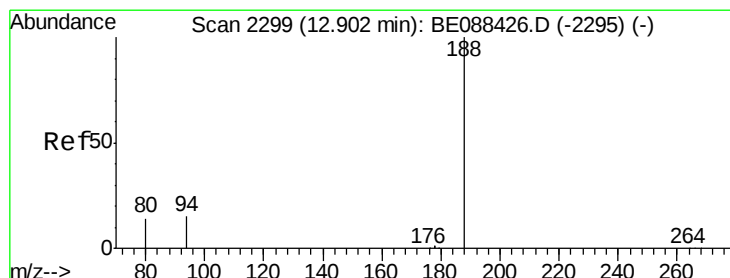
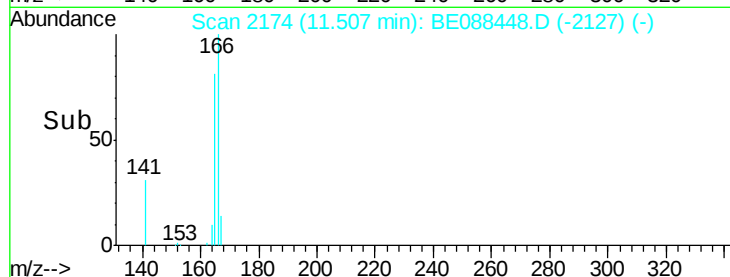
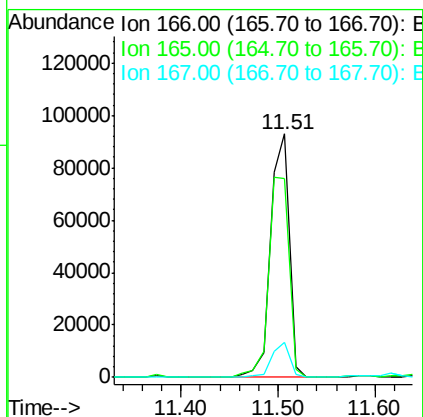
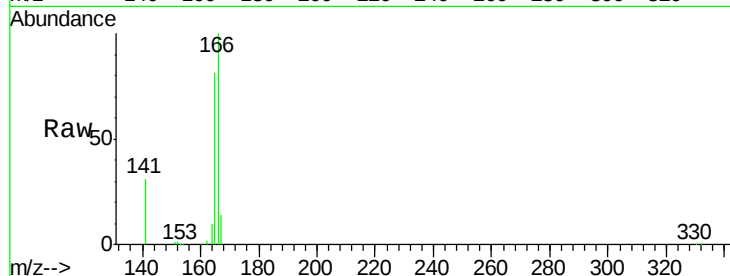
#11
Fluorene
 Concen: 9.48 ng
 RT: 11.51 min Scan# 2174
 Delta R.T. 0.01 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.9	71.3	106.9
167	13.5	10.7	16.1

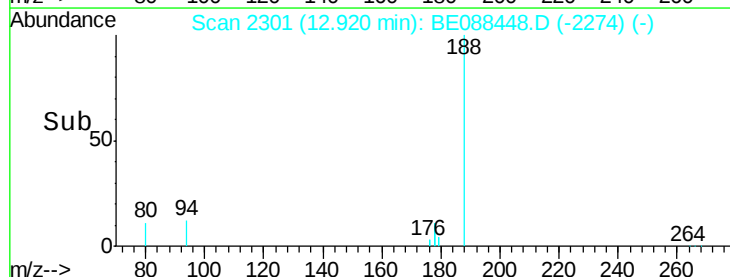
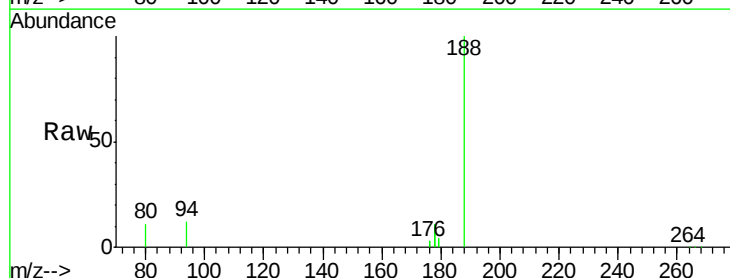
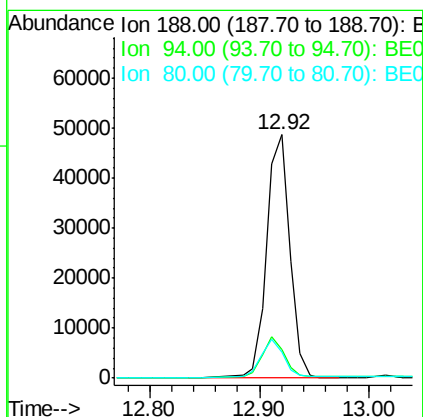
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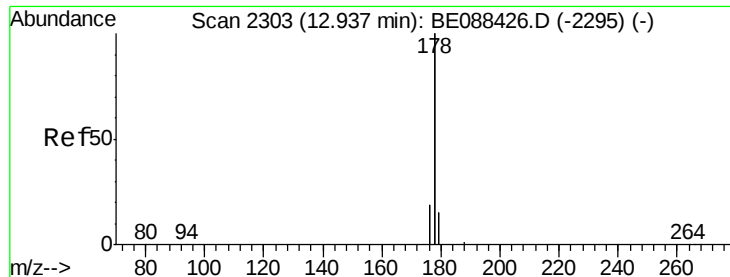
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#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.92 min Scan# 2301
 Delta R.T. 0.02 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.9	11.8	17.8
80	10.7	10.9	16.3#





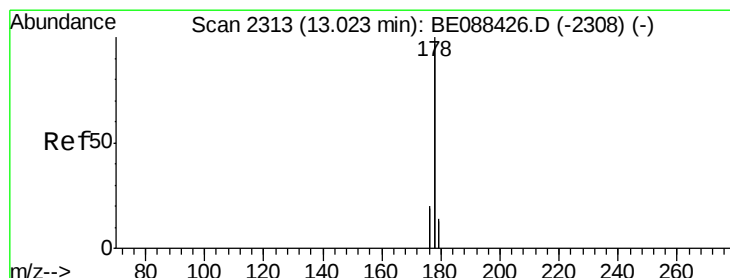
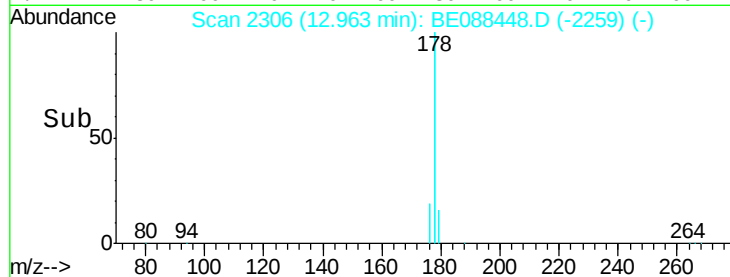
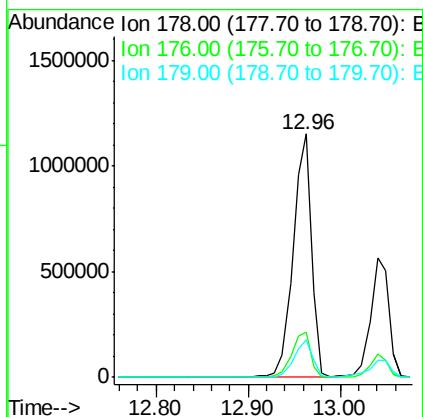
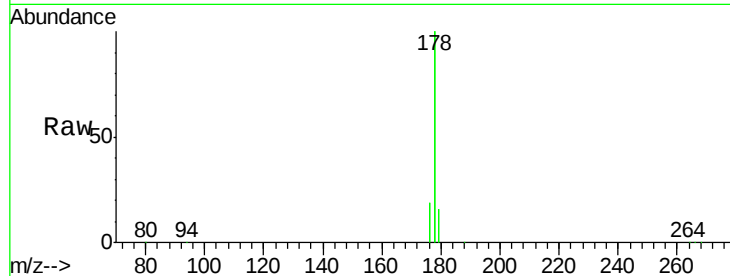
#13
Phenanthrene
Concen: 23.93 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.03 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014MSD

Tgt Ion:178 Resp: 2032545
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 16.0 12.8 19.2

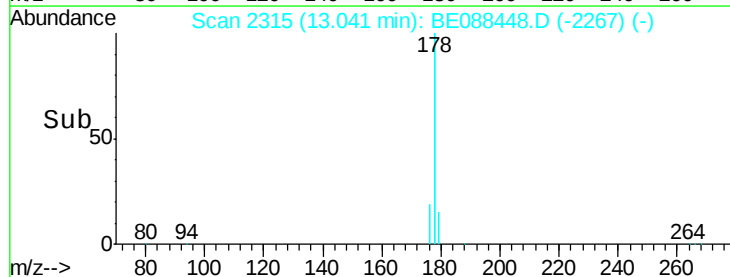
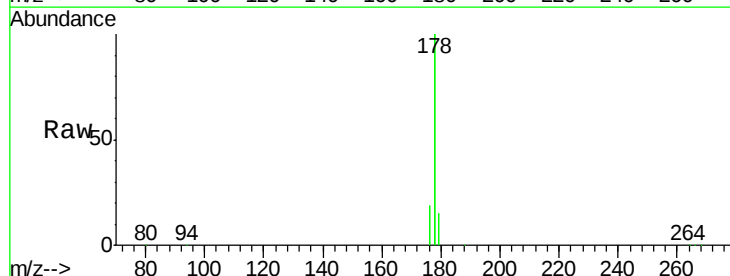
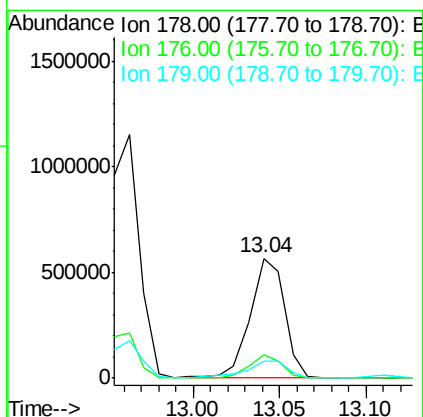
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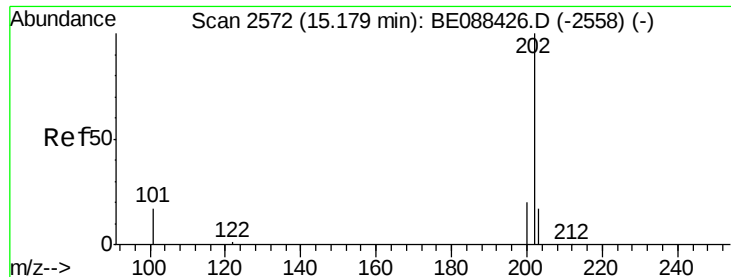
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#14
Anthracene
Concen: 11.42 ng
RT: 13.04 min Scan# 2315
Delta R.T. 0.02 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Tgt Ion:178 Resp: 783591
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.4
179 17.6 12.5 18.7





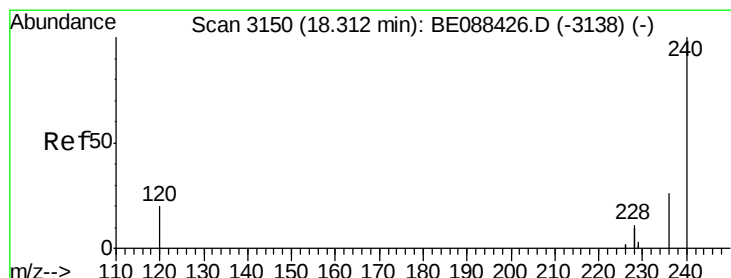
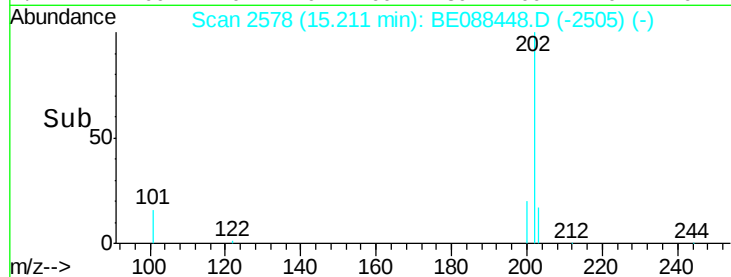
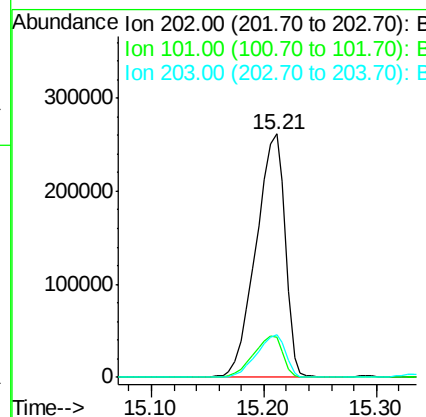
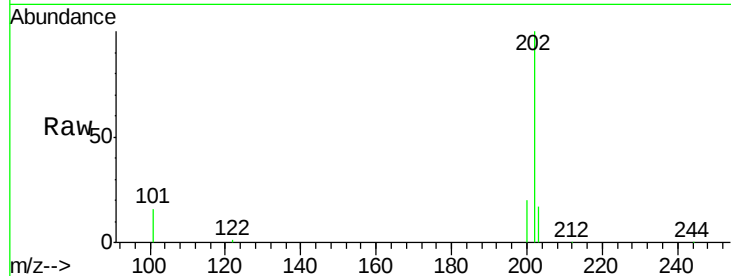
#15
Fluoranthene
 Concen: 33.80 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. 0.03 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	17.2	14.3	21.5
203	17.4	13.6	20.4

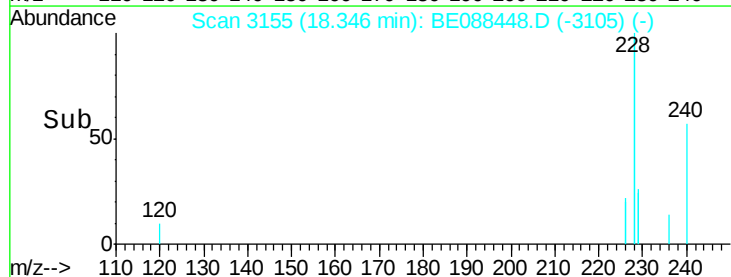
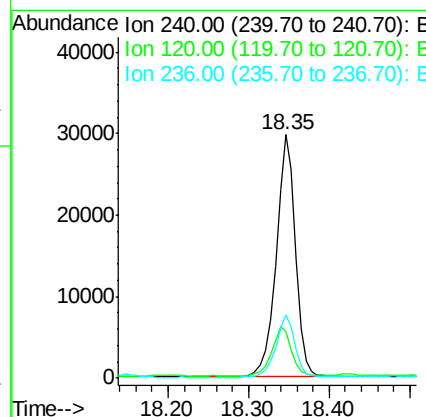
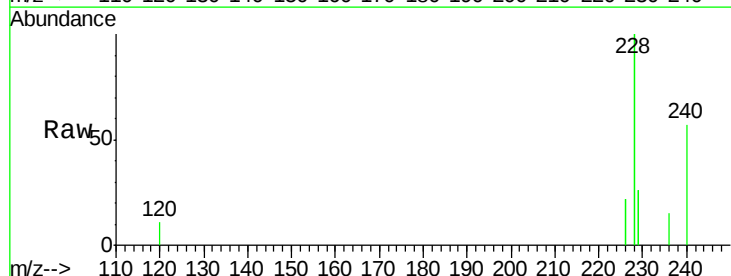
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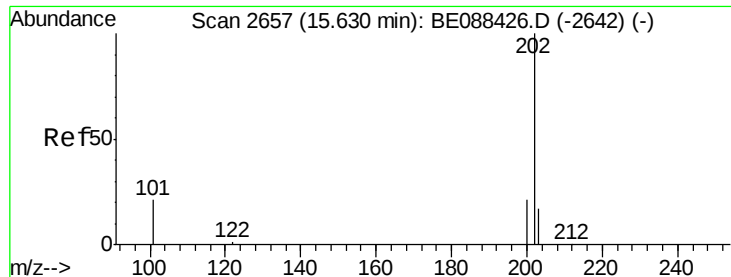
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#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.03 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
240	100		
120	19.2	16.4	24.6
236	25.7	20.5	30.7





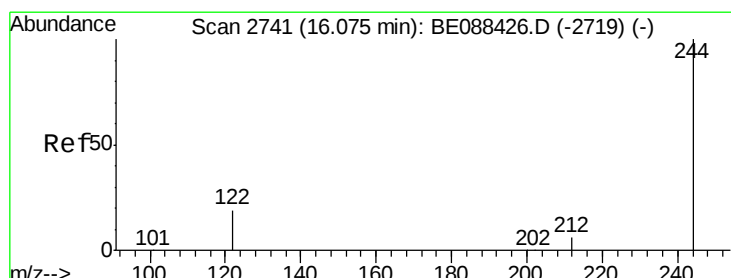
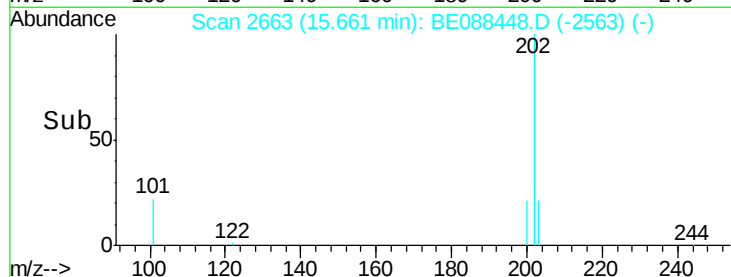
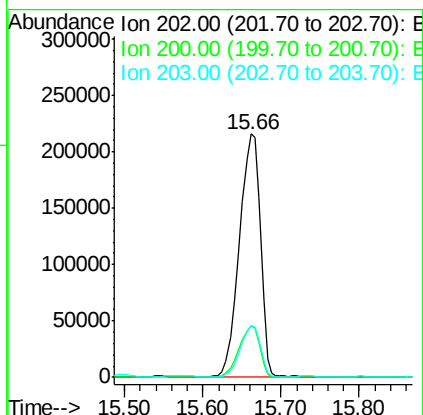
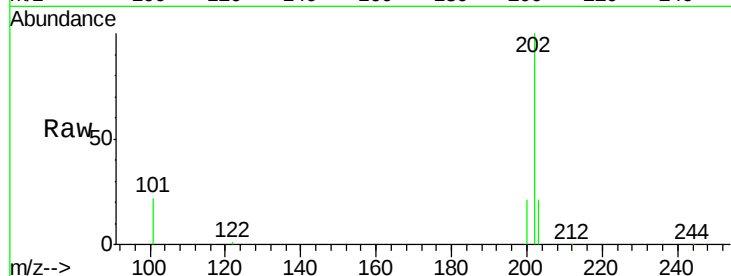
#17
 Pyrene
 Concen: 25.04 ng
 RT: 15.66 min Scan# 2663
 Delta R.T. 0.03 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.8	16.1	24.1
203	20.2	13.8	20.8

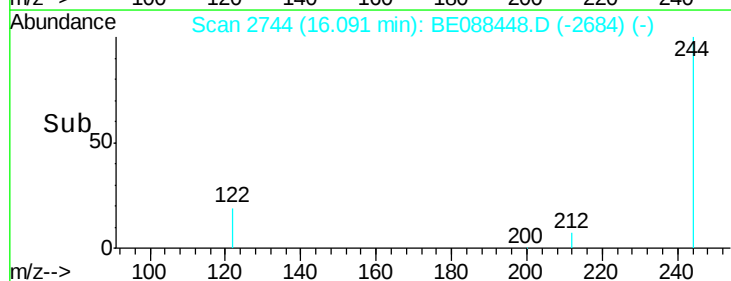
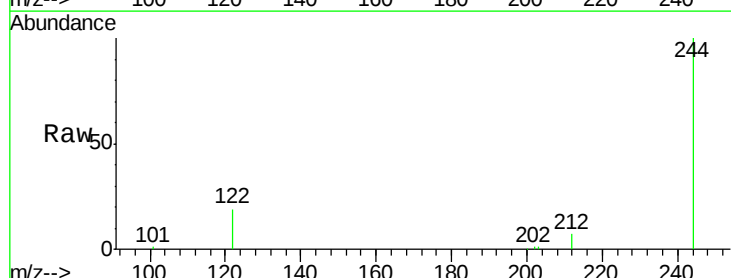
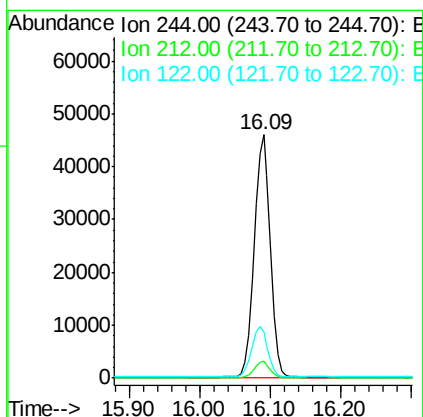
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#18
 Terphenyl-d14
 Concen: 8.28 ng
 RT: 16.09 min Scan# 2744
 Delta R.T. 0.02 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.8	5.5	8.3
122	19.3	15.6	23.4





#19

Benzo(a)anthracene

Concen: 21.97 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.03 min

Lab File: BE088448.D

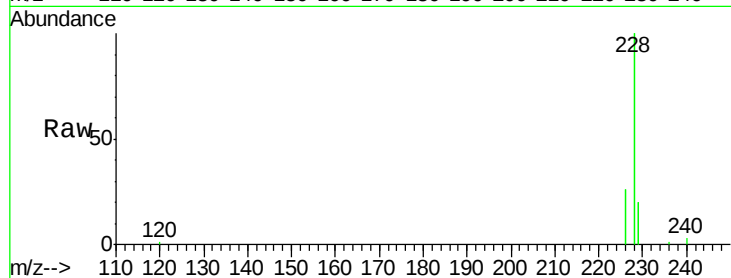
Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014MSD



Tgt Ion: 228 Resp: 1016719

Ion Ratio Lower Upper

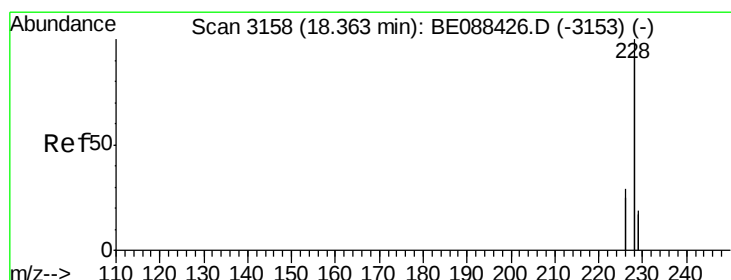
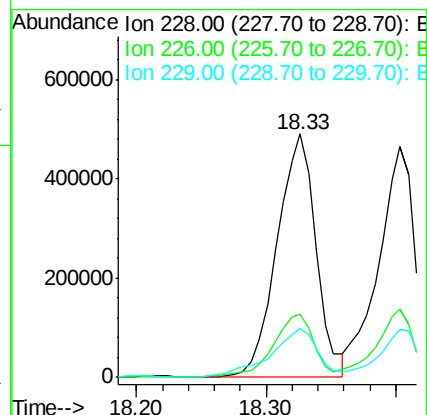
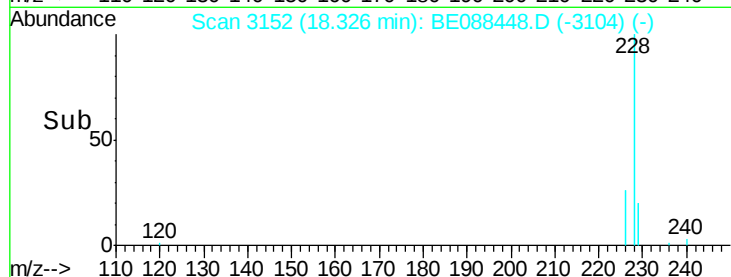
228 100

226 25.9 19.8 29.6

229 20.0 16.0 24.0

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#20

Chrysene

Concen: 19.63 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.04 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26

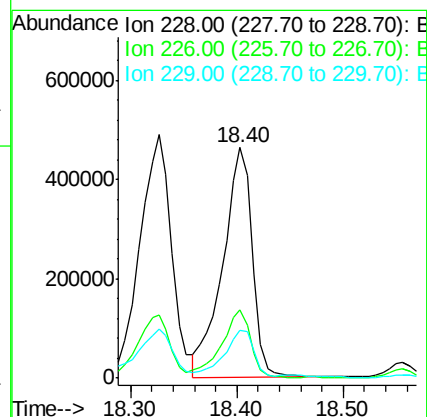
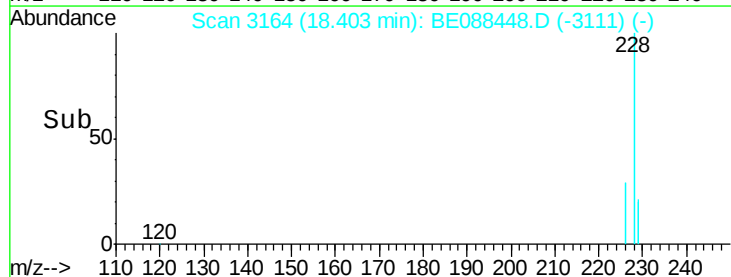
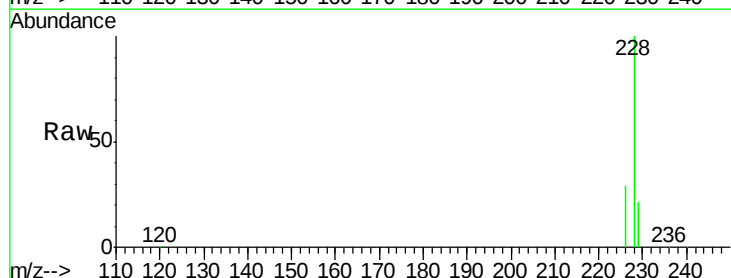
Tgt Ion: 228 Resp: 891569

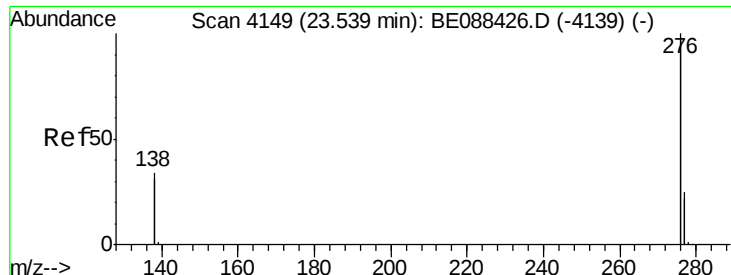
Ion Ratio Lower Upper

228 100

226 29.4 23.6 35.4

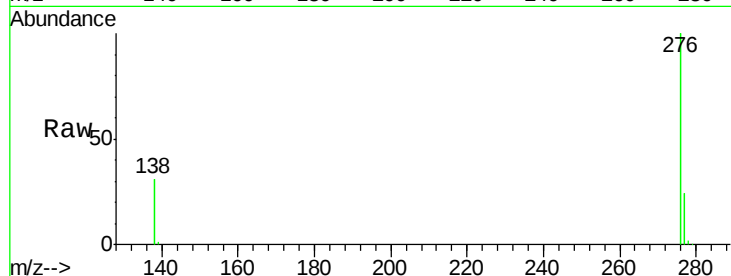
229 20.5 15.4 23.2





#21
Indeno(1,2,3-cd)pyrene
Concen: 19.60 ng m
RT: 23.62 min Scan# 4161
Delta R.T. 0.08 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

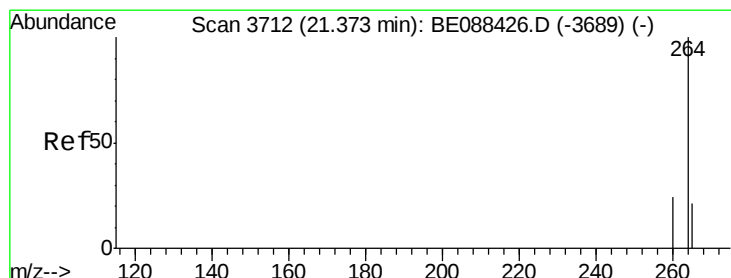
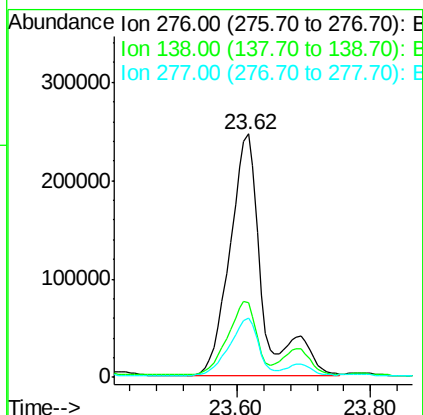
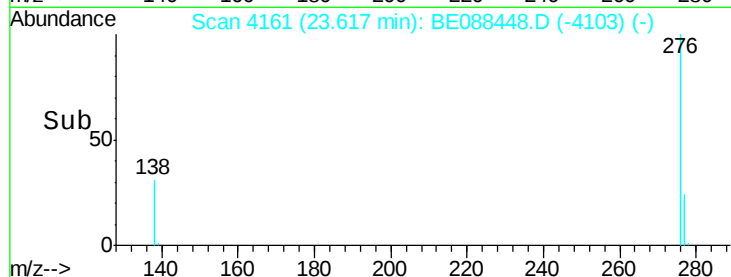
Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014MSD



Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	26.8	20.2	30.2
277	21.0	14.8	22.2

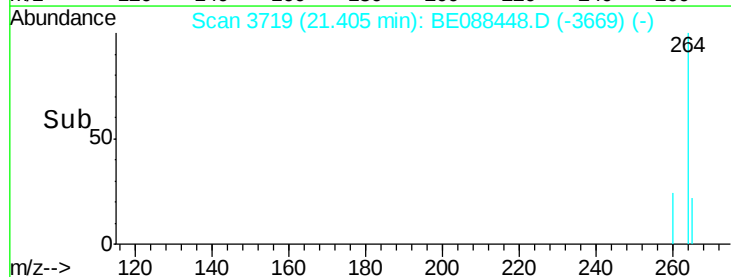
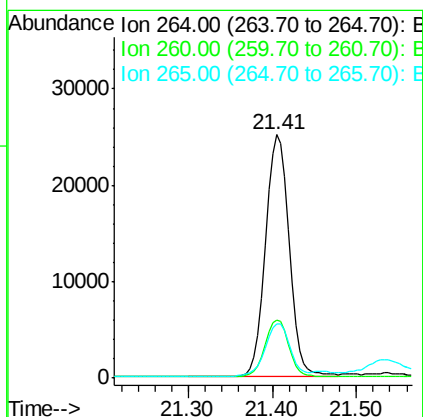
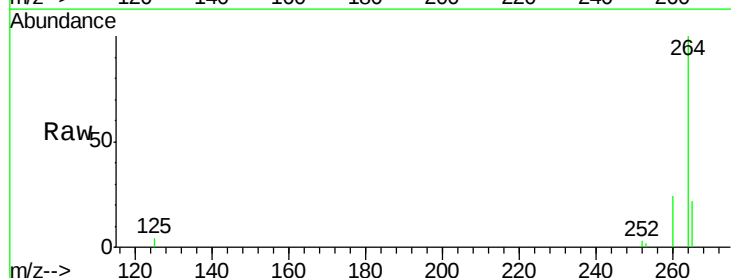
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#22
Perylene-d12
Concen: 5.00 ng
RT: 21.41 min Scan# 3719
Delta R.T. 0.03 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	24.0	18.9	28.3
265	22.3	17.2	25.8





#23

Benzo(b)fluoranthene

Concen: 25.12 ng

RT: 20.66 min Scan# 3556

Delta R.T. 0.05 min

Lab File: BE088448.D

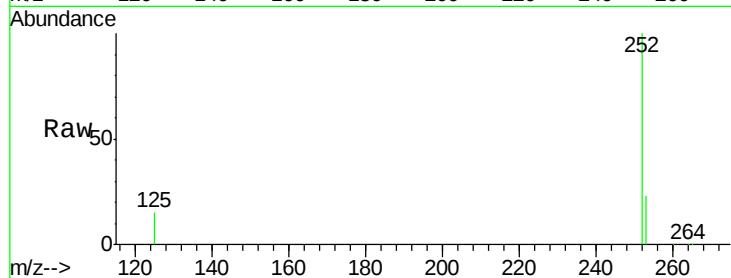
Acq: 1 Nov 2014 6:26

Instrument :

BNA_E

ClientSampleId :

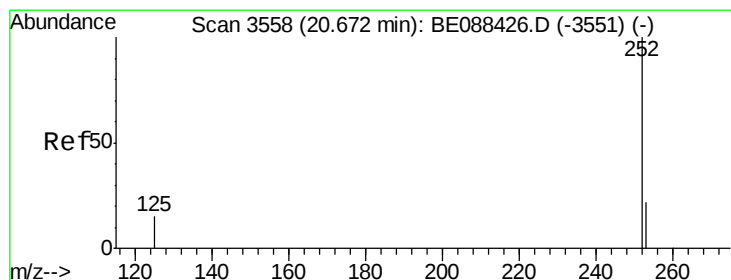
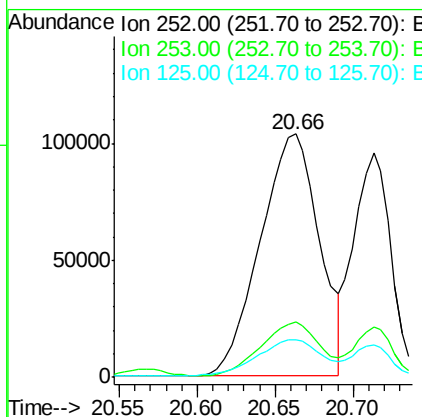
YS19-SS32-1014MSD



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	15.5	12.3	18.5

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#24

Benzo(k)fluoranthene

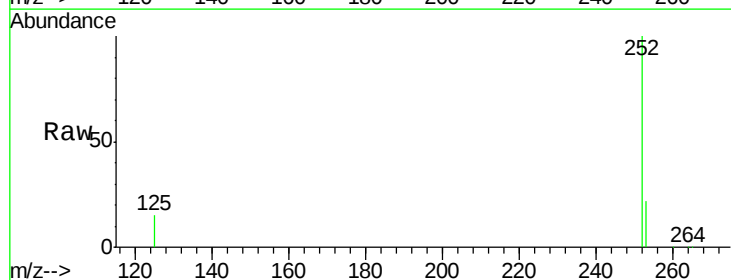
Concen: 13.38 ng

RT: 20.71 min Scan# 3567

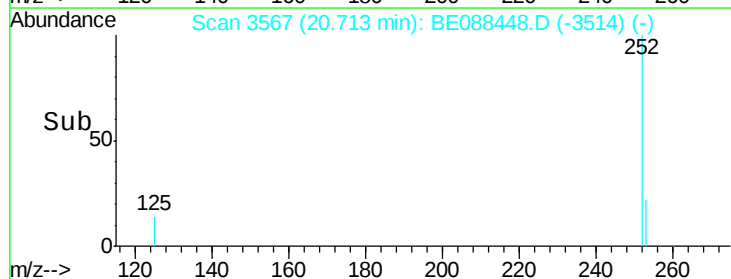
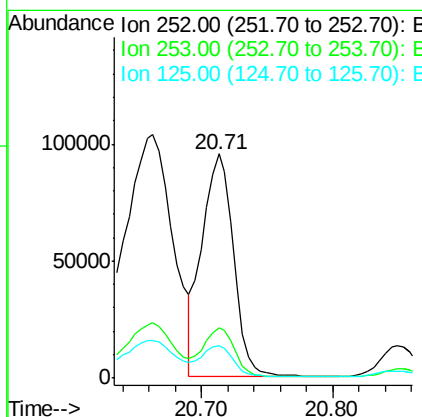
Delta R.T. 0.04 min

Lab File: BE088448.D

Acq: 1 Nov 2014 6:26



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	14.5	12.2	18.4





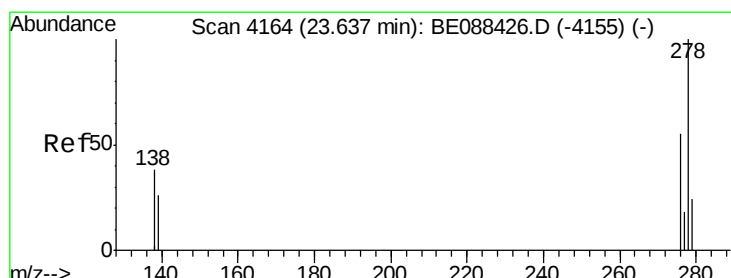
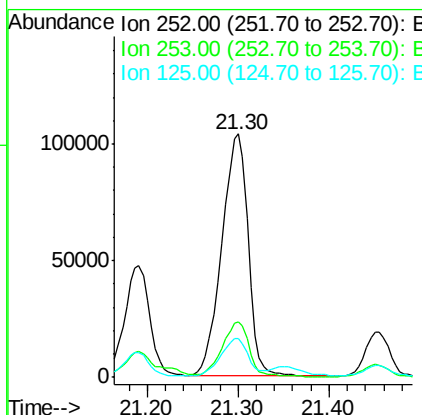
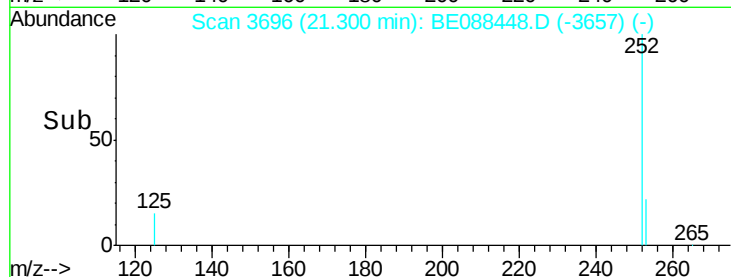
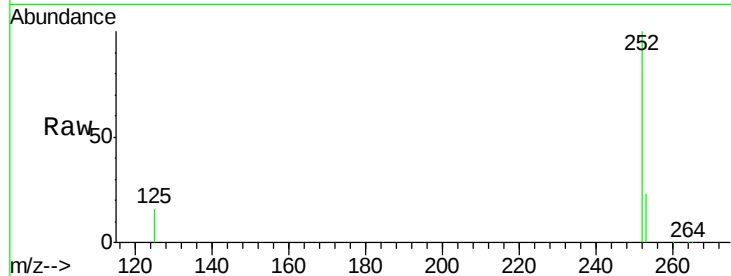
#25
Benzo(a)pyrene
Concen: 19.95 ng
RT: 21.30 min Scan# 3696
Delta R.T. 0.05 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.2	27.4
125	15.8	13.7	20.5

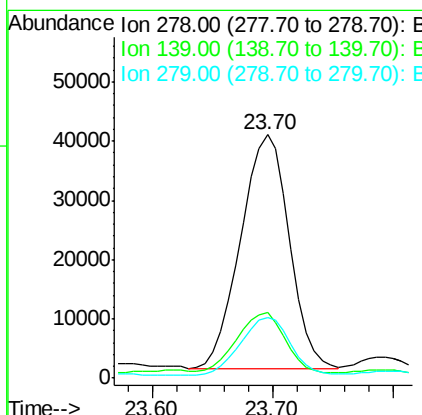
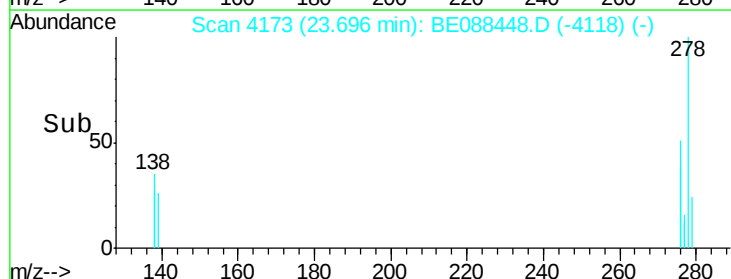
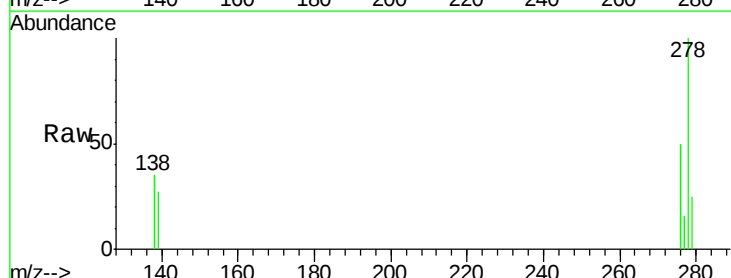
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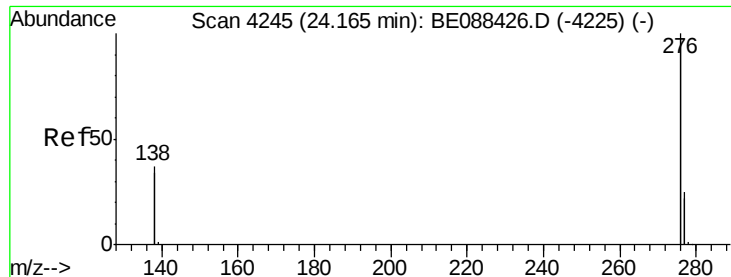
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#26
Dibenzo(a,h)anthracene
Concen: 11.38 ng
RT: 23.70 min Scan# 4173
Delta R.T. 0.06 min
Lab File: BE088448.D
Acq: 1 Nov 2014 6:26

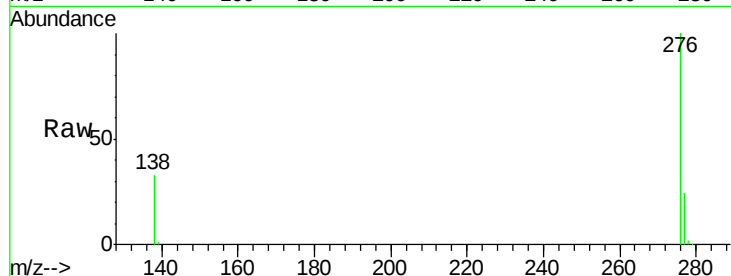
Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.9	22.1	33.1
279	24.9	19.7	29.5





#27
 Benzo(g,h,i)perylene
 Concen: 16.84 ng
 RT: 24.26 min Scan# 4260
 Delta R.T. 0.10 min
 Lab File: BE088448.D
 Acq: 1 Nov 2014 6:26

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014MSD



Tgt Ion:	276	Resp:	745979
Ion Ratio	Lower	Upper	
276	100		
277	24.2	19.8	29.6
138	32.8	29.3	43.9

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