Quantitation Report (QT Reviewed)

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
Data File : BF083810.D
Acq On : 15 Dec 2015 11:02
Operator : UM/IZ
Sample : G4761-07DL 100X
Misc :
ALS Vial : 49 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
MMdadoda
12/15/2015 6:13:57 PM

Quant Time: Dec 15 11:39:52 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 14 01:30:12 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	103939	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	394722	20.00	ng	-0.03
38) Acenaphthene-d10	9.94	164	200515	20.00	ng	-0.02
63) Phenanthrene-d10	11.41	188	329526	20.00	ng	-0.03
75) Chrysene-d12	14.05	240	236475	20.00	ng	-0.02
86) Perylene-d12	15.49	264	226004	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	10400	1.61	ng	-0.03
7) Phenol-d6	6.51	99	12738	1.56	ng	-0.03
23) Nitrobenzene-d5	7.45	82	6778	0.96	ng	-0.03
41) 2,4,6-Tribromophenol	10.72	330	2167	1.06	ng	-0.03
44) 2-Fluorobiphenyl	9.25	172	15018	1.76	ng	-0.03
78) Terphenyl-d14	13.00	244	12169	1.11	ng	-0.02
Target Compounds						Qvalue
70) Phenanthrene	11.45	178	279555	15.97	ng	99
71) Anthracene	11.49	178	99185	5.46	ng	98
72) Carbazole	11.64	167	67472	3.98	ng	97
74) Fluoranthene	12.64	202	634220	35.06	ng	95
77) Pyrene	12.85	202	511186	27.35	ng	98
80) Benzo(a)anthracene	14.04	228	271330m	20.18	ng	
82) Chrysene	14.08	228	258304m	19.69	ng	
85) Indeno(1,2,3-cd)pyrene	16.91	276	78649	6.11	ng	# 100
87) Benzo(b)fluoranthene	15.07	252	278804m	19.34	ng	
88) Benzo(k)fluoranthene	15.09	252	59999m	4.59	ng	
89) Benzo(a)pyrene	15.43	252	181970	14.14	ng	97
91) Benzo(g,h,i)perylene	17.33	276	71361	5.43	ng	100

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

Quantitation Report (QT Reviewed)

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
Data File : BF083810.D
Acq On : 15 Dec 2015 11:02
Operator : UM/IZ
Sample : G4761-07DL 100X
Misc :
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 15 11:39:52 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 14 01:30:12 2015
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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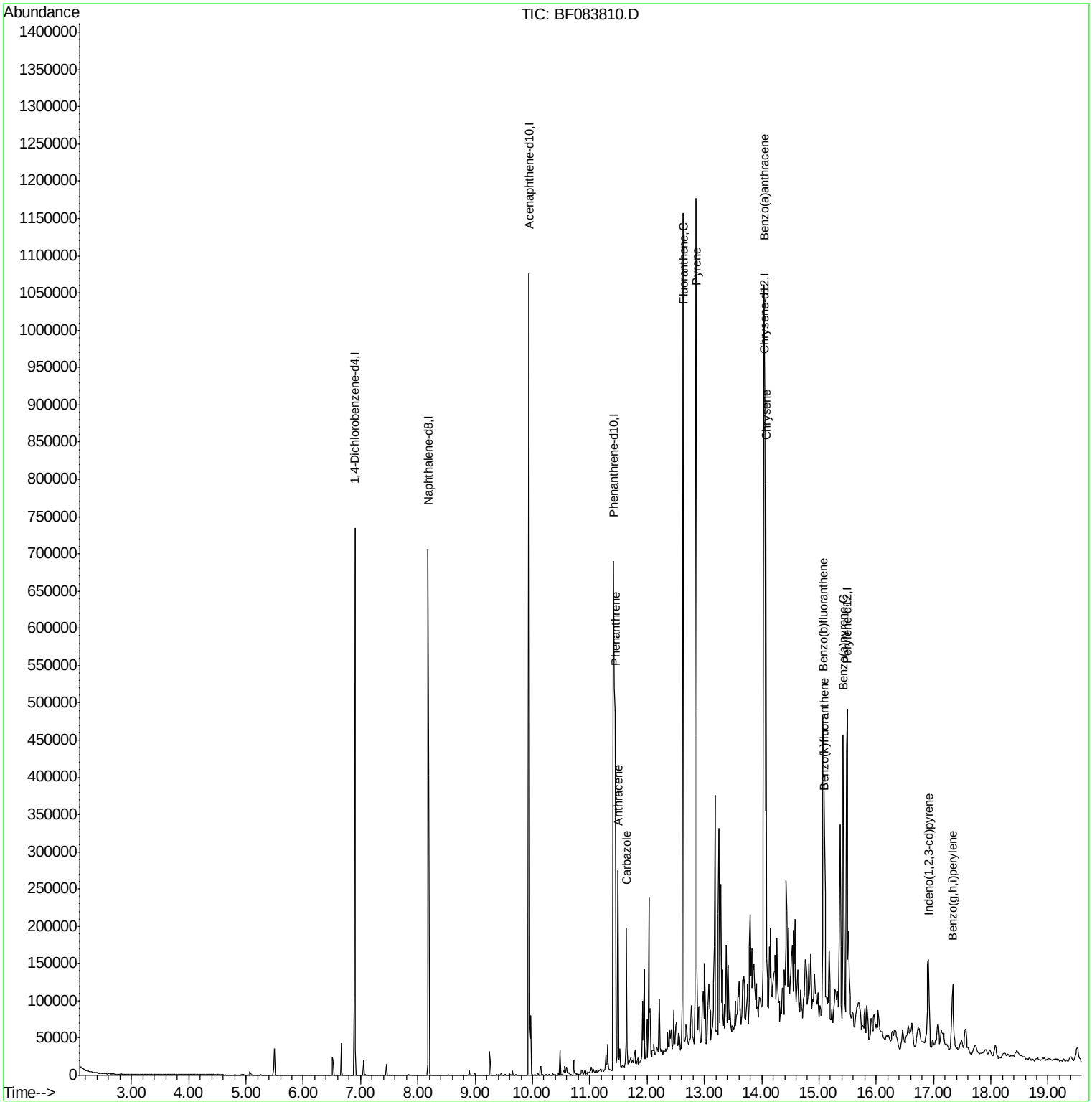
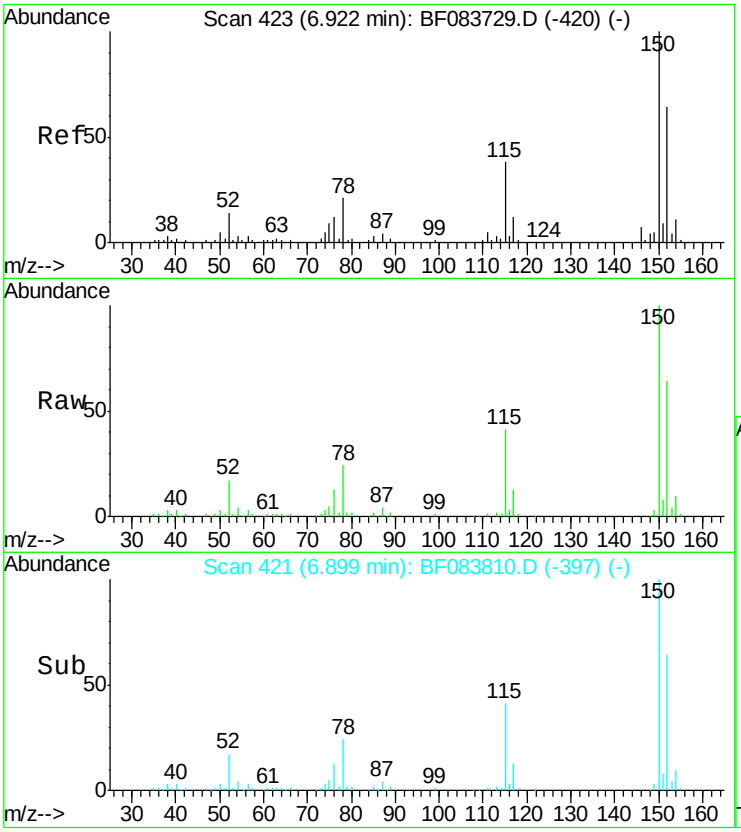
12/15/2015 6:13:57 PM

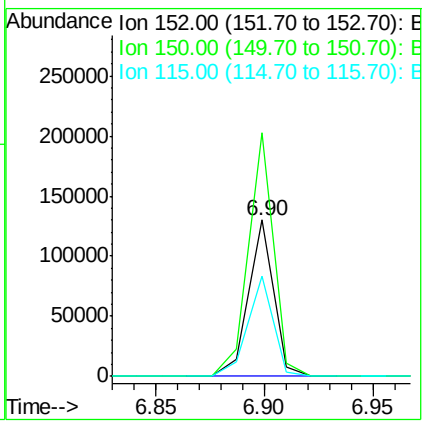




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

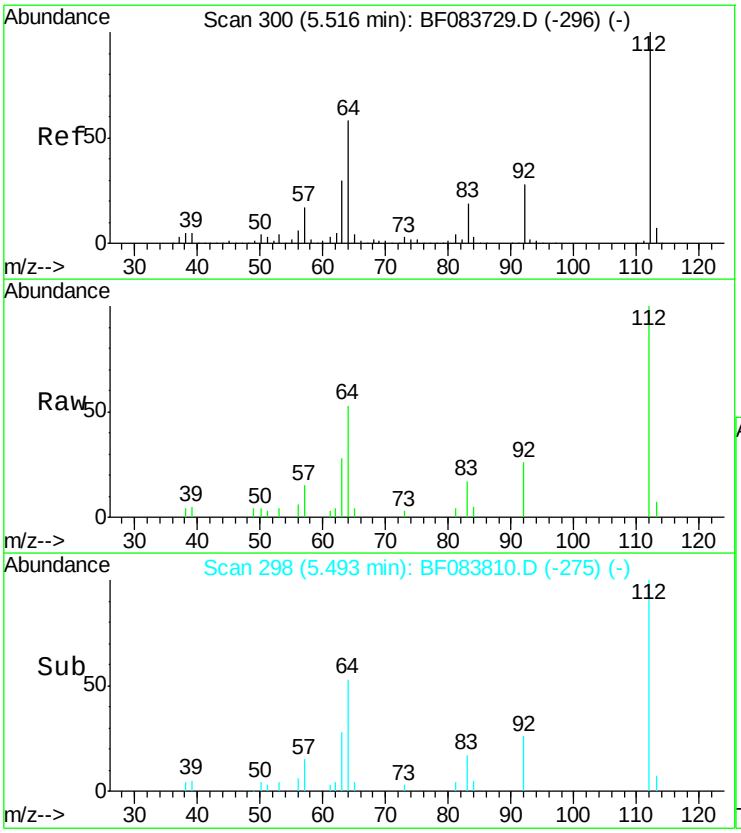
Tgt Ion:152 Resp: 103939

Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.5	189.7
115	63.9	52.3	78.5



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

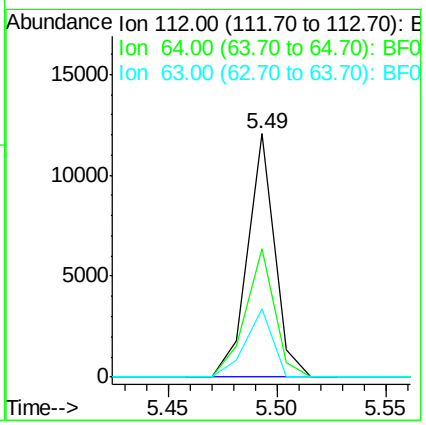
Manual Integrations APPROVED
MMdadoda
12/15/2015 6:13:57 PM

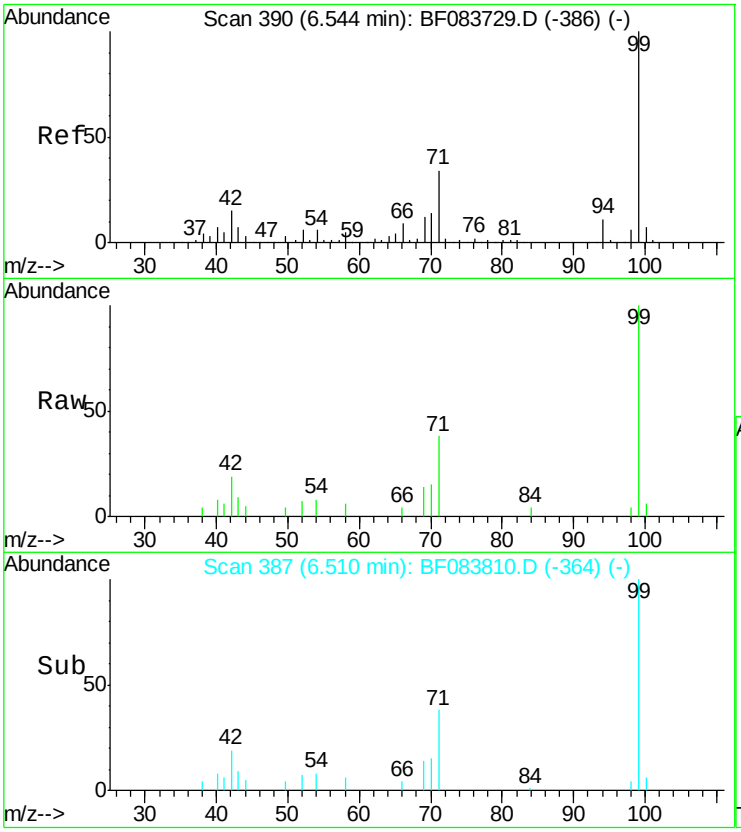


#5
2-Fluorophenol
Concen: 1.61 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:112 Resp: 10400

Ion	Ratio	Lower	Upper
112	100		
64	52.9	50.5	75.7
63	28.1	25.8	38.6

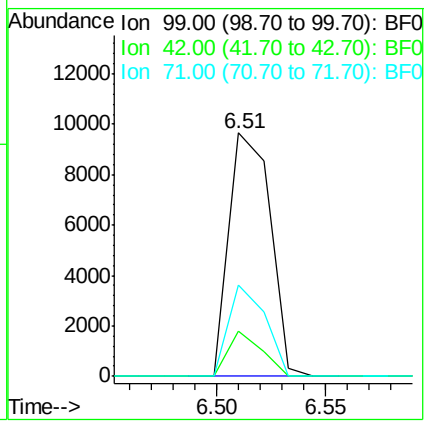




#7
Phenol-d6
Concen: 1.56 ng
RT: 6.51 min Scan# 387
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

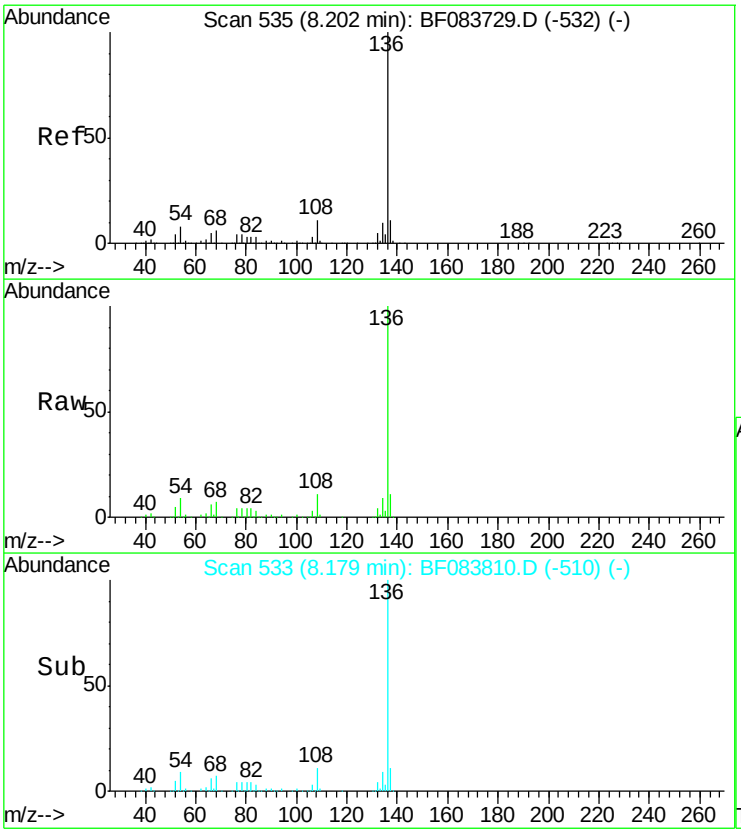
Tgt Ion: 99 Resp: 12738

Ion	Ratio	Lower	Upper
99	100		
42	18.5	17.3	25.9
71	37.7	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

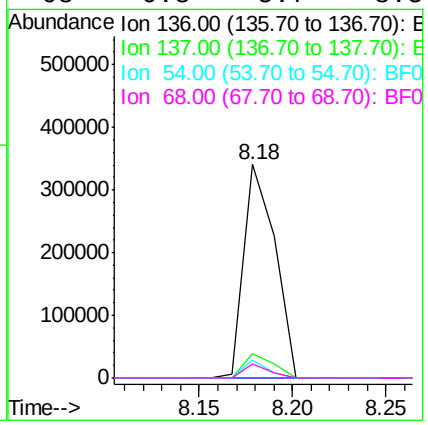
Manual Integrations APPROVED
MMdadoda
12/15/2015 6:13:57 PM

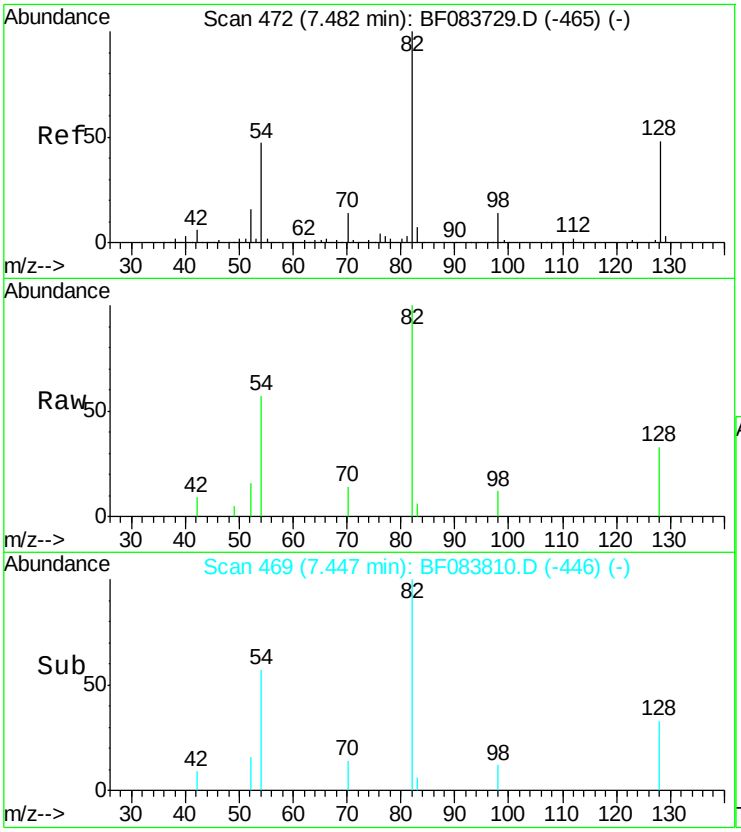


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:136 Resp: 394722

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	8.5	7.8	11.6
68	6.8	5.7	8.5

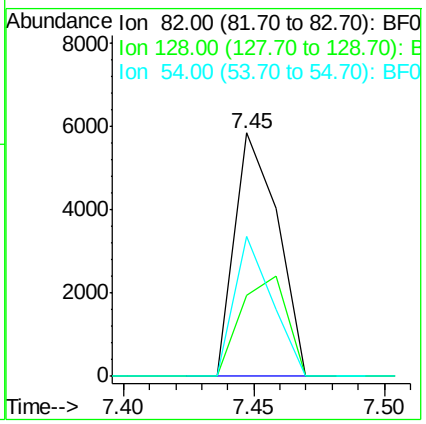




#23
Nitrobenzene-d5
Concen: 0.96 ng
RT: 7.45 min Scan# 469
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion: 82 Resp: 6778

Ion	Ratio	Lower	Upper
82	100		
128	33.4	30.7	46.1
54	57.4	42.5	63.7



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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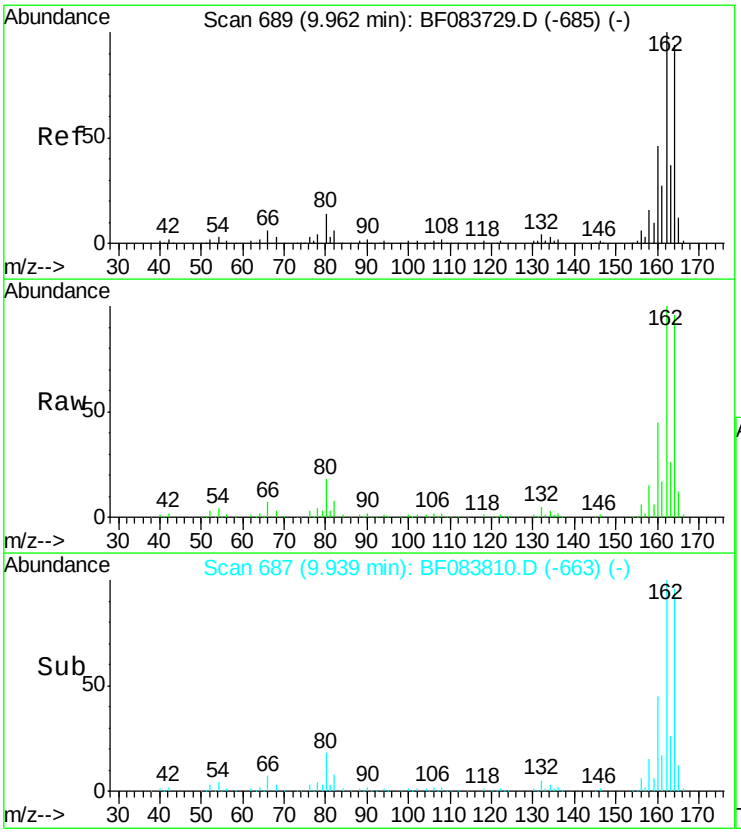
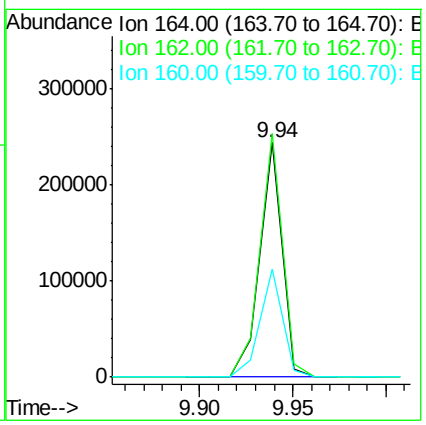
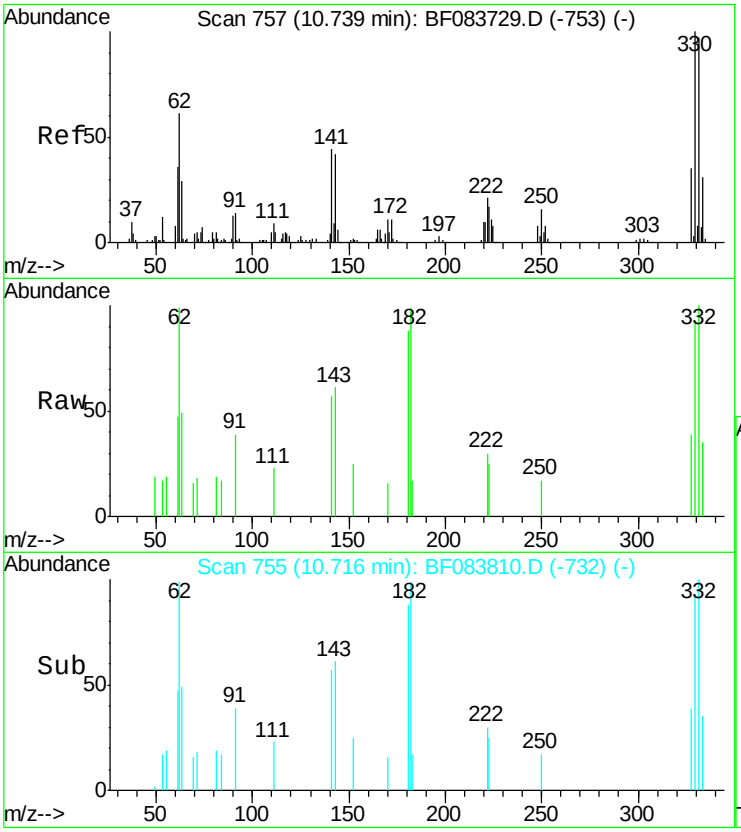


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.94 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:164 Resp: 200515

Ion	Ratio	Lower	Upper
164	100		
162	103.8	78.8	118.2
160	46.3	33.4	50.2

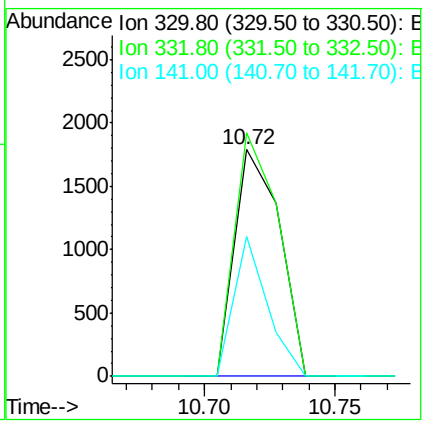




#41
2,4,6-Tribromophenol
Concen: 1.06 ng
RT: 10.72 min Scan# 755
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:330 Resp: 2167

Ion	Ratio	Lower	Upper
330	100		
332	104.2	0.0	0.0#
141	45.8	0.0	0.0#



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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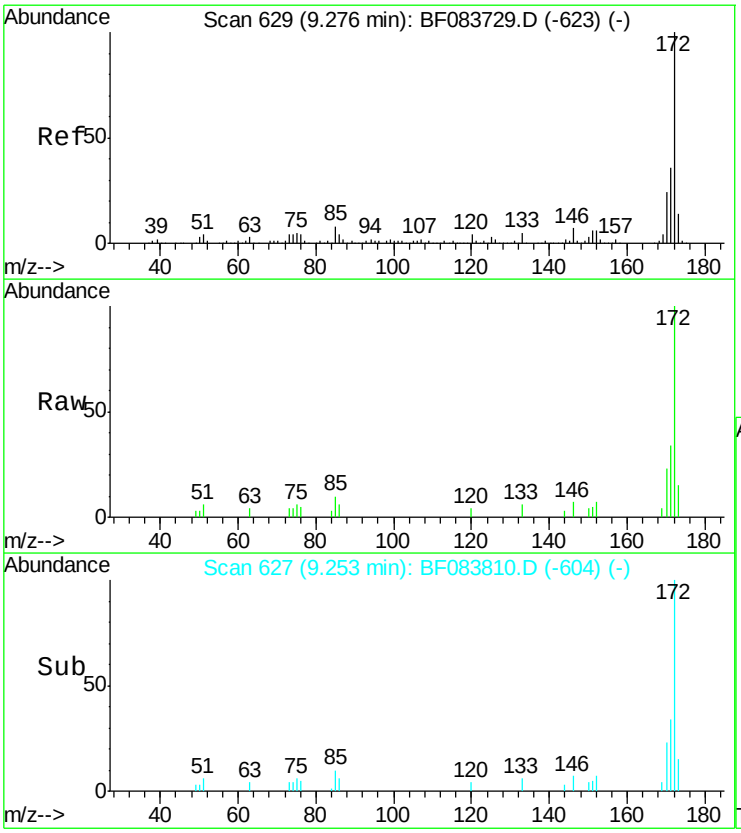
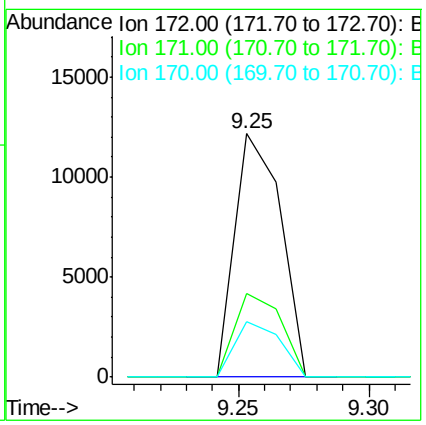
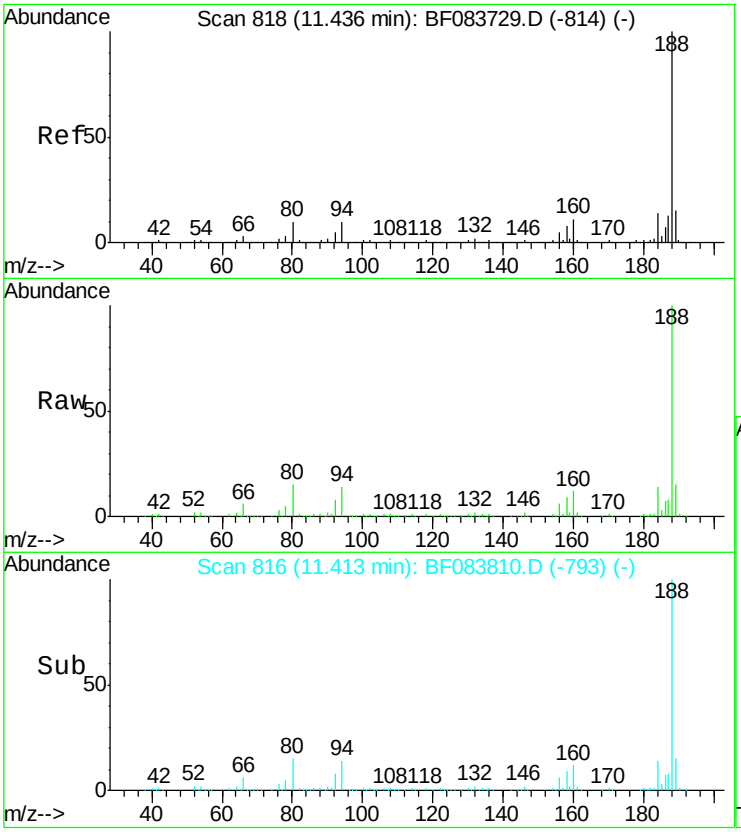


#44
2-Fluorobiphenyl
Concen: 1.76 ng
RT: 9.25 min Scan# 627
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:172 Resp: 15018

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	22.9	19.4	29.0

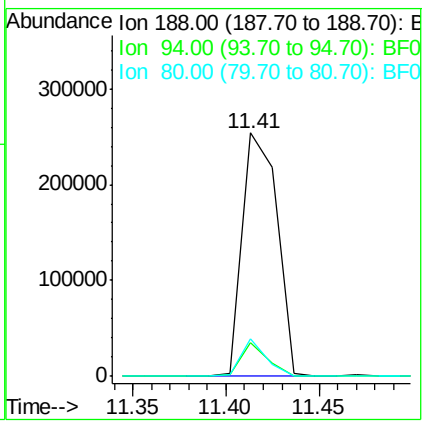




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:188 Resp: 329526

Ion	Ratio	Lower	Upper
188	100		
94	14.1	9.4	14.2
80	15.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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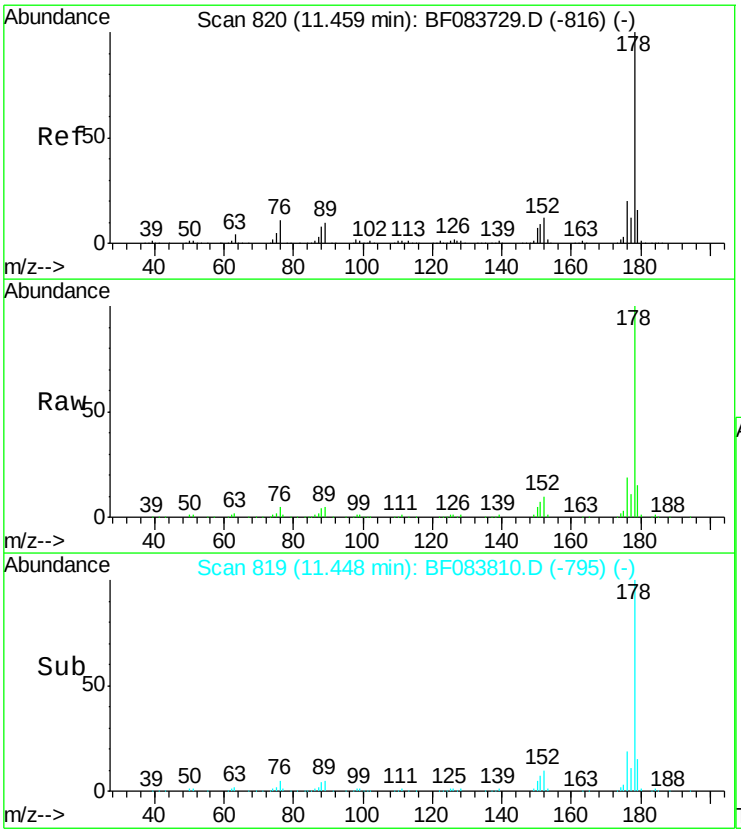
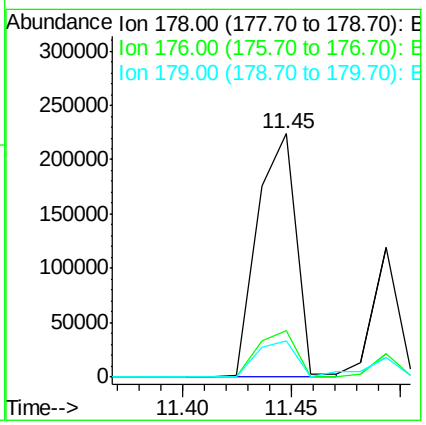
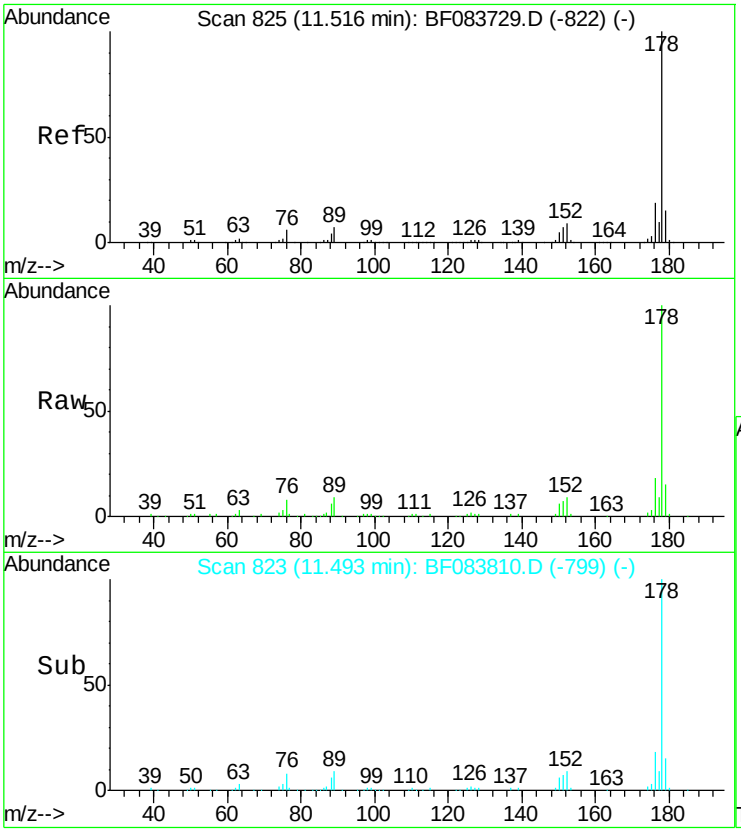


#70
Phenanthrene
Concen: 15.97 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:178 Resp: 279555

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	14.9	12.2	18.4

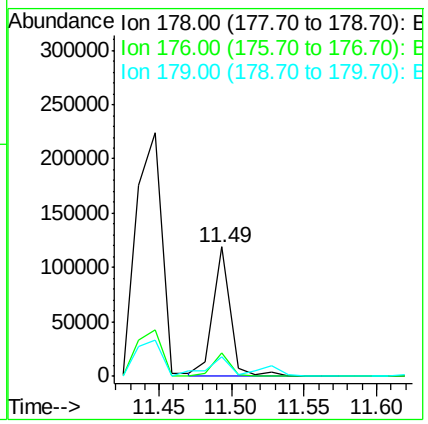




#71
Anthracene
Concen: 5.46 ng
RT: 11.49 min Scan# 823
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

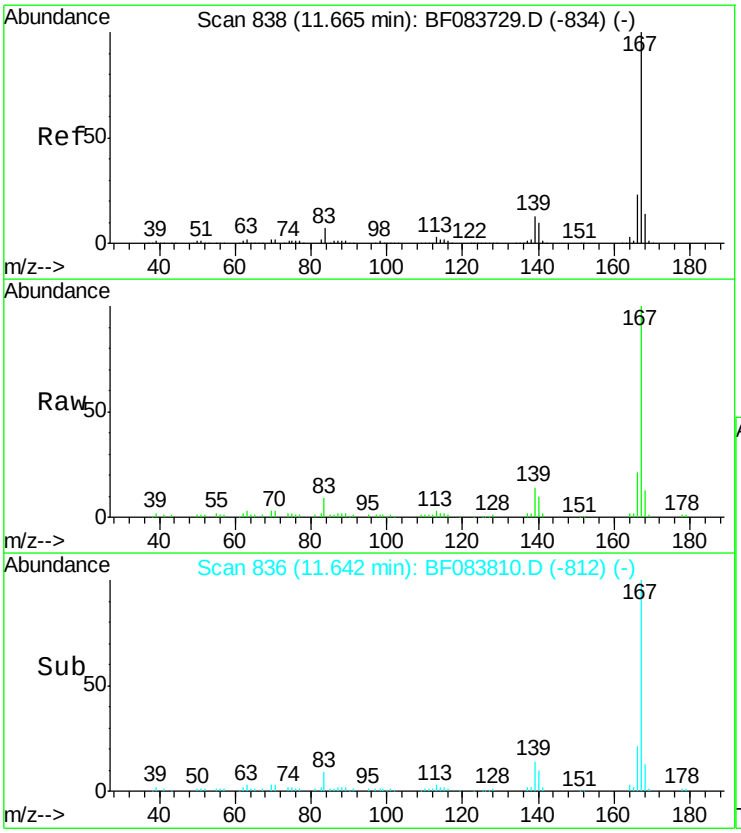
Tgt Ion:178 Resp: 99185

Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.2	22.8
179	15.3	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

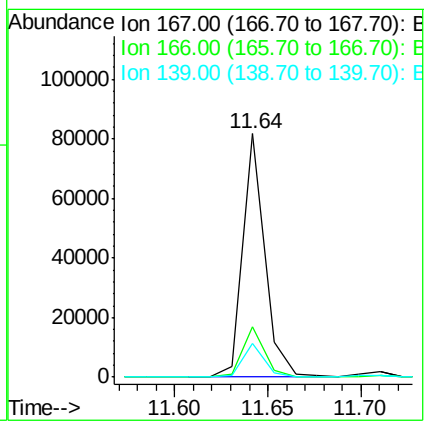
Manual Integrations APPROVED
MMdadoda
12/15/2015 6:13:57 PM

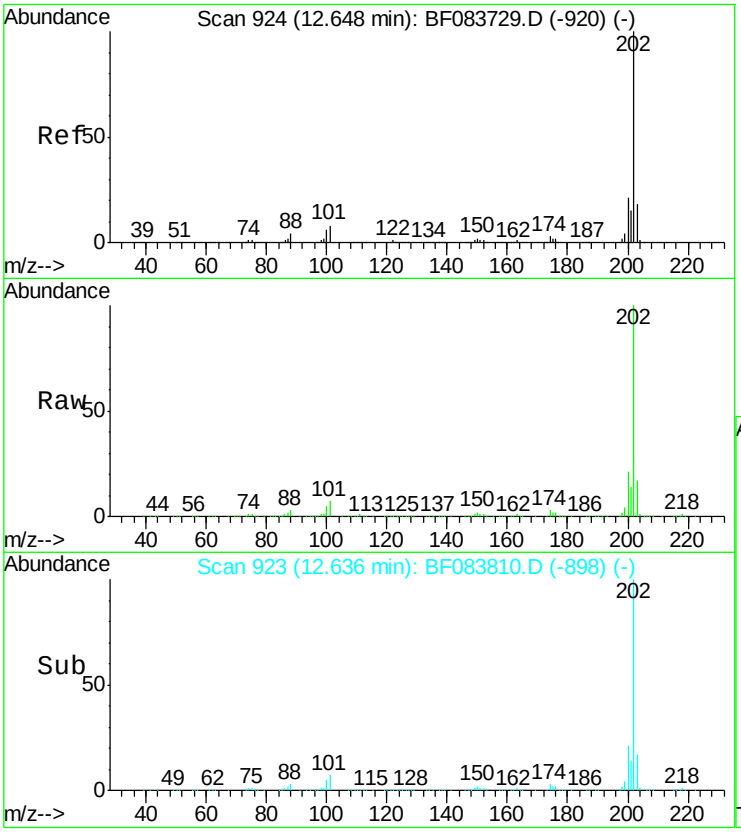


#72
Carbazole
Concen: 3.98 ng
RT: 11.64 min Scan# 836
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:167 Resp: 67472

Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.2	25.8
139	13.7	9.3	13.9

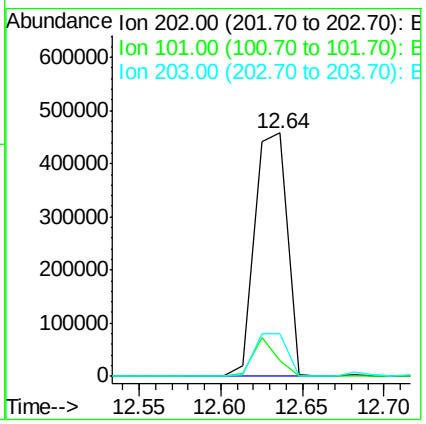




#74
Fluoranthene
Concen: 35.06 ng
RT: 12.64 min Scan# 923
Delta R.T. -0.01 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:202 Resp: 634220

Ion	Ratio	Lower	Upper
202	100		
101	6.7	0.0	31.5
203	17.4	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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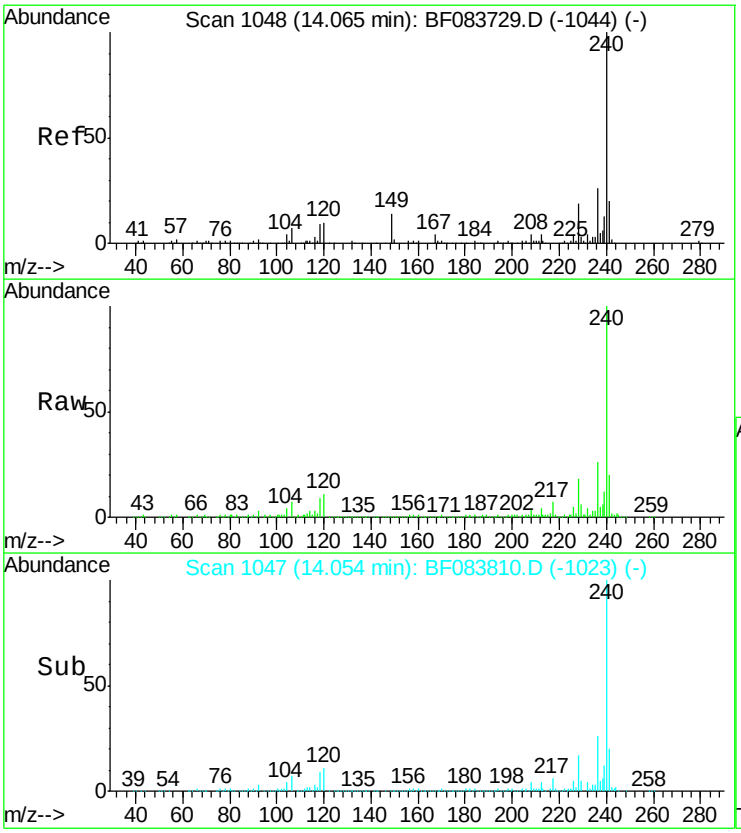
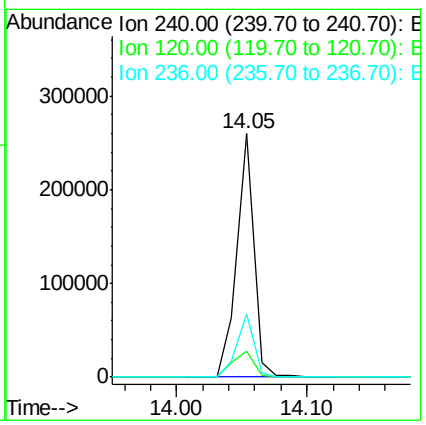
12/15/2015 6:13:57 PM

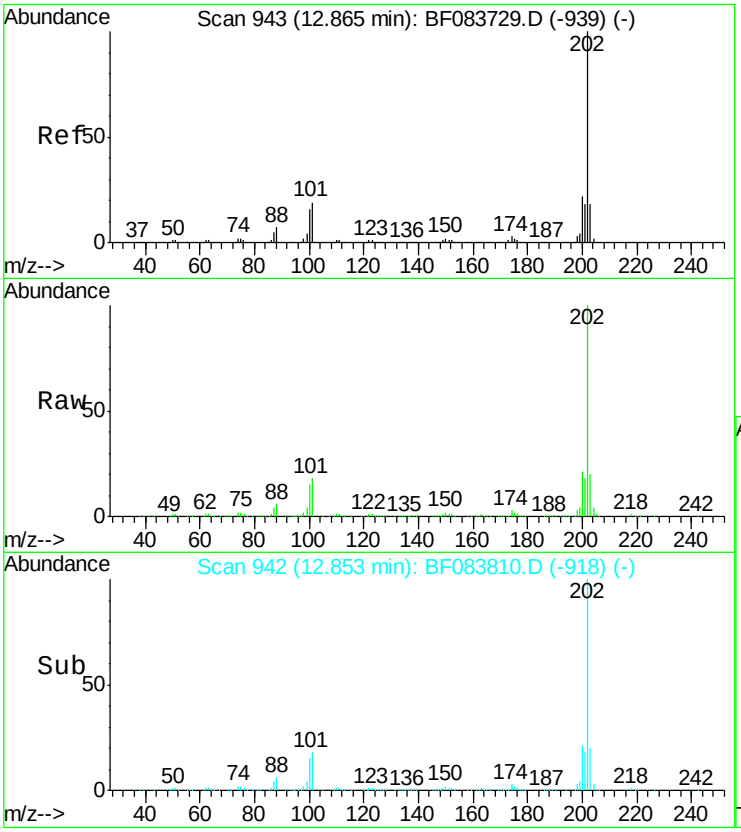


#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.05 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:240 Resp: 236475

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.1	12.1
236	25.7	20.8	31.2

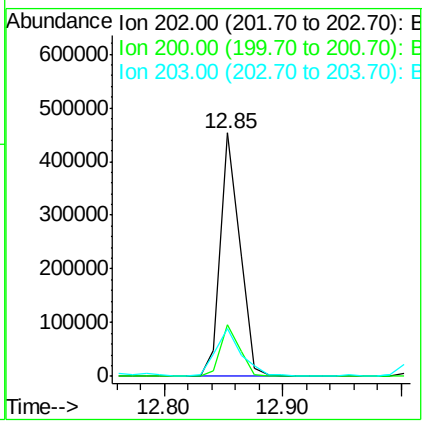




#77
Pyrene
Concen: 27.35 ng
RT: 12.85 min Scan# 942
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

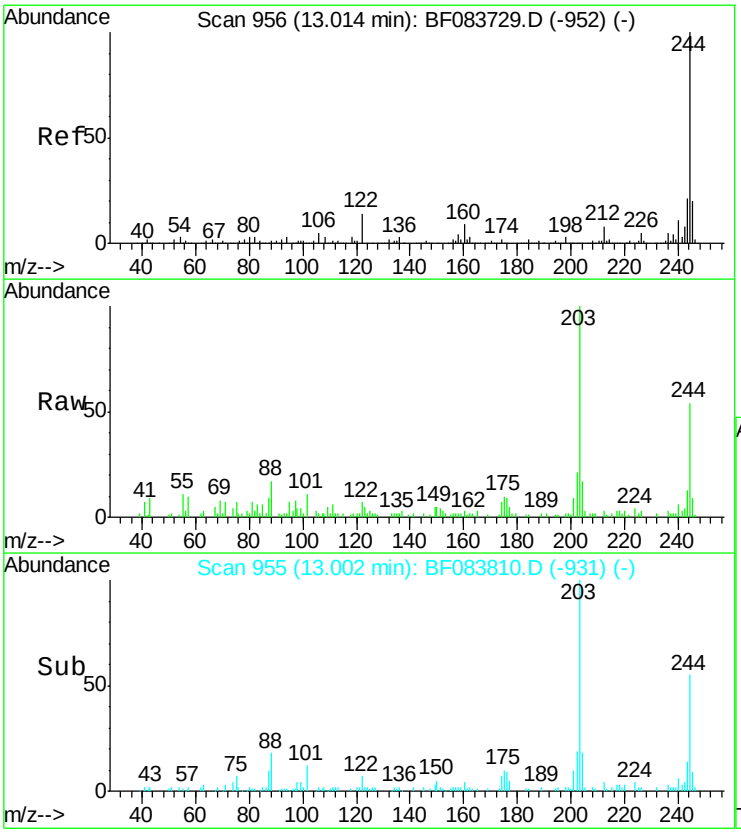
Tgt Ion:202 Resp: 511186

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	19.8	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

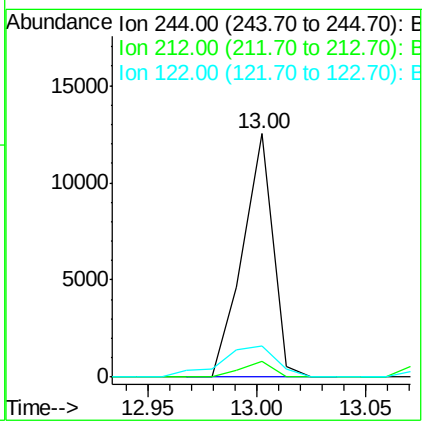
Manual Integrations APPROVED
MMdadoda
12/15/2015 6:13:57 PM

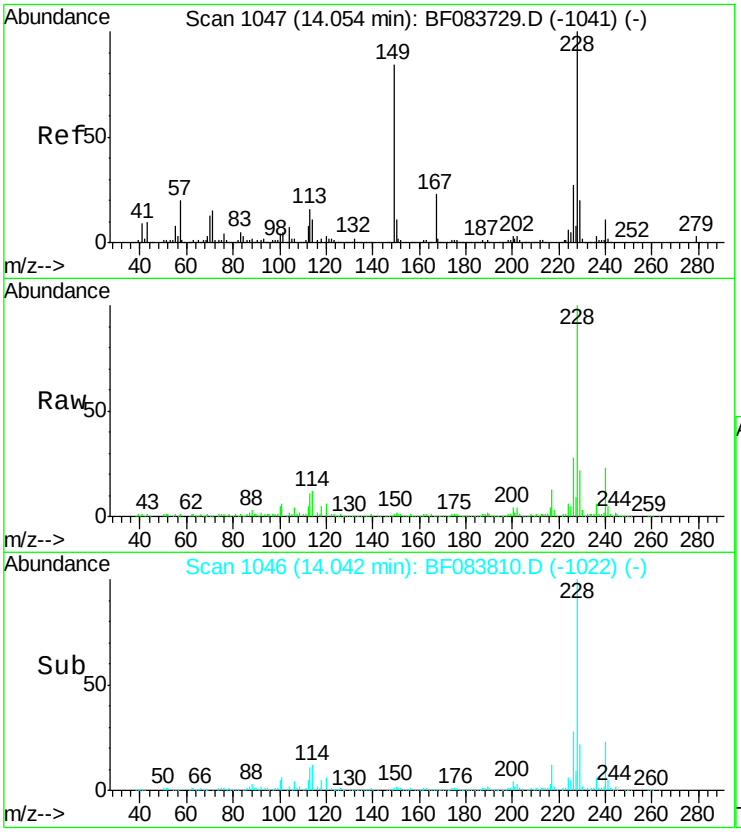


#78
Terphenyl-d14
Concen: 1.11 ng
RT: 13.00 min Scan# 955
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:244 Resp: 12169

Ion	Ratio	Lower	Upper
244	100		
212	6.4	6.1	9.1
122	12.5	11.0	16.6

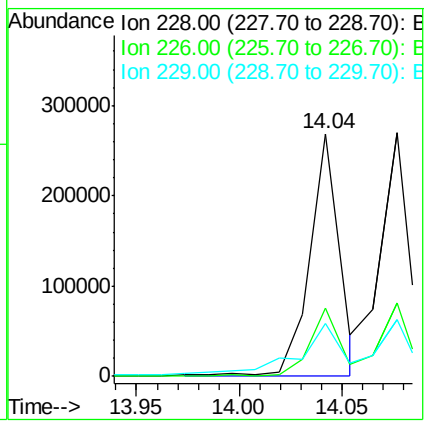




#80
Benzo(a)anthracene
Concen: 20.18 ng m
RT: 14.04 min Scan# 1046
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:228 Resp: 271330

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.3	33.5
229	22.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
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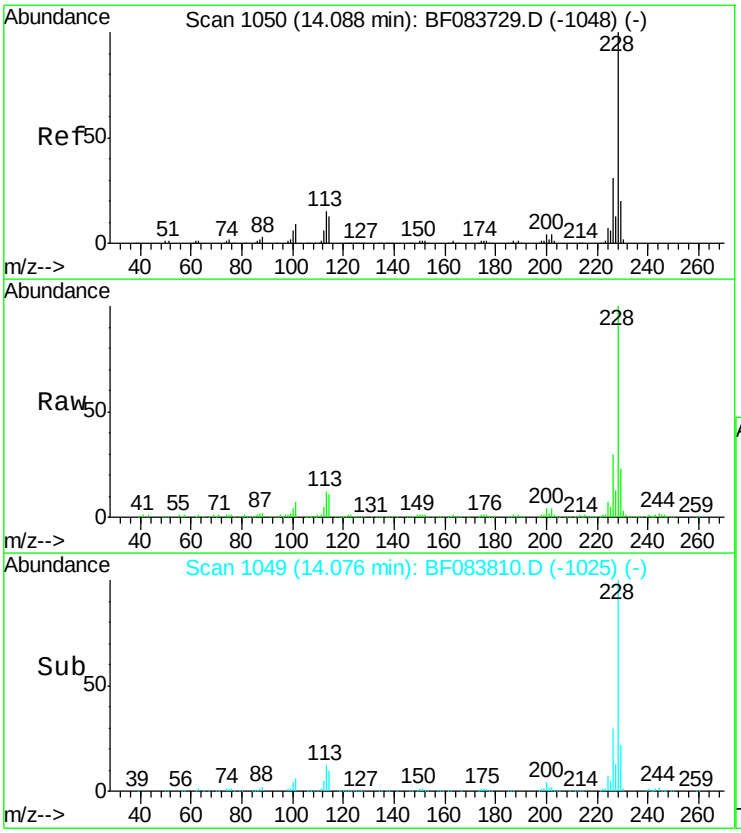
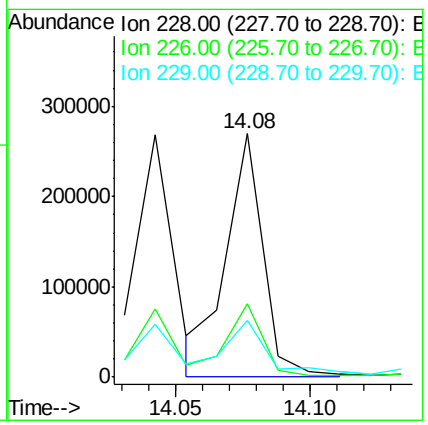
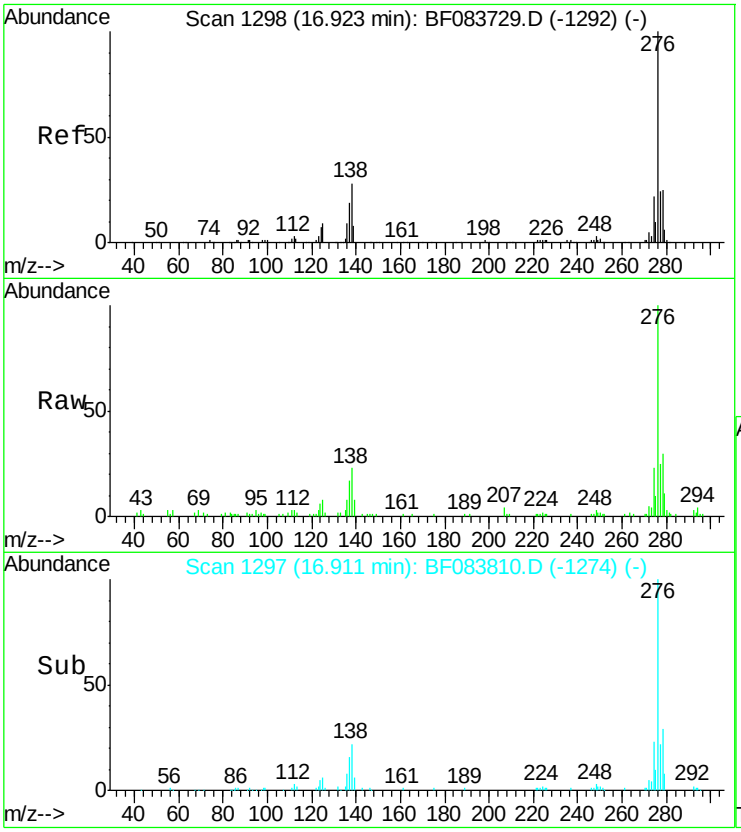


#82
Chrysene
Concen: 19.69 ng m
RT: 14.08 min Scan# 1049
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:228 Resp: 258304

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.7	37.1
229	23.4	16.3	24.5





#85
Indeno(1,2,3-cd)pyrene
Concen: 6.11 ng
RT: 16.91 min Scan# 1297
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:276 Resp: 78649

Ion	Ratio	Lower	Upper
276	100		
138	28.6	0.0	0.0#
277	29.8	0.0	0.0#

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

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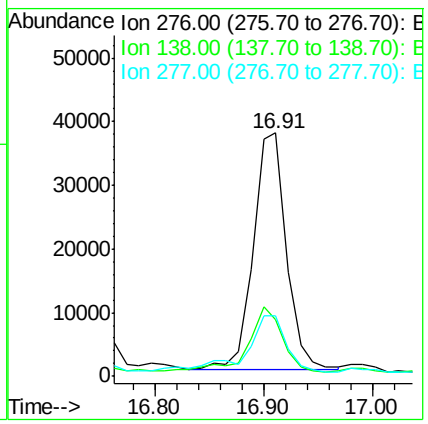
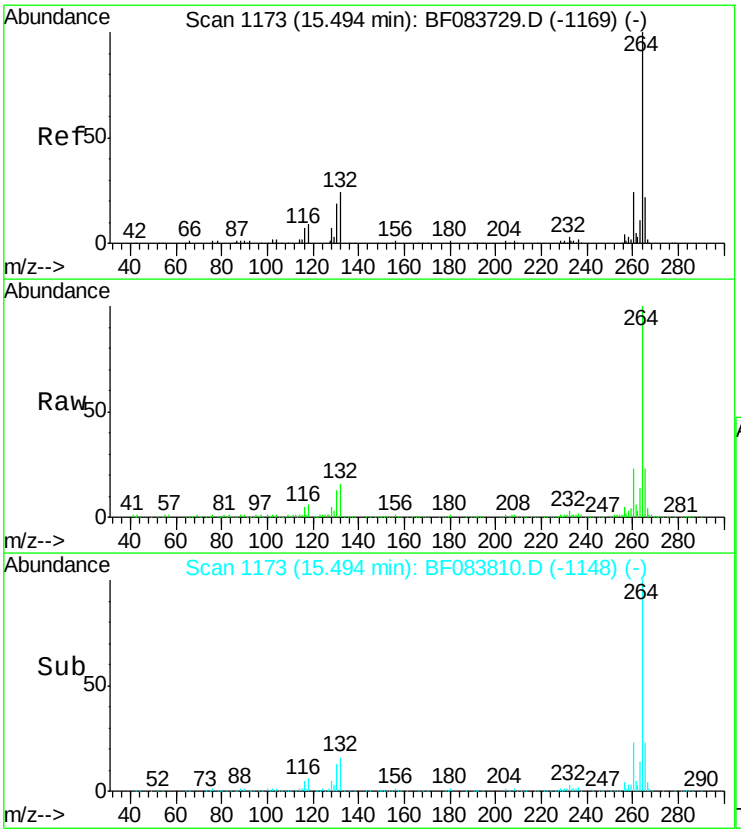
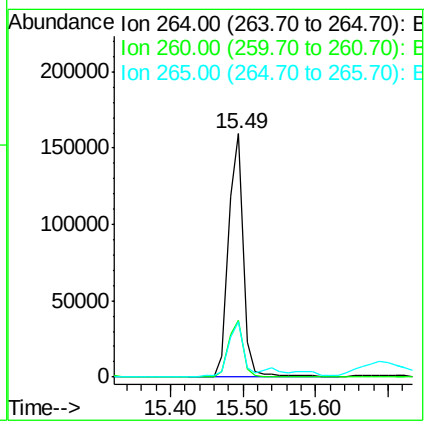


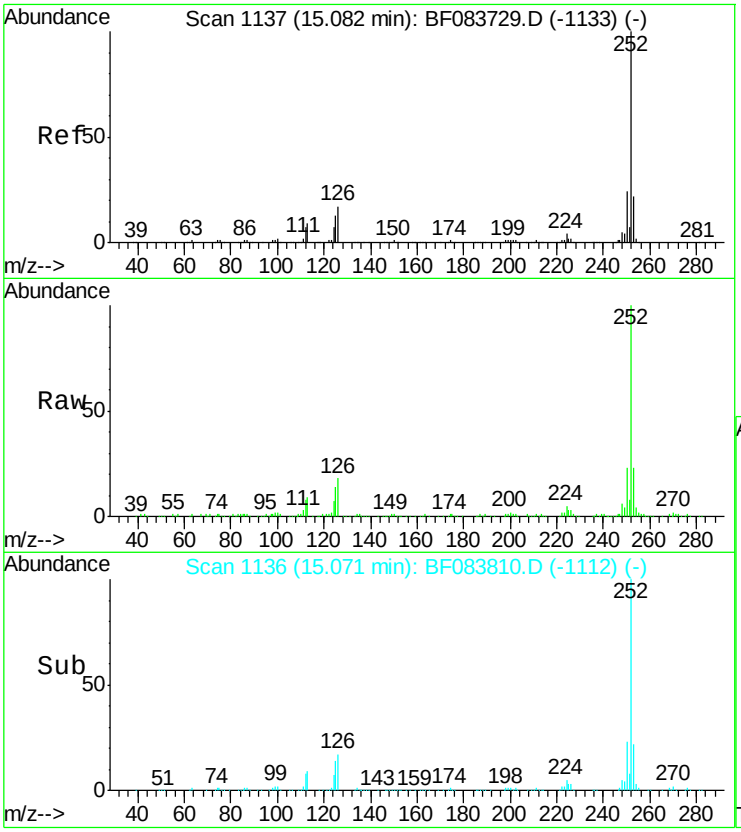


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:264 Resp: 226004

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.4	29.0
265	22.9	17.8	26.6

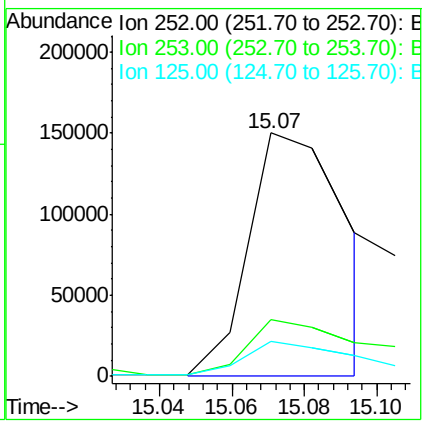




#87
Benzo(b)fluoranthene
Concen: 19.34 ng m
RT: 15.07 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:252 Resp: 278804

Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	14.4	8.2	12.4#



Instrument :
BNA_F
ClientSampleId :
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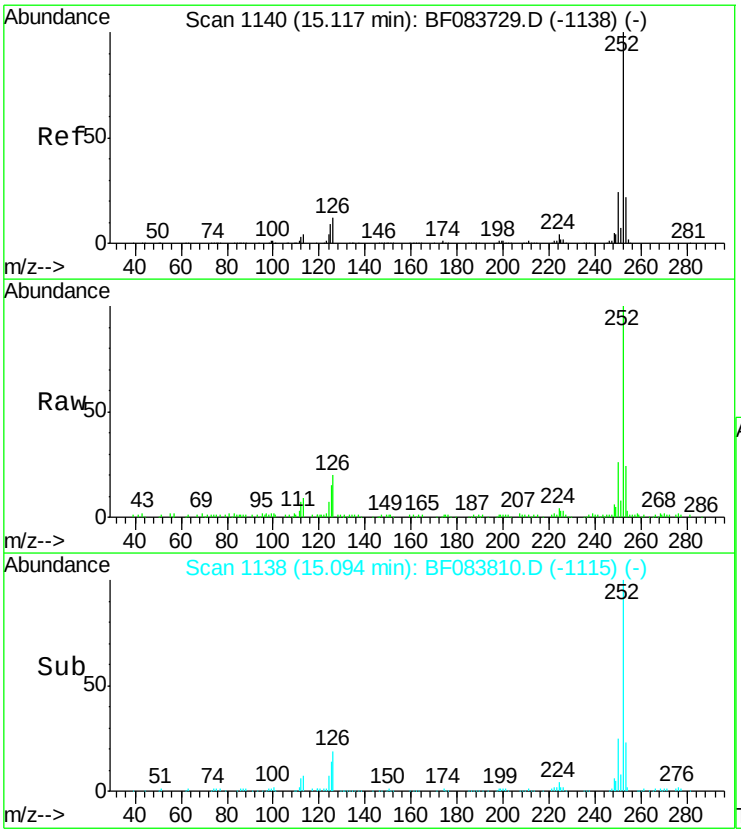
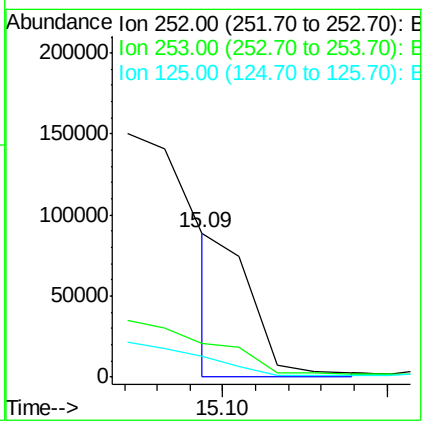
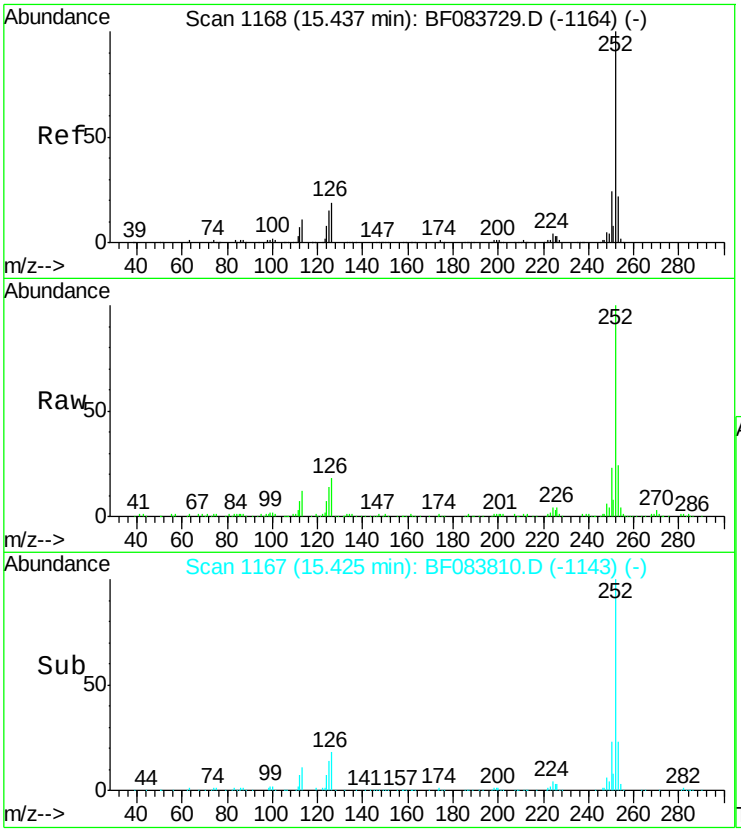


#88
Benzo(k)fluoranthene
Concen: 4.59 ng m
RT: 15.09 min Scan# 1138
Delta R.T. -0.03 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:252 Resp: 59999

Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.6	27.8
125	14.6	11.5	17.3

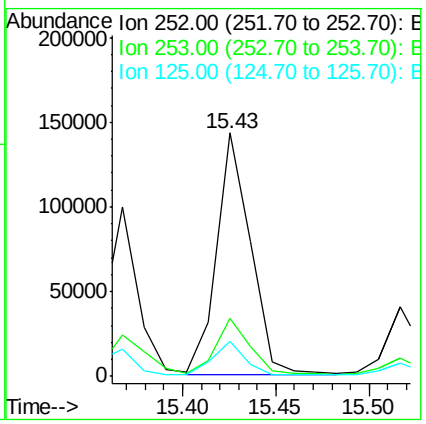




#89
Benzo(a)pyrene
Concen: 14.14 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.02 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:252 Resp: 181970

Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.5	26.3
125	14.2	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENTDL

Manual Integrations APPROVED
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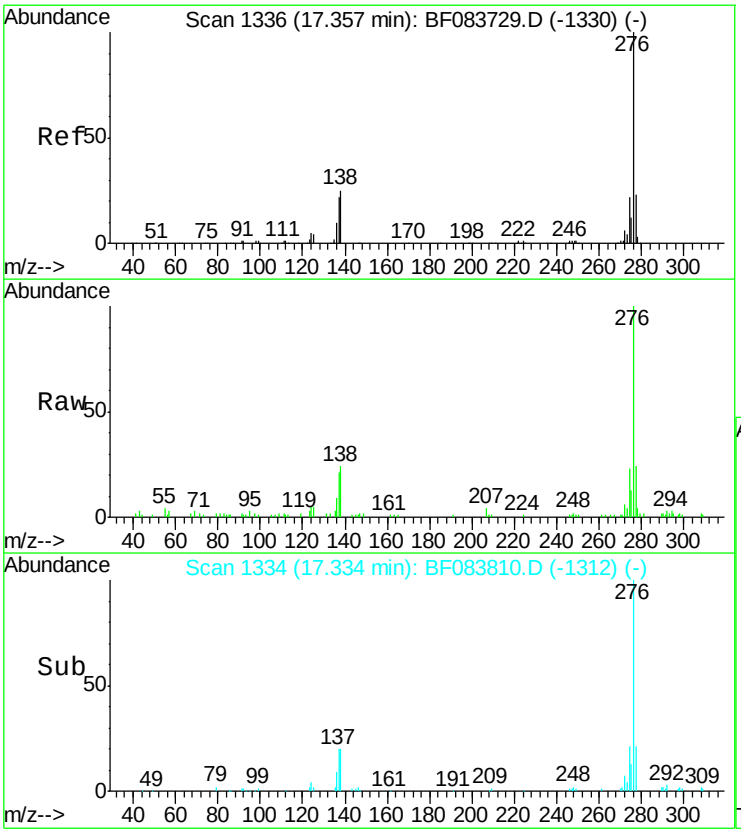

#91
Benzo(g,h,i)perylene
Concen: 5.43 ng
RT: 17.33 min Scan# 1334
Delta R.T. -0.05 min
Lab File: BF083810.D
Acq: 15 Dec 2015 11:02

Tgt Ion:276 Resp: 71361

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	24.2	19.5	29.3