Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021716\
Data File : BE091407.D
Acq On : 17 Feb 2016 16:54
Operator : UM/IZ
Sample : H1445-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_E
ClientSampleId : LIBERTY-SF-005

Quant Time: Feb 17 23:59:40 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE020216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 00:27:53 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	45537	5.00	ng		0.00
4) Naphthalene-d8	9.55	136	227548	5.00	ng		0.00
8) Acenaphthene-d10	13.35	164	146988	5.00	ng		0.00
14) Phenanthrene-d10	16.08	188	323915	5.00	ng		-0.01
18) Chrysene-d12	20.21	240	349294	5.00	ng		0.00
24) Perylene-d12	22.09	264	339359	5.00	ng		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	4.90	112	65732	6.13	ng		-0.04
3) Phenol-d6	6.53	99	109302	7.16	ng		-0.04
5) Nitrobenzene-d5	8.16	82	57856	3.90	ng		0.00
9) 2,4,6-Tribromophenol	14.89	330	25973	3.80	ng		-0.01
10) 2-Fluorobiphenyl	11.99	172	168178	4.40	ng		-0.02
20) Terphenyl-d14	18.60	244	239134	4.63	ng		-0.02
Target Compounds							Qvalue
6) Naphthalene	9.59	128	43490	0.85	ng		99
7) 2-Methylnaphthalene	11.10	142	91690	2.92	ng		100
11) Acenaphthylene	13.09	152	684773	2.75	ng		100
12) Acenaphthene	13.41	154	148747	3.69	ng		97
13) Fluorene	14.39	166	497204	9.54	ng		99
15) Phenanthrene	16.12	178	2951313	34.70	ng		97
16) Anthracene	16.12	178	2944273	41.31	ng		95
17) Fluoranthene	18.07	202	2481474	27.27	ng		98
19) Pyrene	18.46	202	2229859	29.46	ng		97
21) Benzo(a)anthracene	20.18	228	894215	11.26	ng		95
22) Chrysene	20.24	228	903470	10.52	ng		96
23) Indeno(1,2,3-cd)pyrene	23.68	276	344687	4.36	ng		99
25) Benzo(b)fluoranthene	21.54	252	461769	5.45	ng	#	96
26) Benzo(k)fluoranthene	21.56	252	607238	7.16	ng	#	95
27) Benzo(a)pyrene	21.99	252	636713	8.04	ng	#	96
28) Dibenzo(a,h)anthracene	23.63	278	136278	1.92	ng	#	91
29) Benzo(g,h,i)perylene	24.23	276	337551	4.03	ng		98

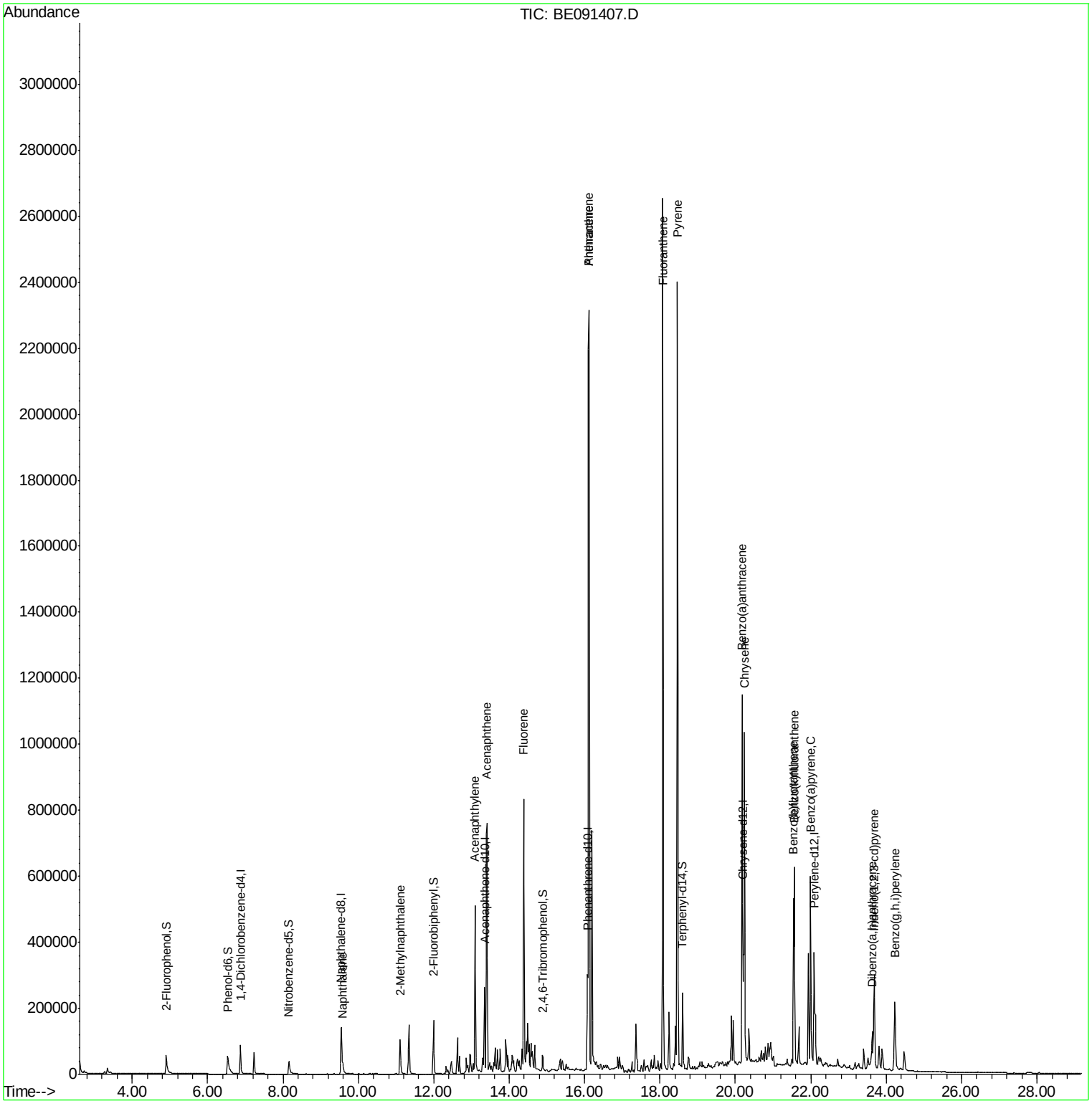
(#) = qualifier out of range (m) = manual integration (+) = signals summed

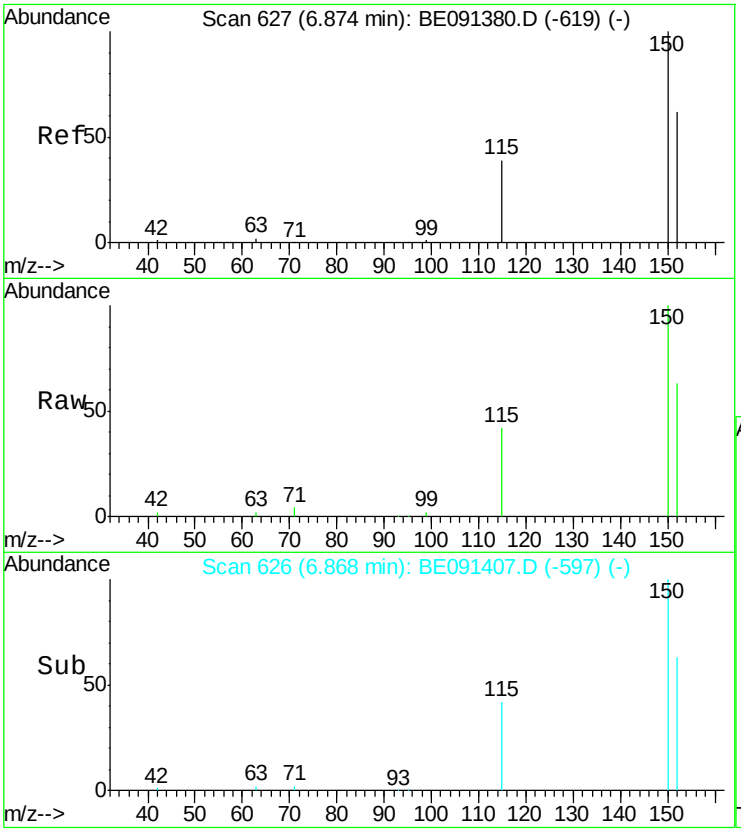
Quantitation Report (Not Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021716\
Data File : BE091407.D
Acq On : 17 Feb 2016 16:54
Operator : UM/IZ
Sample : H1445-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Quant Time: Feb 17 23:59:40 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE020216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Feb 03 00:27:53 2016
Response via : Initial Calibration



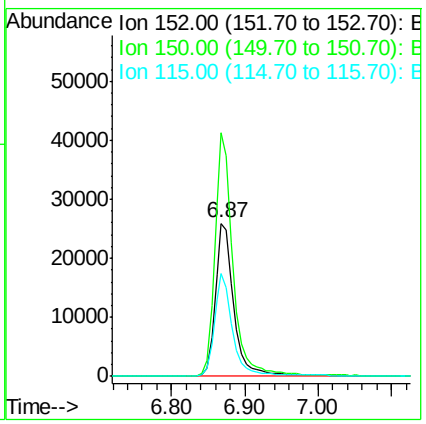


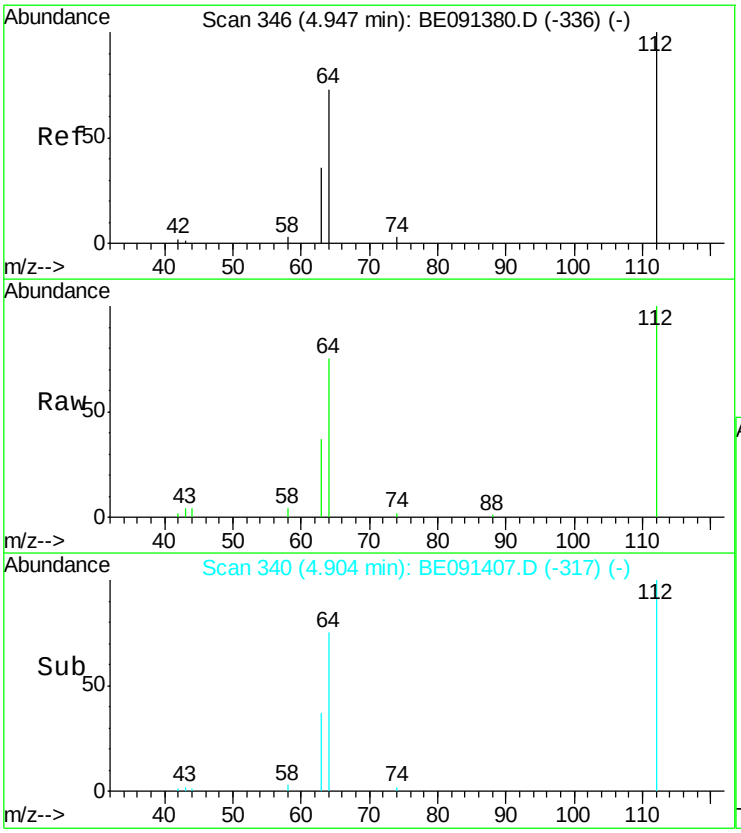
#1
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 626
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:152 Resp: 45537

Ion	Ratio	Lower	Upper
152	100		
150	159.0	128.9	193.3
115	67.2	50.9	76.3

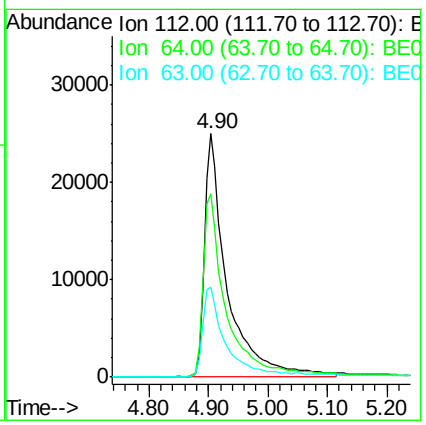


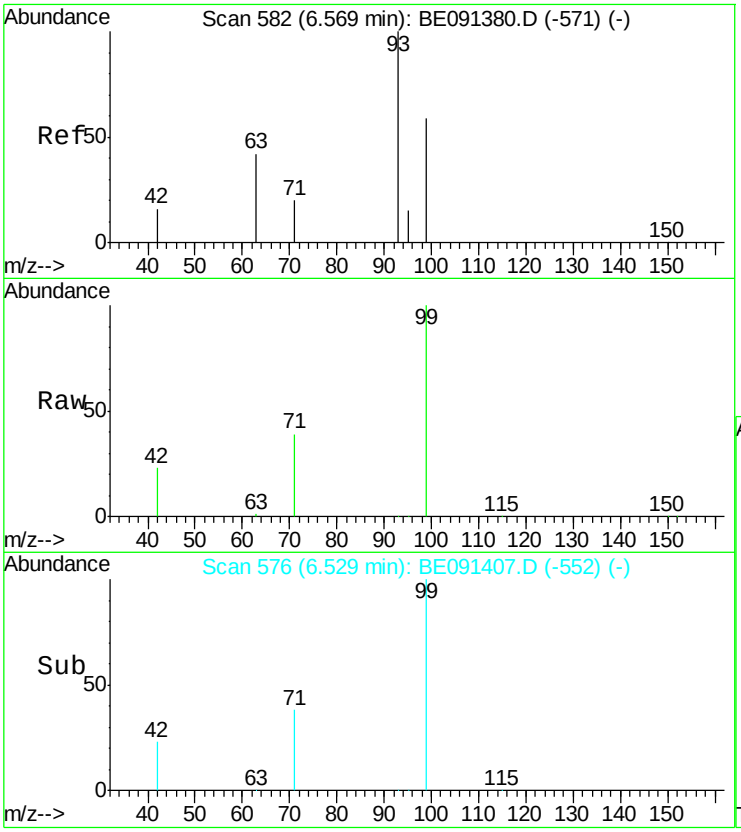


#2
2-Fluorophenol
Concen: 6.13 ng
RT: 4.90 min Scan# 340
Delta R.T. -0.04 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:112 Resp: 65732

Ion	Ratio	Lower	Upper
112	100		
64	76.2	60.5	90.7
63	38.4	29.8	44.8



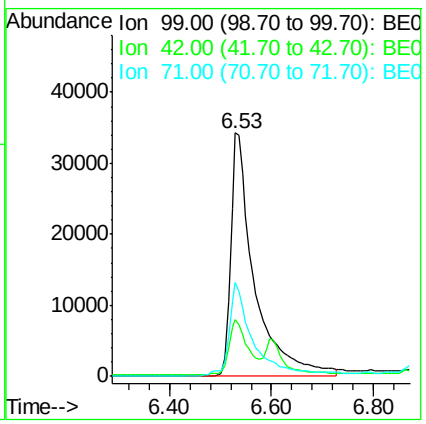


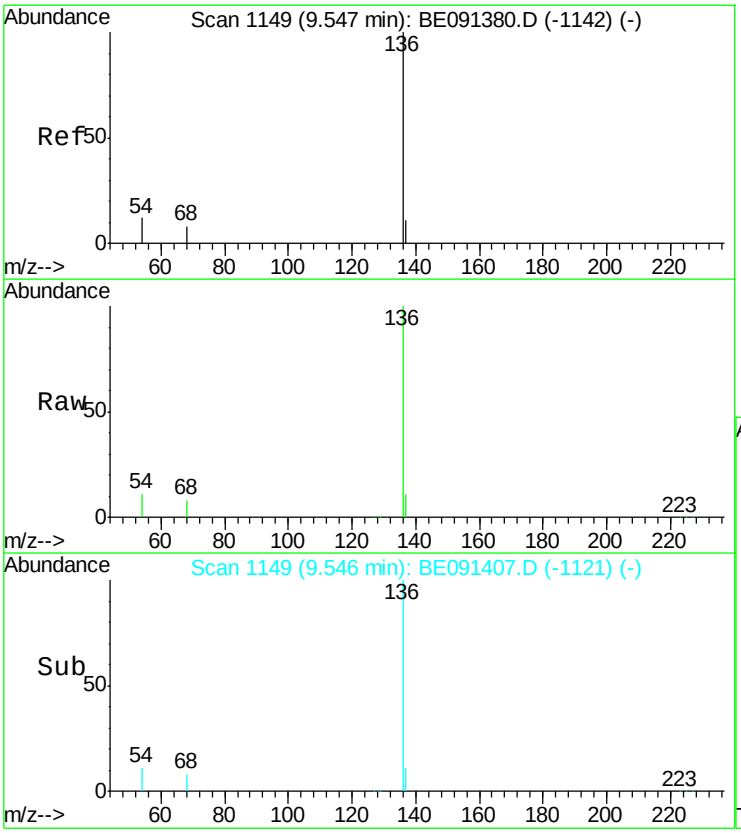
#3
Phenol-d6
Concen: 7.16 ng
RT: 6.53 min Scan# 576
Delta R.T. -0.04 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion: 99 Resp: 109302

Ion	Ratio	Lower	Upper
99	100		
42	18.2	13.3	19.9
71	37.8	25.6	38.4

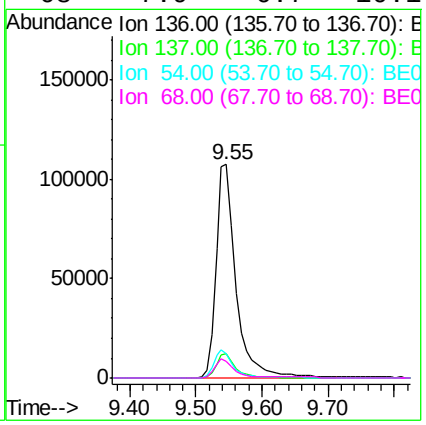


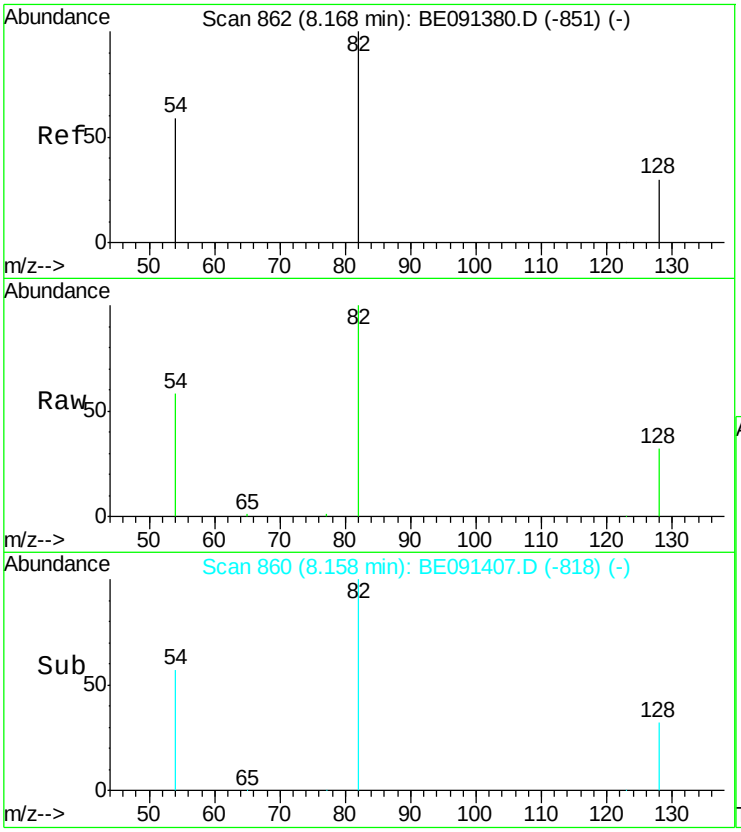


#4
Naphthalene-d8
Concen: 5.00 ng
RT: 9.55 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:136 Resp: 227548

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	11.1	9.3	13.9
68	7.9	6.7	10.1



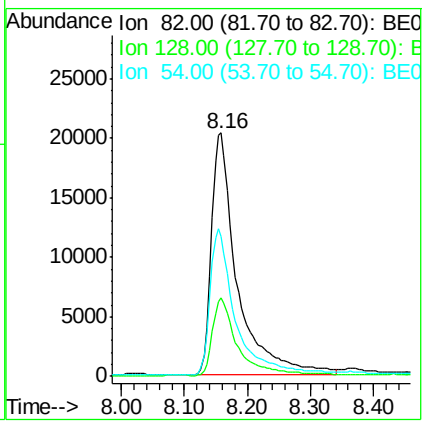


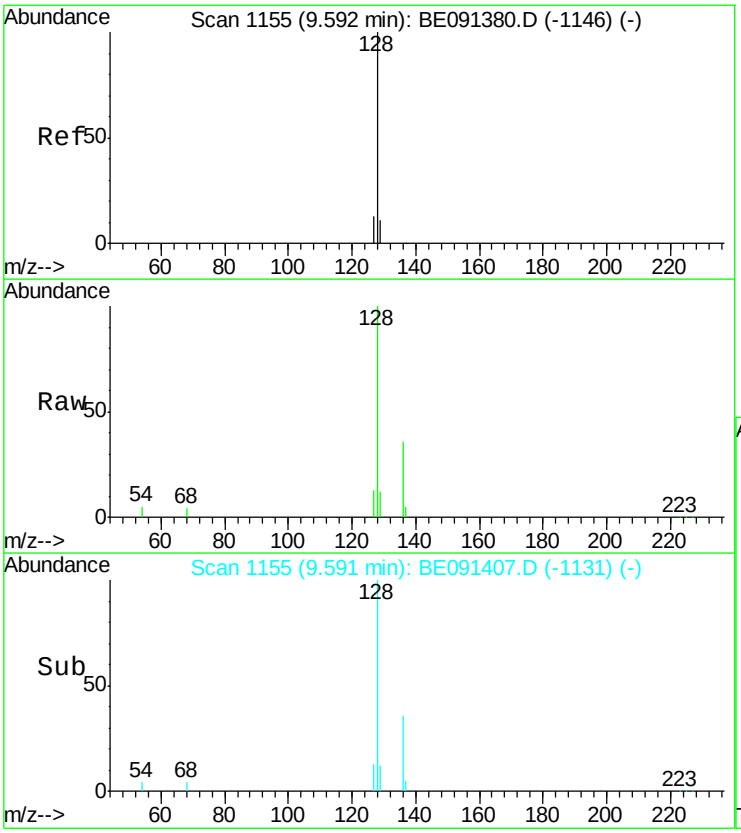
#5
Nitrobenzene-d5
Concen: 3.90 ng
RT: 8.16 min Scan# 860
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion: 82 Resp: 57856

Ion	Ratio	Lower	Upper
82	100		
128	32.4	25.0	37.4
54	57.5	48.1	72.1

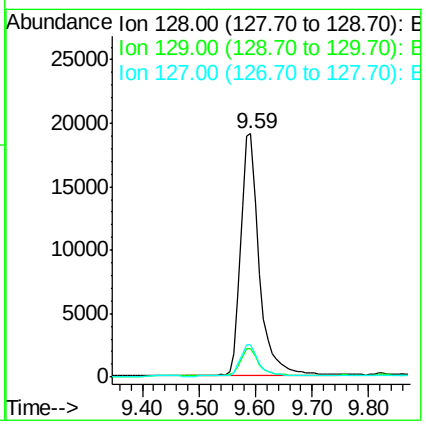


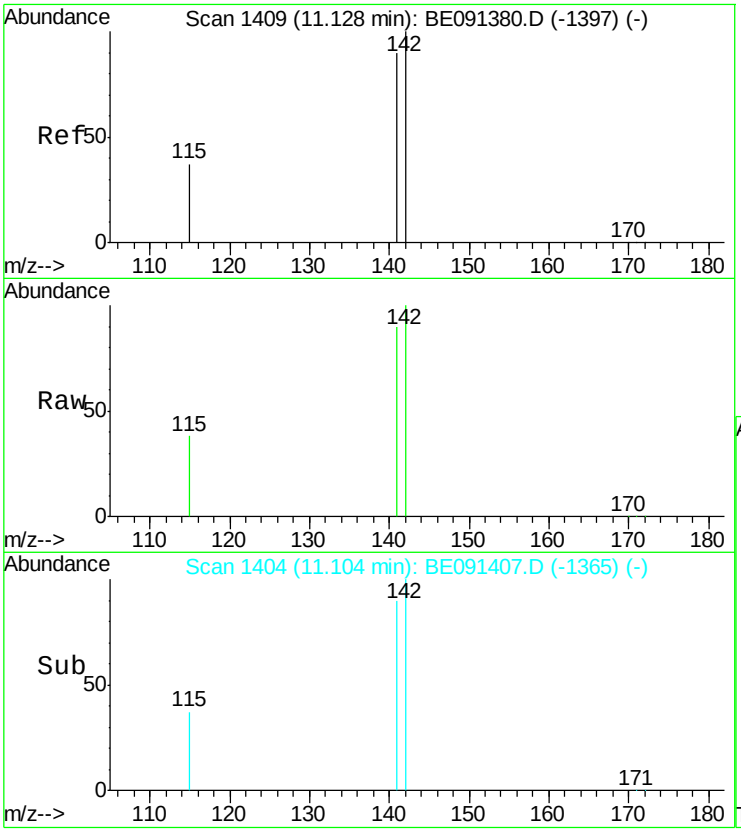


#6
Naphthalene
Concen: 0.85 ng
RT: 9.59 min Scan# 1155
Delta R.T. -0.00 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:128 Resp: 43490

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.1	13.7
127	13.2	10.5	15.7



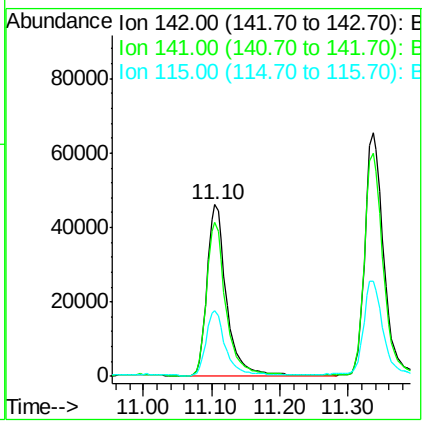


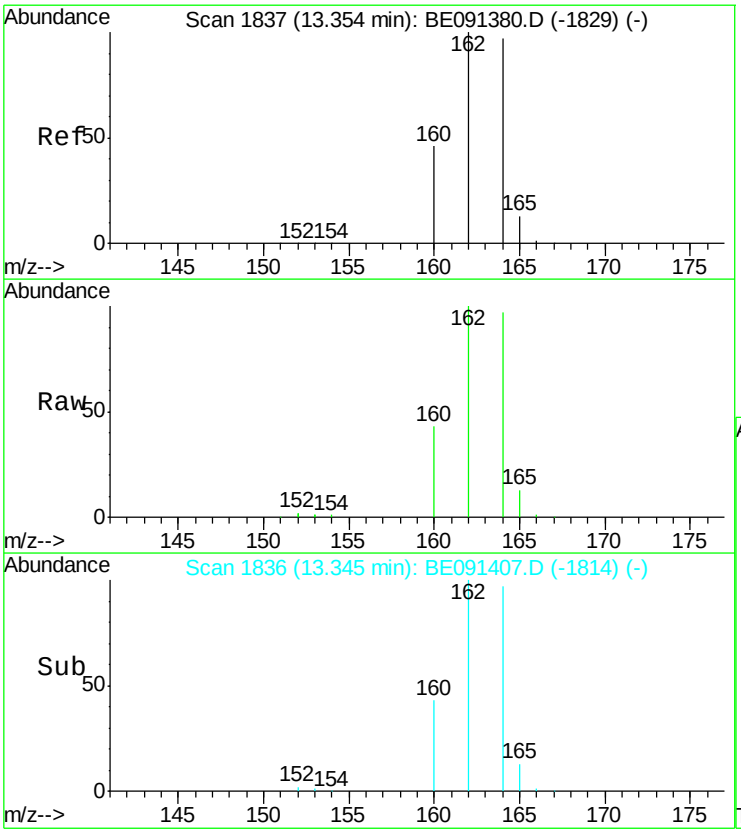
#7
2-Methylnaphthalene
Concen: 2.92 ng
RT: 11.10 min Scan# 1404
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:142 Resp: 91690

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.3	108.5
115	38.1	30.5	45.7

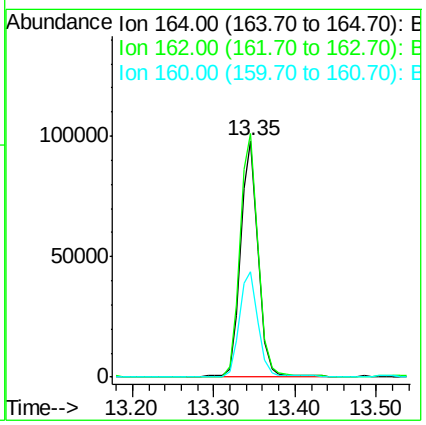


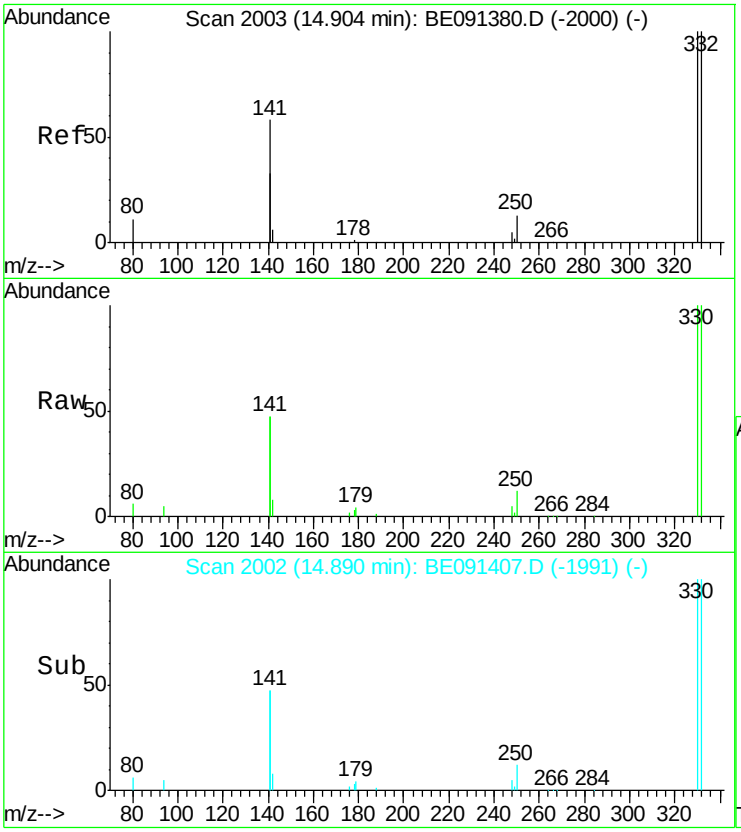


#8
Acenaphthene-d10
Concen: 5.00 ng
RT: 13.35 min Scan# 1836
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:164 Resp: 146988

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	44.6	37.8	56.8



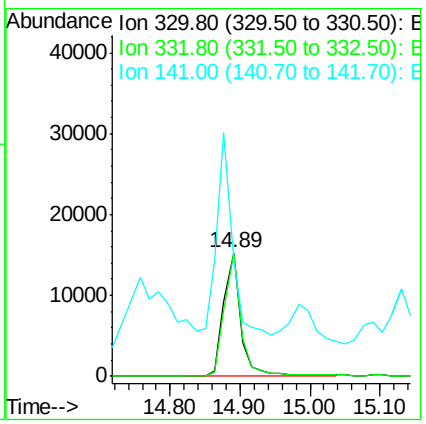


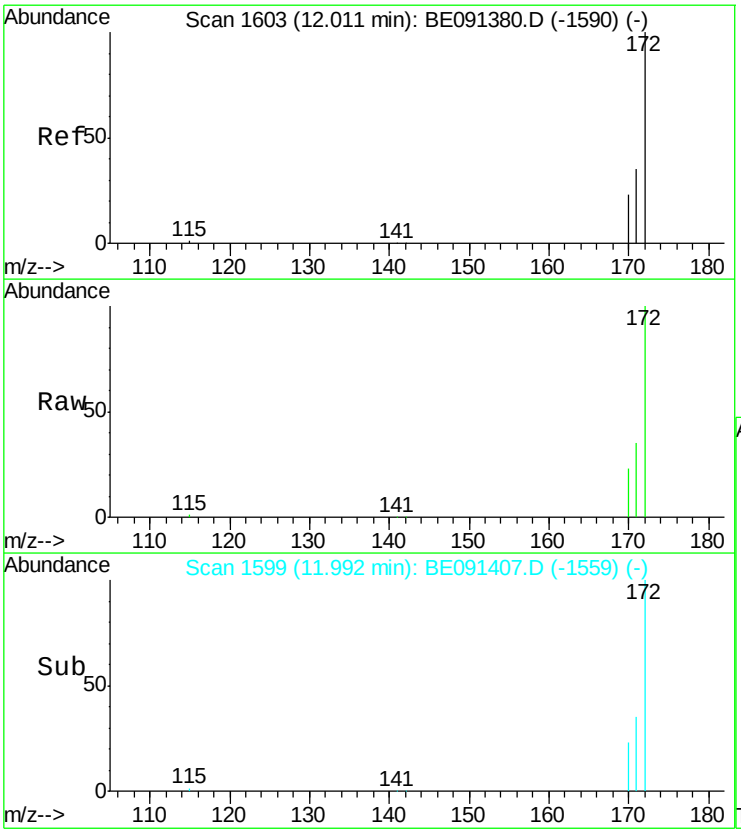
#9
2,4,6-Tribromophenol
Concen: 3.80 ng
RT: 14.89 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:330 Resp: 25973

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.8	118.2
141	150.0	105.1	157.7

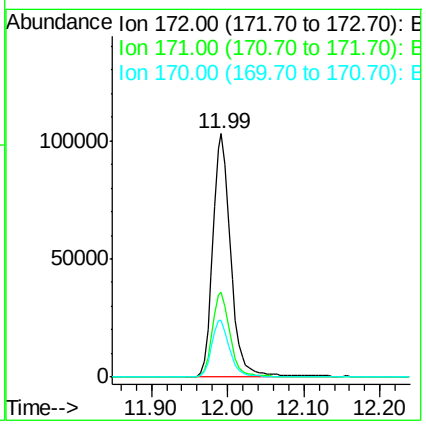


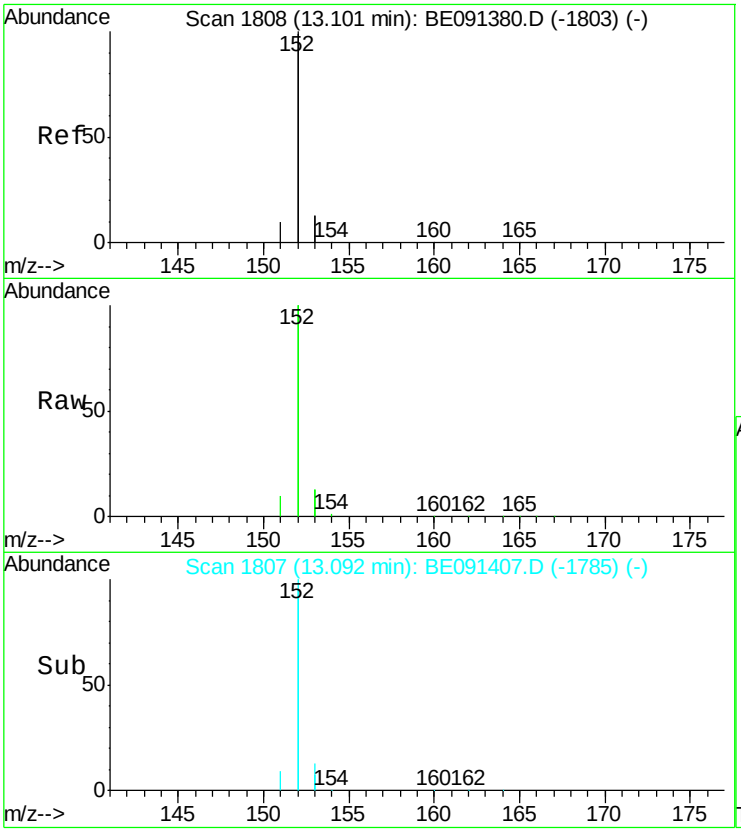


#10
2-Fluorobiphenyl
Concen: 4.40 ng
RT: 11.99 min Scan# 1599
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:172 Resp: 168178

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.8	41.8
170	23.2	18.6	28.0



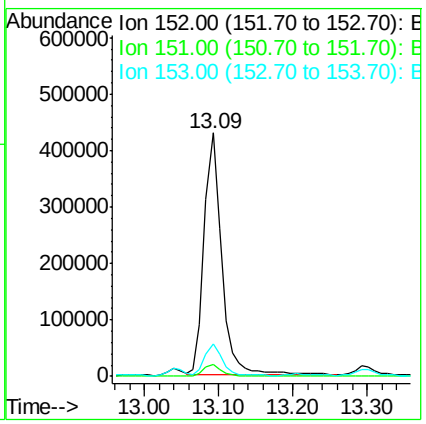


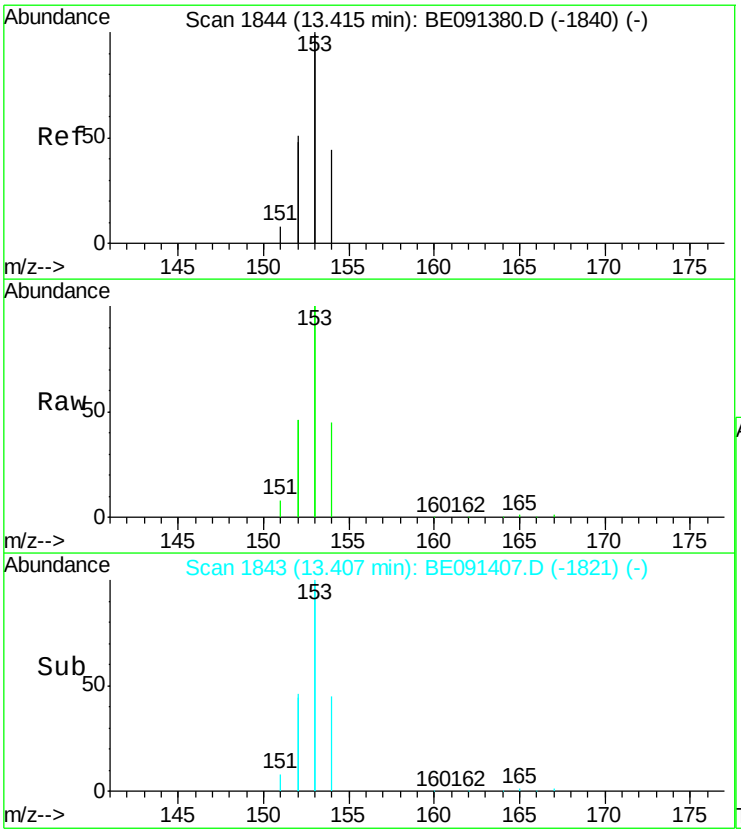
#11
Acenaphthylene
Concen: 2.75 ng
RT: 13.09 min Scan# 1807
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:152 Resp: 684773

Ion	Ratio	Lower	Upper
152	100		
151	4.8	3.8	5.8
153	12.5	10.2	15.4

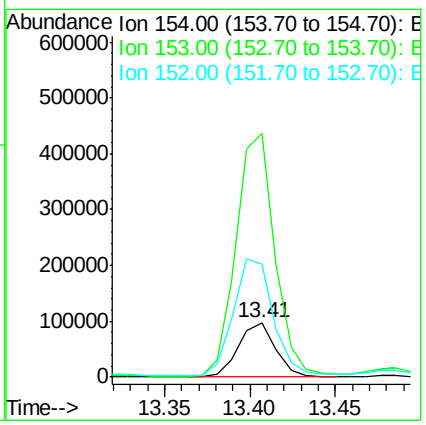


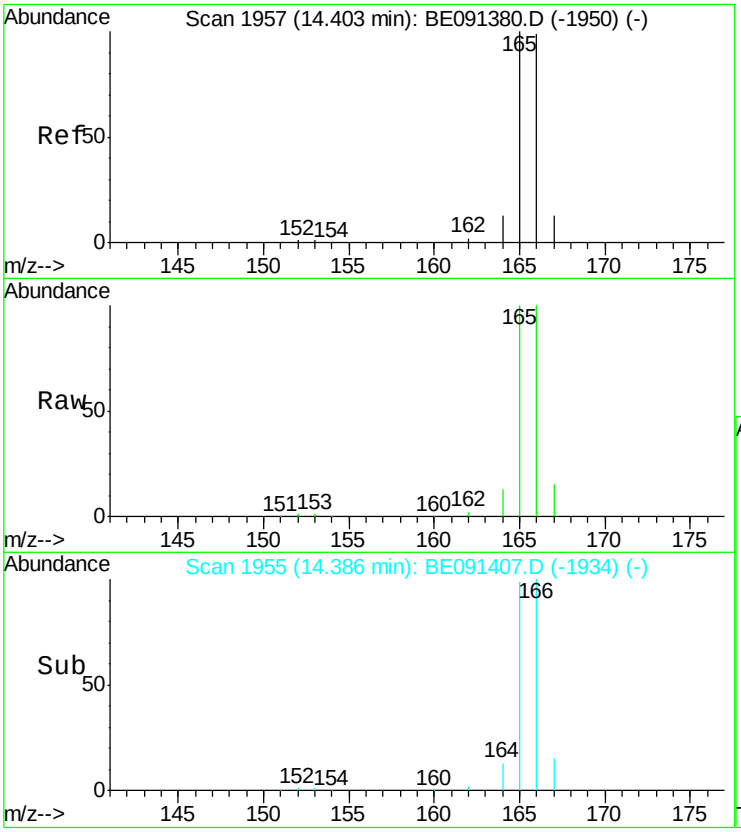


#12
Acenaphthene
Concen: 3.69 ng
RT: 13.41 min Scan# 1843
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:154 Resp: 148747

Ion	Ratio	Lower	Upper
154	100		
153	463.9	369.8	554.8
152	228.8	194.4	291.6



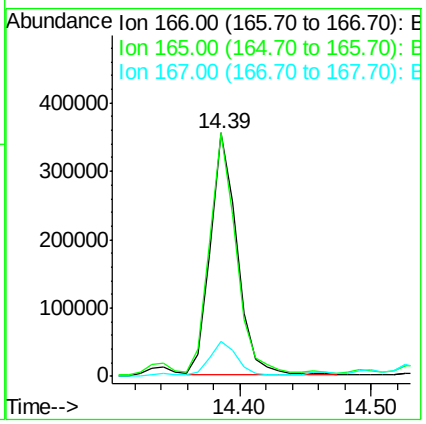


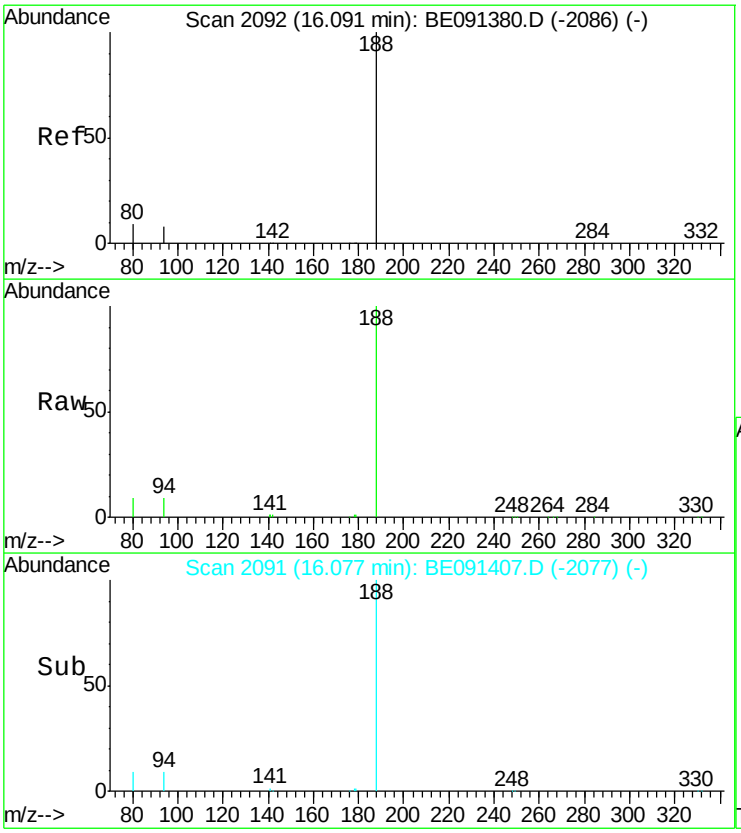
#13
Fluorene
Concen: 9.54 ng
RT: 14.39 min Scan# 1955
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:166 Resp: 497204

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.3	118.9
167	14.2	10.6	16.0

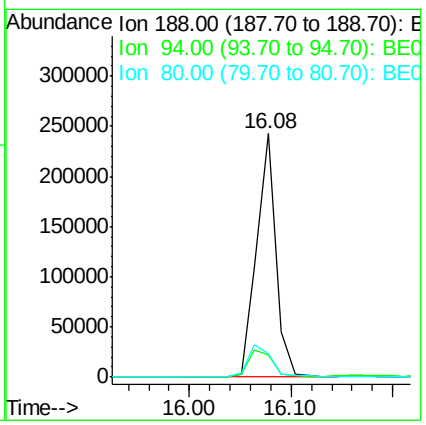


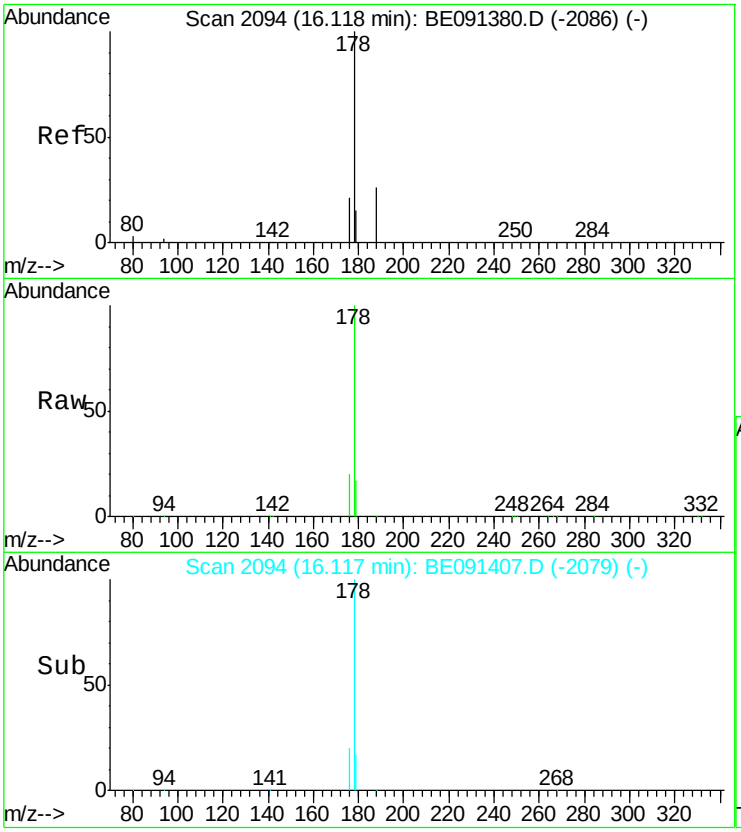


#14
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.08 min Scan# 2091
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:188 Resp: 323915

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.6	10.0
80	9.5	7.0	10.6



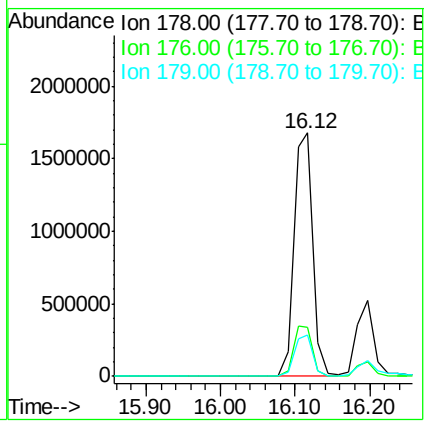


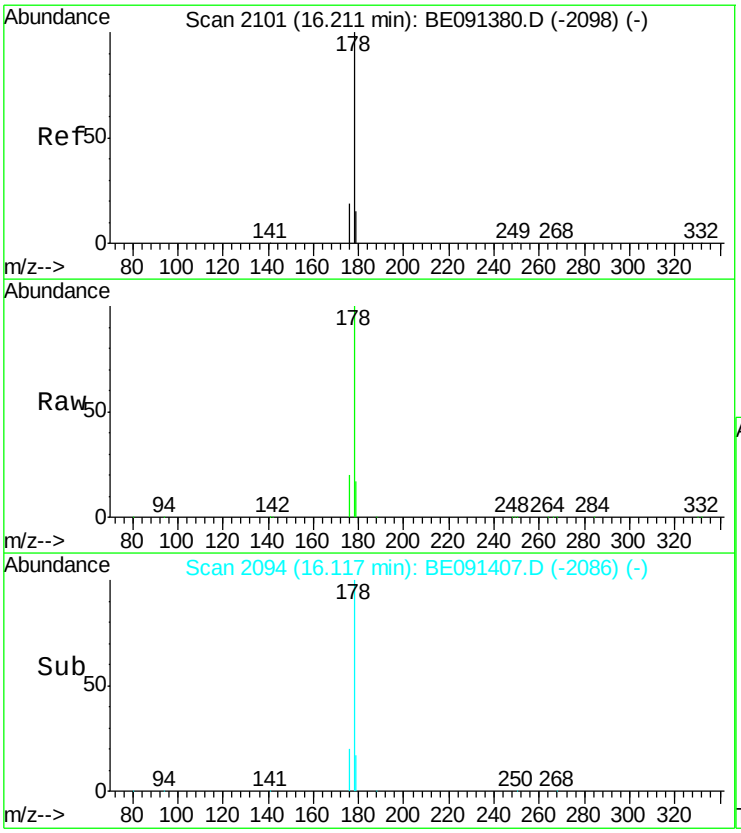
#15
Phenanthrene
Concen: 34.70 ng
RT: 16.12 min Scan# 2094
Delta R.T. -0.00 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:178 Resp: 2951313

Ion	Ratio	Lower	Upper
178	100		
176	21.0	15.4	23.2
179	16.8	12.7	19.1

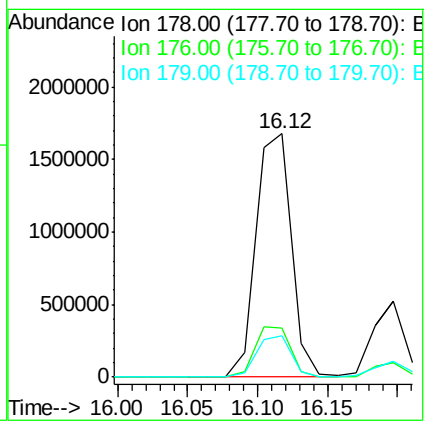


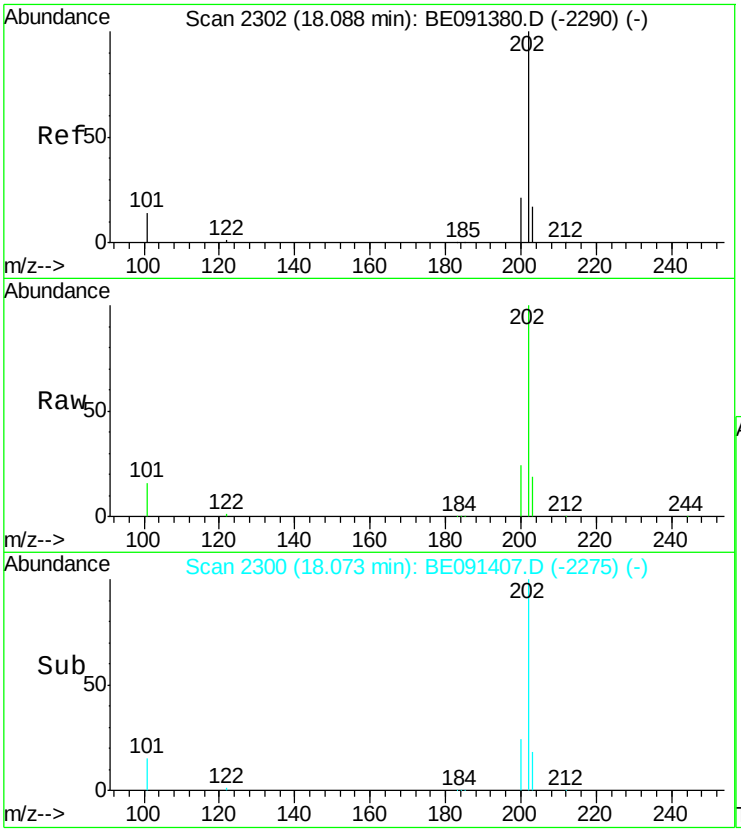


#16
Anthracene
Concen: 41.31 ng
RT: 16.12 min Scan# 2094
Delta R.T. -0.09 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:178 Resp: 2944273

Ion	Ratio	Lower	Upper
178	100		
176	21.0	14.8	22.2
179	16.6	12.1	18.1



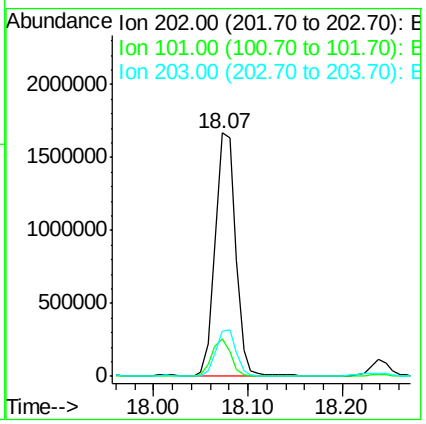


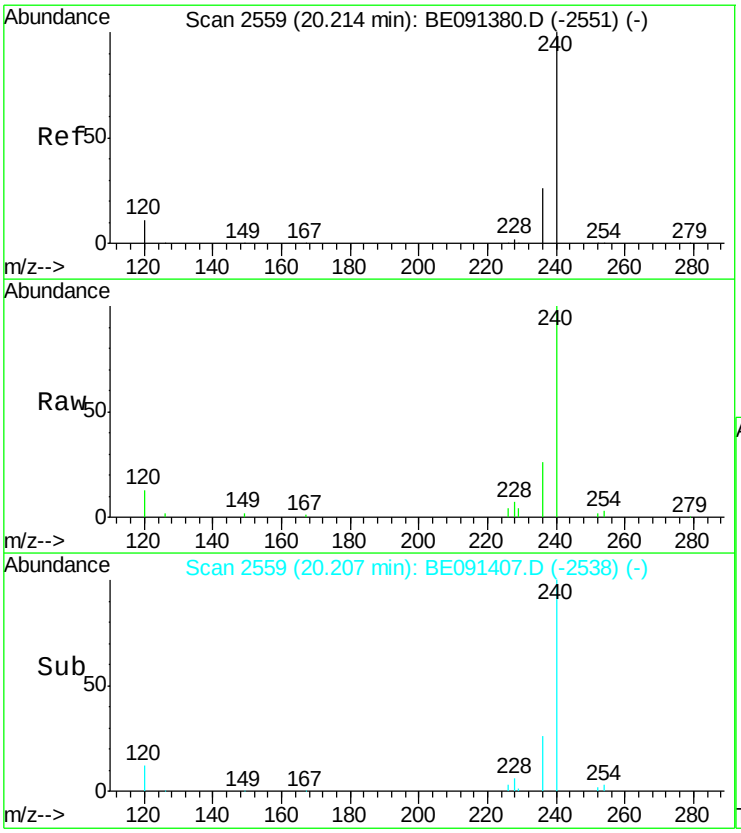
#17
Fluoranthene
Concen: 27.27 ng
RT: 18.07 min Scan# 2300
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:202 Resp: 2481474

Ion	Ratio	Lower	Upper
202	100		
101	14.0	10.5	15.7
203	18.5	13.9	20.9

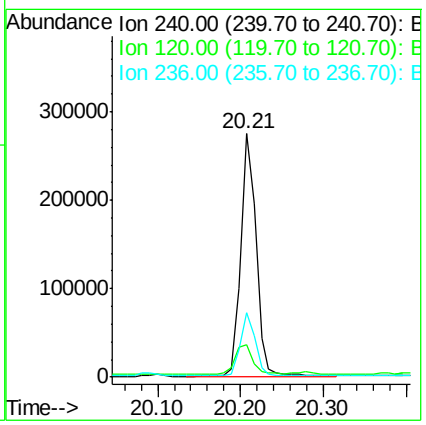


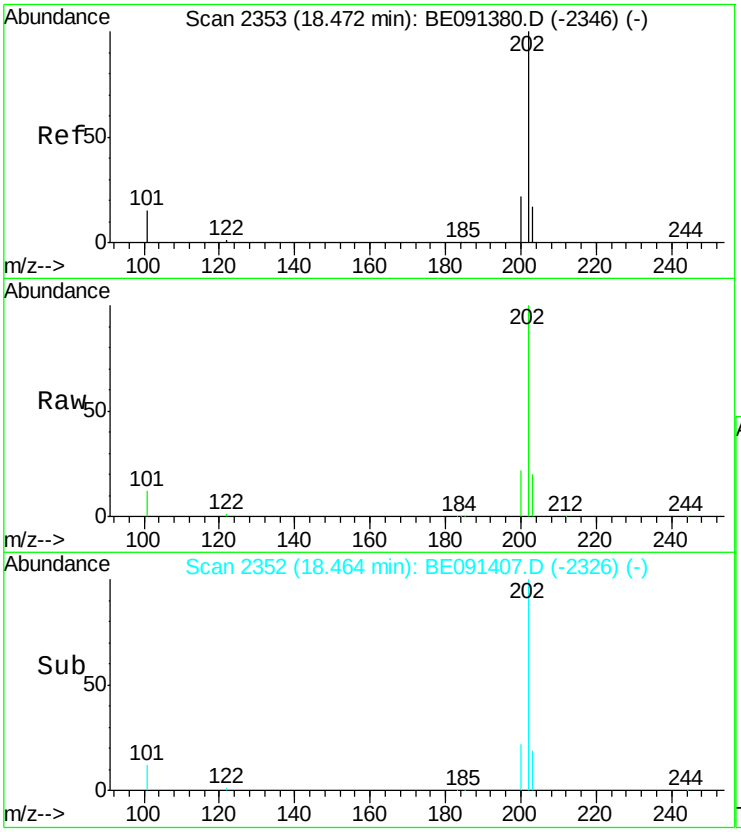


#18
Chrysene-d12
Concen: 5.00 ng
RT: 20.21 min Scan# 2559
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:240 Resp: 349294

Ion	Ratio	Lower	Upper
240	100		
120	13.4	8.9	13.3#
236	26.2	21.0	31.4



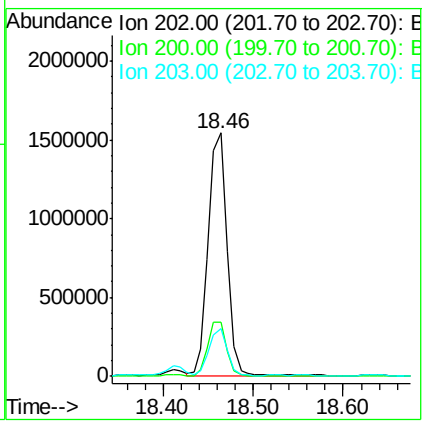


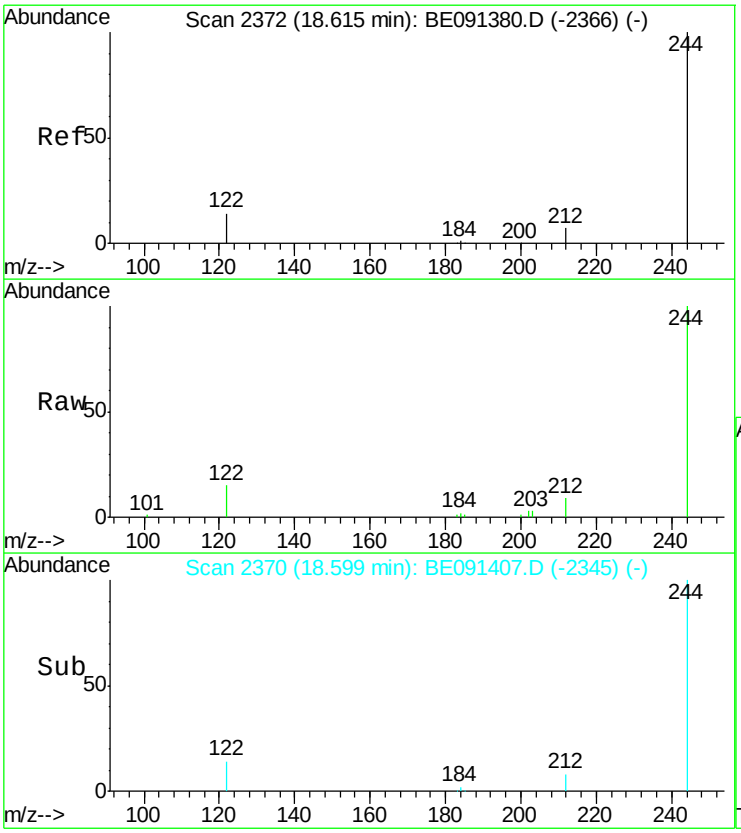
#19
Pyrene
Concen: 29.46 ng
RT: 18.46 min Scan# 2352
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:202 Resp: 2229859

Ion	Ratio	Lower	Upper
202	100		
200	22.5	16.8	25.2
203	18.7	14.0	21.0

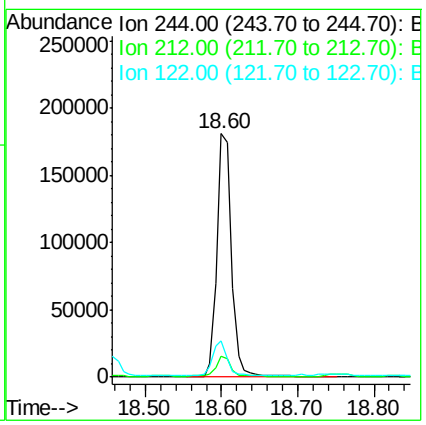


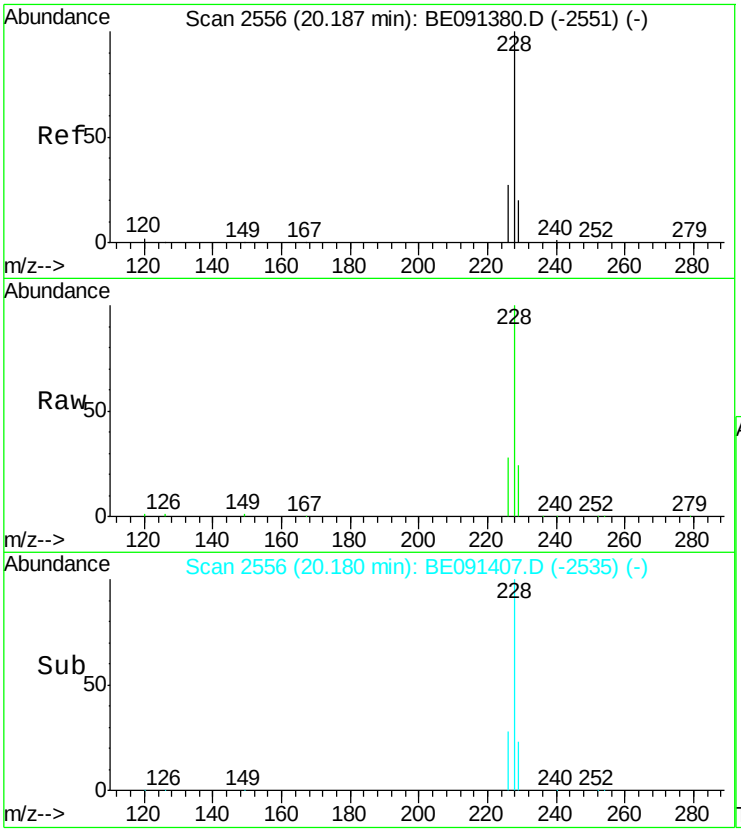


#20
Terphenyl-d14
Concen: 4.63 ng
RT: 18.60 min Scan# 2370
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:244 Resp: 239134

Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.1	9.1
122	14.9	11.0	16.6



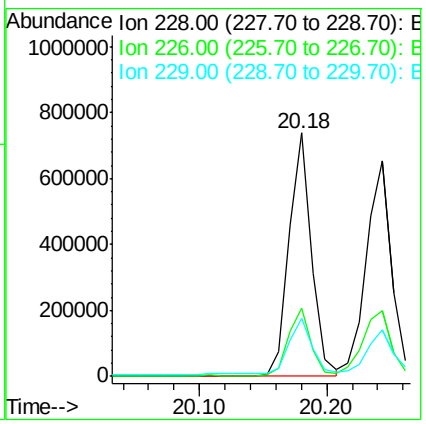


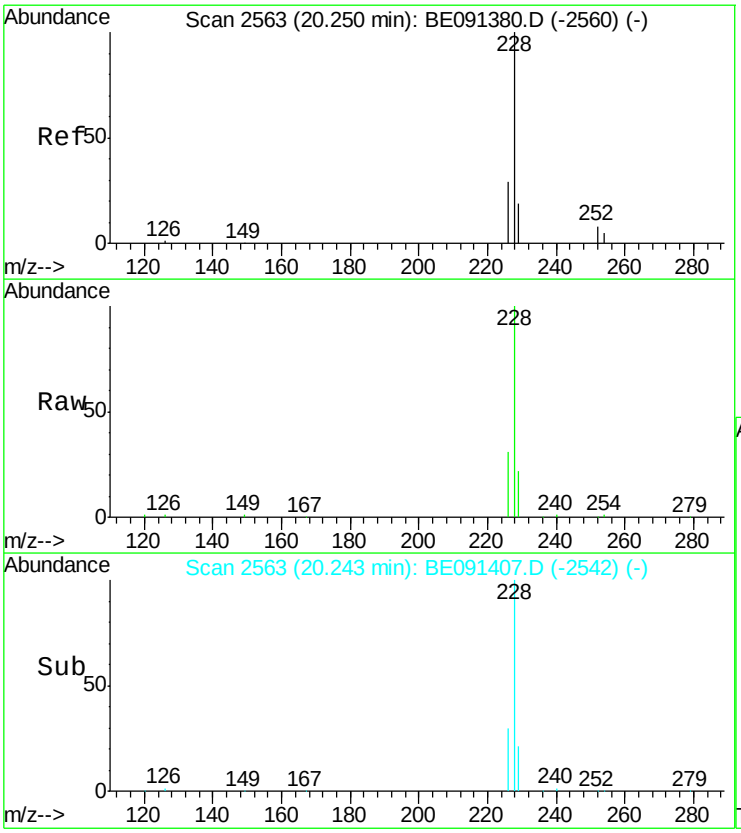
#21
Benzo(a)anthracene
Concen: 11.26 ng
RT: 20.18 min Scan# 2556
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:228 Resp: 894215

Ion	Ratio	Lower	Upper
228	100		
226	28.1	21.7	32.5
229	24.0	16.1	24.1

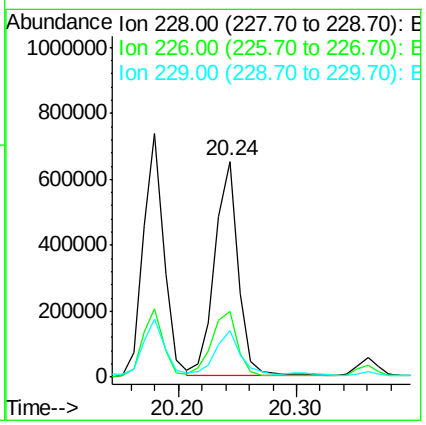


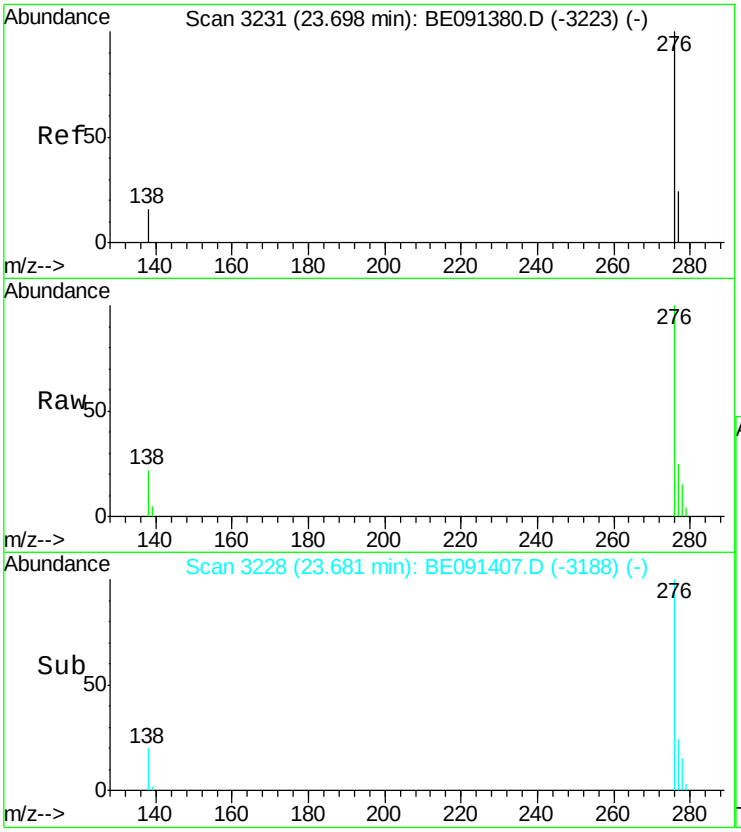


#22
Chrysene
Concen: 10.52 ng
RT: 20.24 min Scan# 2563
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:228 Resp: 903470

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.4	35.0
229	21.8	15.7	23.5



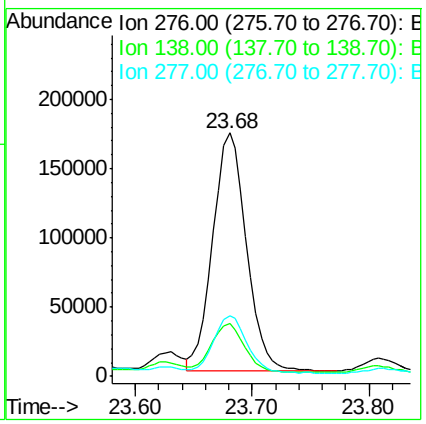


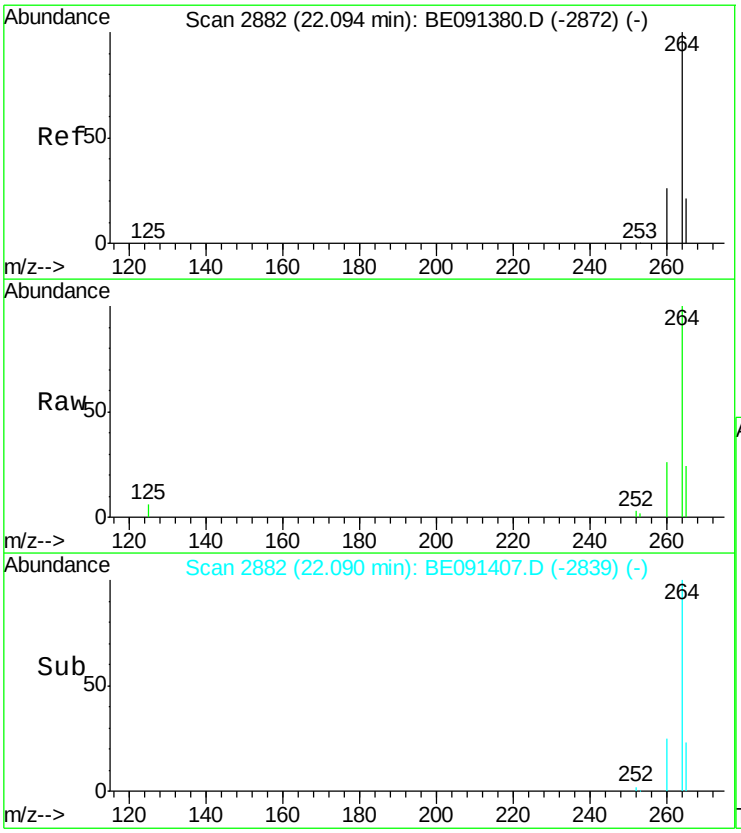
#23
Indeno(1,2,3-cd)pyrene
Concen: 4.36 ng
RT: 23.68 min Scan# 3228
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:276 Resp: 344687

Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.6	25.0
277	24.2	19.0	28.6

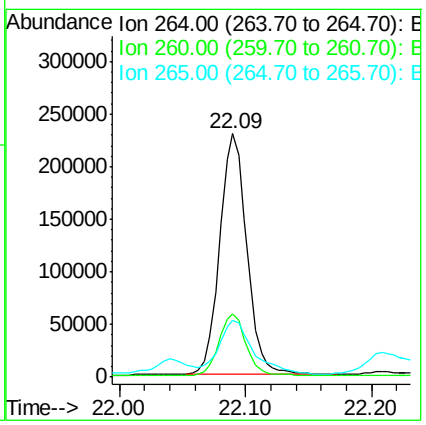


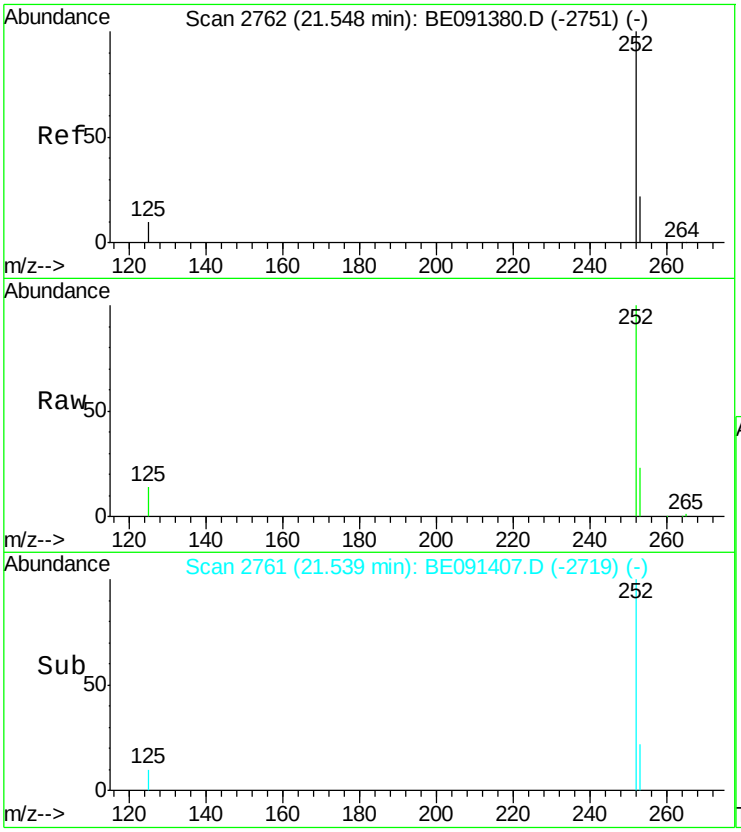


#24
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. -0.00 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:264 Resp: 339359

Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.7	31.1
265	23.5	17.2	25.8



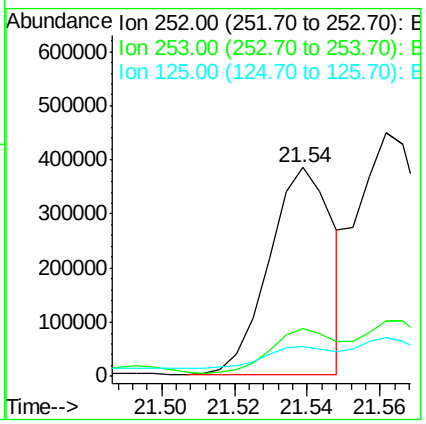


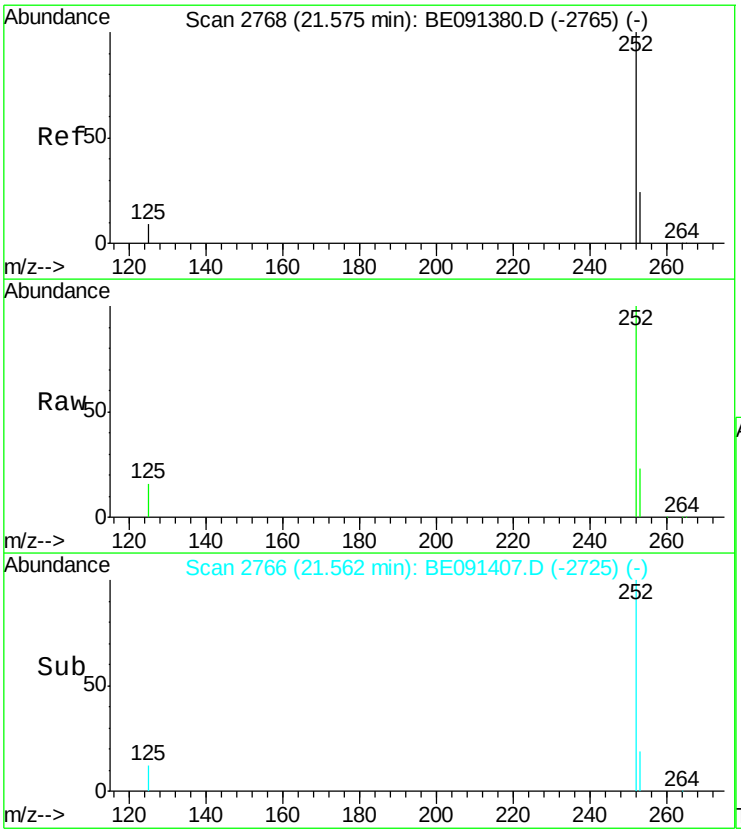
#25
Benzo(b)fluoranthene
Concen: 5.45 ng
RT: 21.54 min Scan# 2761
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:252 Resp: 461769

Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	14.3	8.3	12.5#

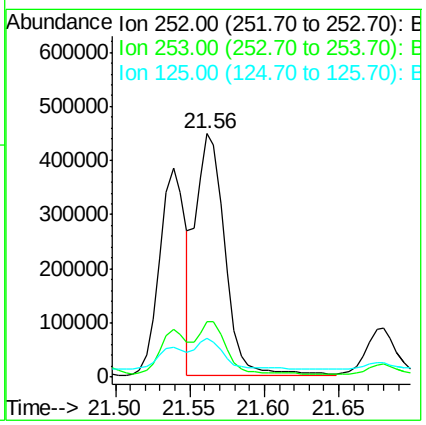


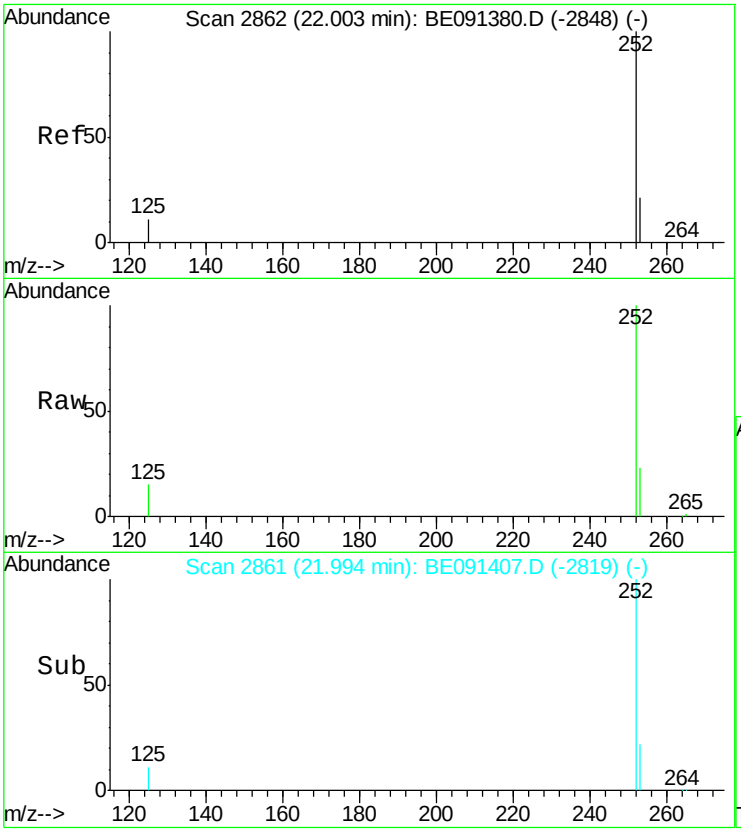


#26
Benzo(k)fluoranthene
Concen: 7.16 ng
RT: 21.56 min Scan# 2766
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:252 Resp: 607238

Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	15.7	8.2	12.4#



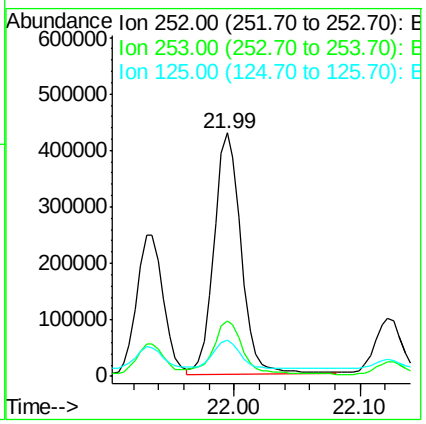


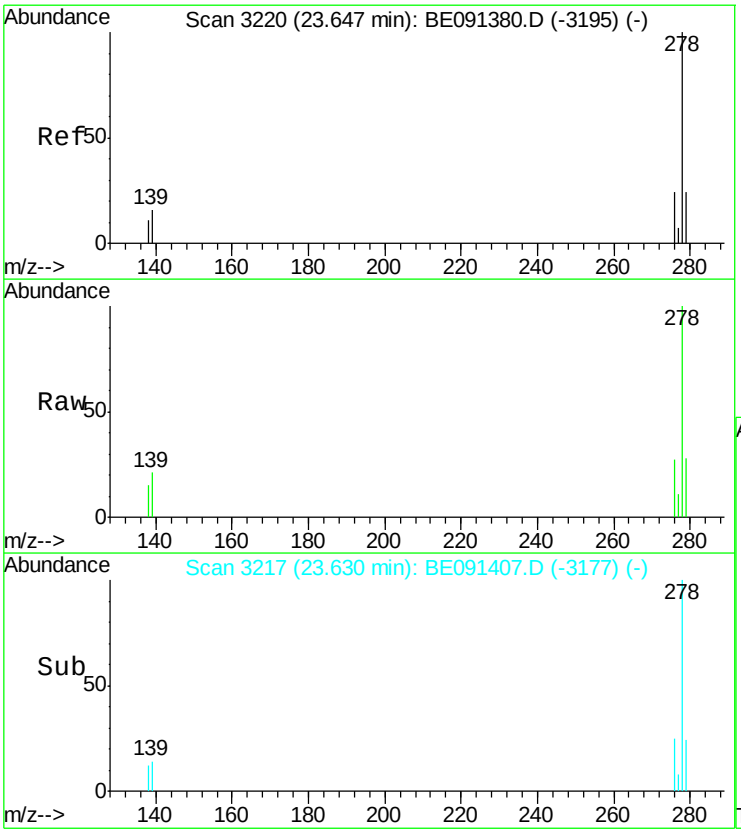
#27
Benzo(a)pyrene
Concen: 8.04 ng
RT: 21.99 min Scan# 2861
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:252 Resp: 636713

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	14.7	9.4	14.0#

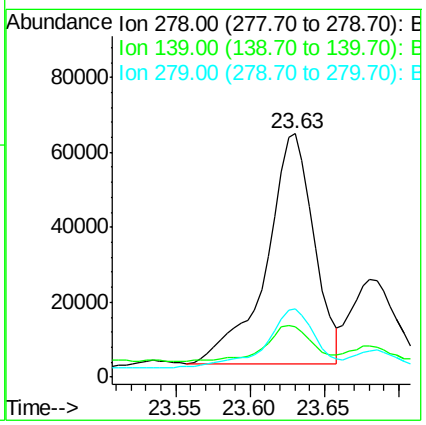


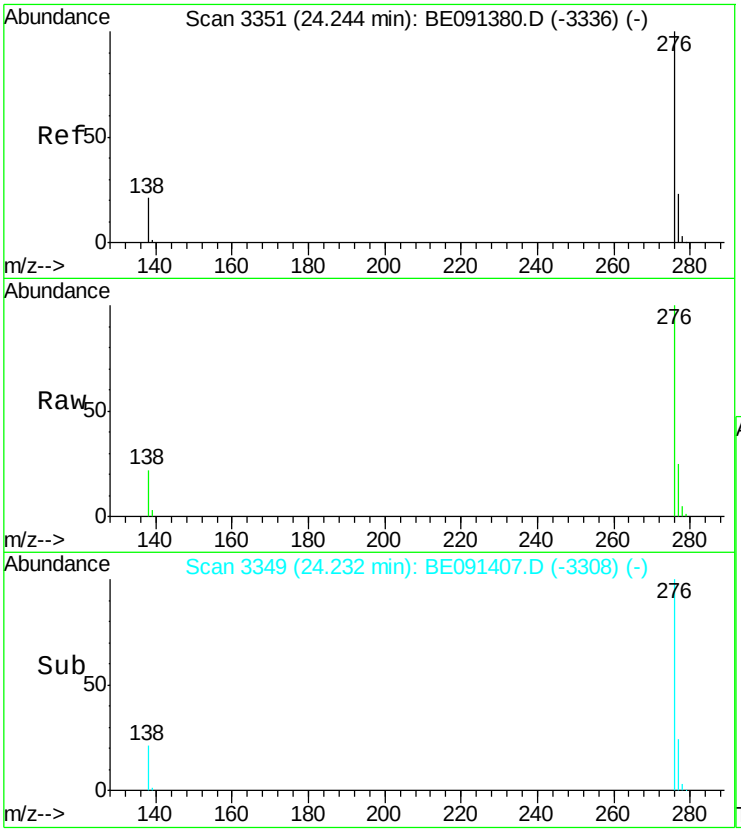


#28
Dibenzo(a,h)anthracene
Concen: 1.92 ng
RT: 23.63 min Scan# 3217
Delta R.T. -0.02 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Tgt Ion:278 Resp: 136278

Ion	Ratio	Lower	Upper
278	100		
139	20.6	13.0	19.4#
279	28.3	19.2	28.8





#29
Benzo(g,h,i)perylene
Concen: 4.03 ng
RT: 24.23 min Scan# 3349
Delta R.T. -0.01 min
Lab File: BE091407.D
Acq: 17 Feb 2016 16:54

Instrument :
BNA_E
ClientSampleId :
LIBERTY-SF-005

Tgt Ion:276 Resp: 337551

Ion	Ratio	Lower	Upper
276	100		
277	25.3	18.9	28.3
138	21.9	17.0	25.6