Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
Data File : BF085591.D
Acq On : 19 Mar 2016 23:41
Operator : UM/SJ
Sample : H1796-04 5X
Misc :
ALS Vial : 52 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

Quant Time: Mar 21 12:08:43 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	131982m	20.00	ng		-0.01
21) Naphthalene-d8	8.14	136	561090	20.00	ng		0.00
38) Acenaphthene-d10	9.89	164	221119	20.00	ng		-0.01
63) Phenanthrene-d10	11.37	188	363935	20.00	ng		-0.01
75) Chrysene-d12	14.01	240	275845	20.00	ng		0.00
86) Perylene-d12	15.43	264	285323	20.00	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.45	112	19608	2.50	ng		0.00
7) Phenol-d6	6.48	99	27386	2.72	ng		-0.01
23) Nitrobenzene-d5	7.42	82	14290	1.48	ng		-0.01
41) 2,4,6-Tribromophenol	10.68	330	3807	1.76	ng		-0.01
44) 2-Fluorobiphenyl	9.21	172	33051	0.66	ng		-0.01
78) Terphenyl-d14	12.95	244	20358	1.78	ng		-0.01
Target Compounds							Qvalue
10) Phenol	6.49	94	28059	2.44	ng		95
20) 3+4-Methylphenols	7.27	107	17950	2.06	ng	#	55
31) Naphthalene	8.16	128	129766	4.58	ng		98
57) Fluorene	10.44	166	61053	4.25	ng		100
70) Phenanthrene	11.40	178	452507	23.58	ng		100
71) Anthracene	11.45	178	192207	9.55	ng		96
72) Carbazole	11.60	167	64397	3.71	ng		99
74) Fluoranthene	12.59	202	336862	16.77	ng		92
77) Pyrene	12.81	202	237068	11.97	ng		99
80) Benzo(a)anthracene	14.00	228	115068m	7.19	ng		
82) Chrysene	14.04	228	82649m	5.36	ng		
85) Indeno(1,2,3-cd)pyrene	16.83	276	35280m	2.74	ng		
87) Benzo(b)fluoranthene	15.03	252	106952m	5.74	ng		
88) Benzo(k)fluoranthene	15.05	252	34173m	2.23	ng		
89) Benzo(a)pyrene	15.37	252	79677	5.05	ng		99
91) Benzo(g,h,i)perylene	17.25	276	28937	2.27	ng		96

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

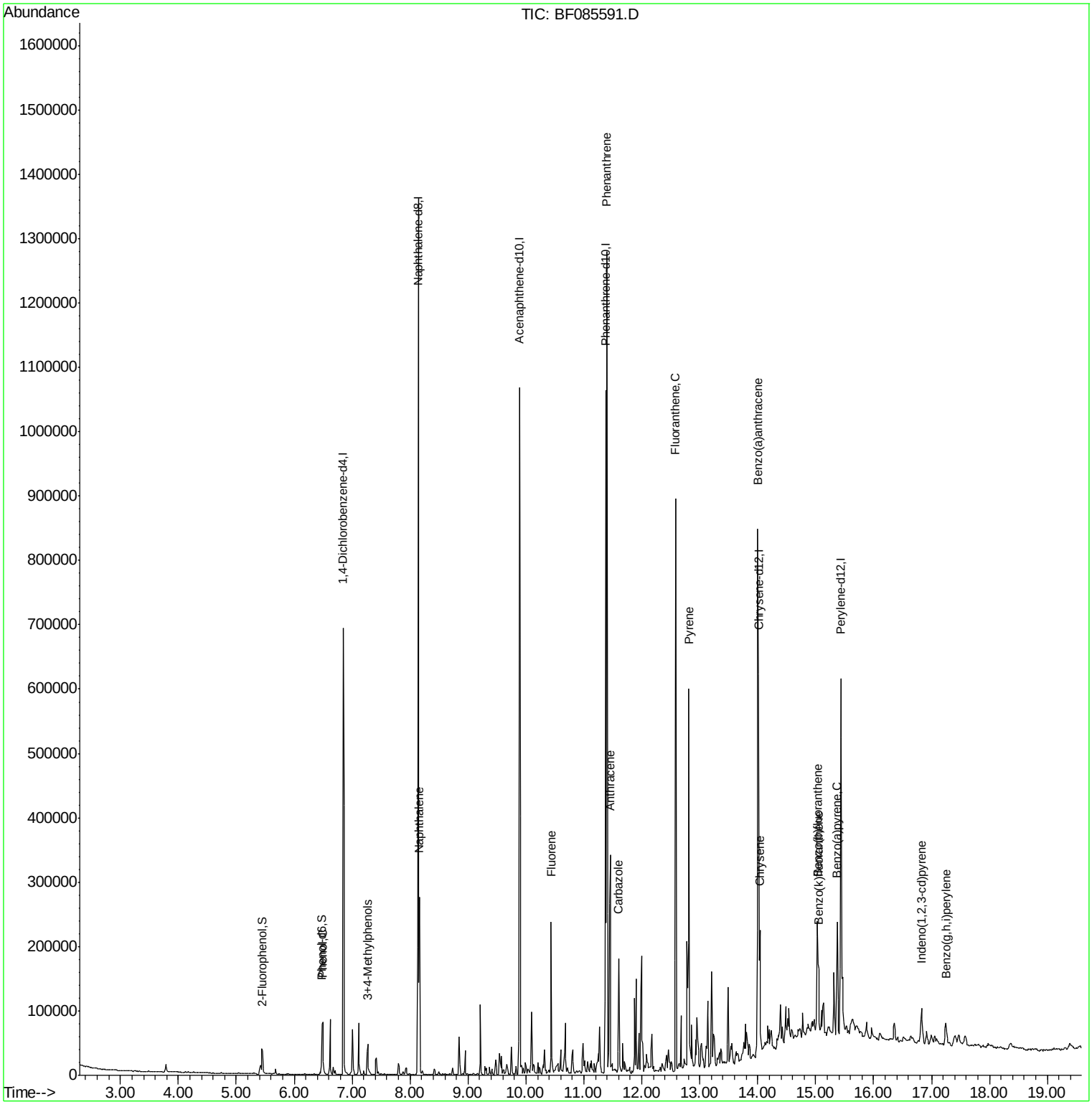
Quantitation Report (LSC Reviewed)

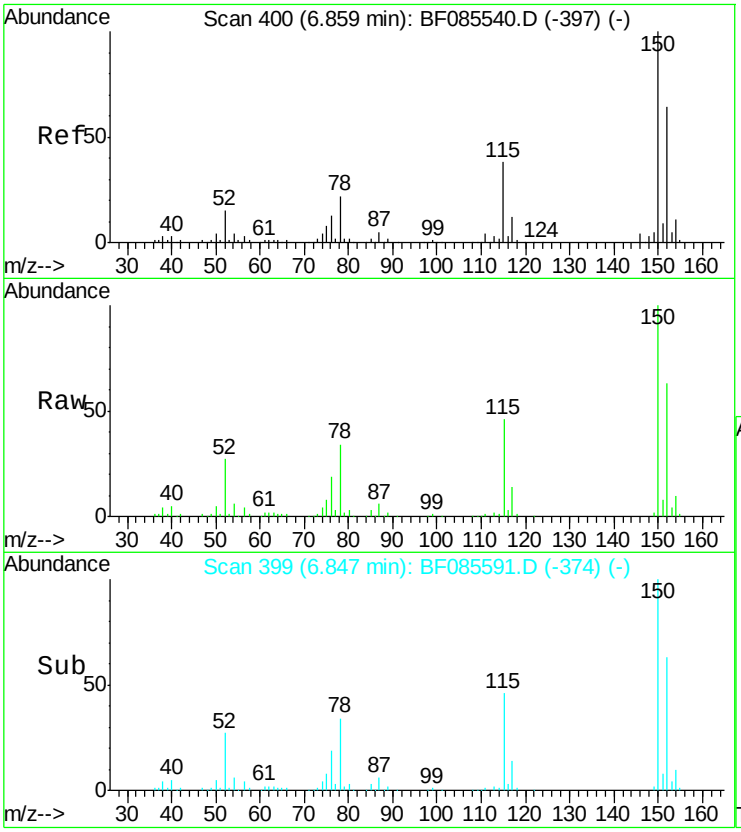
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF031816\
Data File : BF085591.D
Acq On : 19 Mar 2016 23:41
Operator : UM/SJ
Sample : H1796-04 5X
Misc :
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 21 12:08:43 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 23:31:39 2016
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

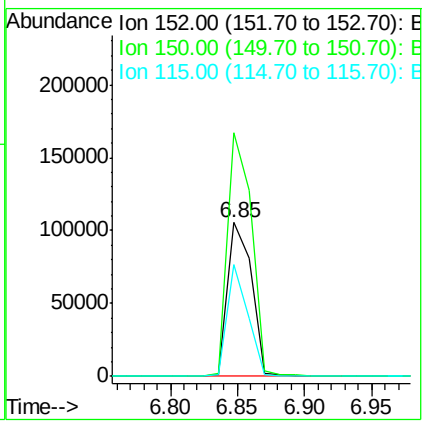




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.85 min Scan# 399
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

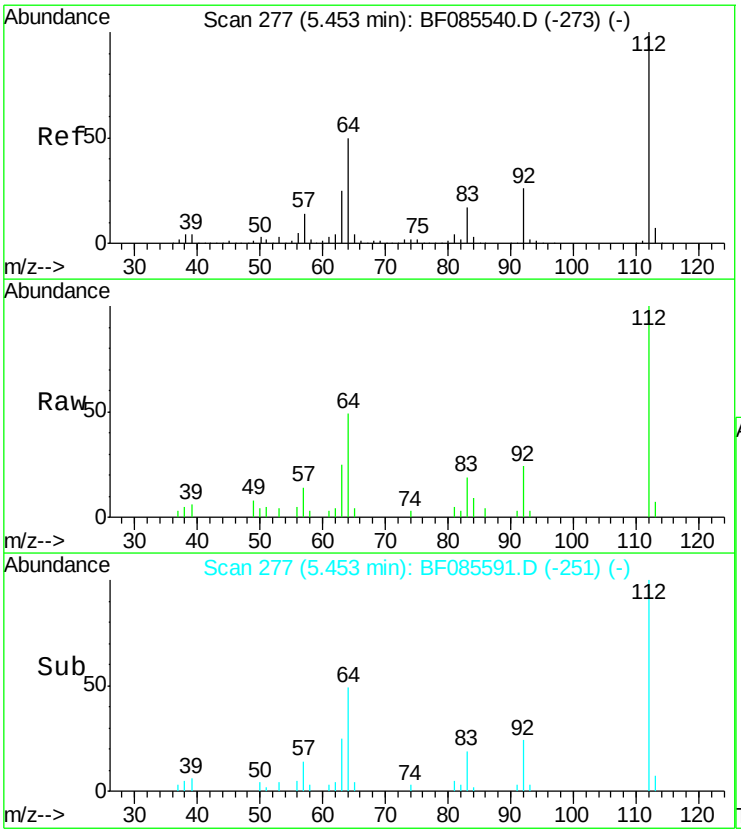
Tgt Ion:152 Resp: 131982

Ion	Ratio	Lower	Upper
152	100		
150	158.1	124.2	186.2
115	72.8	47.0	70.6#



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

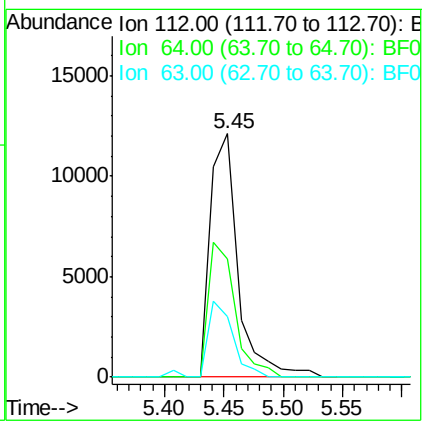
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

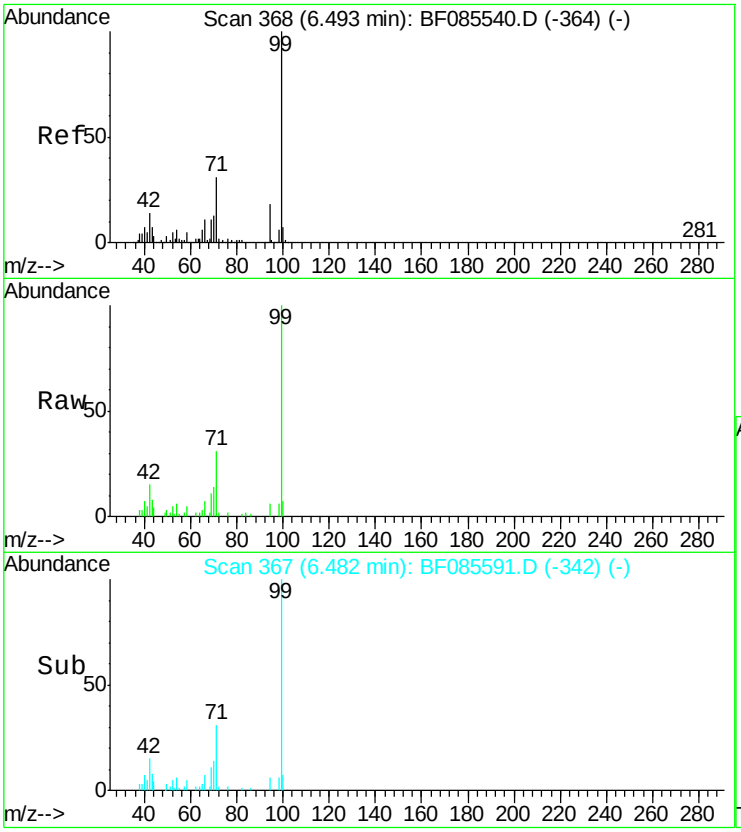


#5
2-Fluorophenol
Concen: 2.50 ng
RT: 5.45 min Scan# 277
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:112 Resp: 19608

Ion	Ratio	Lower	Upper
112	100		
64	48.6	39.9	59.9
63	25.1	20.2	30.2

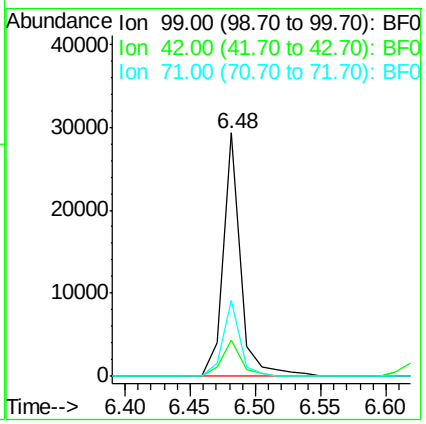




#7
Phenol-d6
Concen: 2.72 ng
RT: 6.48 min Scan# 367
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

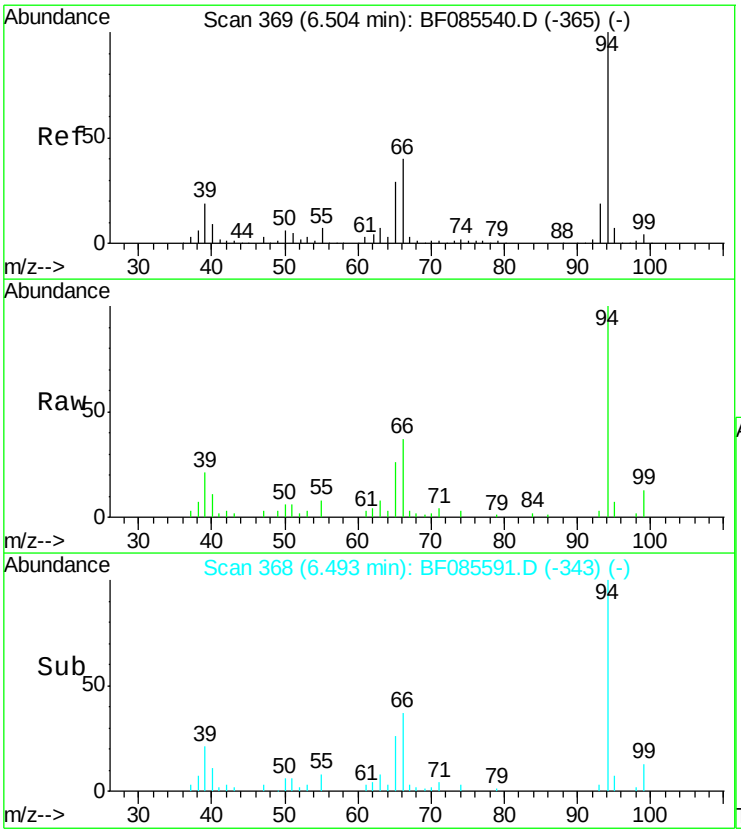
Tgt Ion: 99 Resp: 27386

Ion	Ratio	Lower	Upper
99	100		
42	14.7	11.1	16.7
71	31.3	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

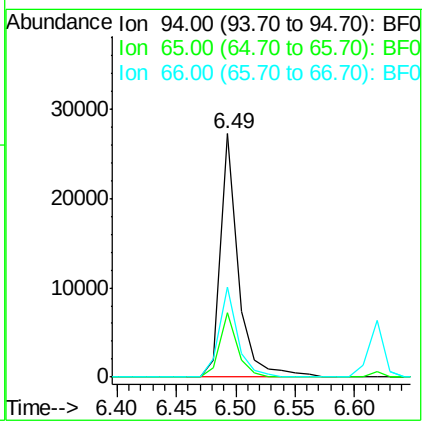
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

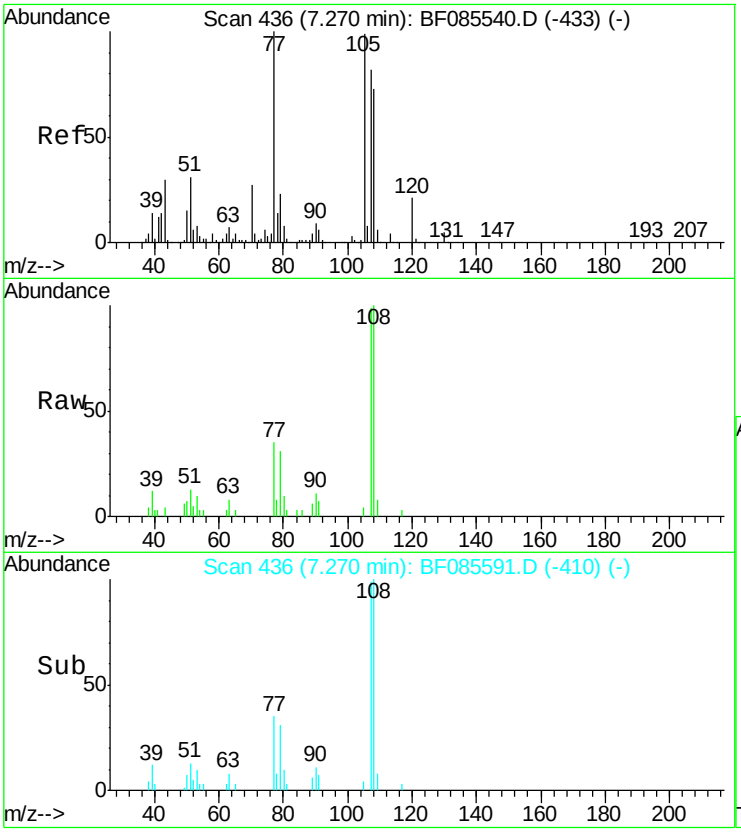


#10
Phenol
Concen: 2.44 ng
RT: 6.49 min Scan# 368
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion: 94 Resp: 28059

Ion	Ratio	Lower	Upper
94	100		
65	26.4	8.6	48.6
66	36.9	20.0	60.0

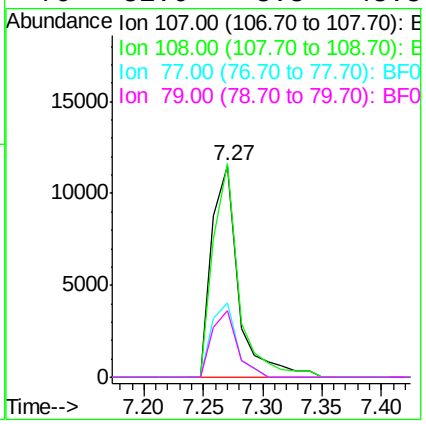




#20
3+4-Methylphenols
Concen: 2.06 ng
RT: 7.27 min Scan# 436
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

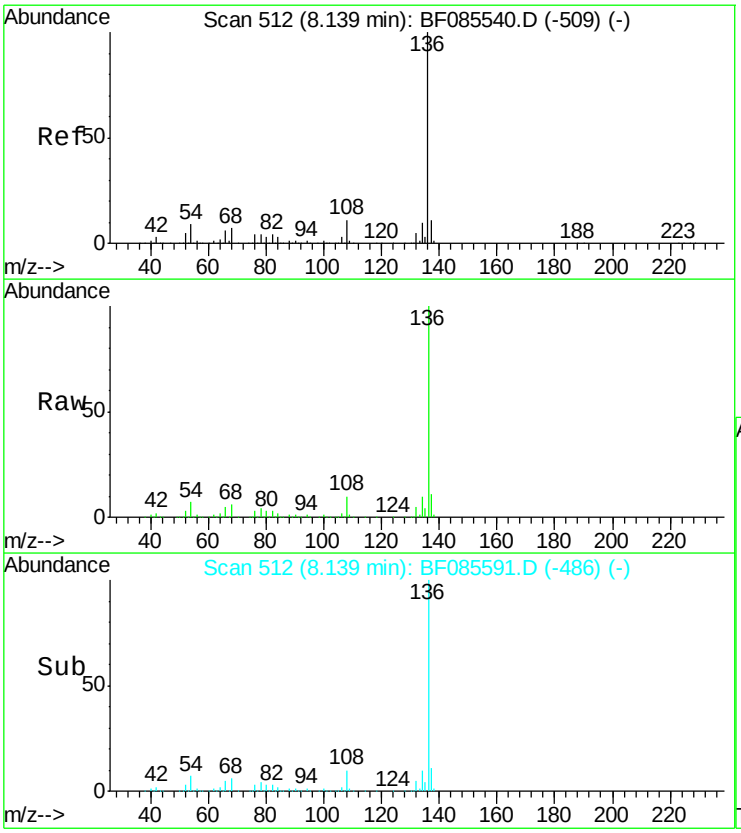
Tgt Ion:107 Resp: 17950

Ion	Ratio	Lower	Upper
107	100		
108	101.0	69.3	109.3
77	35.2	101.7	141.7#
79	31.6	8.3	48.3



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

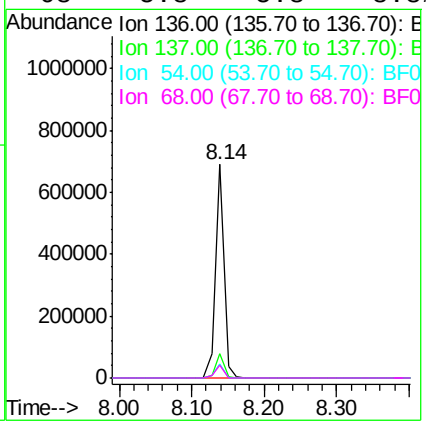
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

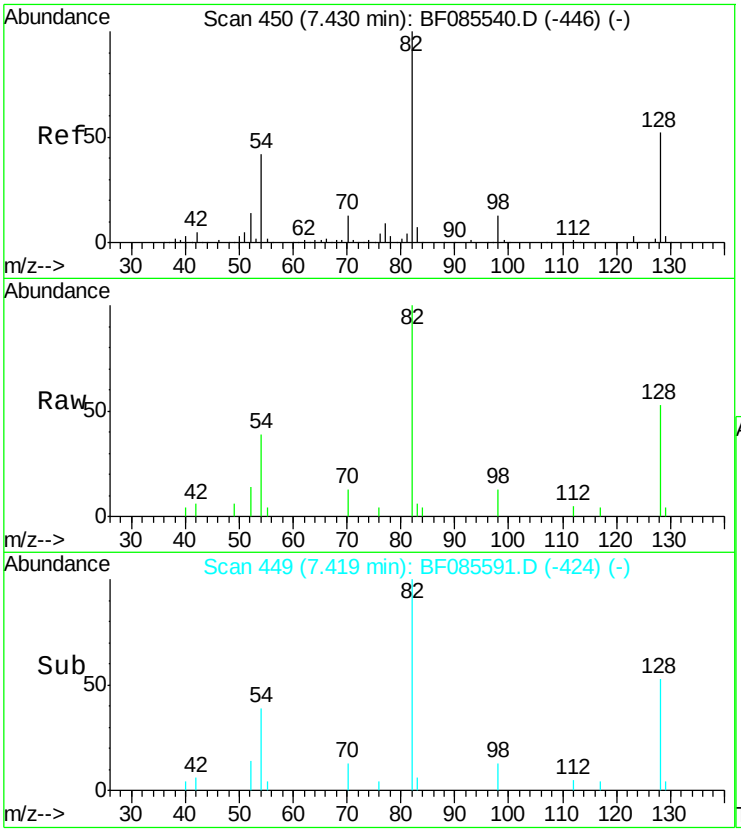


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.14 min Scan# 512
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:136 Resp: 561090

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.1	13.7
54	6.7	7.4	11.0#
68	5.8	5.8	8.8#

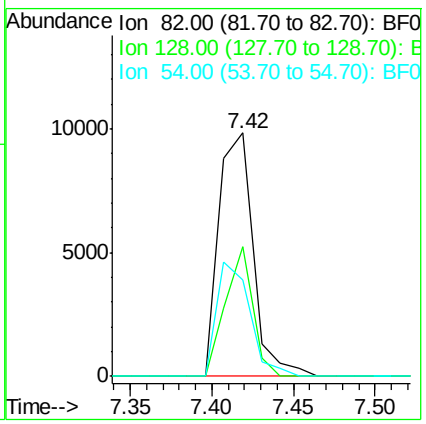




#23
Nitrobenzene-d5
Concen: 1.48 ng
RT: 7.42 min Scan# 449
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

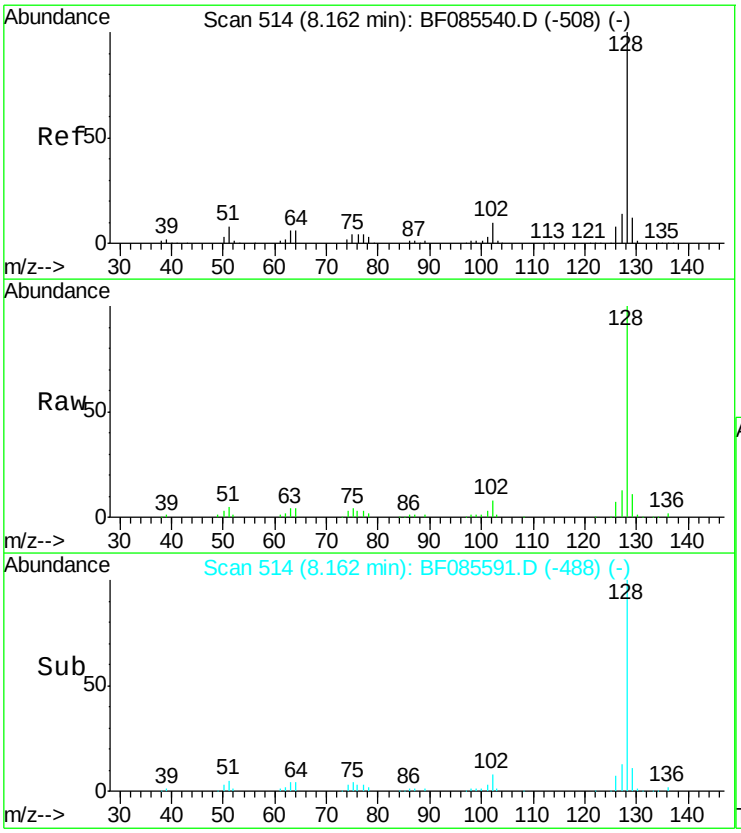
Tgt Ion: 82 Resp: 14290

Ion	Ratio	Lower	Upper
82	100		
128	53.5	41.8	62.8
54	39.4	33.4	50.0



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

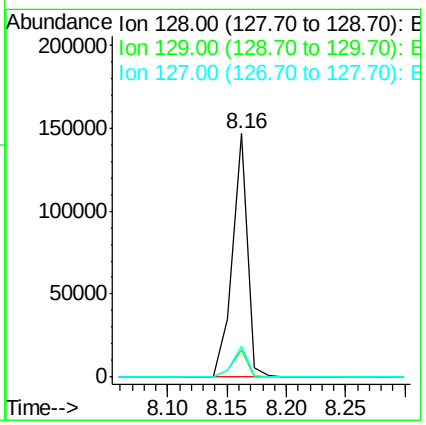
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

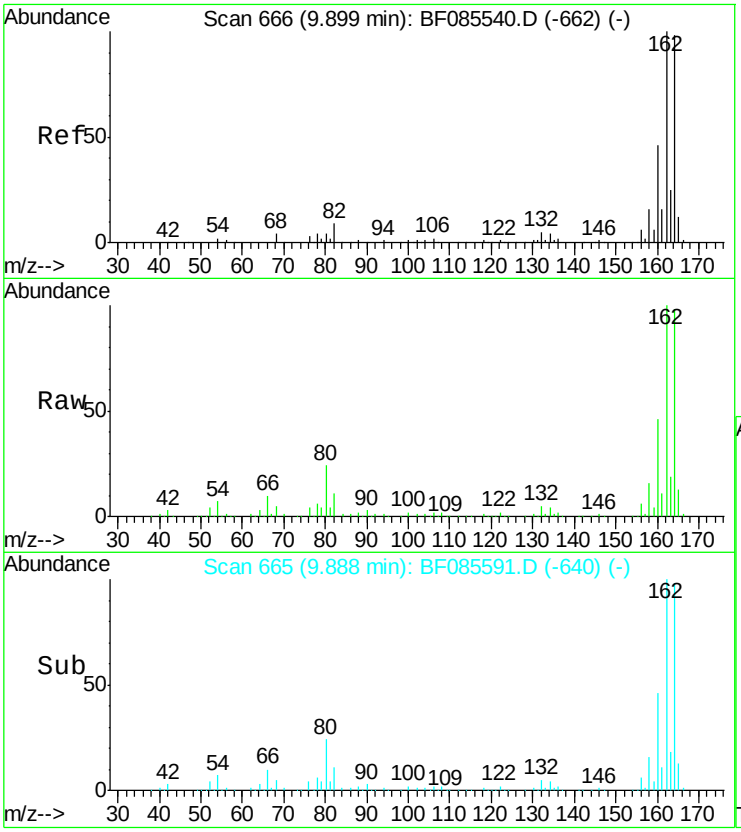


#31
Naphthalene
Concen: 4.58 ng
RT: 8.16 min Scan# 514
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:128 Resp: 129766

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.4	14.0
127	12.6	11.0	16.6

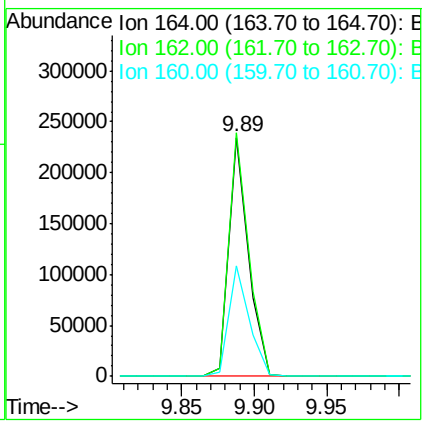




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

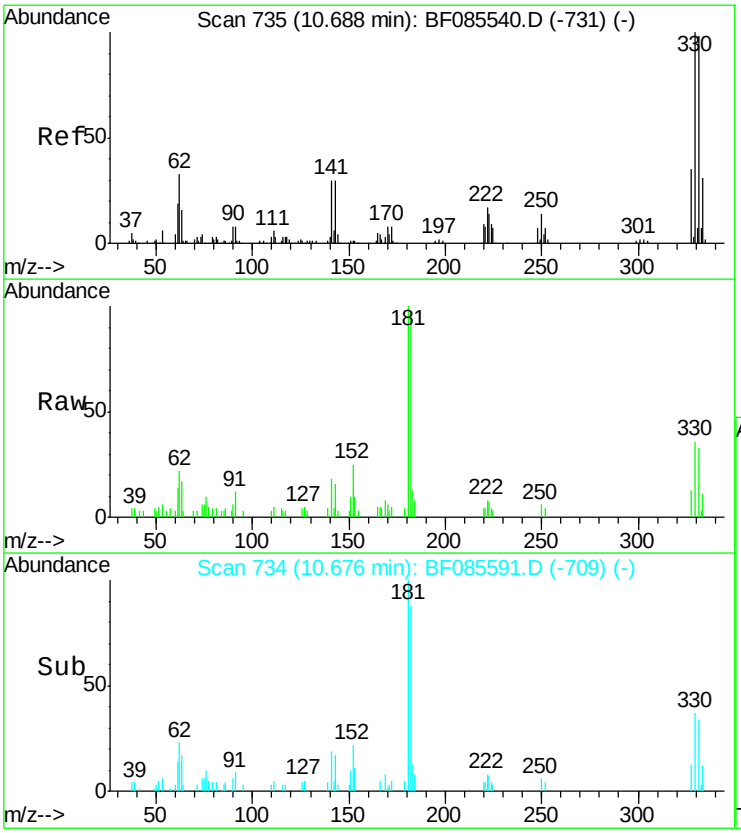
Tgt Ion:164 Resp: 221119

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.1	123.1
160	46.5	37.4	56.2



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

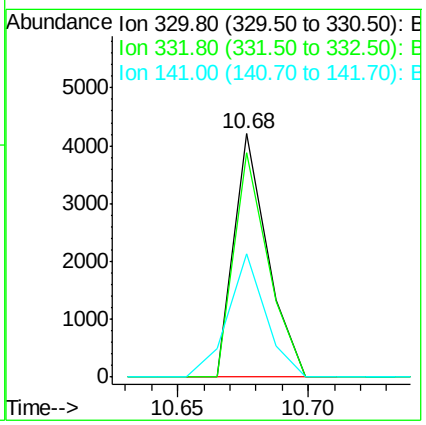
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

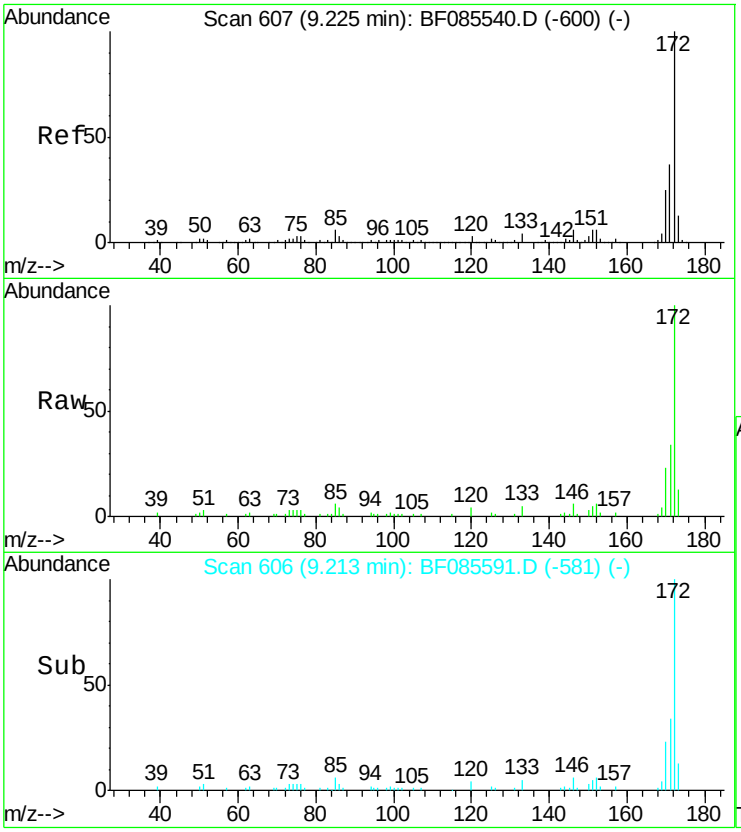


#41
2,4,6-Tribromophenol
Concen: 1.76 ng
RT: 10.68 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:330 Resp: 3807

Ion	Ratio	Lower	Upper
330	100		
332	93.9	78.2	117.2
141	57.3	31.5	47.3#

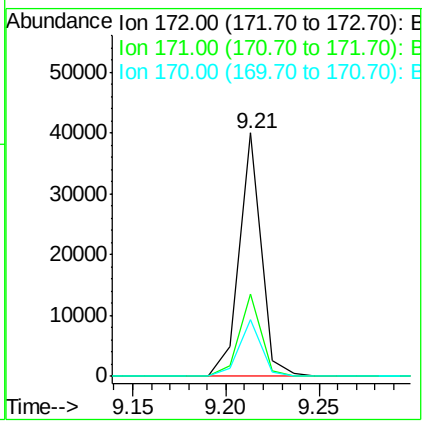




#44
2-Fluorobiphenyl
Concen: 0.66 ng
RT: 9.21 min Scan# 606
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

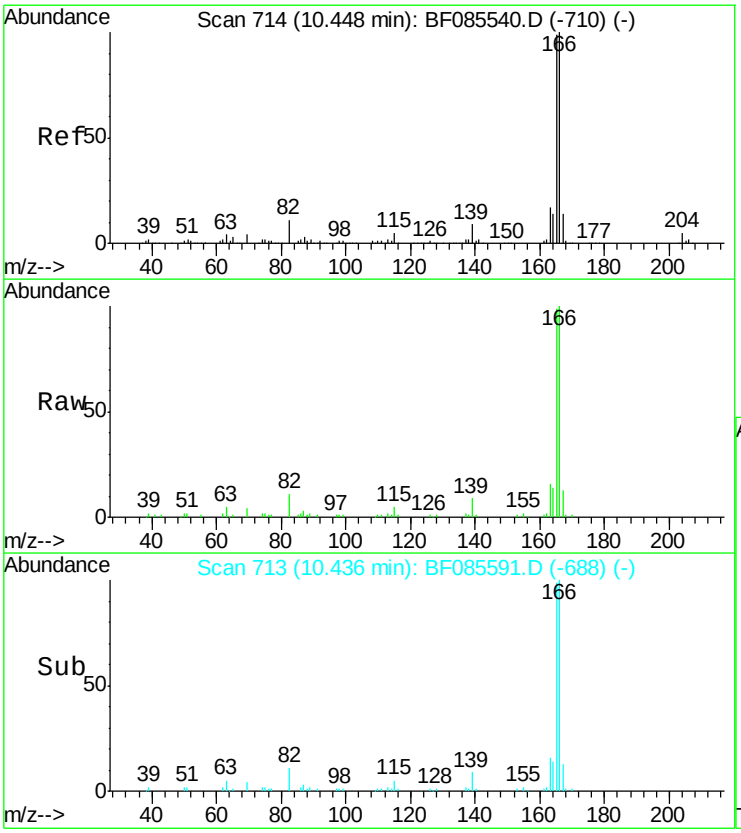
Tgt Ion:172 Resp: 33051

Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.4	44.2
170	23.4	19.8	29.6



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

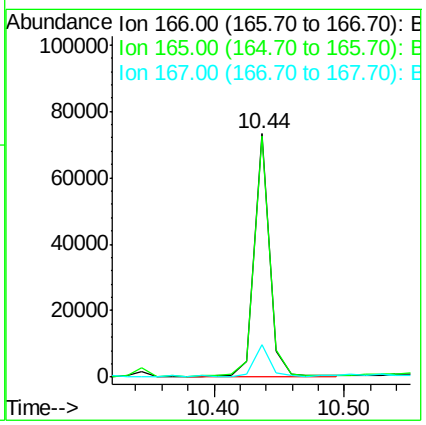
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

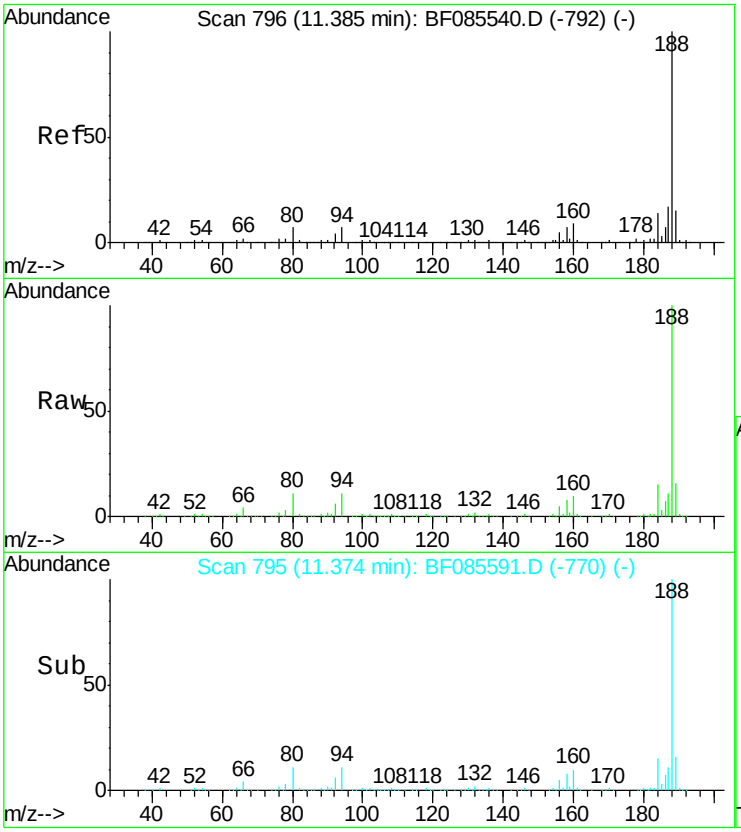


#57
Fluorene
Concen: 4.25 ng
RT: 10.44 min Scan# 713
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:166 Resp: 61053

Ion	Ratio	Lower	Upper
166	100		
165	99.2	79.4	119.0
167	13.3	11.0	16.4

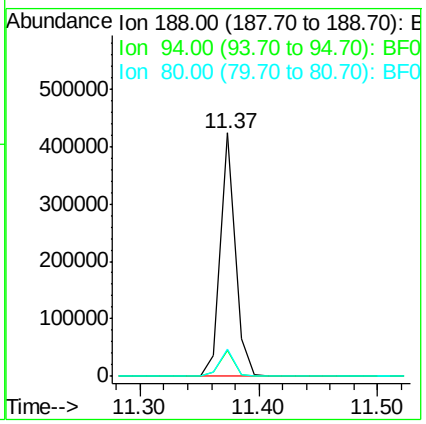




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 795
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

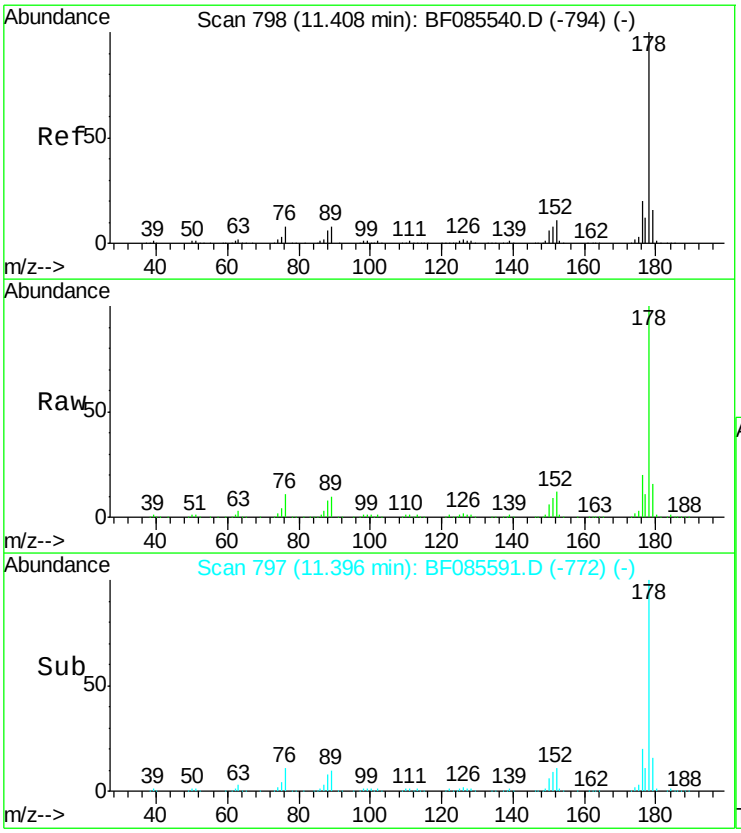
Tgt Ion:188 Resp: 363935

Ion	Ratio	Lower	Upper
188	100		
94	10.6	5.4	8.0#
80	11.1	5.5	8.3#



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

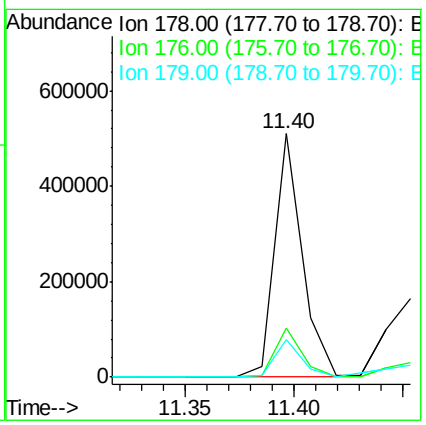
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

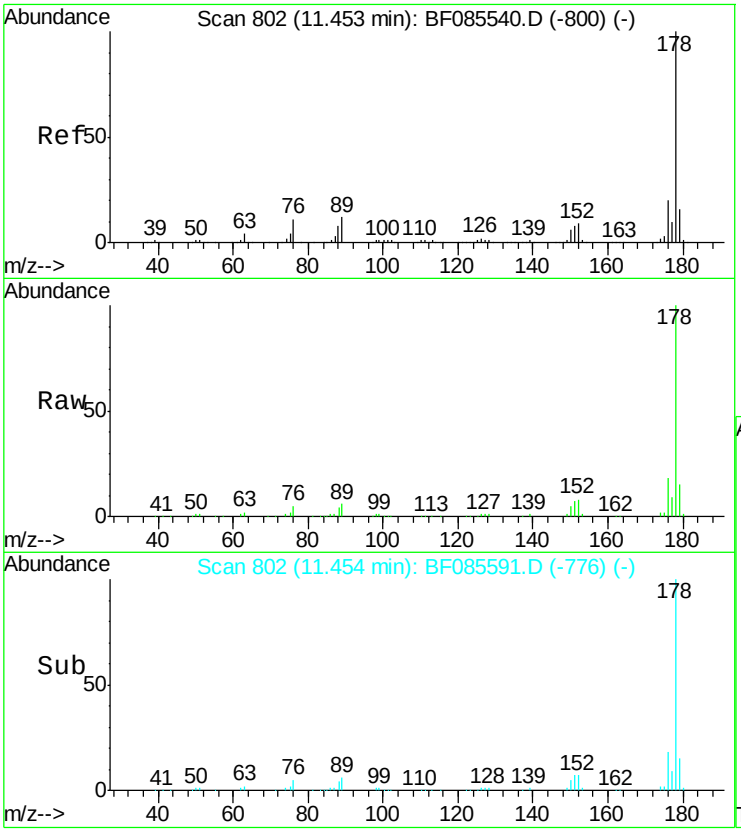


#70
Phenanthrene
Concen: 23.58 ng
RT: 11.40 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:178 Resp: 452507

Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.3	24.5
179	15.6	12.6	18.8

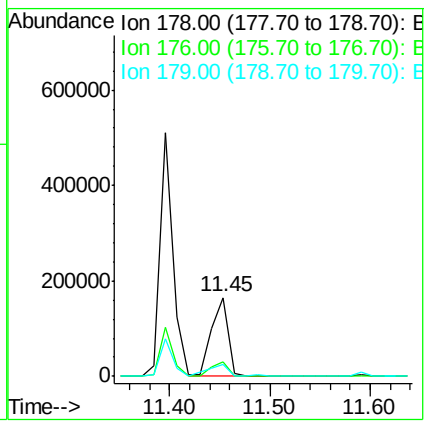




#71
Anthracene
Concen: 9.55 ng
RT: 11.45 min Scan# 802
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

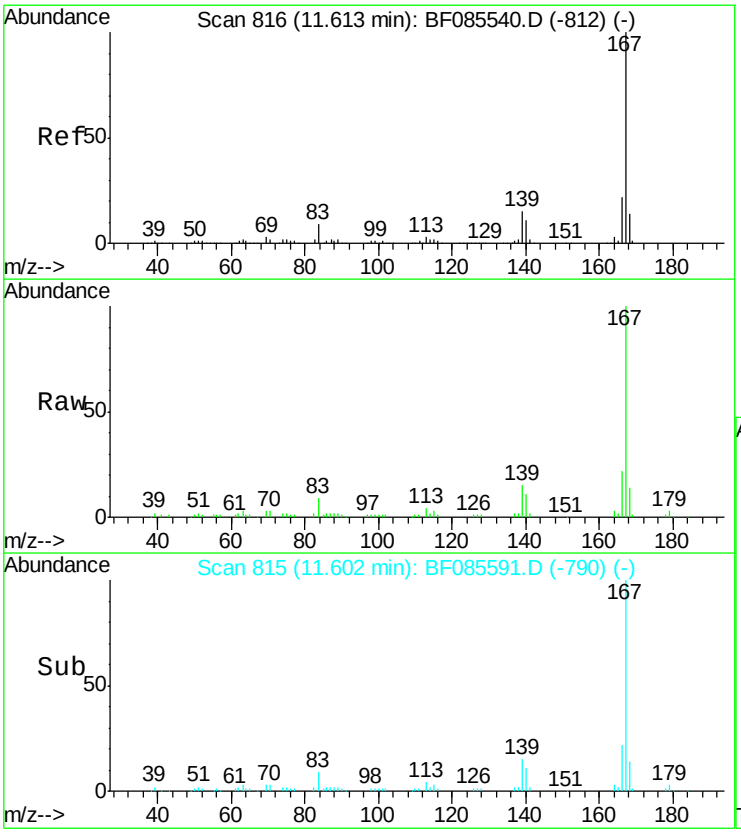
Tgt Ion:178 Resp: 192207

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.9	23.9
179	14.7	13.0	19.4



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

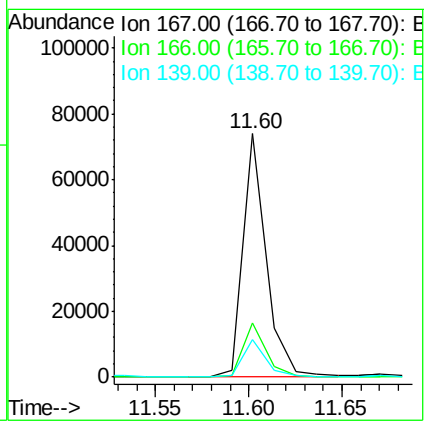
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

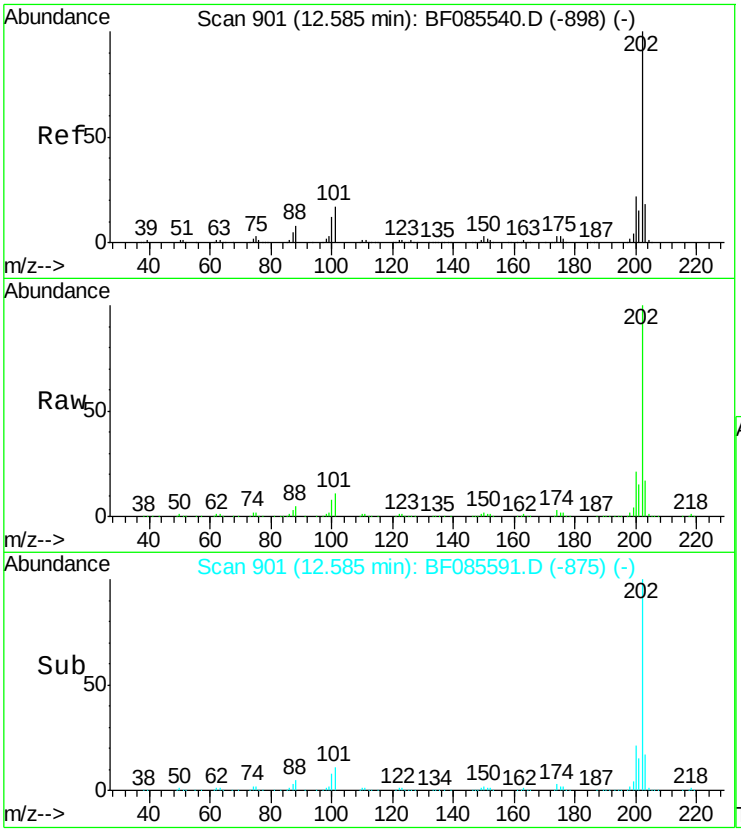


#72
Carbazole
Concen: 3.71 ng
RT: 11.60 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:167 Resp: 64397

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.8	26.8
139	15.5	11.6	17.4

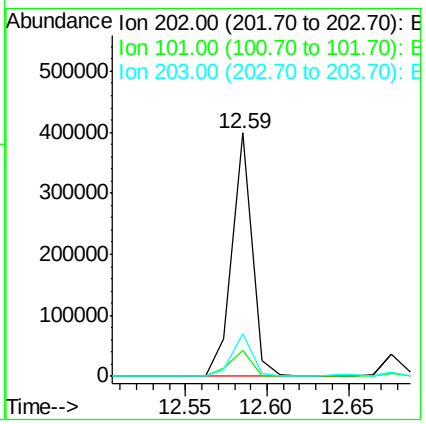




#74
Fluoranthene
Concen: 16.77 ng
RT: 12.59 min Scan# 901
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

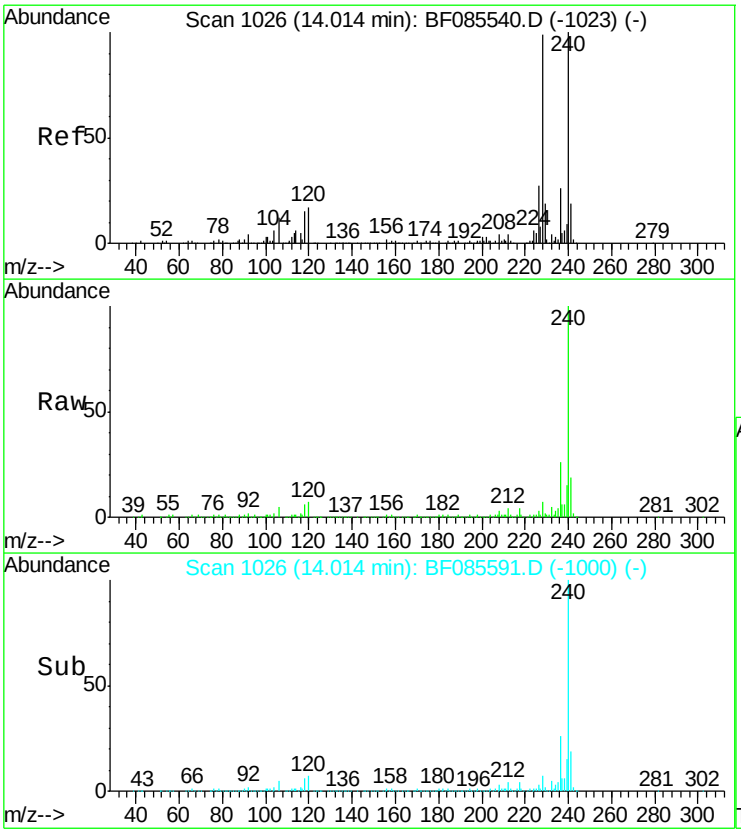
Tgt Ion:202 Resp: 336862

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	36.6
203	17.4	0.0	38.1



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

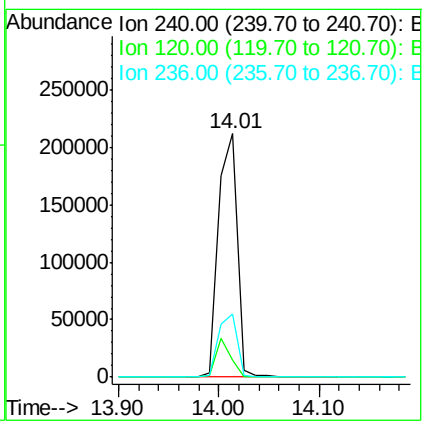
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

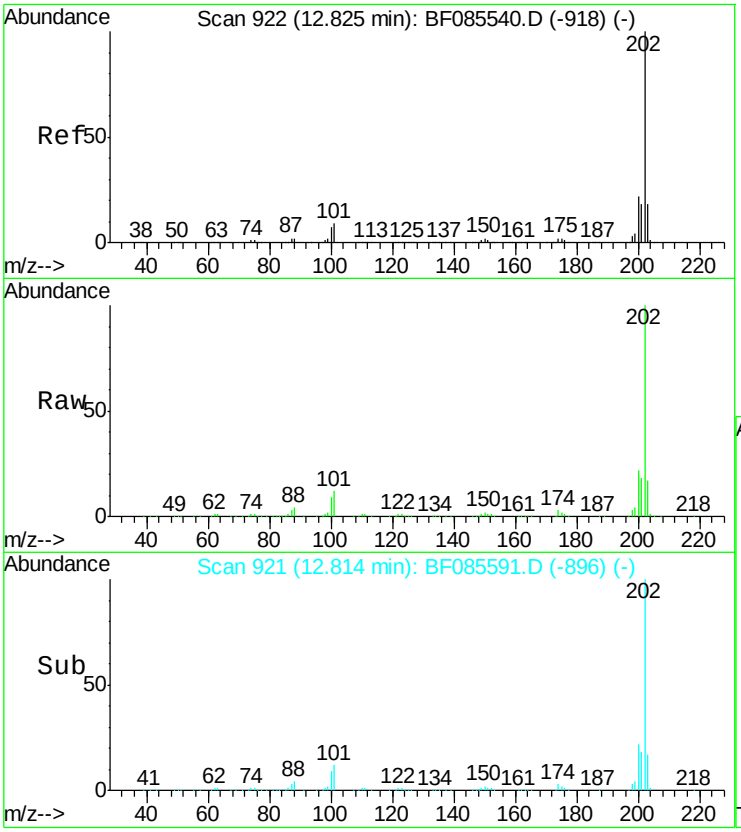


#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.01 min Scan# 1026
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:240 Resp: 275845

Ion	Ratio	Lower	Upper
240	100		
120	7.1	13.8	20.8#
236	25.9	20.6	30.8

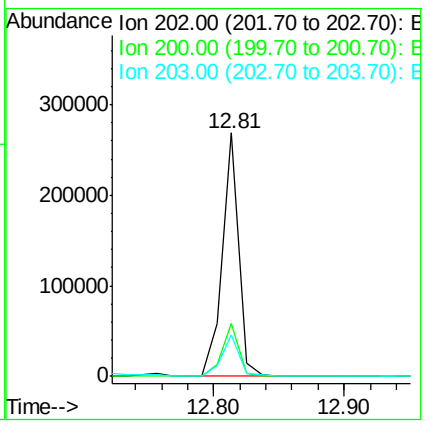




#77
Pyrene
Concen: 11.97 ng
RT: 12.81 min Scan# 921
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

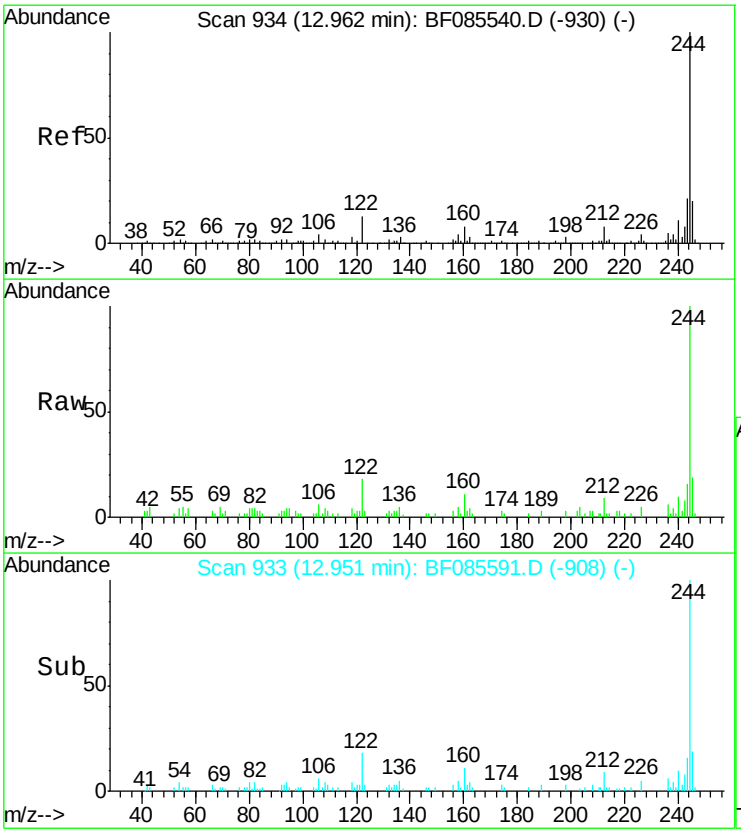
Tgt Ion:202 Resp: 237068

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.6	26.4
203	17.2	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

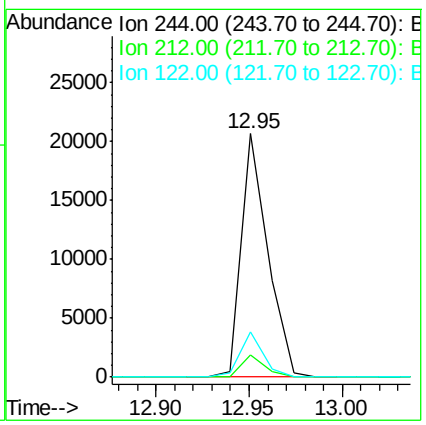
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

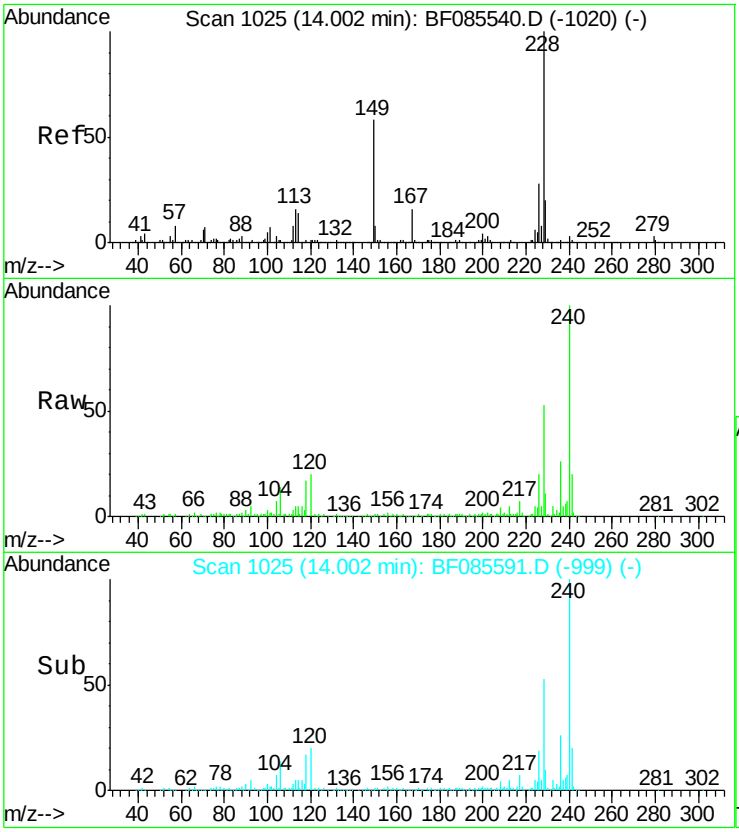


#78
Terphenyl-d14
Concen: 1.78 ng
RT: 12.95 min Scan# 933
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:244 Resp: 20358

Ion	Ratio	Lower	Upper
244	100		
212	9.3	6.1	9.1#
122	18.5	10.2	15.4#

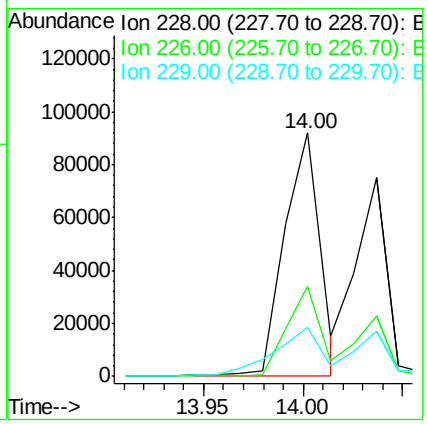




#80
Benzo(a)anthracene
Concen: 7.19 ng m
RT: 14.00 min Scan# 1025
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

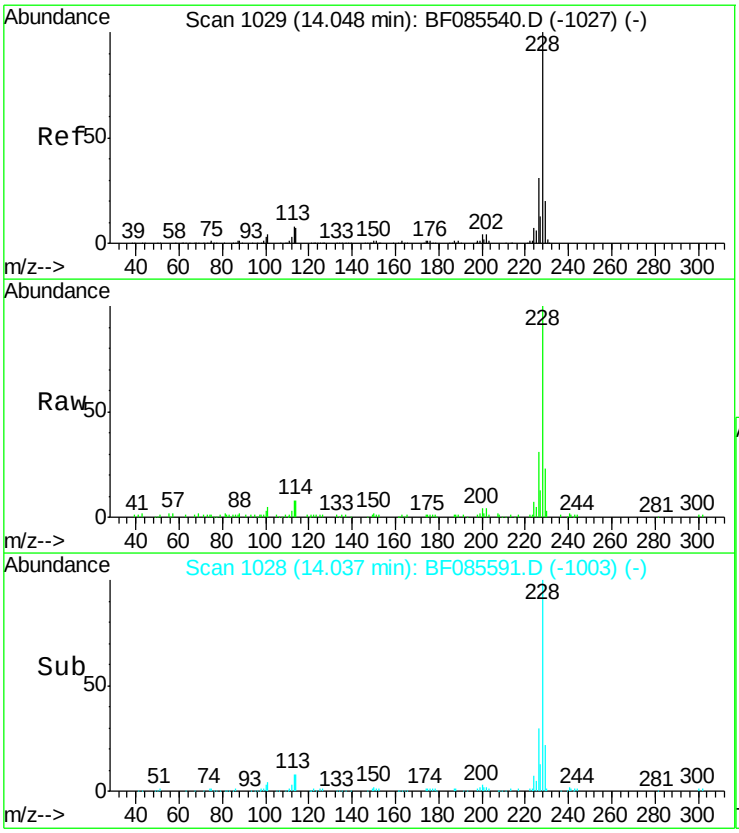
Tgt Ion:228 Resp: 115068

Ion	Ratio	Lower	Upper
228	100		
226	37.1	22.1	33.1#
229	20.0	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

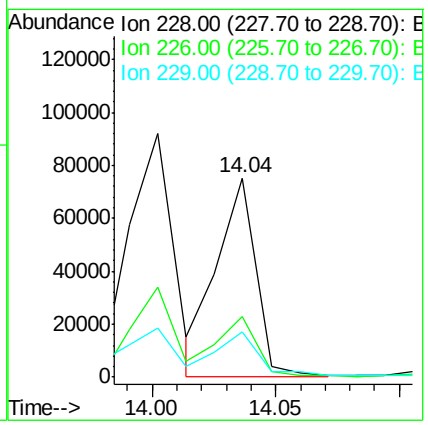
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

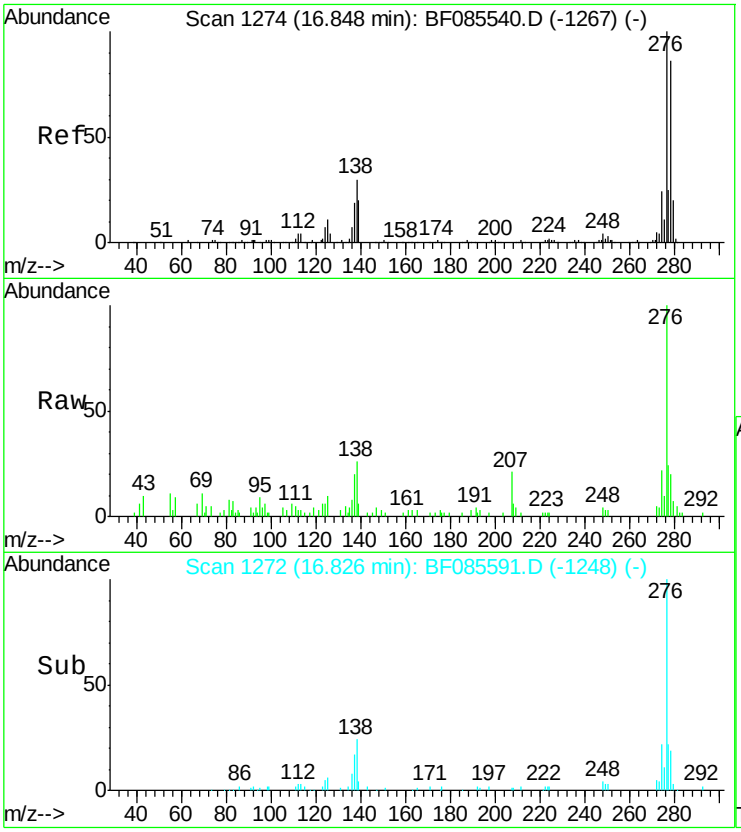


#82
Chrysene
Concen: 5.36 ng m
RT: 14.04 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:228 Resp: 82649

Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.0	37.6
229	22.5	15.7	23.5





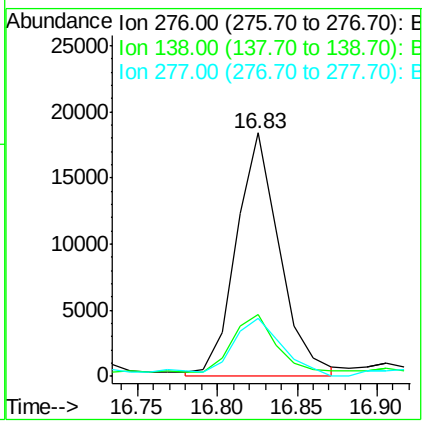
#85
Indeno(1,2,3-cd)pyrene
Concen: 2.74 ng m
RT: 16.83 min Scan# 1272
Delta R.T. -0.02 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

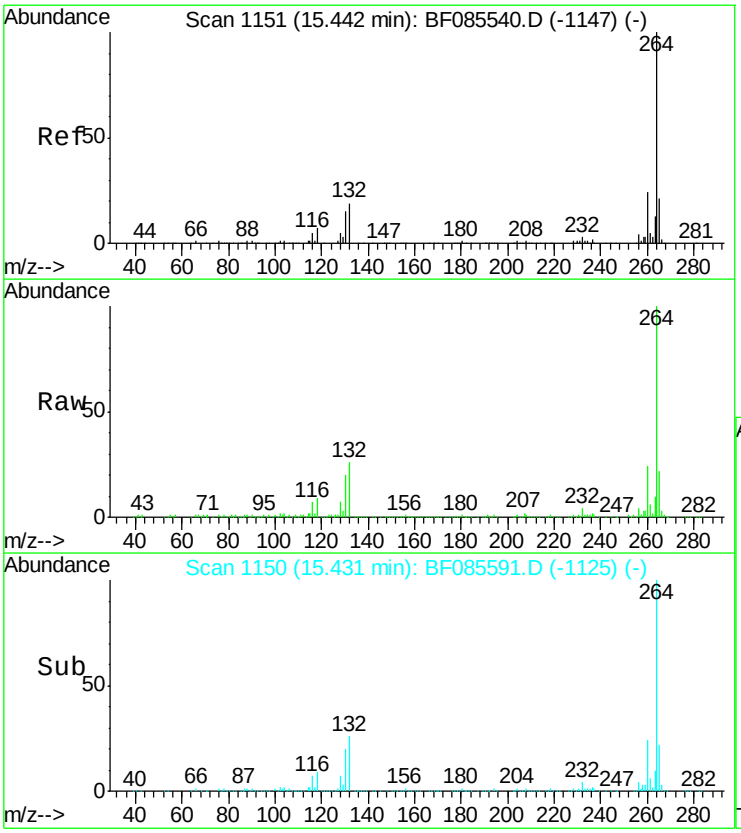
Tgt Ion:276 Resp: 35280

Ion	Ratio	Lower	Upper
276	100		
138	9.0	24.2	36.4#
277	8.8	20.0	30.0#

Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

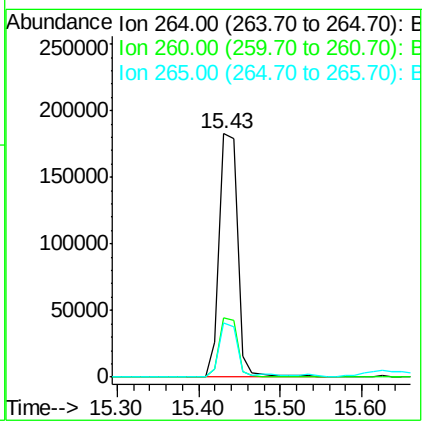


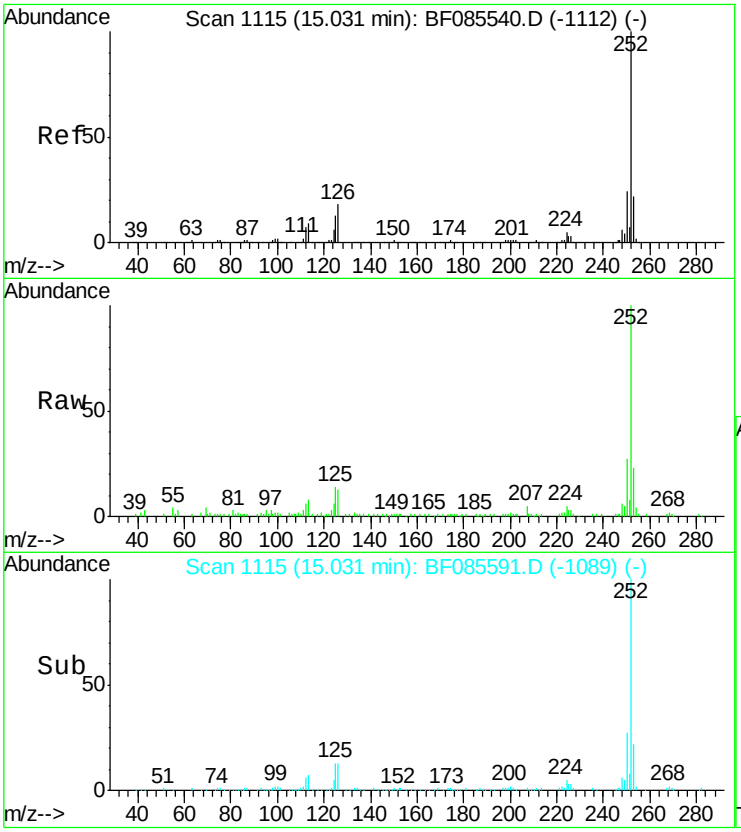


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.43 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:264 Resp: 285323

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	22.5	17.2	25.8

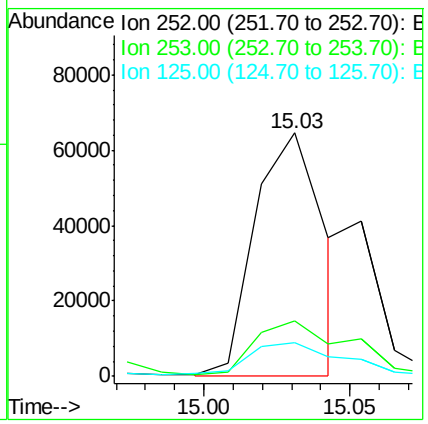




#87
Benzo(b)fluoranthene
Concen: 5.74 ng m
RT: 15.03 min Scan# 1115
Delta R.T. 0.00 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

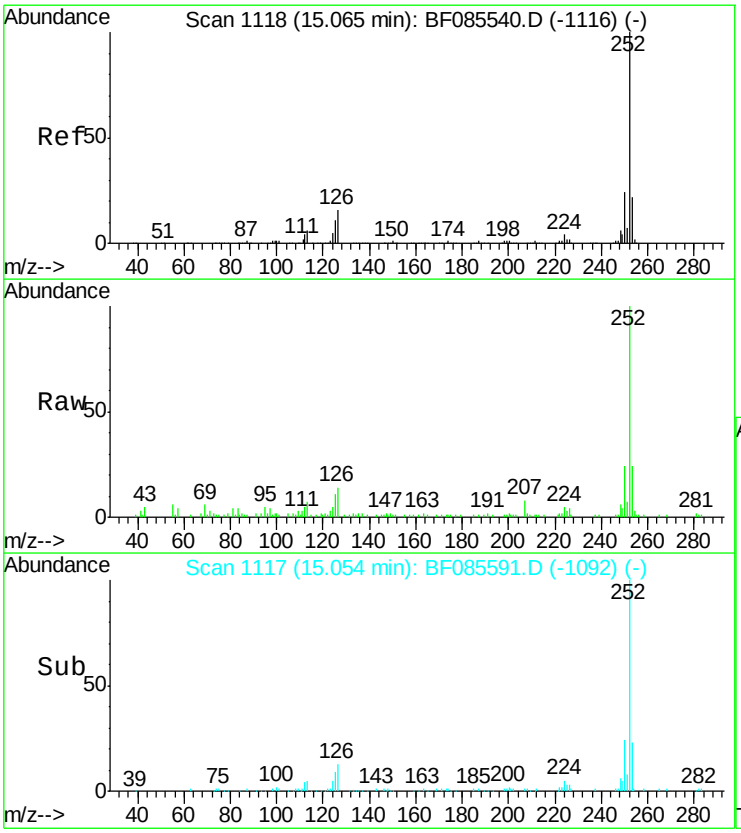
Tgt Ion:252 Resp: 106952

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.6	26.4
125	13.7	10.3	15.5



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

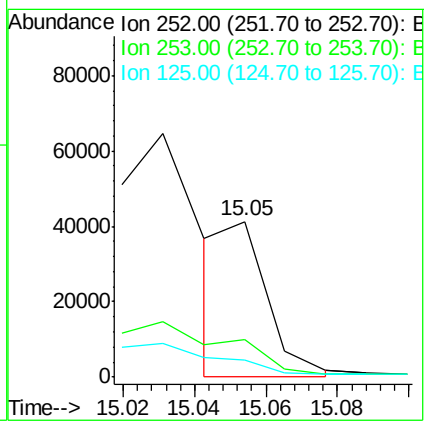
Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM

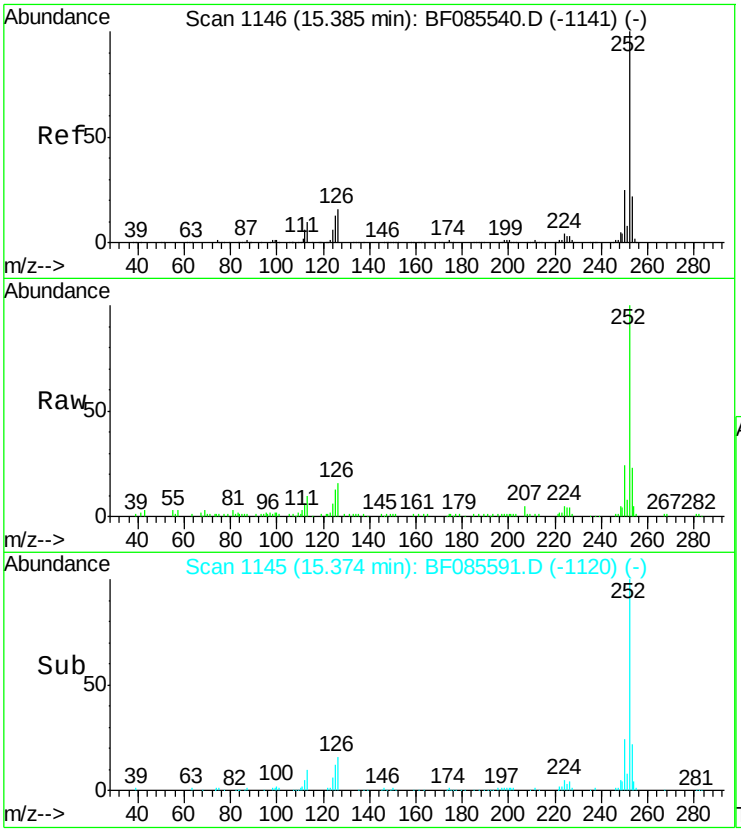


#88
Benzo(k)fluoranthene
Concen: 2.23 ng m
RT: 15.05 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:252 Resp: 34173

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.6
125	10.6	7.7	11.5

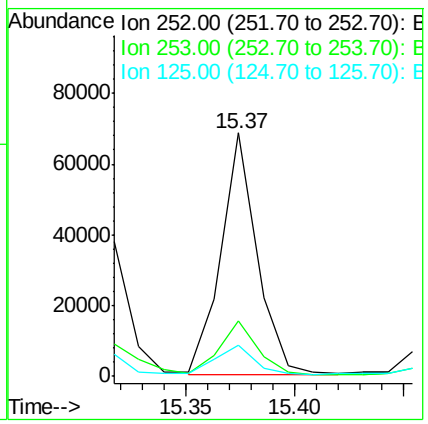




#89
Benzo(a)pyrene
Concen: 5.05 ng
RT: 15.37 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

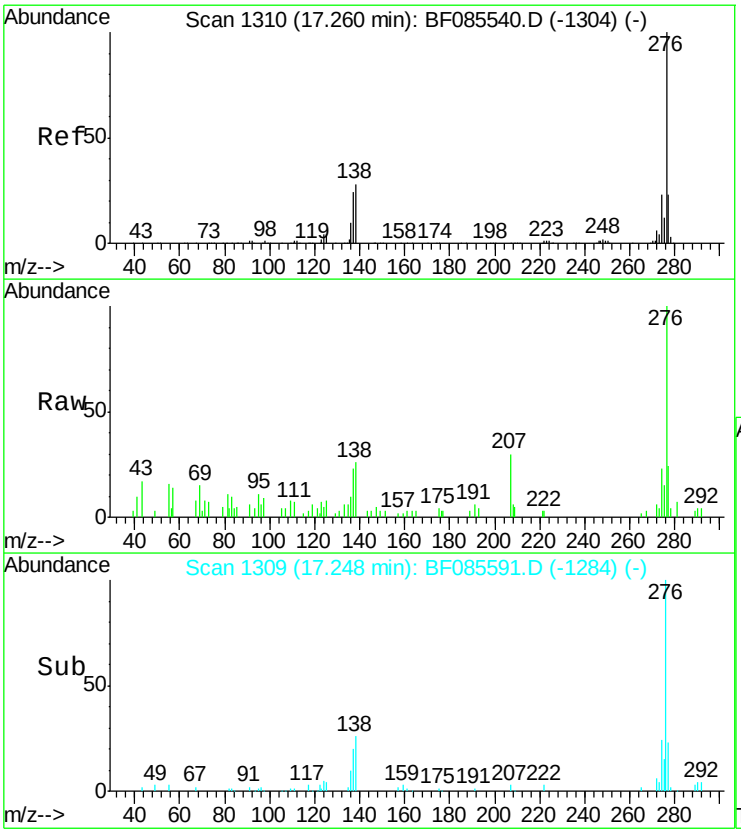
Tgt Ion:252 Resp: 79677

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.0
125	13.0	10.3	15.5



Instrument :
BNA_F
ClientSampleId :
AOU2-SB04(5-8)RE

Manual Integrations APPROVED
apatel
3/21/2016 5:09:40 PM



#91
Benzo(g,h,i)perylene
Concen: 2.27 ng
RT: 17.25 min Scan# 1309
Delta R.T. -0.01 min
Lab File: BF085591.D
Acq: 19 Mar 2016 23:41

Tgt Ion:276 Resp: 28937

Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.8	28.2
138	25.5	22.6	34.0