Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087384.D
Acq On : 25 May 2016 21:54
Operator : UM/SJ
Sample : H3242-05 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

Quant Time: May 26 00:10:02 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 16:26:52 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	102240	20.00	ng		0.00
21) Naphthalene-d8	9.55	136	396541	20.00	ng		0.00
38) Acenaphthene-d10	12.38	164	158620	20.00	ng		-0.01
63) Phenanthrene-d10	14.78	188	254725	20.00	ng		0.00
75) Chrysene-d12	18.47	240	225229	20.00	ng		-0.01
86) Perylene-d12	20.14	264	152748	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.43	112	68729	11.81	ng		0.01
7) Phenol-d6	7.07	99	89724	11.41	ng		0.00
23) Nitrobenzene-d5	8.43	82	53644	6.82	ng		-0.01
41) 2,4,6-Tribromophenol	13.67	330	13196	8.66	ng		-0.01
44) 2-Fluorobiphenyl	11.32	172	102046	9.07	ng		-0.01
78) Terphenyl-d14	17.12	244	72751	6.87	ng		-0.01
Target Compounds							Qvalue
31) Naphthalene	9.58	128	283435	14.26	ng		99
37) 2-Methylnaphthalene	10.71	142	53440	4.31	ng	#	94
51) Acenaphthene	12.42	154	51029	5.13	ng		99
54) Dibenzofuran	12.72	168	52975	3.94	ng		100
57) Fluorene	13.27	166	52884	4.53	ng		98
70) Phenanthrene	14.81	178	492994	34.94	ng		99
71) Anthracene	14.89	178	131161	9.20	ng		98
72) Carbazole	15.19	167	43872	3.61	ng		99
74) Fluoranthene	16.57	202	433430	30.63	ng		93
77) Pyrene	16.87	202	374833	23.12	ng	#	93
80) Benzo(a)anthracene	18.46	228	173602	13.55	ng		98
82) Chrysene	18.50	228	121496	9.56	ng		97
85) Indeno(1,2,3-cd)pyrene	21.36	276	42959	4.21	ng	#	90
87) Benzo(b)fluoranthene	19.73	252	134612m	13.83	ng		
88) Benzo(k)fluoranthene	19.76	252	33728m	4.03	ng		
89) Benzo(a)pyrene	20.08	252	86743	10.31	ng		96
91) Benzo(g,h,i)perylene	21.71	276	41333	5.84	ng		97

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

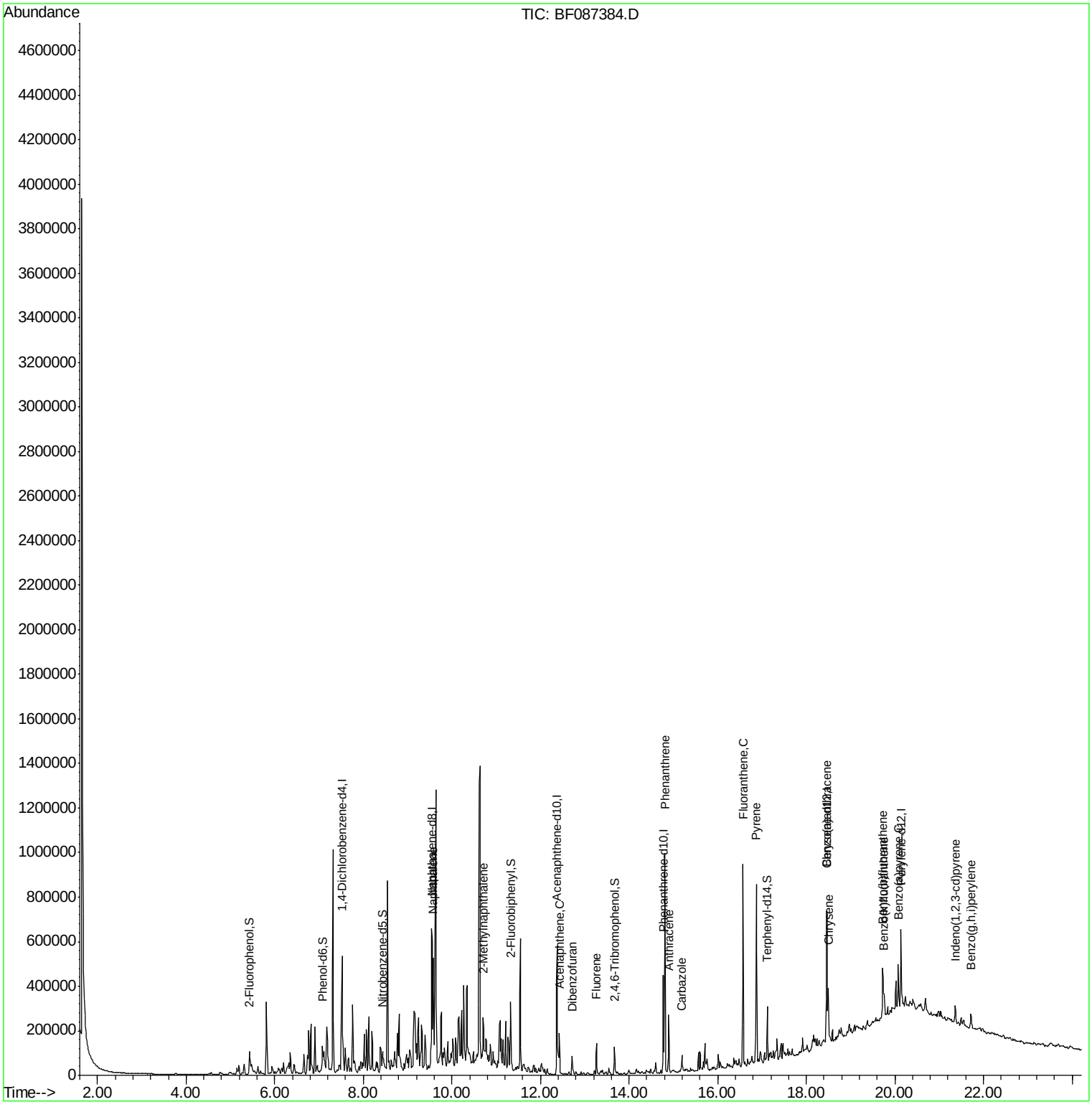
Quantitation Report (LSC Reviewed)

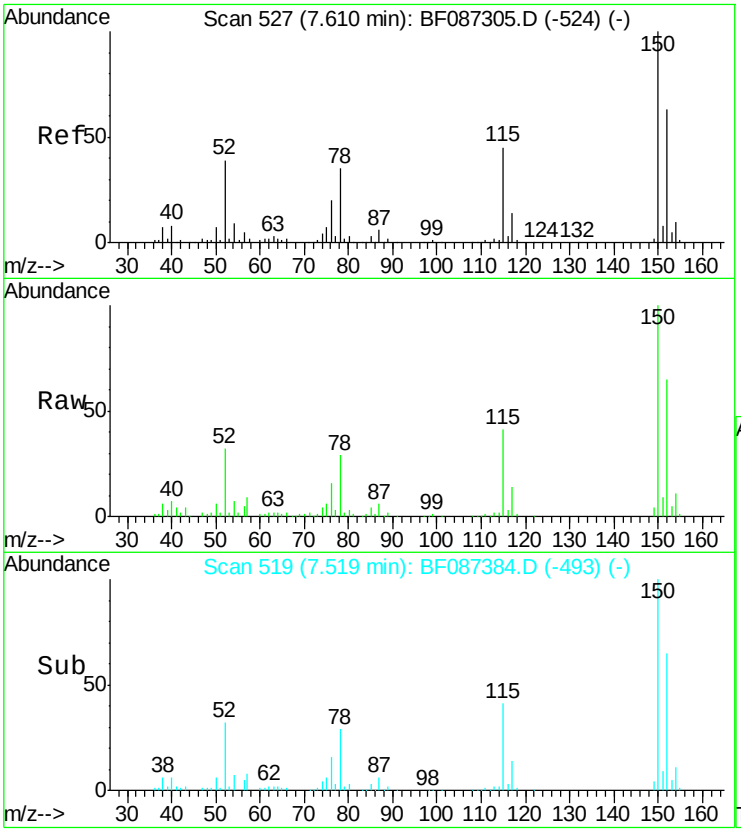
Data Path : Z:\HPCHEM1\BNA F\DATA\BF052516\
Data File : BF087384.D
Acq On : 25 May 2016 21:54
Operator : UM/SJ
Sample : H3242-05 5X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 26 00:10:02 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF052316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 25 16:26:52 2016
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

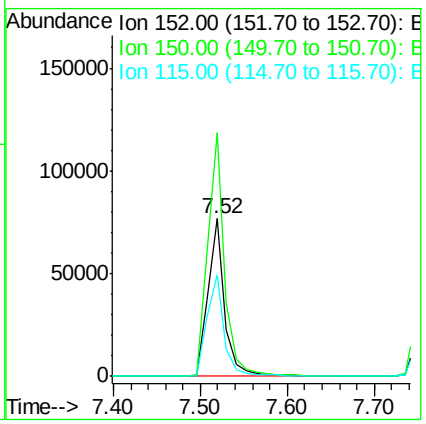




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.52 min Scan# 519
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

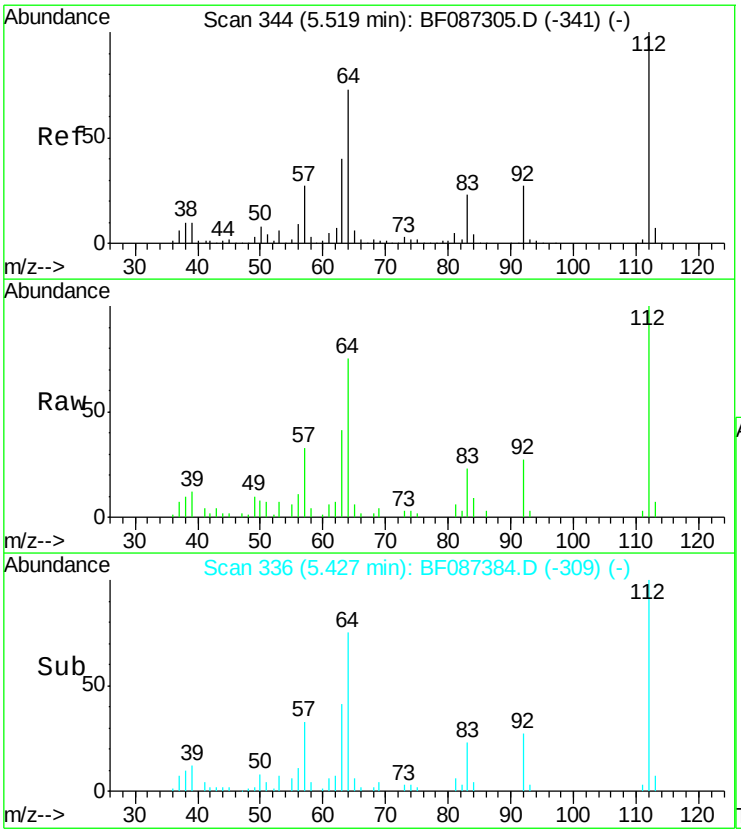
Tgt Ion:152 Resp: 102240

Ion	Ratio	Lower	Upper
152	100		
150	154.8	125.8	188.6
115	64.2	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

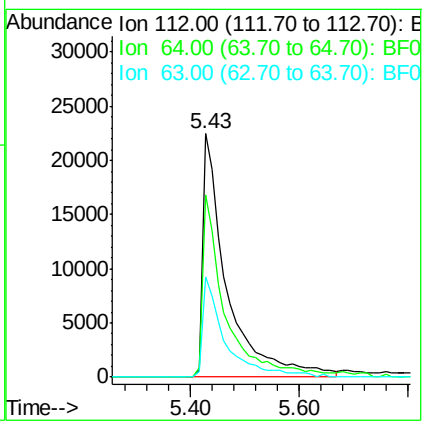
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

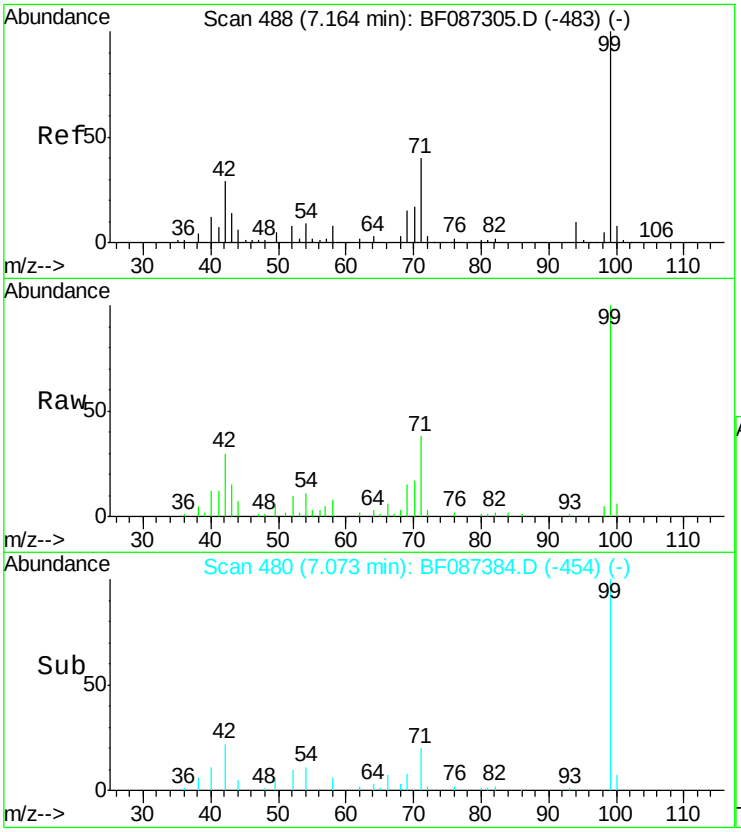


#5
2-Fluorophenol
Concen: 11.81 ng
RT: 5.43 min Scan# 336
Delta R.T. 0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:112 Resp: 68729

Ion	Ratio	Lower	Upper
112	100		
64	74.9	52.1	78.1
63	41.2	25.7	38.5#

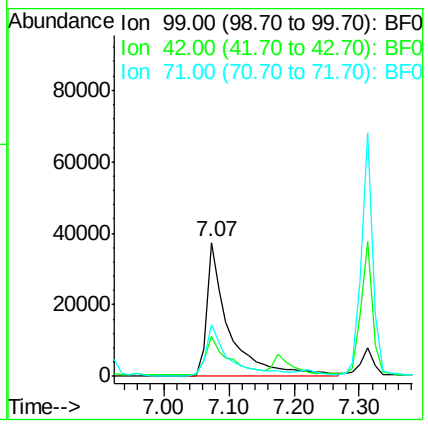




#7
Phenol-d6
Concen: 11.41 ng
RT: 7.07 min Scan# 480
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

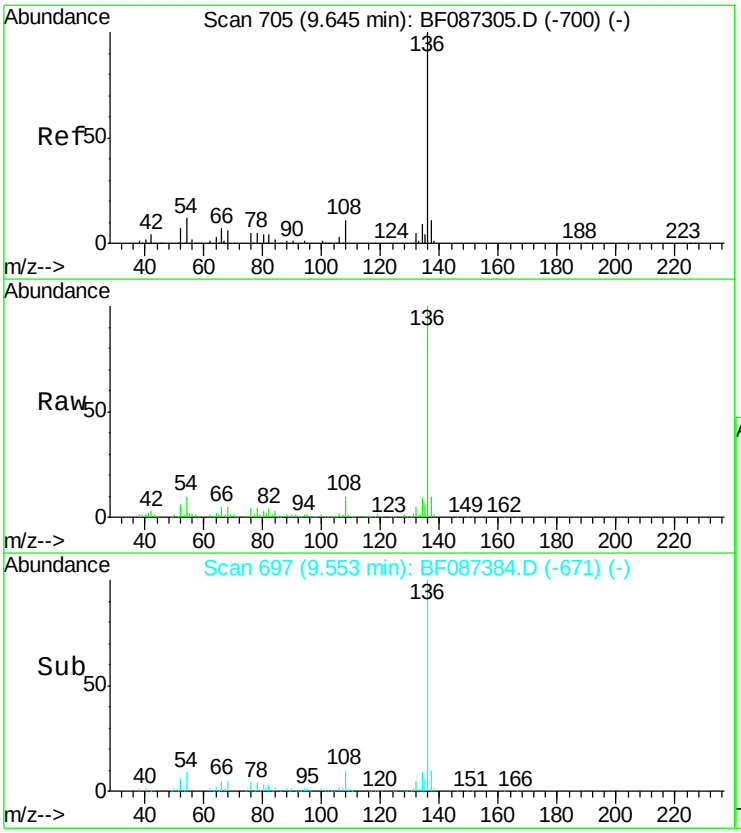
Tgt Ion: 99 Resp: 89724

Ion	Ratio	Lower	Upper
99	100		
42	30.0	13.6	20.4#
71	38.1	24.6	36.8#



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

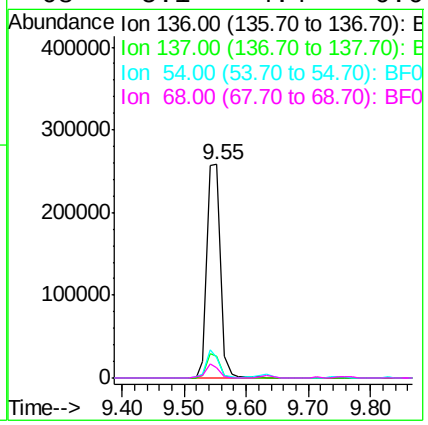
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

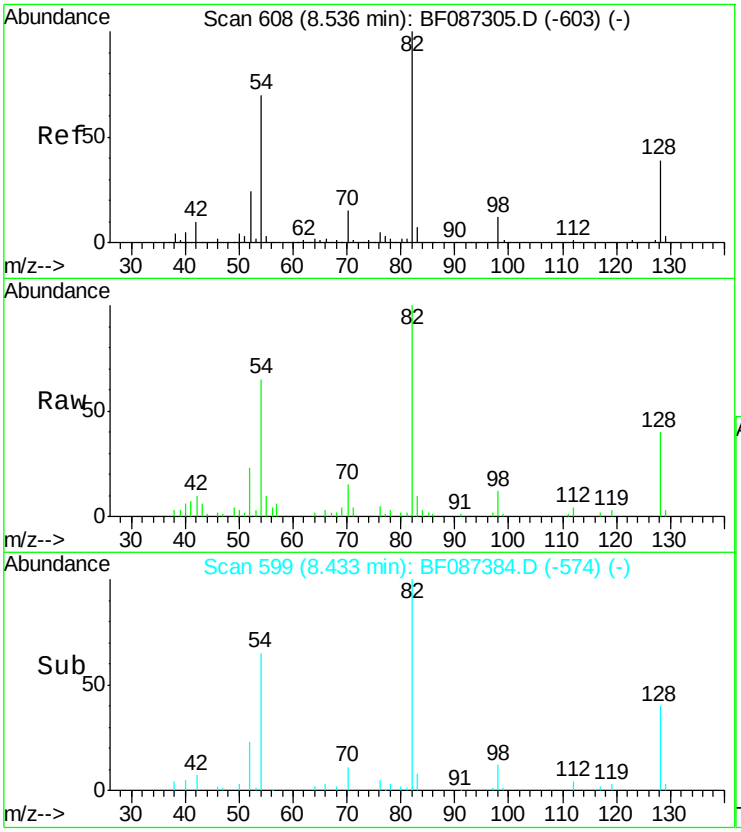


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.55 min Scan# 697
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:136 Resp: 396541

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.8	13.2
54	9.6	5.0	7.4#
68	5.1	4.4	6.6

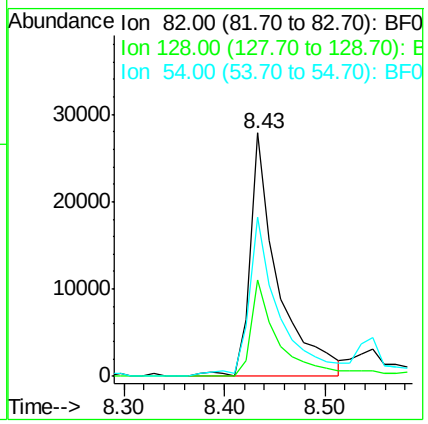




#23
Nitrobenzene-d5
Concen: 6.82 ng
RT: 8.43 min Scan# 599
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

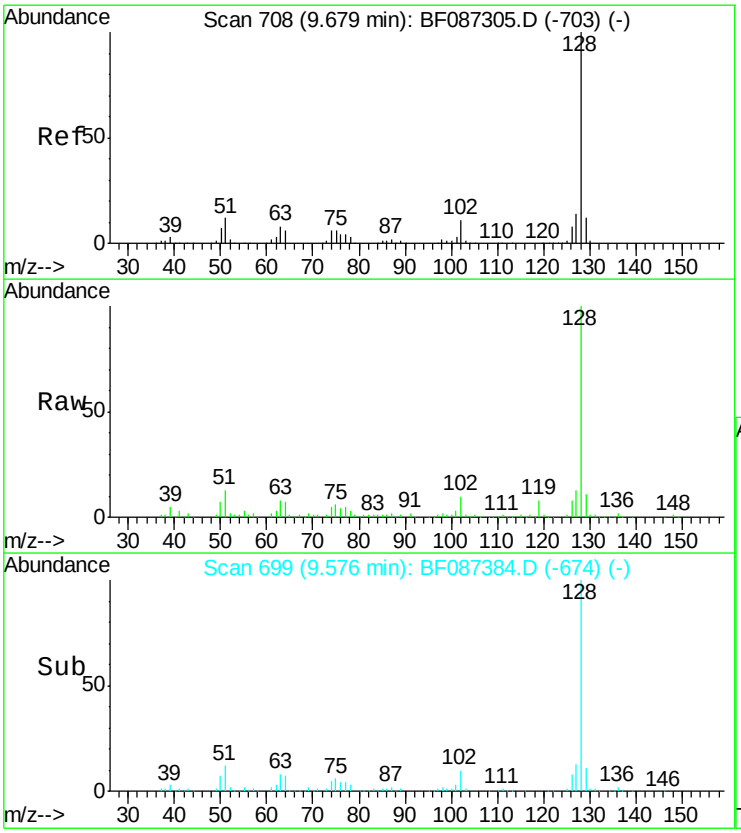
Tgt Ion: 82 Resp: 53644

Ion	Ratio	Lower	Upper
82	100		
128	39.8	40.6	61.0#
54	65.3	38.1	57.1#



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

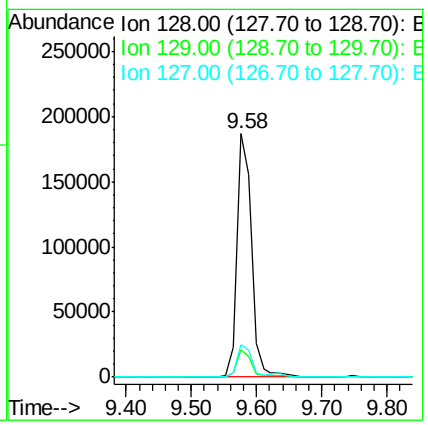
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

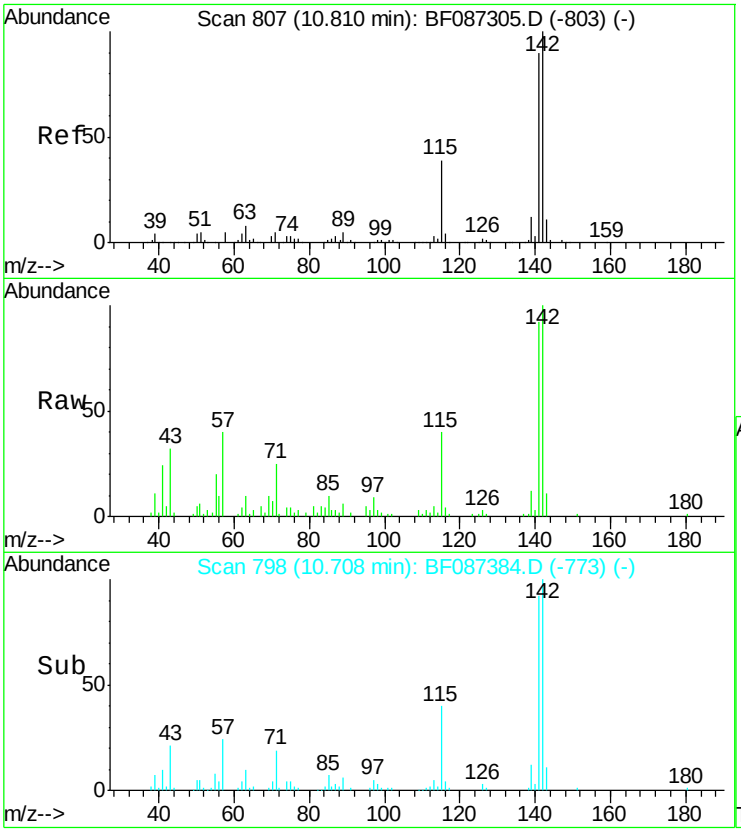


#31
Naphthalene
Concen: 14.26 ng
RT: 9.58 min Scan# 699
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:128 Resp: 283435

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.6	13.0
127	13.1	10.8	16.2

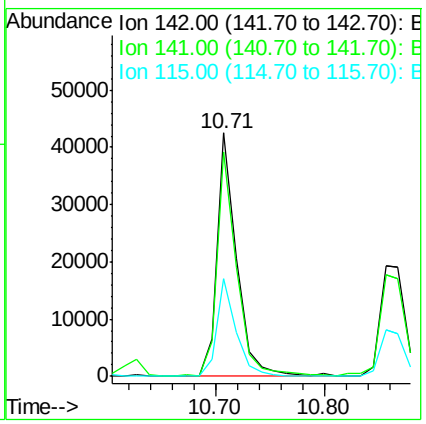




#37
2-Methylnaphthalene
Concen: 4.31 ng
RT: 10.71 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

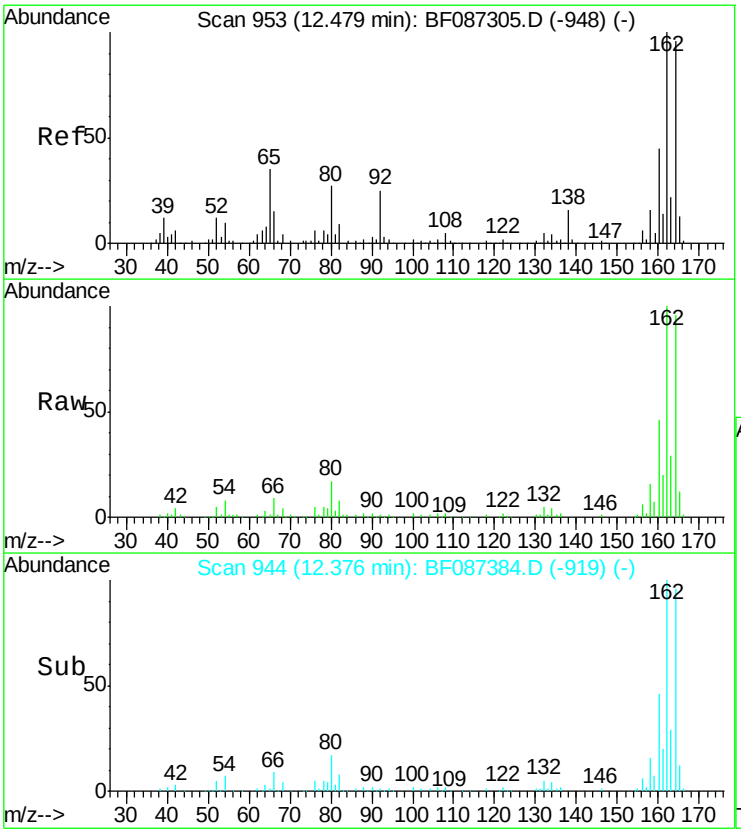
Tgt Ion:142 Resp: 53440

Ion	Ratio	Lower	Upper
142	100		
141	92.3	71.0	106.6
115	40.3	26.6	39.8#



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

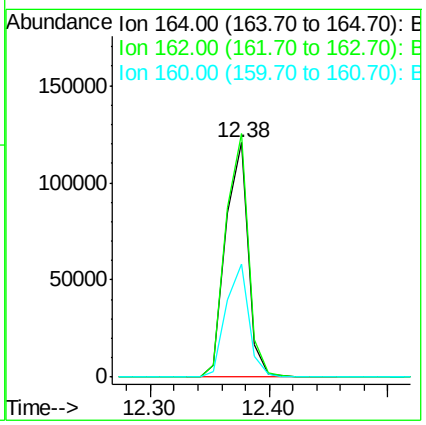
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

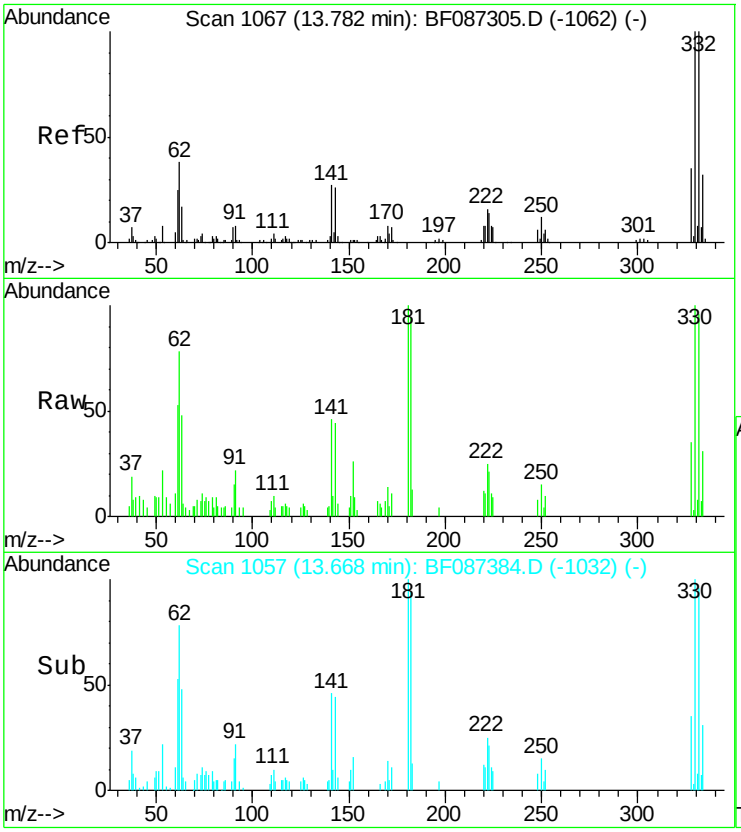


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.38 min Scan# 944
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:164 Resp: 158620

Ion	Ratio	Lower	Upper
164	100		
162	103.8	82.8	124.2
160	48.1	36.9	55.3





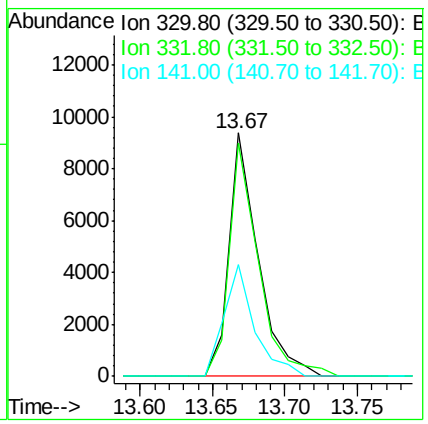
#41
2,4,6-Tribromophenol
Concen: 8.66 ng
RT: 13.67 min Scan# 1057
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

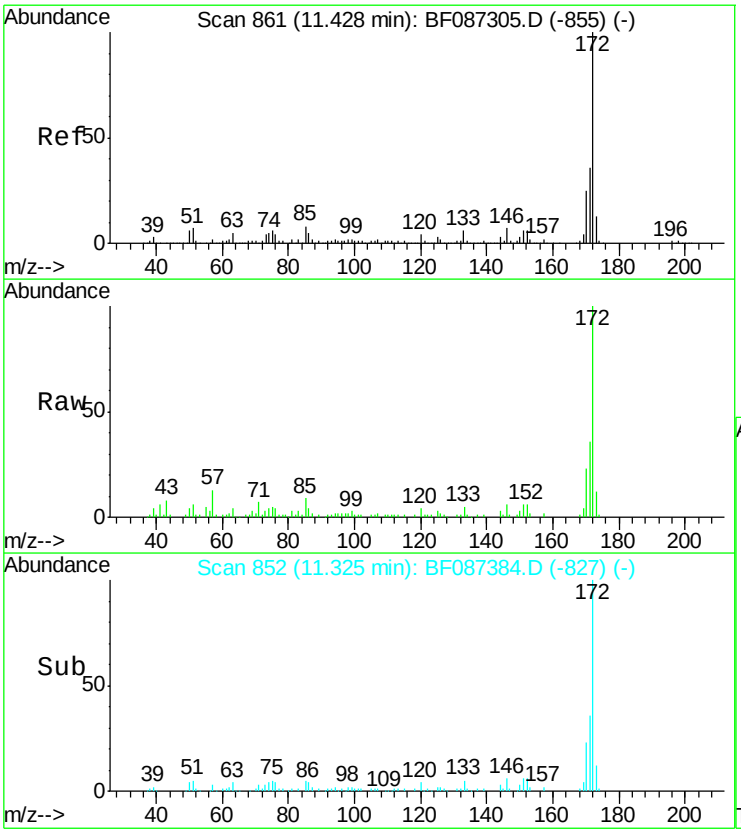
Tgt Ion:330 Resp: 13196

Ion	Ratio	Lower	Upper
330	100		
332	96.0	79.0	118.4
141	47.8	31.2	46.8#

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

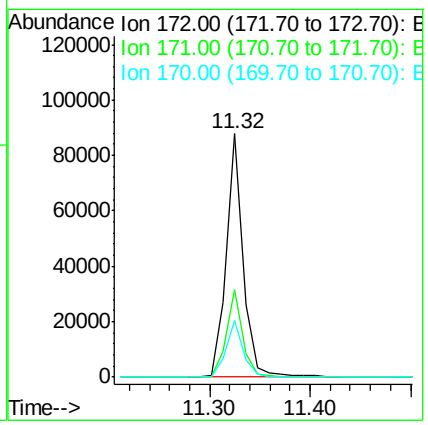


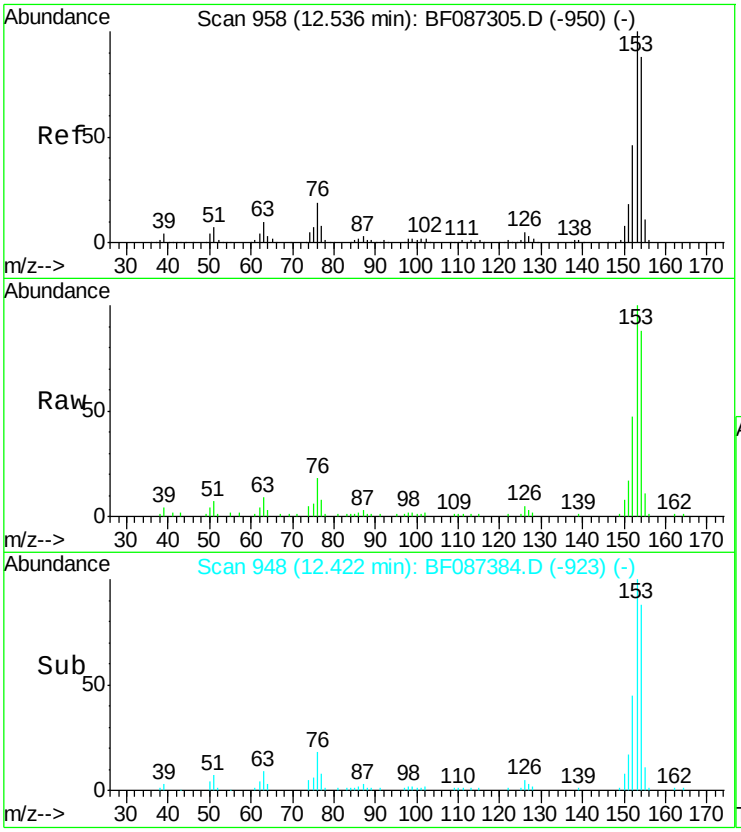


#44
2-Fluorobiphenyl
Concen: 9.07 ng
RT: 11.32 min Scan# 852
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:172 Resp: 102046

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.6
170	23.3	19.8	29.8

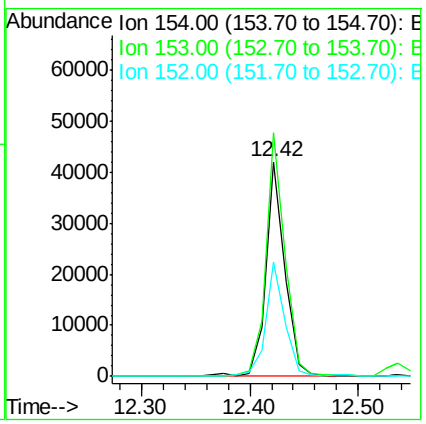




#51
Acenaphthene
Concen: 5.13 ng
RT: 12.42 min Scan# 948
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

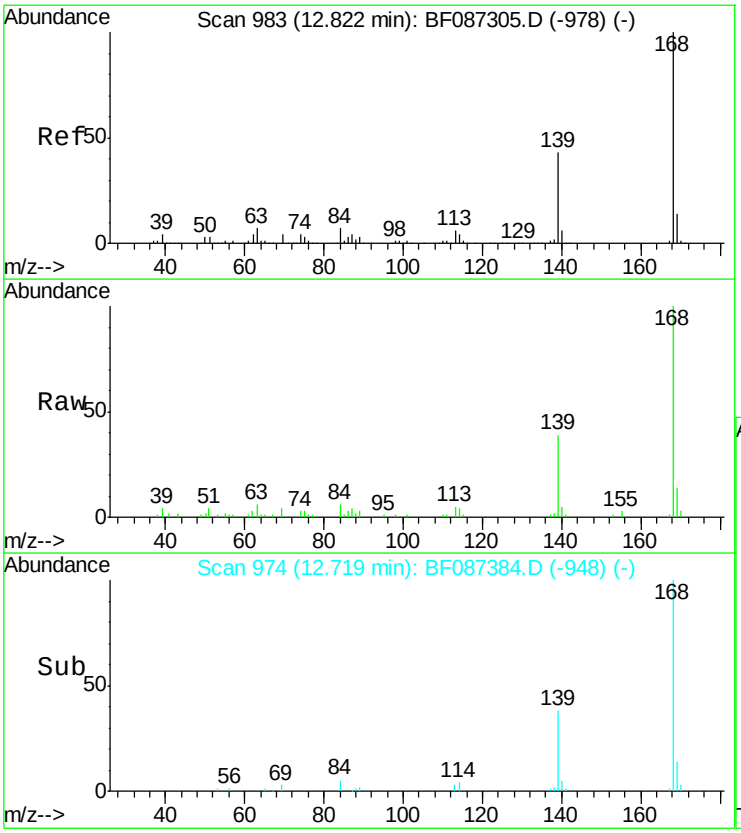
Tgt Ion:154 Resp: 51029

Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.8	134.6
152	53.4	43.4	65.0



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

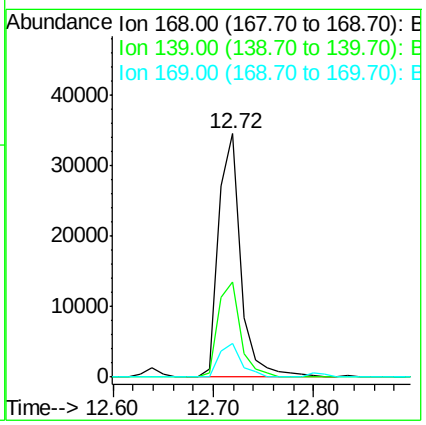
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

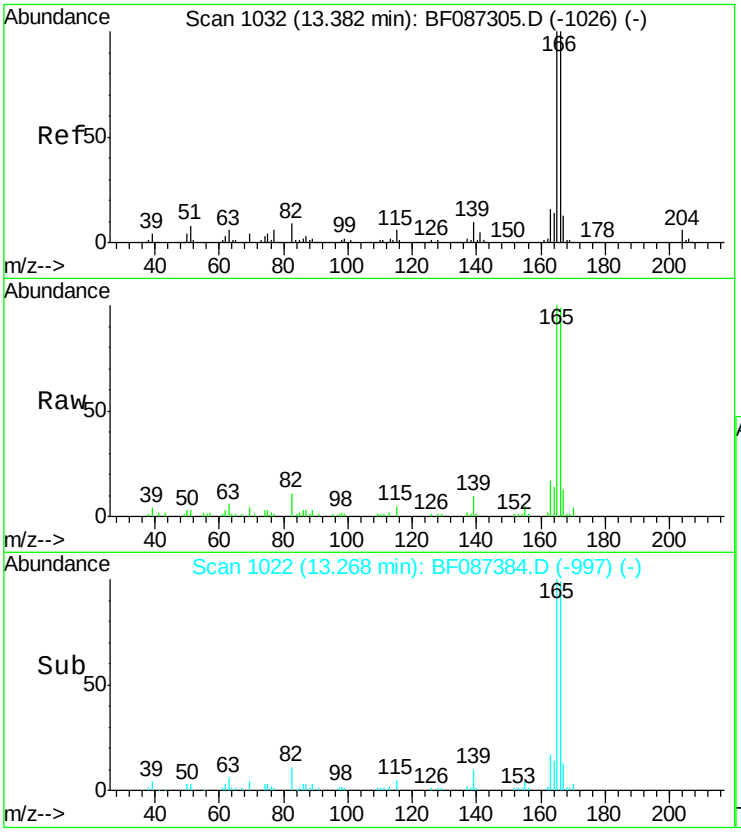


#54
Dibenzofuran
Concen: 3.94 ng
RT: 12.72 min Scan# 974
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:168 Resp: 52975

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.4	47.0
169	13.7	10.7	16.1

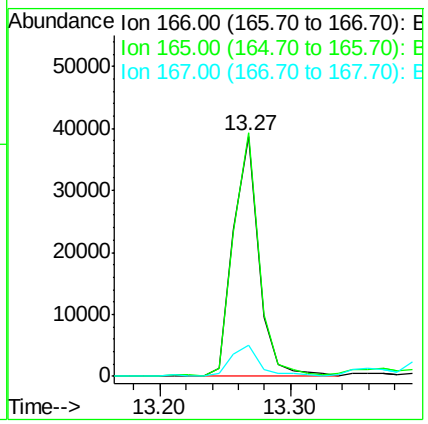




#57
Fluorene
Concen: 4.53 ng
RT: 13.27 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

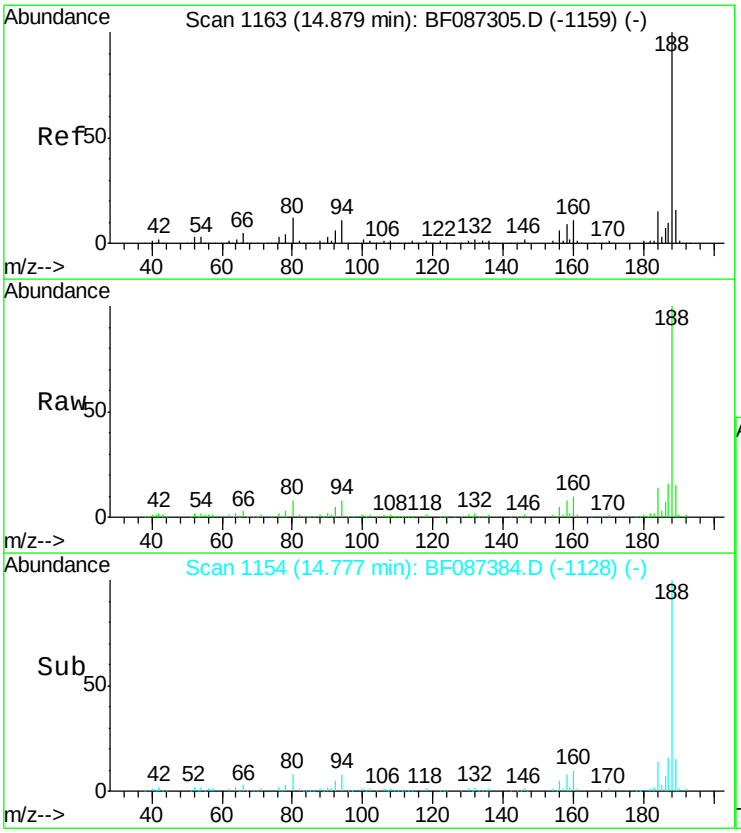
Tgt Ion:166 Resp: 52884

Ion	Ratio	Lower	Upper
166	100		
165	101.4	79.0	118.6
167	13.1	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

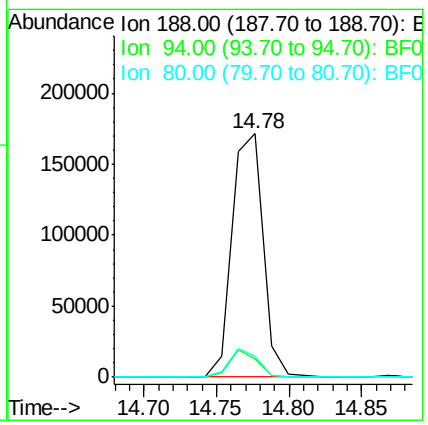
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

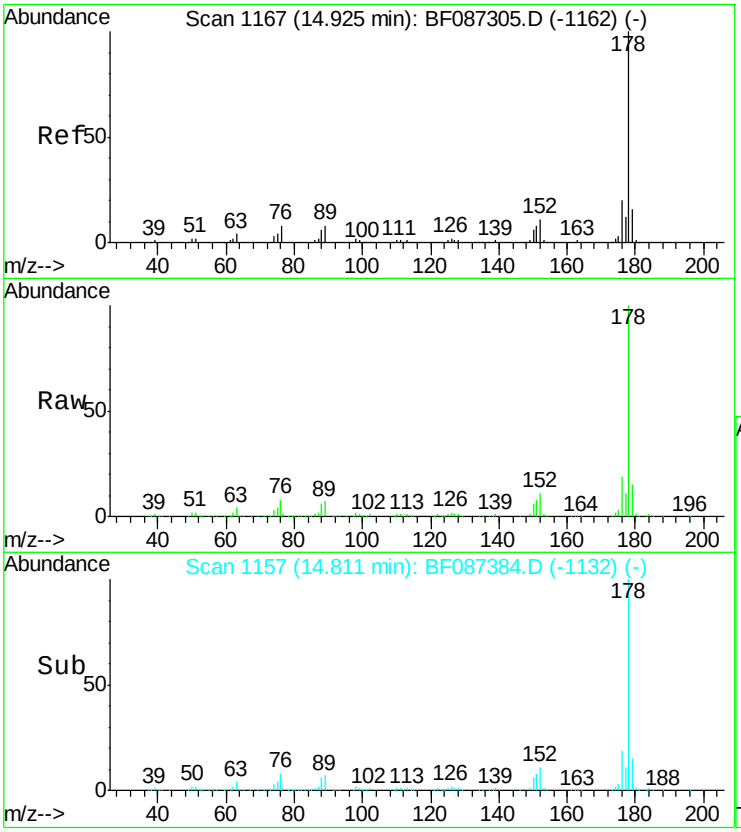


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.78 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:188 Resp: 254725

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.8	10.2
80	8.3	7.1	10.7

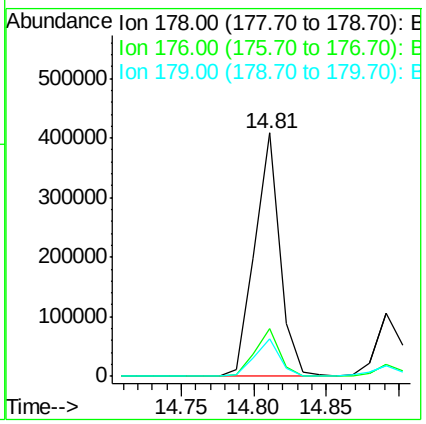




#70
Phenanthrene
Concen: 34.94 ng
RT: 14.81 min Scan# 1157
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

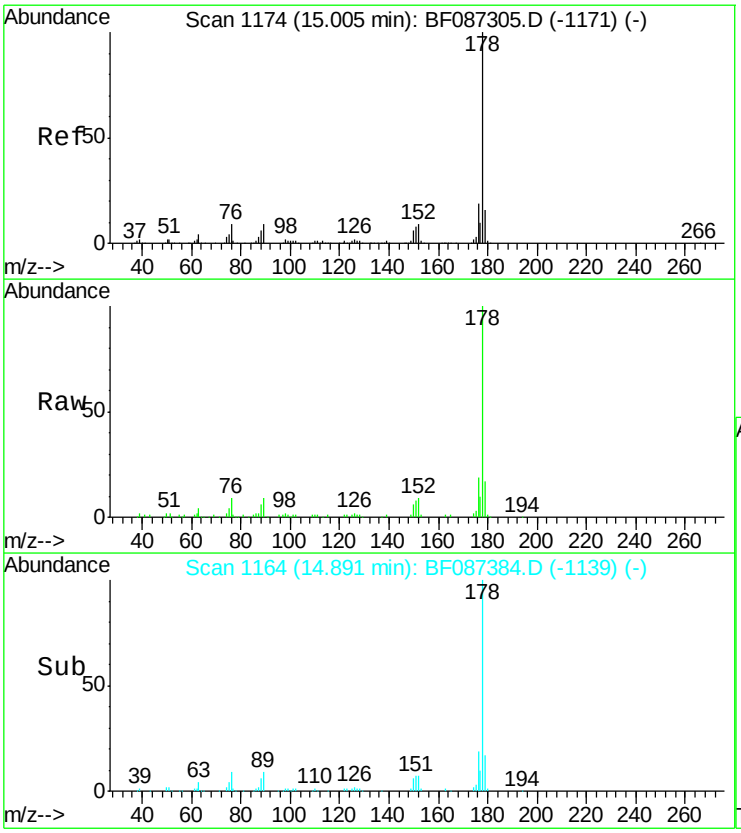
Tgt Ion:178 Resp: 492994

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	15.2	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

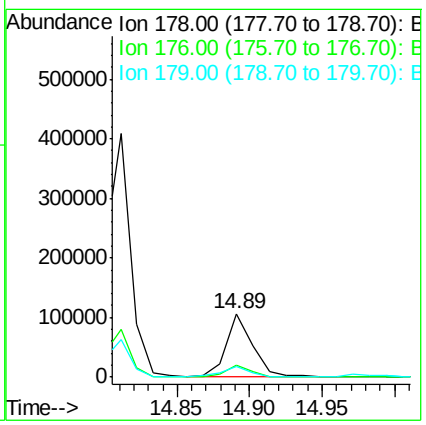
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

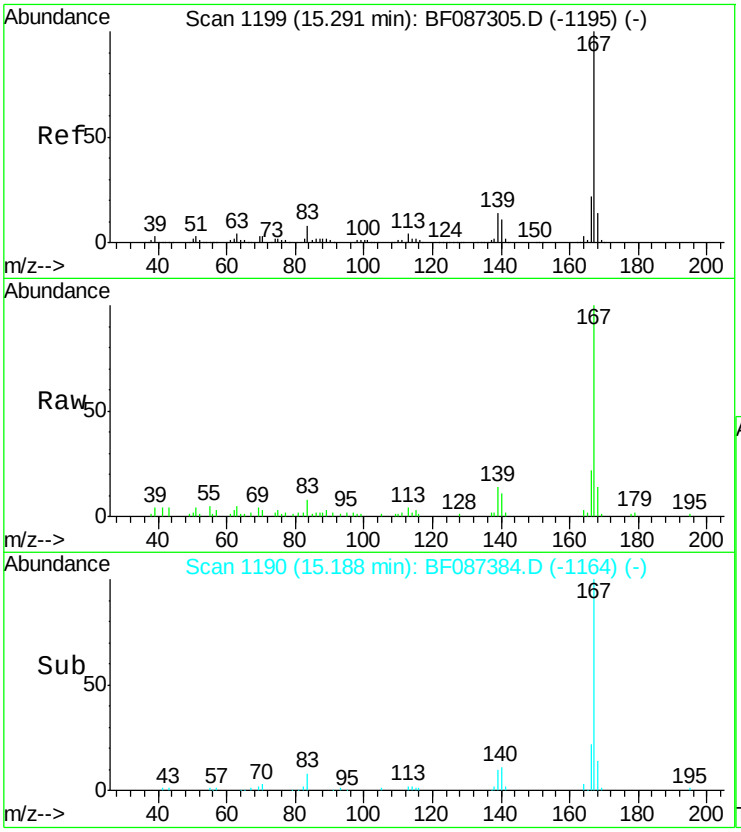


#71
Anthracene
Concen: 9.20 ng
RT: 14.89 min Scan# 1164
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:178 Resp: 131161

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.6	23.4
179	16.9	12.7	19.1

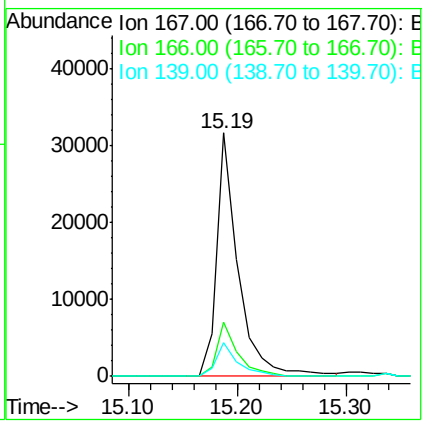




#72
Carbazole
Concen: 3.61 ng
RT: 15.19 min Scan# 1190
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

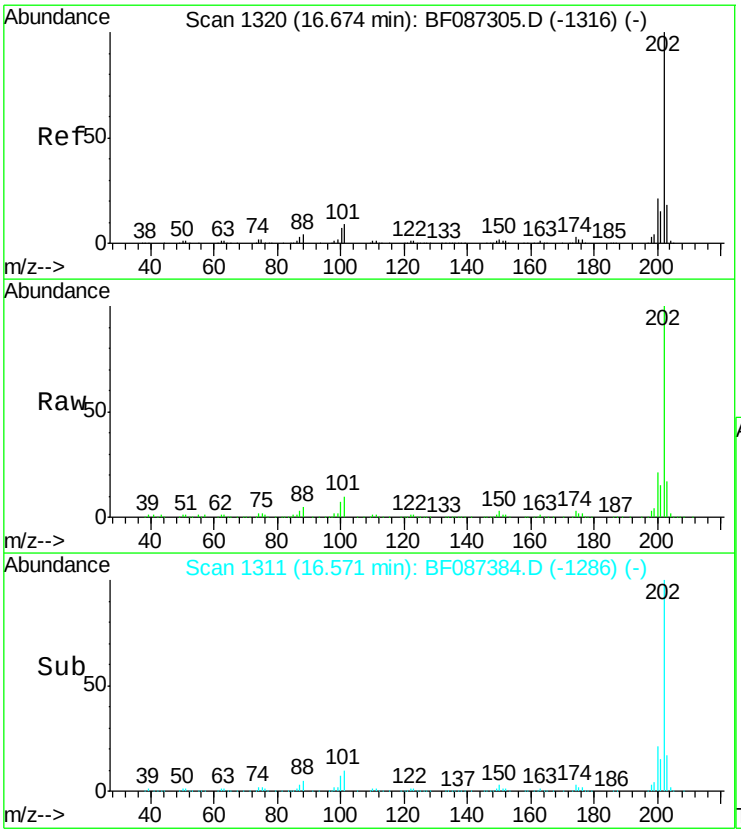
Tgt Ion:167 Resp: 43872

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.7	26.5
139	14.0	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

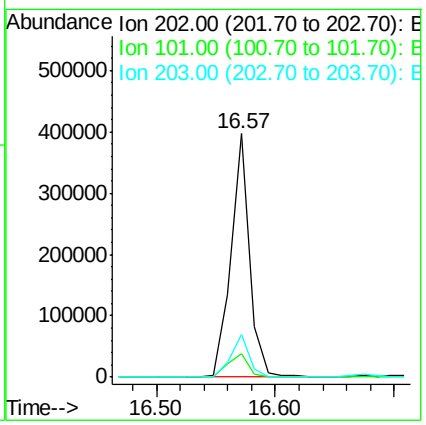
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

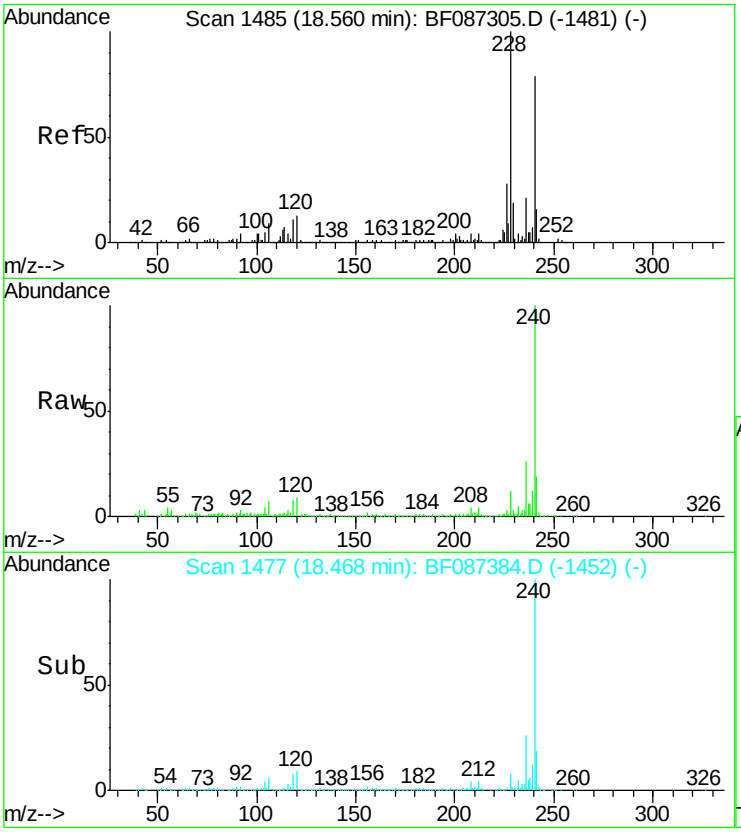


#74
Fluoranthene
Concen: 30.63 ng
RT: 16.57 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:202 Resp: 433430

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	35.4
203	17.3	0.0	38.1





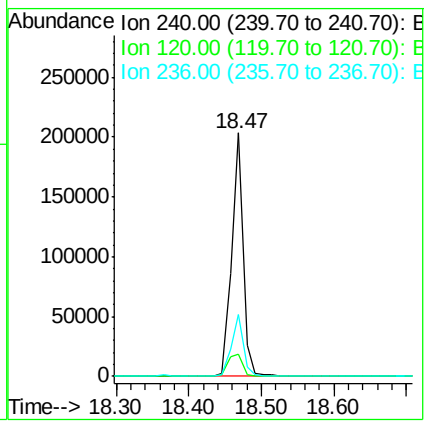
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.47 min Scan# 1477
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

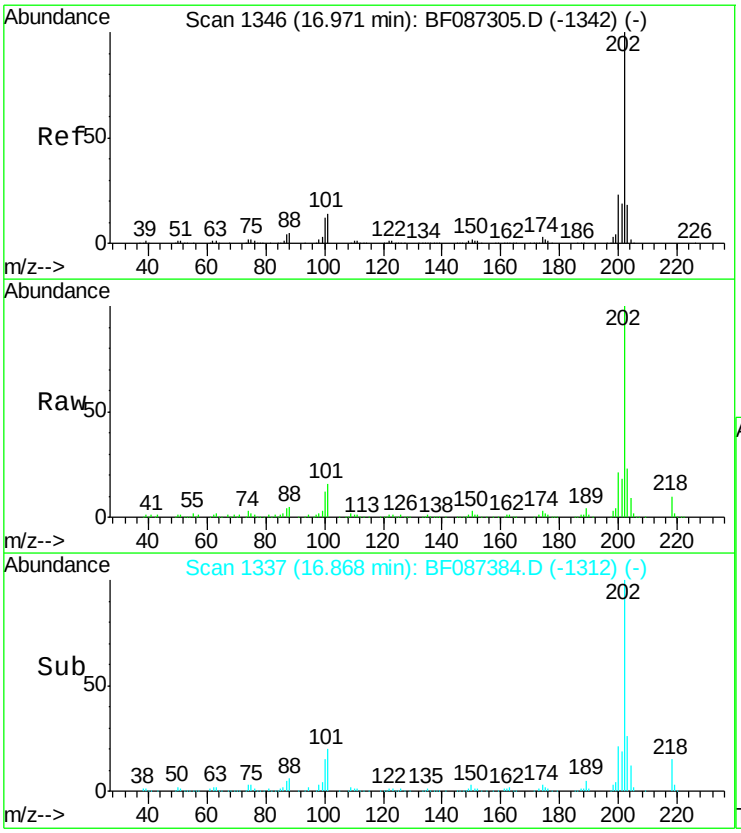
Tgt Ion:240 Resp: 225229

Ion	Ratio	Lower	Upper
240	100		
120	8.9	11.2	16.8#
236	25.5	21.2	31.8

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

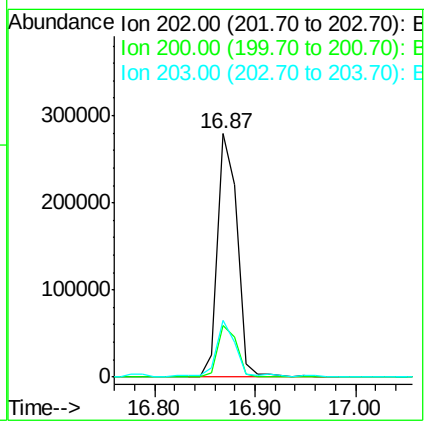


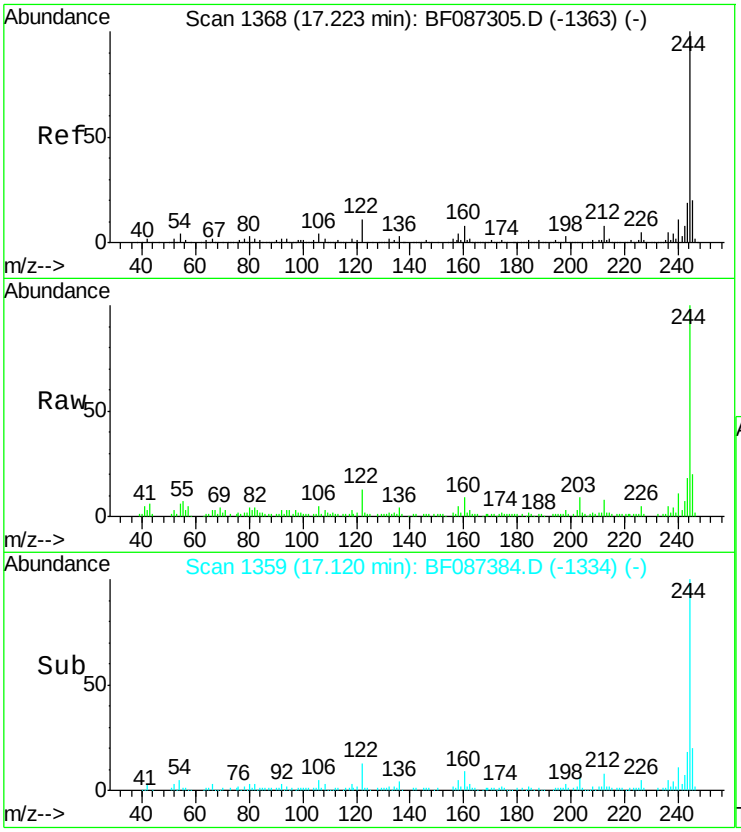


#77
Pyrene
Concen: 23.12 ng
RT: 16.87 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:202 Resp: 374833

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5
203	23.2	14.2	21.4#





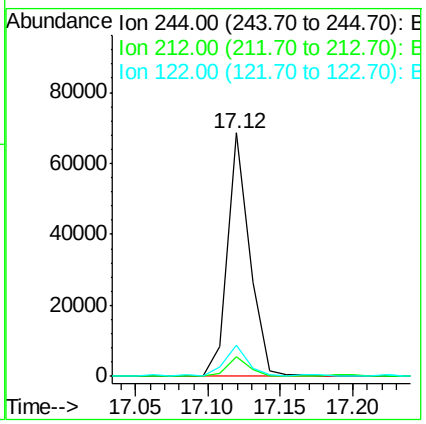
#78
Terphenyl-d14
Concen: 6.87 ng
RT: 17.12 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

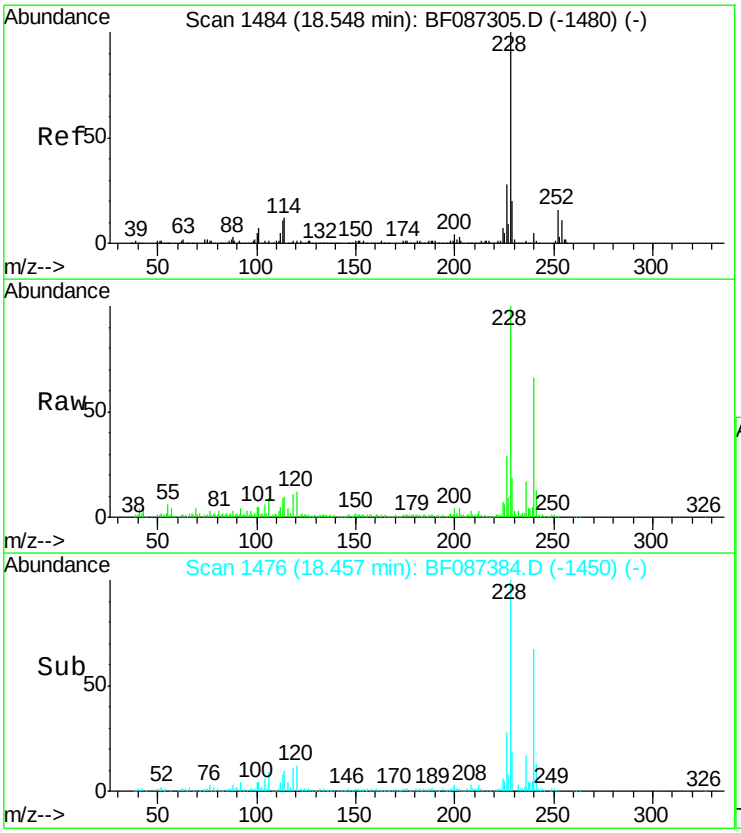
Tgt Ion:244 Resp: 72751

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.2
122	12.8	12.0	18.0

Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

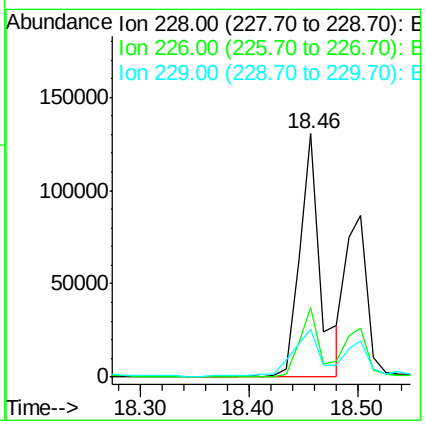


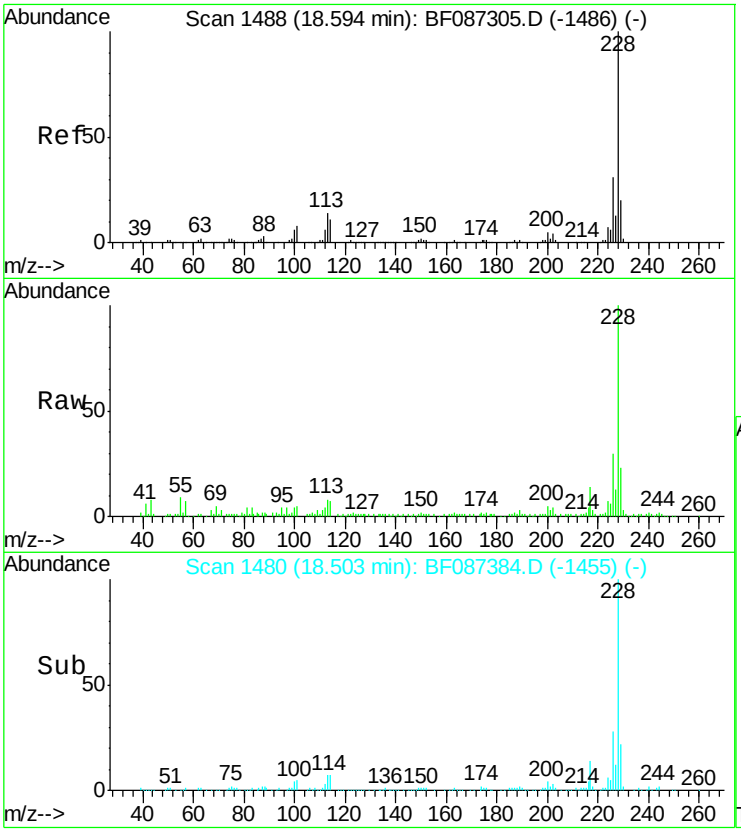


#80
Benzo(a)anthracene
Concen: 13.55 ng
RT: 18.46 min Scan# 1476
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:228 Resp: 173602

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	19.5	16.6	25.0

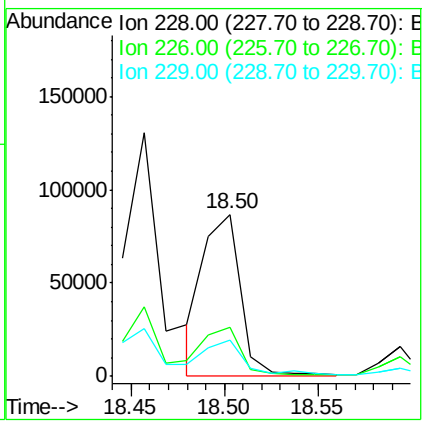




#82
Chrysene
Concen: 9.56 ng
RT: 18.50 min Scan# 1480
Delta R.T. -0.01 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

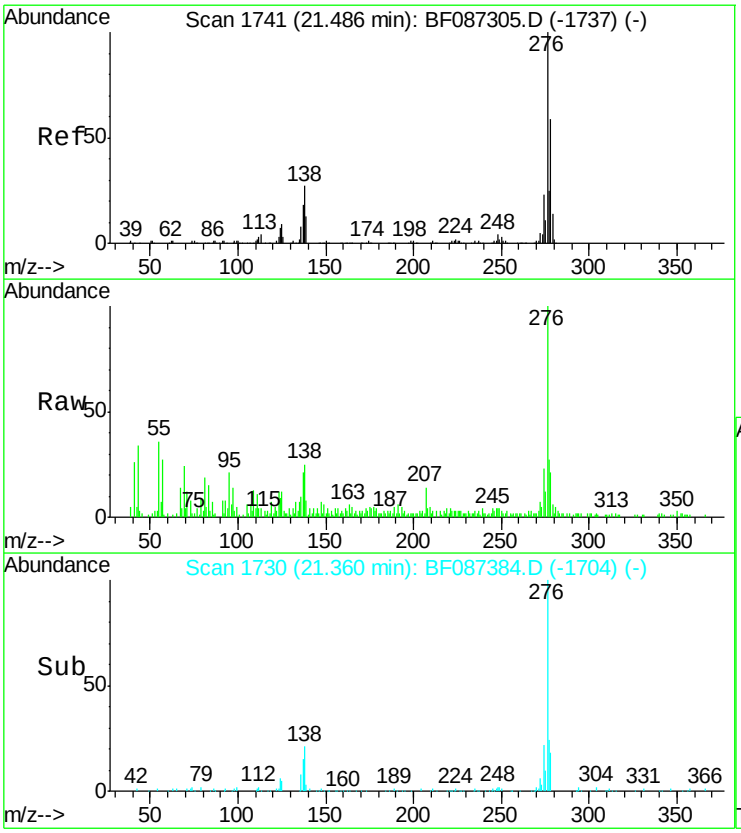
Tgt Ion:228 Resp: 121496

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6
229	22.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

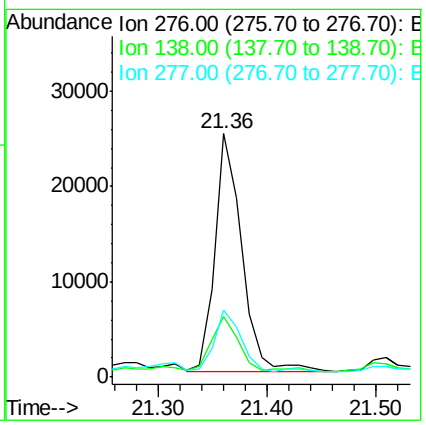
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

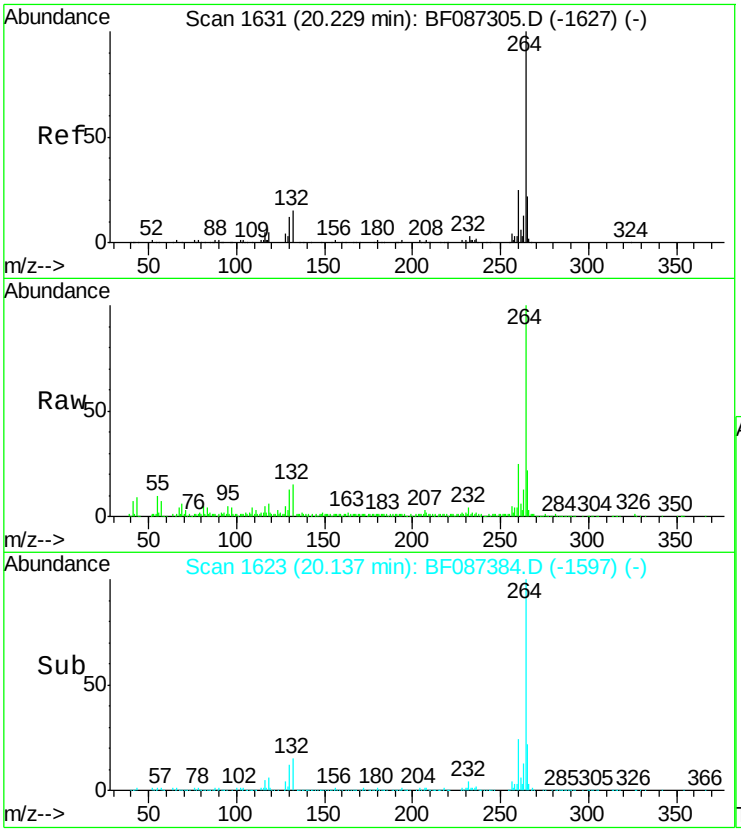


#85
Indeno(1,2,3-cd)pyrene
Concen: 4.21 ng
RT: 21.36 min Scan# 1730
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:276 Resp: 42959

Ion	Ratio	Lower	Upper
276	100		
138	23.3	25.6	38.4#
277	24.5	20.5	30.7

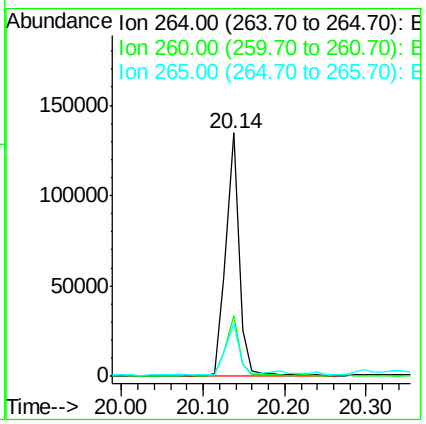




#86
Perylene-d12
Concen: 20.00 ng
RT: 20.14 min Scan# 1623
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

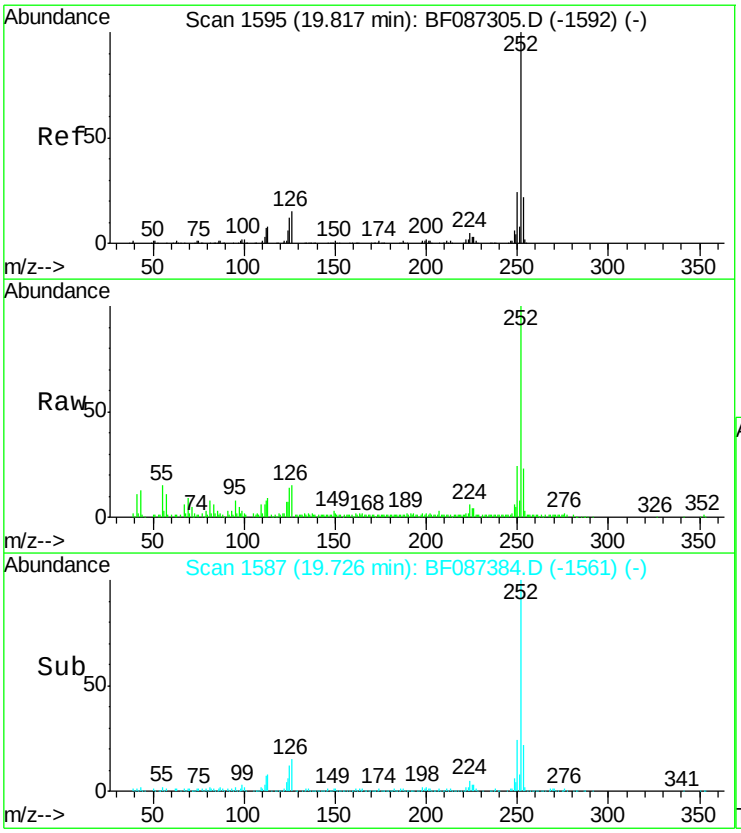
Tgt Ion:264 Resp: 152748

Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	21.9	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

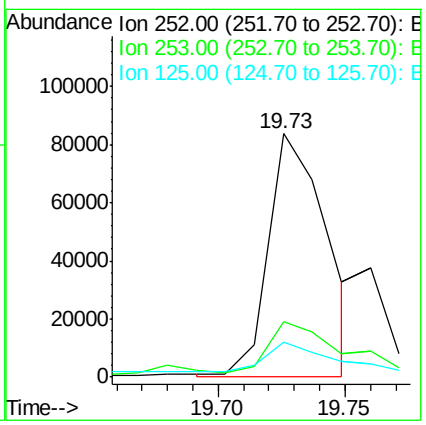
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

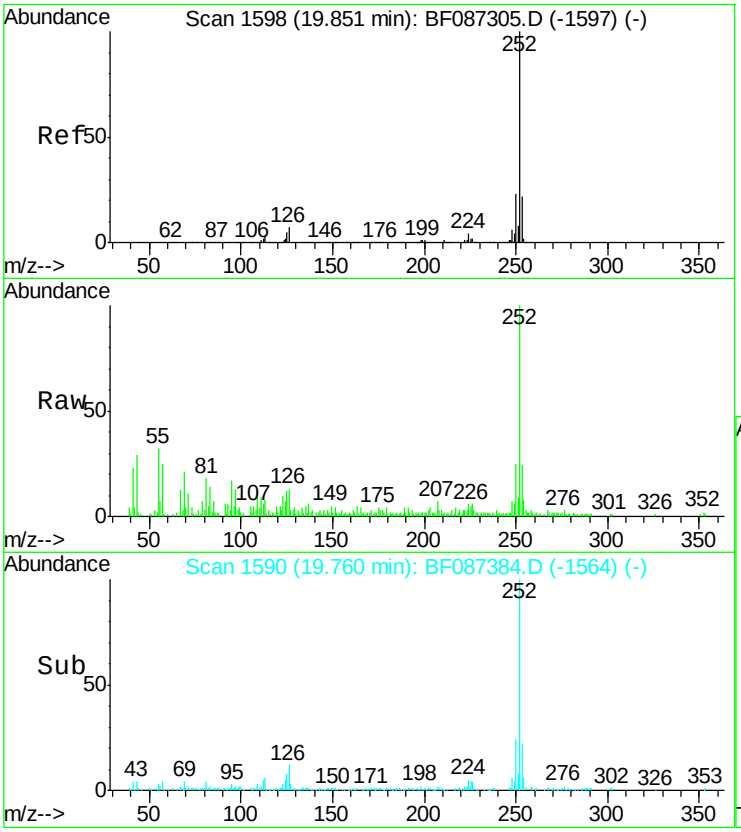


#87
Benzo(b)fluoranthene
Concen: 13.83 ng m
RT: 19.73 min Scan# 1587
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:252 Resp: 134612

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.6
125	14.2	11.4	17.0

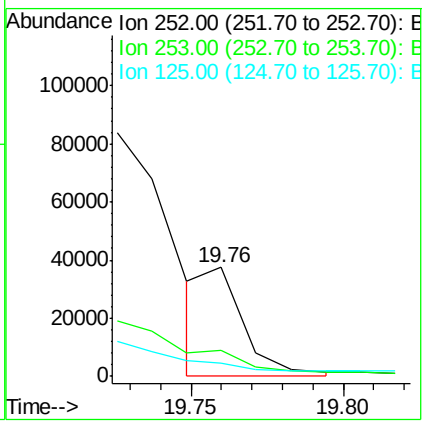




#88
Benzo(k)fluoranthene
Concen: 4.03 ng m
RT: 19.76 min Scan# 1590
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

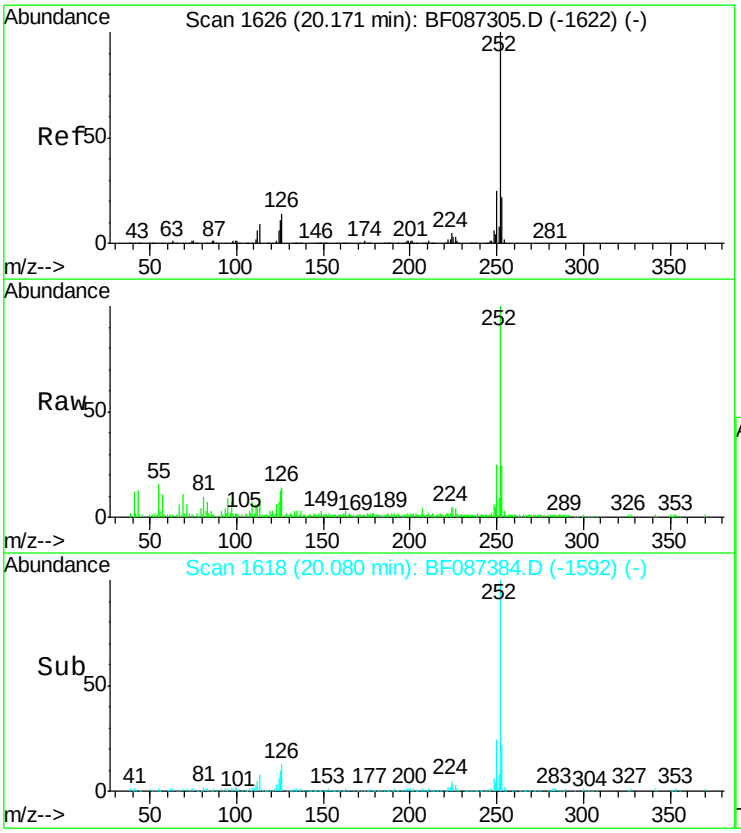
Tgt Ion:252 Resp: 33728

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	12.2	9.1	13.7



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

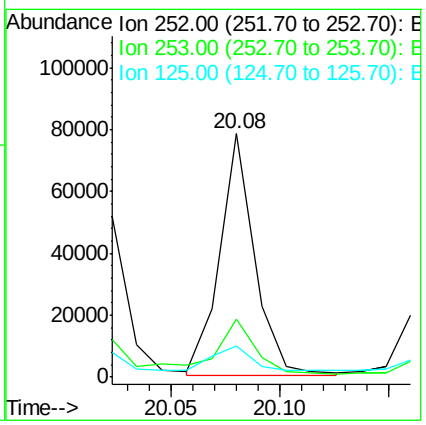
Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM

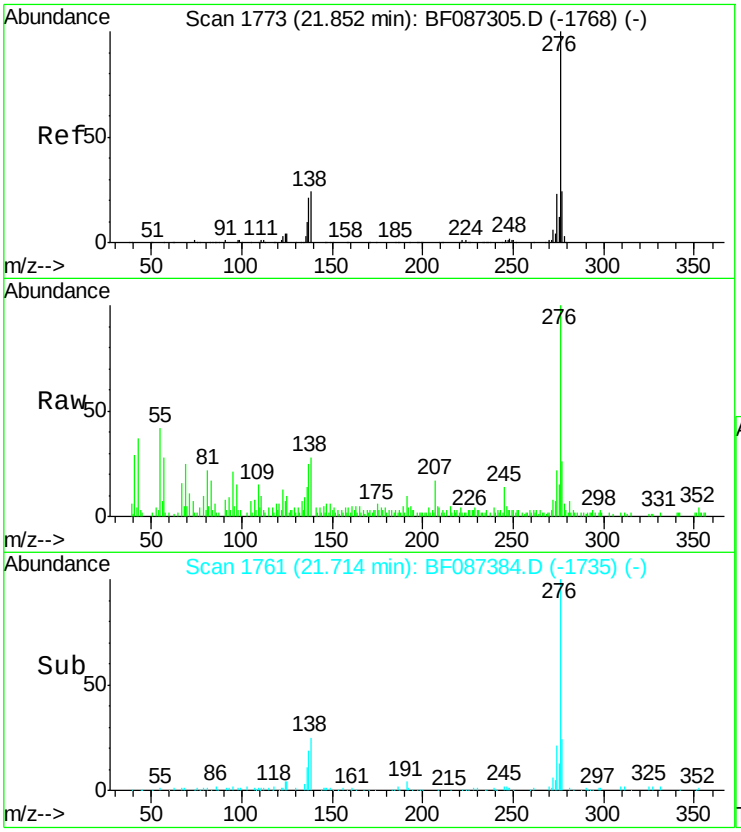


#89
Benzo(a)pyrene
Concen: 10.31 ng
RT: 20.08 min Scan# 1618
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:252 Resp: 86743

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.2	25.8
125	12.5	9.0	13.6

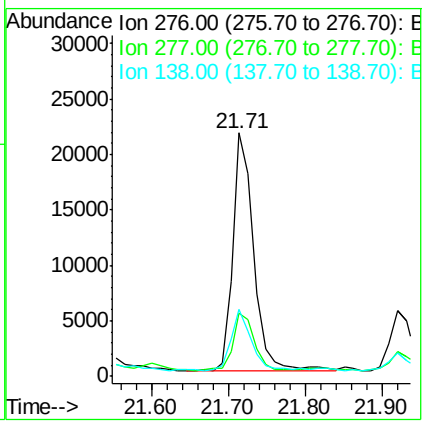




#91
Benzo(g,h,i)perylene
Concen: 5.84 ng
RT: 21.71 min Scan# 1761
Delta R.T. -0.00 min
Lab File: BF087384.D
Acq: 25 May 2016 21:54

Tgt Ion:276 Resp: 41333

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.6	29.4
138	27.6	23.6	35.4



Instrument :
BNA_F
ClientSampleId :
E-11(5.5-6)

Manual Integrations APPROVED
sohil
5/26/2016 6:38:00 PM