

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
 Data File : BF104869.D
 Acq On : 27 Apr 2018 8:17
 Operator : JU/SJ
 Sample : J2520-04 10X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-7 0.0-0.5

Manual Integrations
 APPROVED

Sohil
 4/27/2018 7:30:23 PM

Quant Time: Apr 27 14:00:52 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	96001	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	386743	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	152161	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	231335	20.00	ng	0.00
75) Chrysene-d12	13.98	240	204771	20.00	ng	0.00
86) Perylene-d12	15.44	264	152579	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	61075	9.73	ng	0.00
7) Phenol-d6	6.43	99	77076	9.99	ng	-0.01
23) Nitrobenzene-d5	7.36	82	40469	6.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	12385	7.85	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	77185	8.01	ng	0.00
78) Terphenyl-d14	12.91	244	53994	6.01	ng	-0.01
Target Compounds						Qvalue
51) Acenaphthene	9.87	154	34090	3.527	ng	95
54) Dibenzofuran	10.05	168	37315	2.770	ng	99
57) Fluorene	10.39	166	43381	4.425	ng	98
70) Phenanthrene	11.36	178	546125	42.391	ng	98
71) Anthracene	11.40	178	128717	9.829	ng	99
72) Carbazole	11.56	167	52003	4.064	ng	99
74) Fluoranthene	12.55	202	650422	48.322	ng	96
77) Pyrene	12.78	202	571557	37.656	ng	99
80) Benzo(a)anthracene	13.97	228	308551	25.222	ng	100
82) Chrysene	14.00	228	254829	20.280	ng	97
85) Indeno(1,2,3-cd)pyrene	16.90	276	80892	7.578	ng	# 93
87) Benzo(b)fluoranthene	15.02	252	261611m	27.148	ng	
88) Benzo(k)fluoranthene	15.04	252	78796m	8.661	ng	
89) Benzo(a)pyrene	15.39	252	160200	18.580	ng	98
90) Dibenzo(a,h)anthracene	16.91	278	22957m	3.242	ng	
91) Benzo(g,h,i)perylene	17.35	276	77015	11.225	ng	93

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

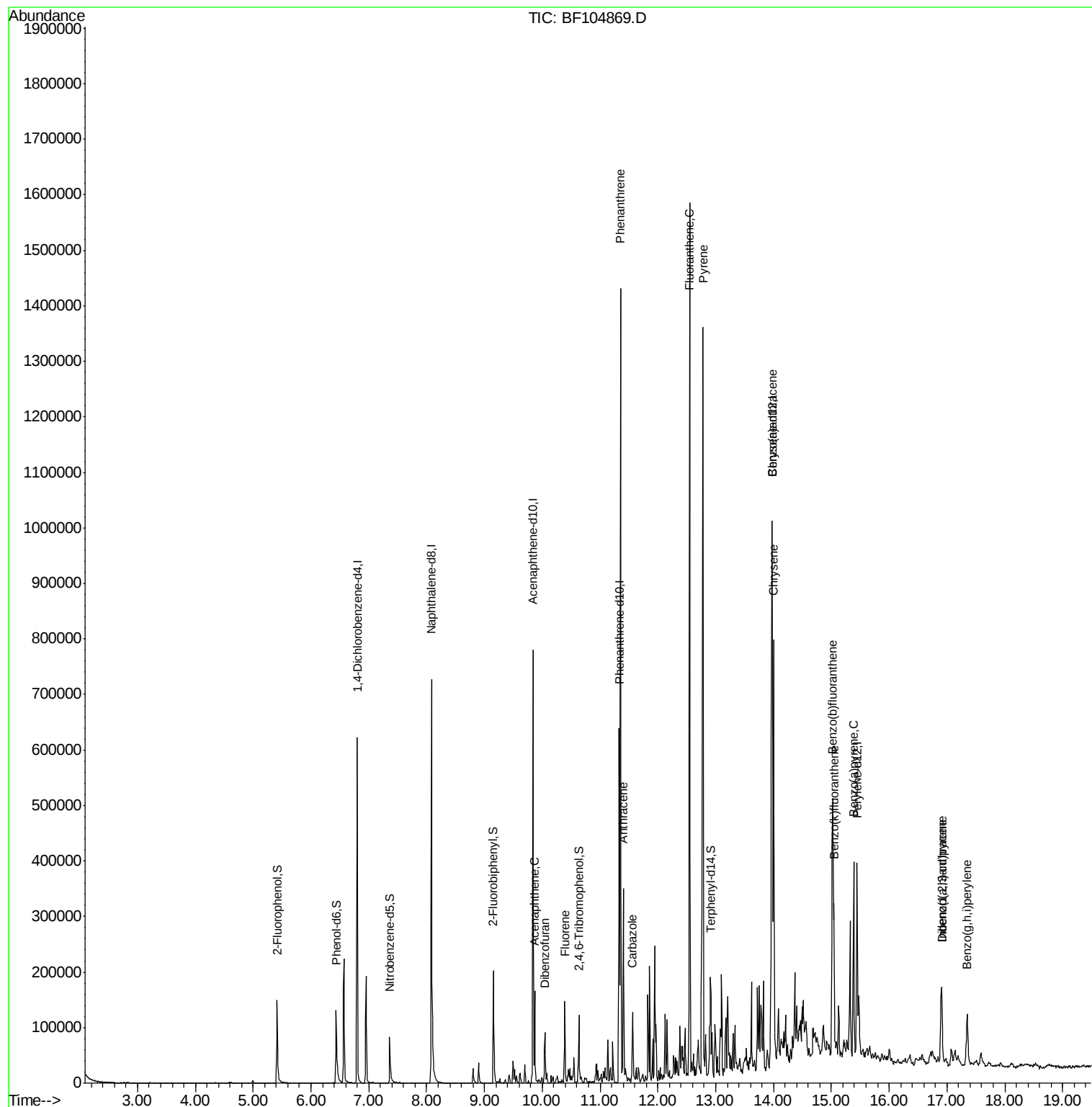
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
Data File : BF104869.D
Acq On : 27 Apr 2018 8:17
Operator : JU/SJ
Sample : J2520-04 10X
Misc :
ALS Vial : 38 Sample Multiplier: 1

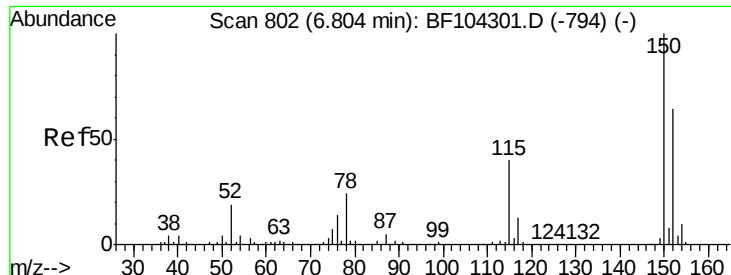
Instrument :
BNA_F
ClientSampleId :
TP-7 0.0-0.5

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM

Quant Time: Apr 27 14:00:52 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 25 14:01:50 2018
Response via : Initial Calibration





#1

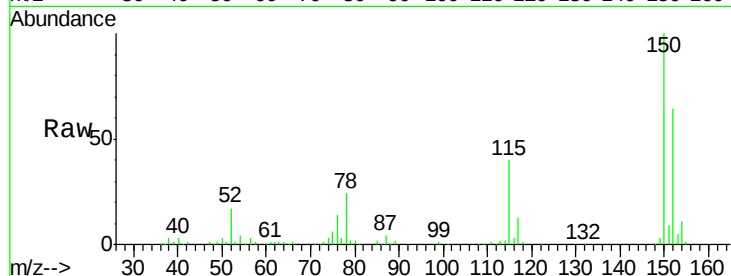
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :
TP-7 0.0-0.5

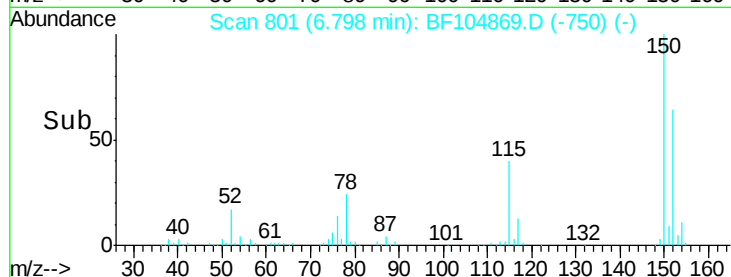
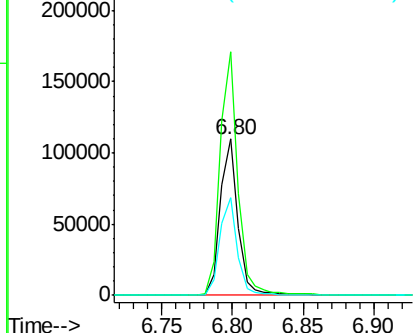
Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	62.7	50.1	75.1

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



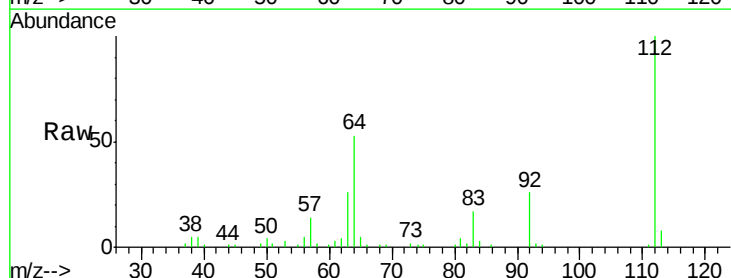
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



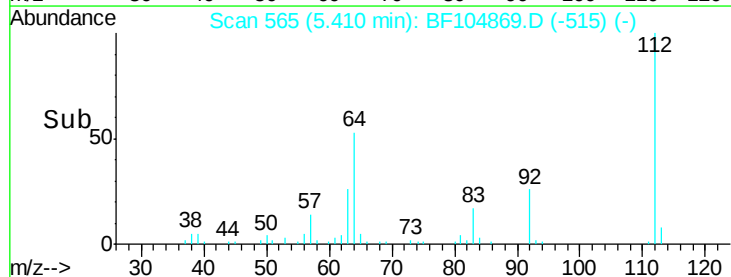
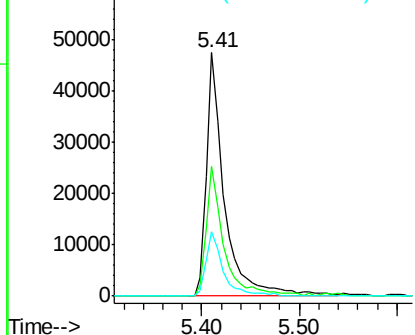
#5

2-Fluorophenol
Concen: 9.728 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	47.9	71.9
63	26.3	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 9.991 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

ClientSampleId :

TP-7 0.0-0.5

Tot Ion: 99 Resp: 77076

Ion Ratio Lower Upper

99 100

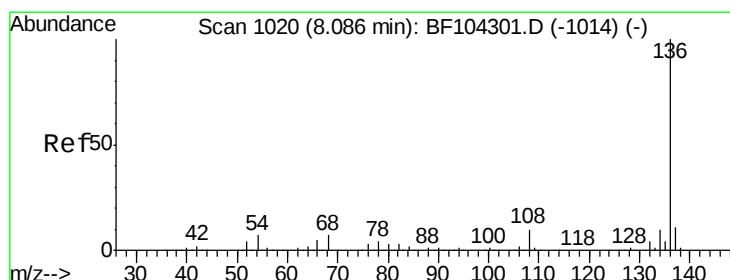
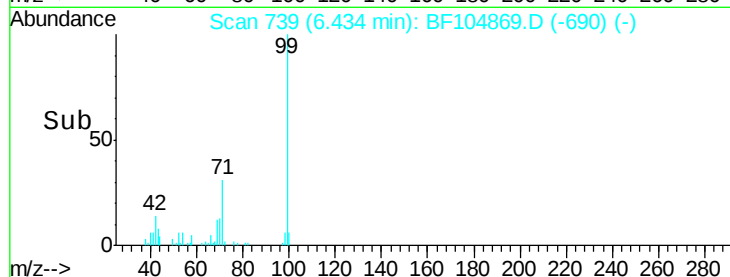
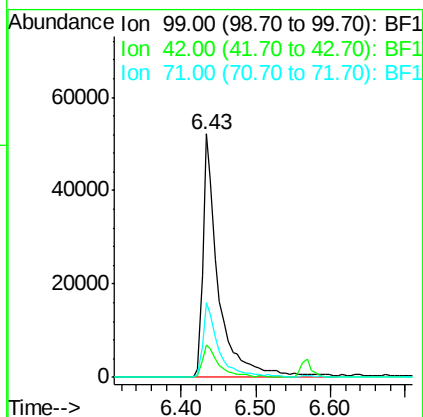
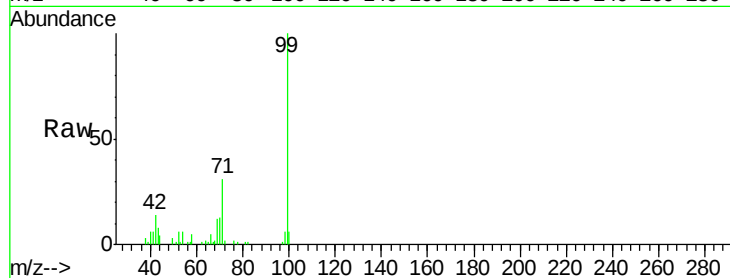
42 13.5 14.5 21.7#

71 30.6 25.4 38.0

Manual Integrations
APPROVED

Sohil

4/27/2018 7:30:23 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.08 min Scan# 1019

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion: 136 Resp: 386743

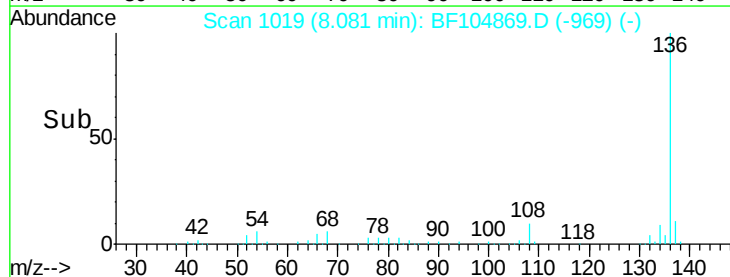
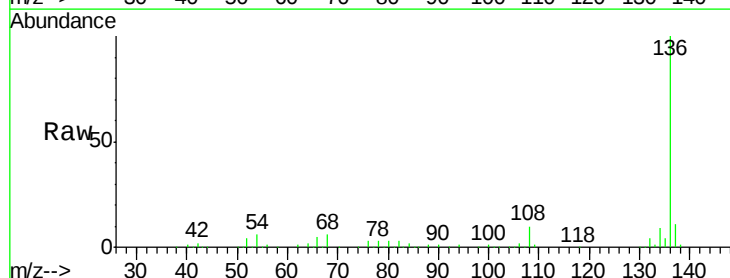
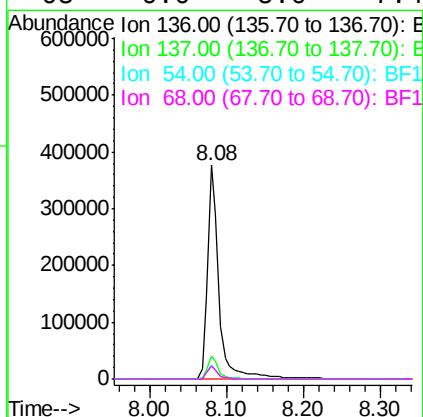
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 6.5 6.6 9.8#

68 6.0 5.0 7.4





#23

Nitrobenzene-d5

Concen: 6.833 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

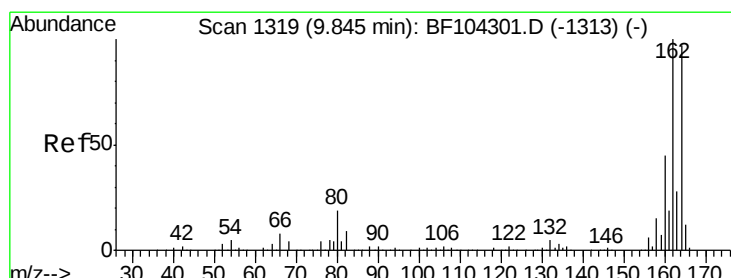
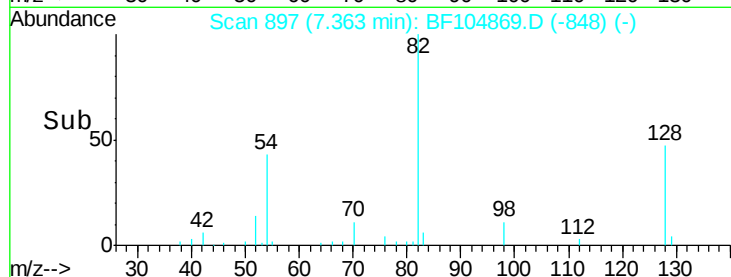
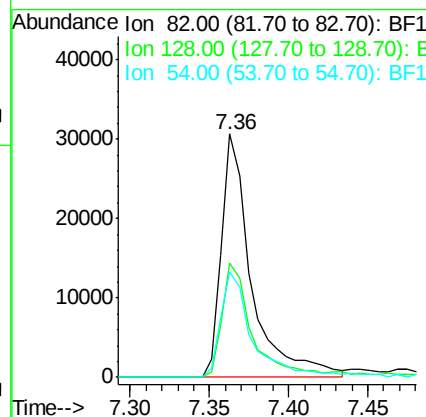
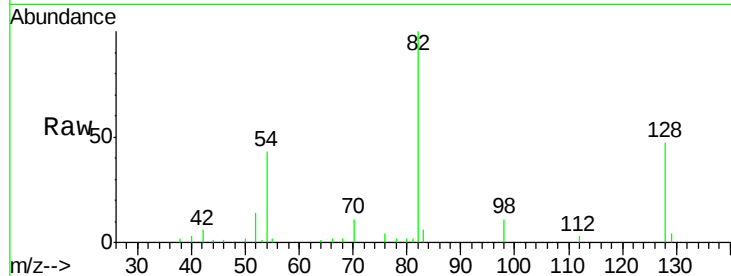
ClientSampleId :

TP-7 0.0-0.5

Tot Ion:	82	Resp:	40469
Ion Ratio	Lower	Upper	
82	100		
128	47.0	36.1	54.1
54	43.1	41.4	62.2

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#38

Acenaphthene-d10

Concen: 20.000 ng

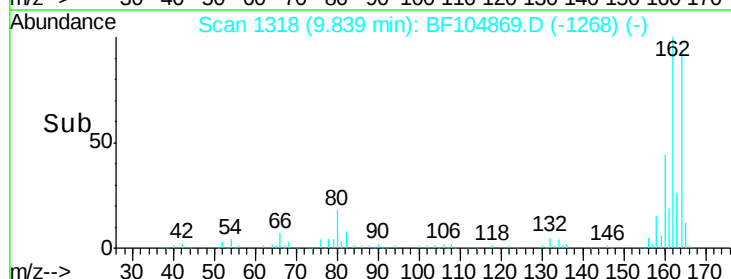
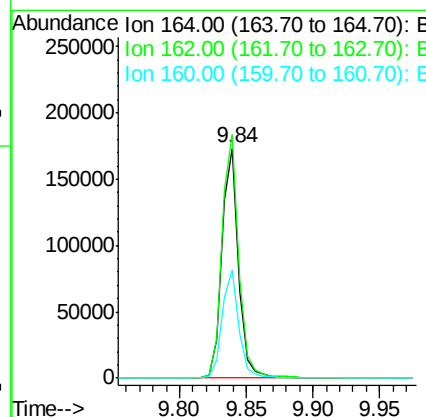
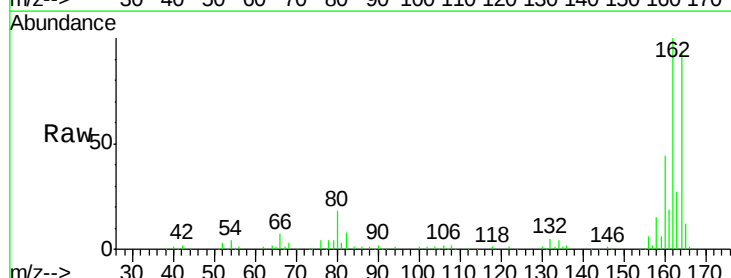
RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:	164	Resp:	152161
Ion Ratio	Lower	Upper	
164	100		
162	106.0	86.1	129.1
160	46.8	38.3	57.5





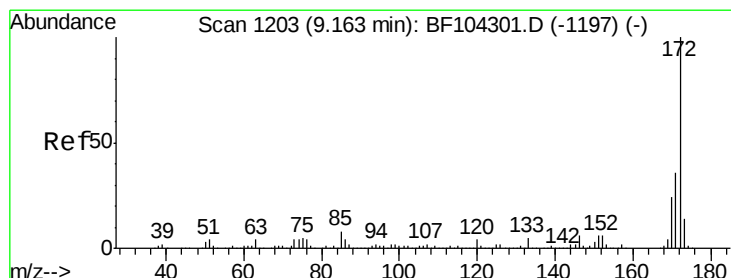
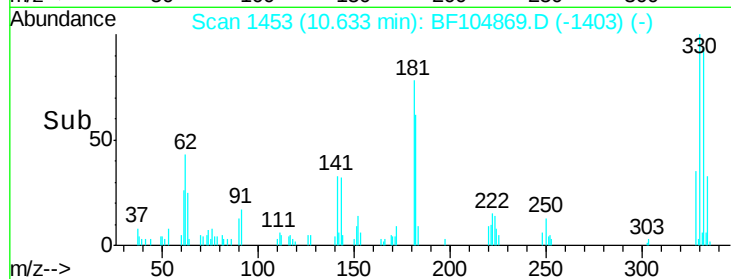
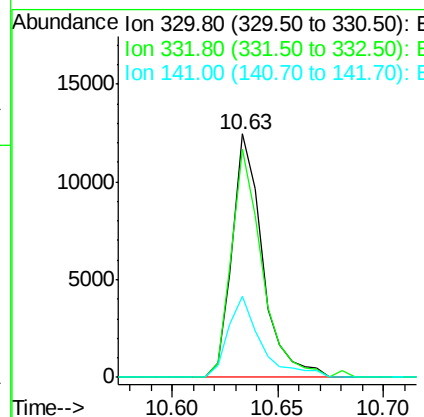
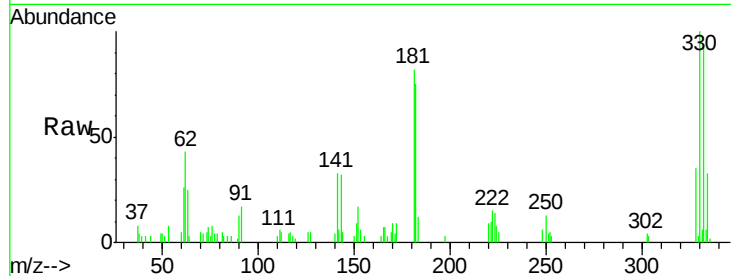
#41
 2,4,6-Tribromophenol
 Concen: 7.847 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Instrument :
 BNA_F
 ClientSampleId :
 TP-7 0.0-0.5

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	95.4	77.0	115.6	
141	35.9	29.9	44.9	

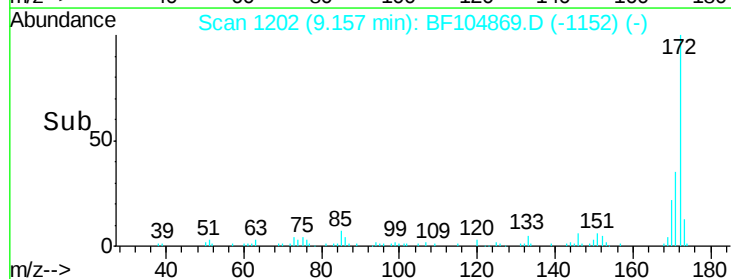
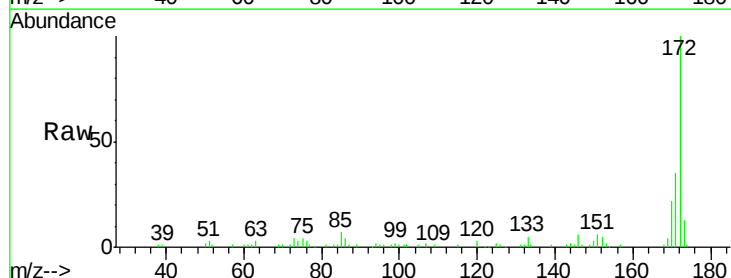
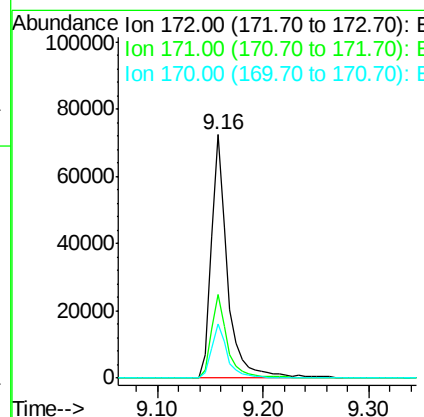
Manual Integrations
 APPROVED

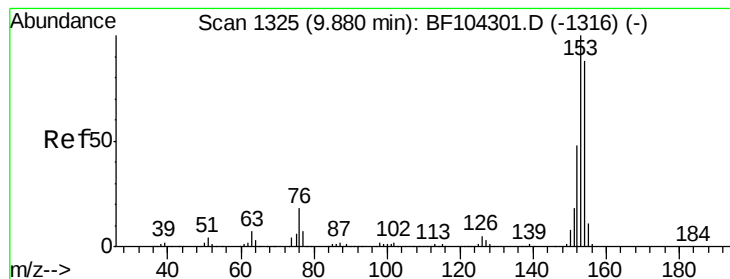
Sohil
 4/27/2018 7:30:23 PM



#44
 2-Fluorobiphenyl
 Concen: 8.013 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.5	29.7	44.5	
170	22.5	19.6	29.4	





#51

Acenaphthene

Concen: 3.527 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

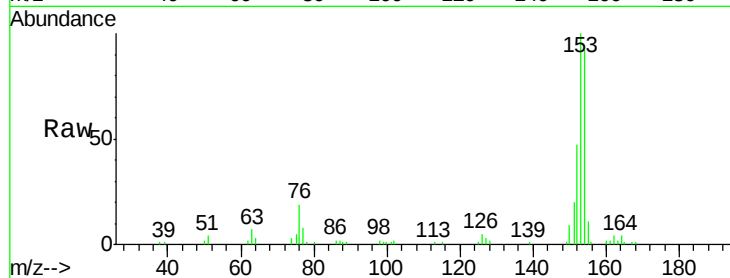
ClientSampleId :

TP-7 0.0-0.5

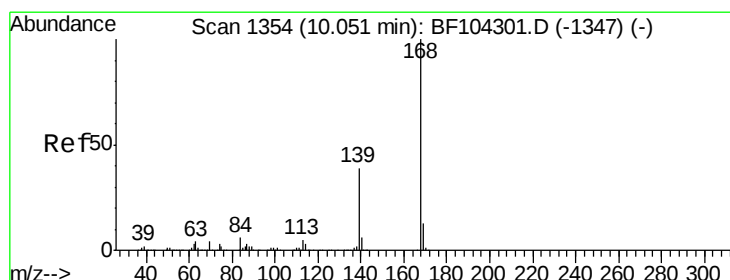
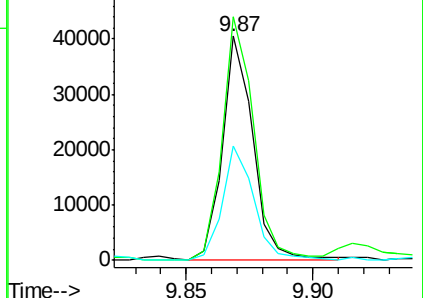
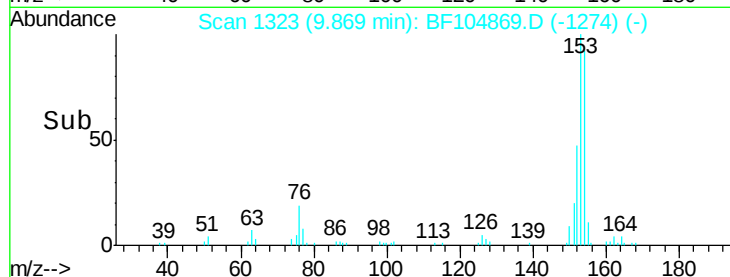
Tot Ion:	154	Resp:	34090
Ion Ratio	Lower	Upper	
154	100		
153	108.7	91.2	136.8
152	51.0	43.8	65.8

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.770 ng

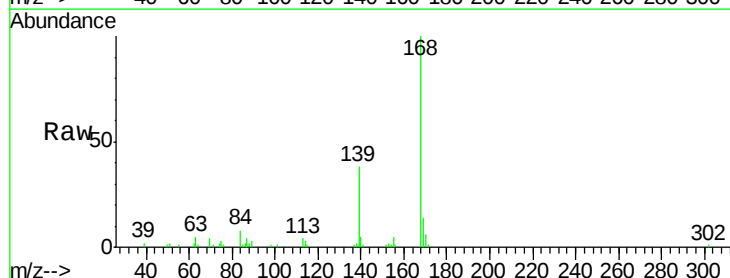
RT: 10.05 min Scan# 1353

Delta R.T. -0.01 min

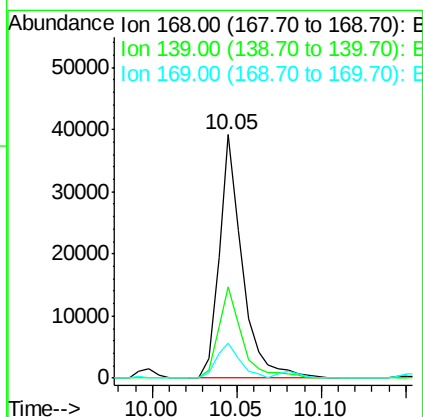
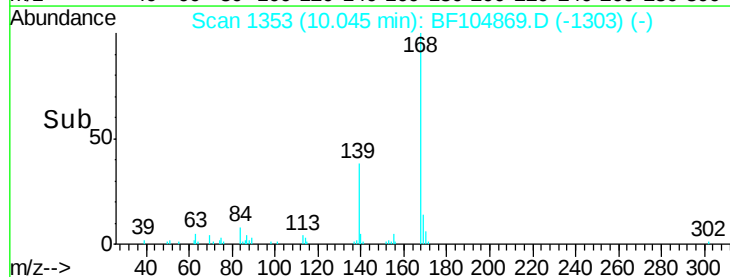
Lab File: BF104869.D

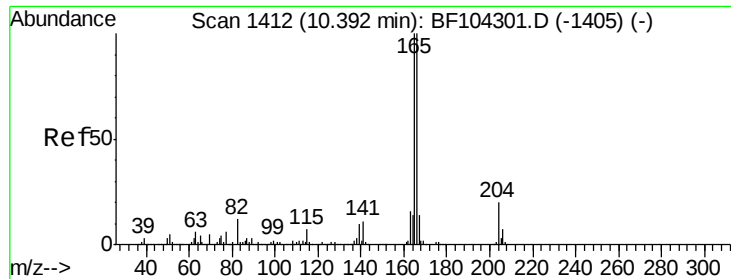
Acq: 27 Apr 2018 8:17

Tgt Ion:	168	Resp:	37315
Ion Ratio	Lower	Upper	
168	100		
139	37.6	30.1	45.1
169	14.4	10.9	16.3



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





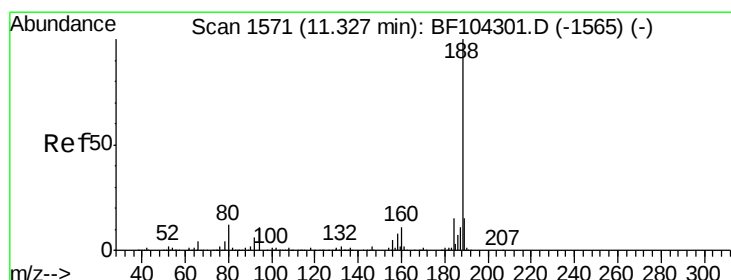
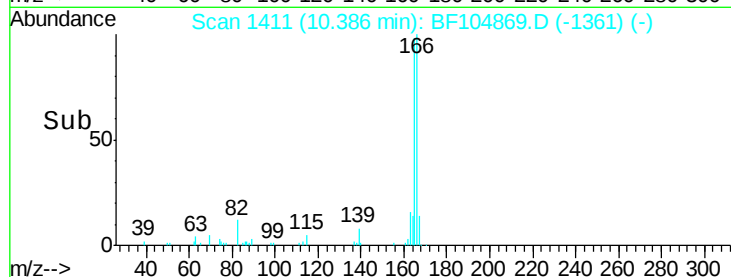
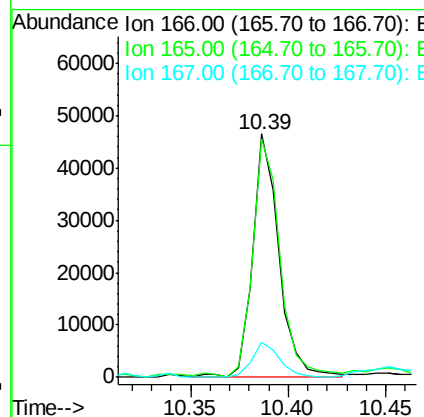
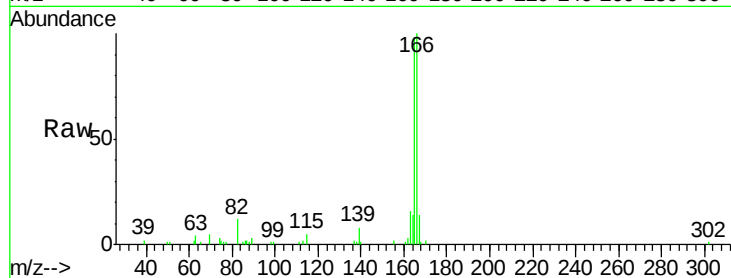
#57
Fluorene
 Concen: 4.425 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Instrument :
 BNA_F
 ClientSampleId :
 TP-7 0.0-0.5

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.8	119.8
167	14.3	10.6	16.0

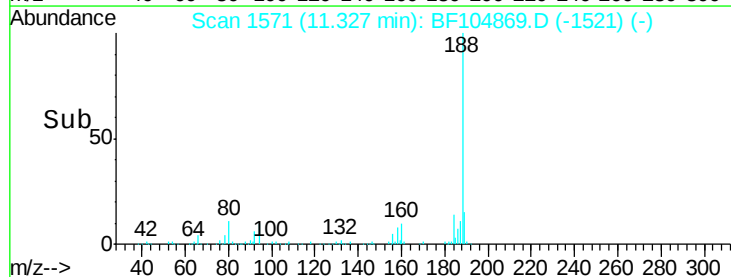
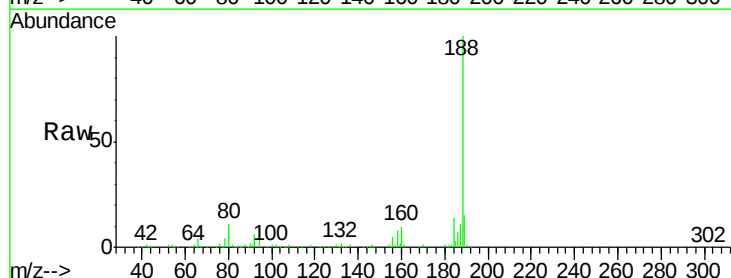
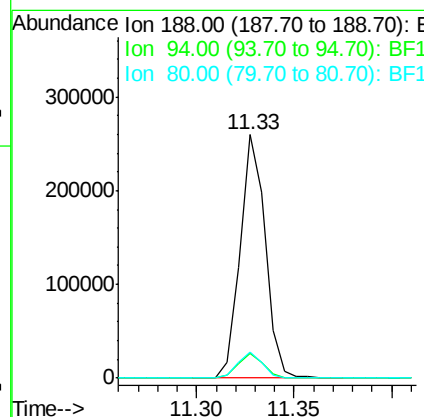
Manual Integrations
 APPROVED

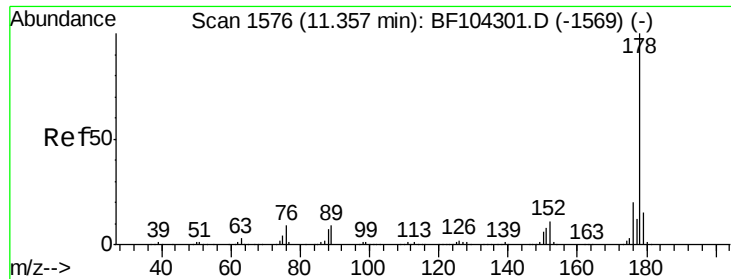
Sohil
 4/27/2018 7:30:23 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF104869.D
 Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.5	12.7
80	10.8	9.2	13.8





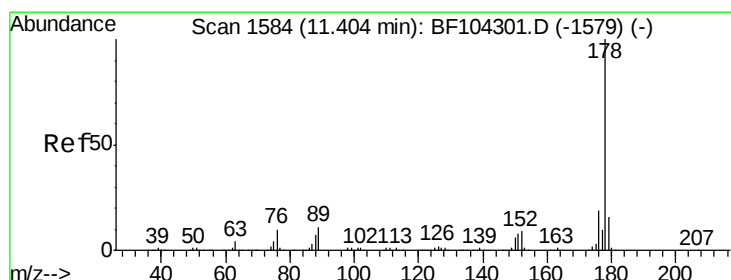
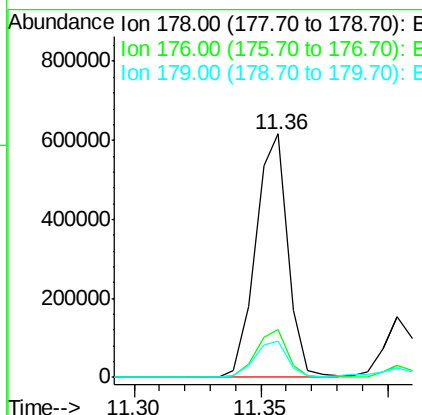
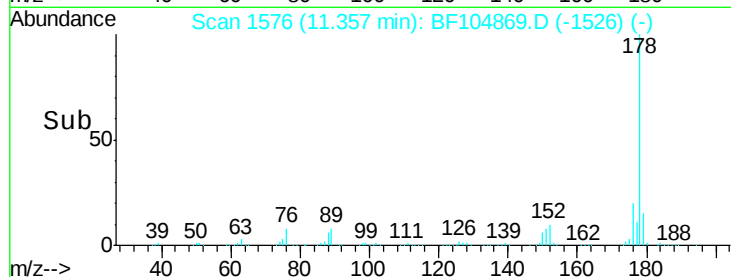
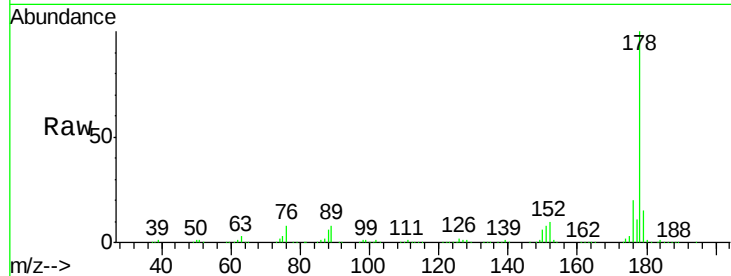
#70
Phenanthrene
Concen: 42.391 ng
RT: 11.36 min Scan# 1576
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :
TP-7 0.0-0.5

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.0	13.0	19.6

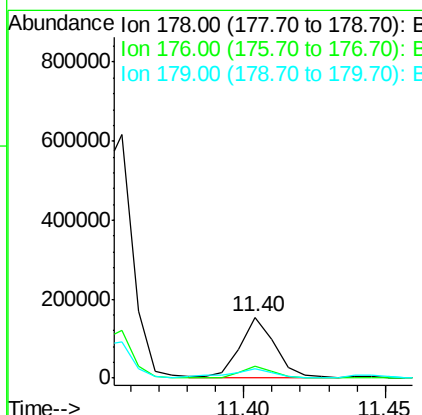
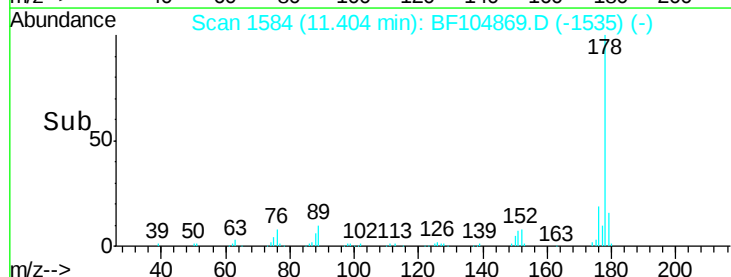
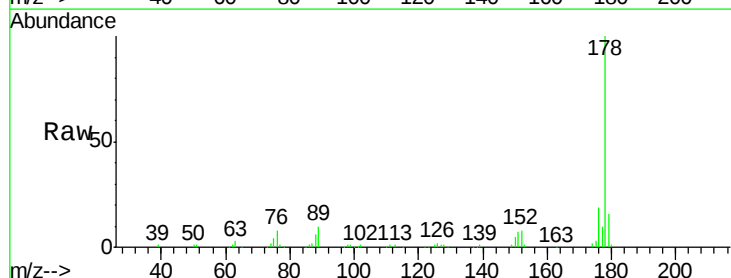
Manual Integrations
APPROVED

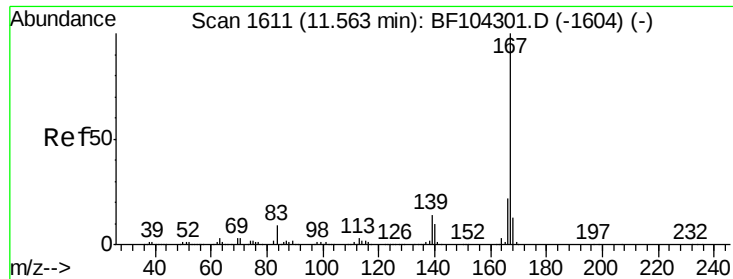
Sohil
4/27/2018 7:30:23 PM



#71
Anthracene
Concen: 9.829 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.2
179	15.7	12.6	19.0





#72

Carbazole

Concen: 4.064 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

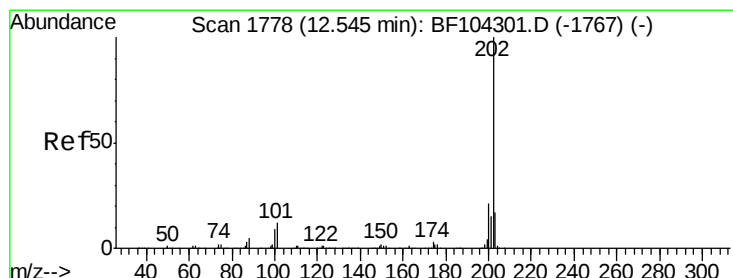
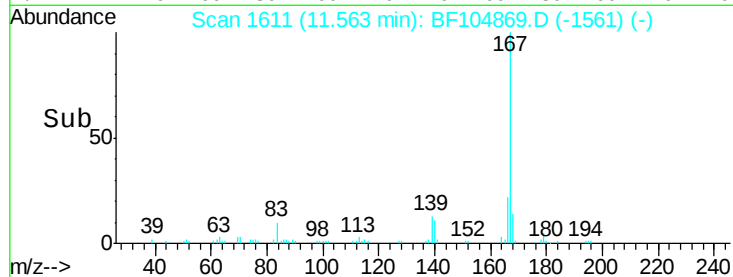
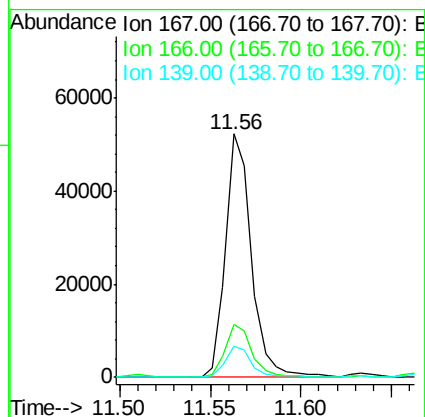
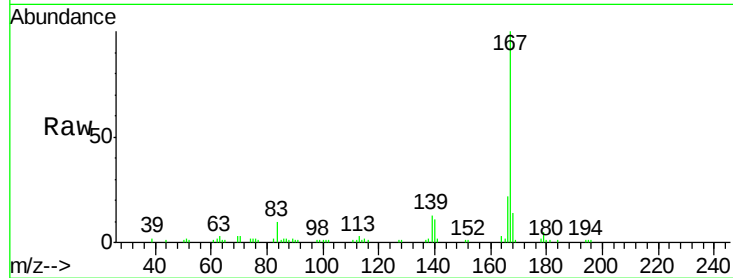
ClientSampleId :

TP-7 0.0-0.5

Tot Ion:	167	Resp:	52003
Ion Ratio	Lower	Upper	
167	100		
166	21.7	17.6	26.4
139	12.9	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#74

Fluoranthene

Concen: 48.322 ng

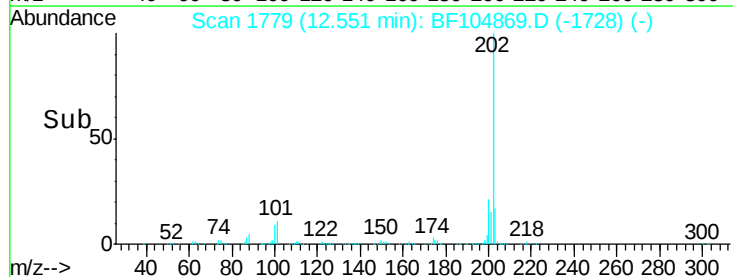
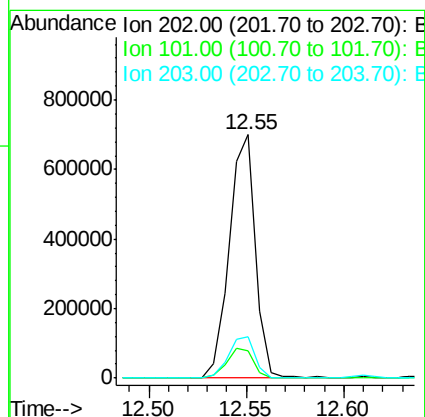
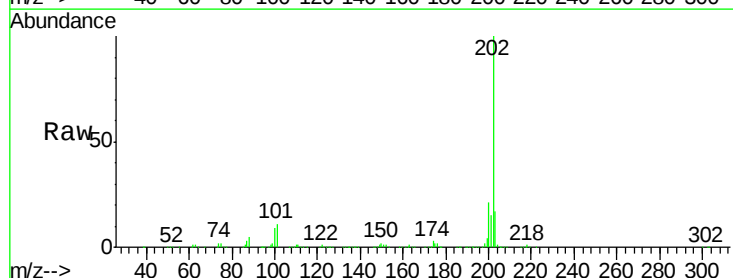
RT: 12.55 min Scan# 1779

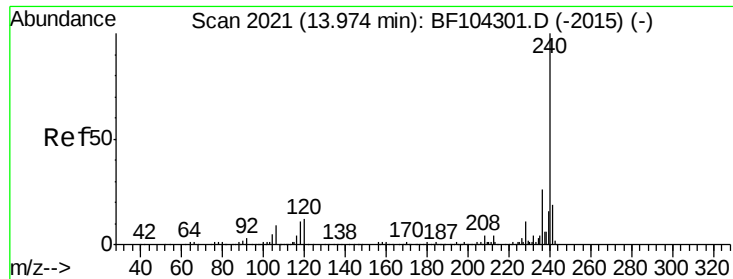
Delta R.T. -0.00 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:	202	Resp:	650422
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	34.1
203	17.1	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

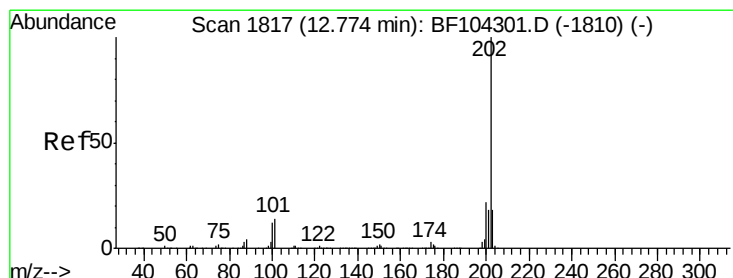
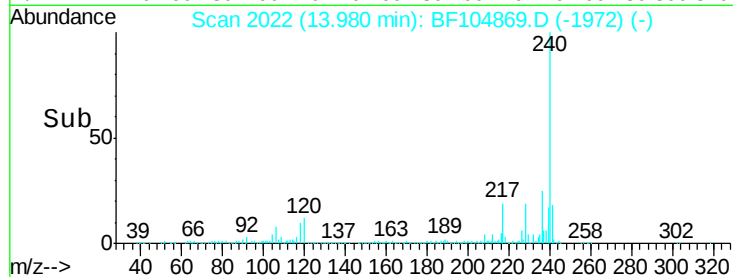
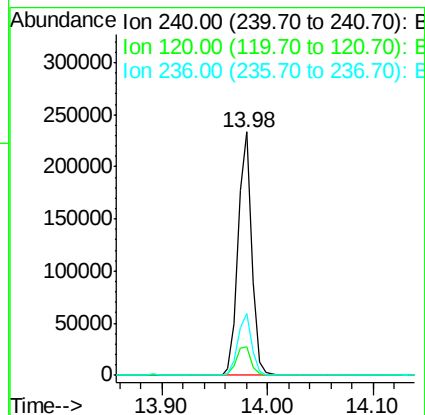
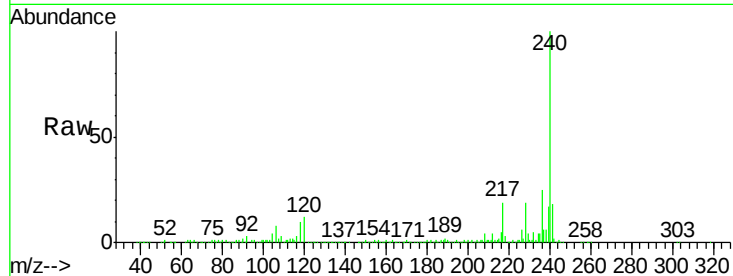
ClientSampleId :

TP-7 0.0-0.5

Tot Ion:	240	Resp:	204771
Ion Ratio	Lower	Upper	
240	100		
120	11.5	9.5	14.3
236	25.4	20.7	31.1

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#77

Pyrene

Concen: 37.656 ng

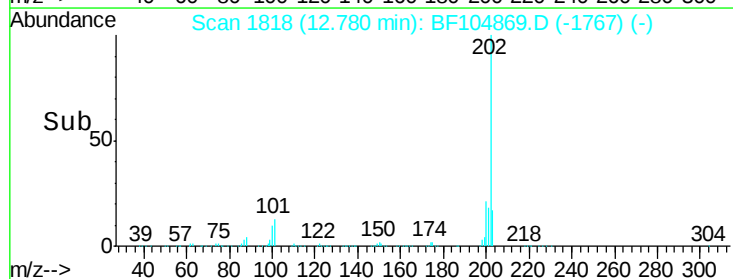
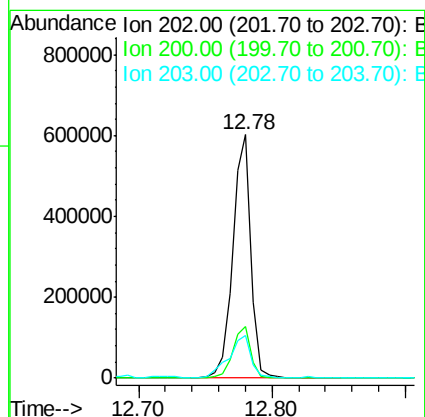
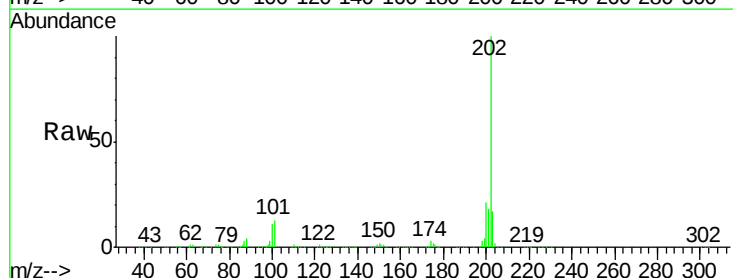
RT: 12.78 min Scan# 1818

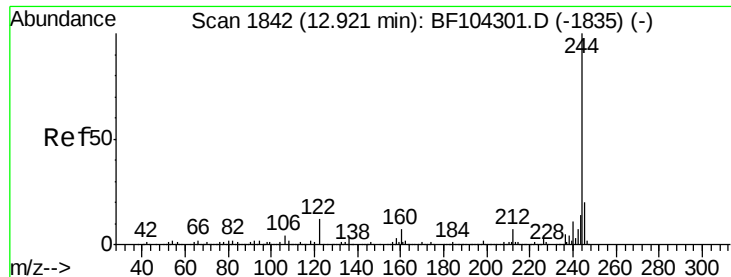
Delta R.T. -0.00 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:	202	Resp:	571557
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 6.011 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

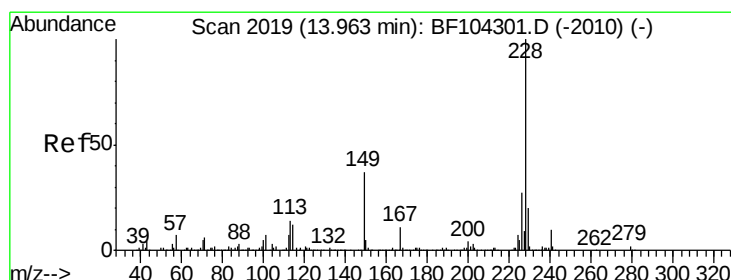
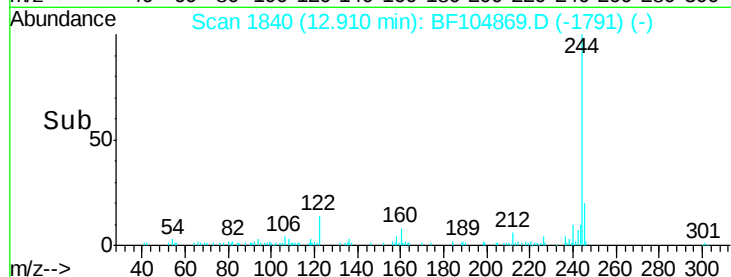
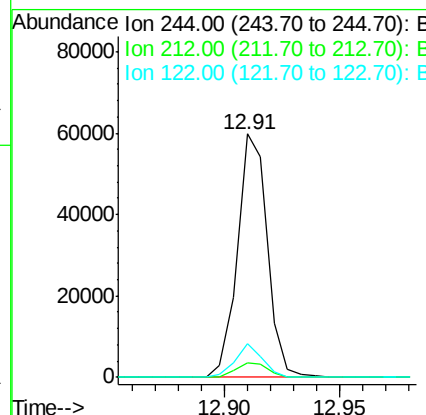
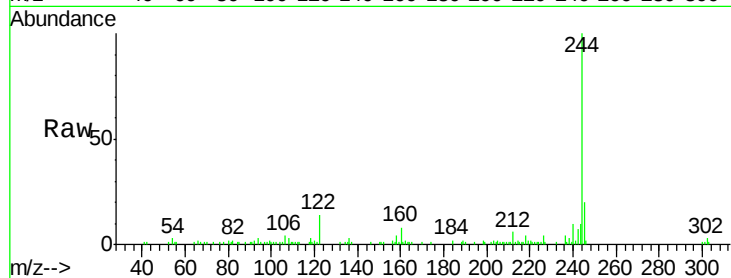
ClientSampled :

TP-7 0.0-0.5

Tot Ion:	244	Resp:	53994
Ion Ratio	Lower	Upper	
244	100		
212	6.2	5.4	8.0
122	14.0	11.0	16.4

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#80

Benzo(a)anthracene

Concen: 25.222 ng

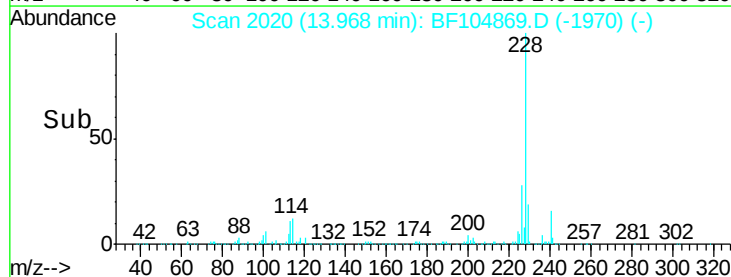
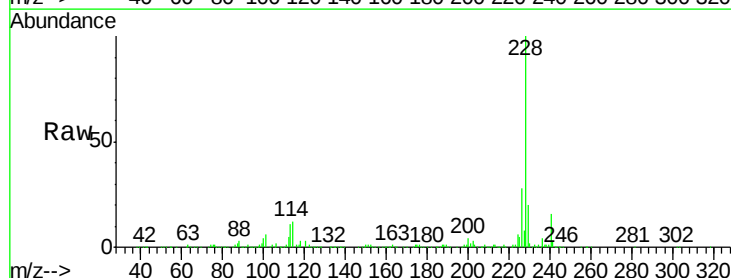
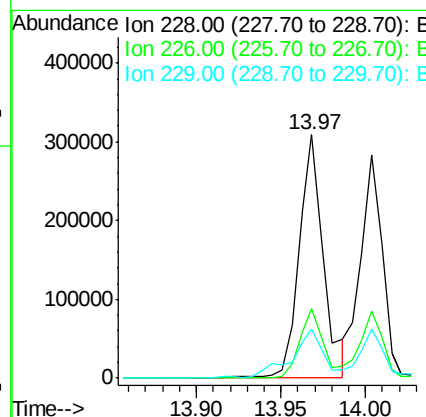
RT: 13.97 min Scan# 2020

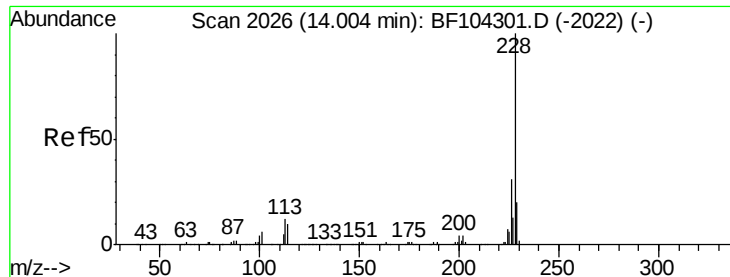
Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:	228	Resp:	308551
Ion Ratio	Lower	Upper	
228	100		
226	28.4	22.6	33.8
229	20.0	15.8	23.6





#82

Chrysene

Concen: 20.280 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Instrument :

BNA_F

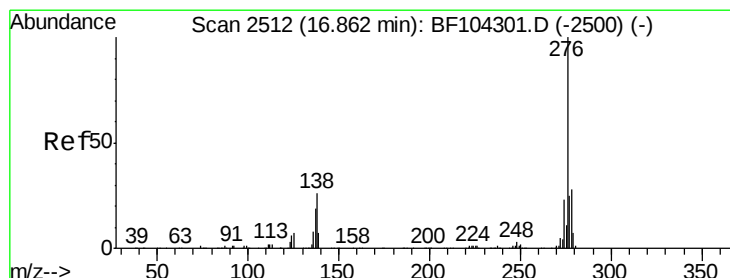
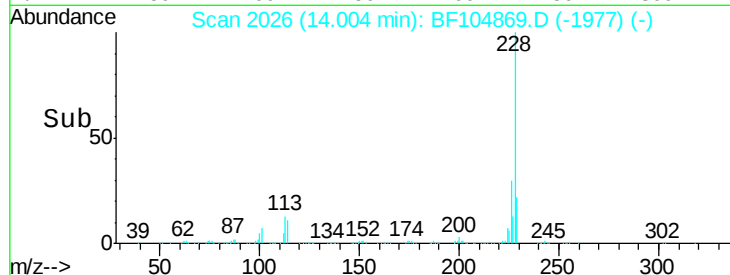
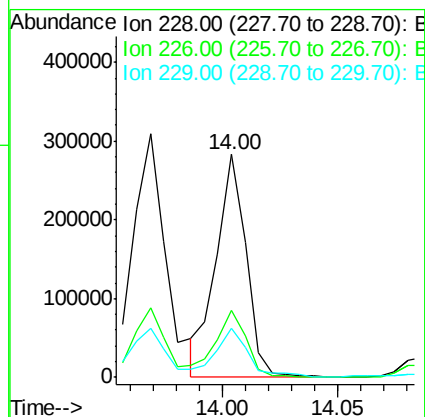
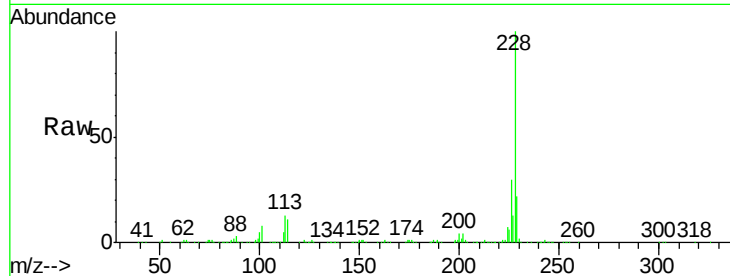
ClientSampleId :

TP-7 0.0-0.5

Tot Ion:228	Resp:	254829
Ion Ratio	Lower	Upper
228 100		
226 30.0	25.0	37.6
229 22.3	16.2	24.4

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.578 ng

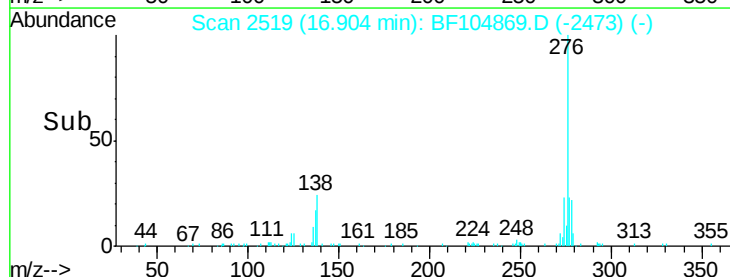
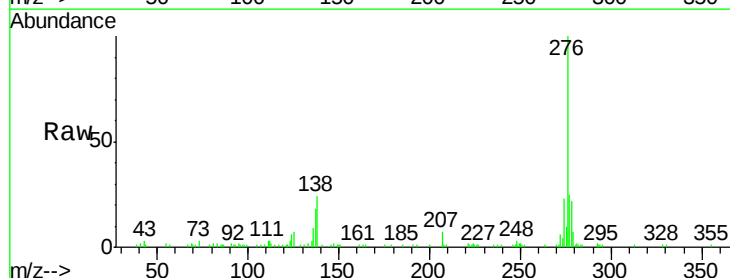
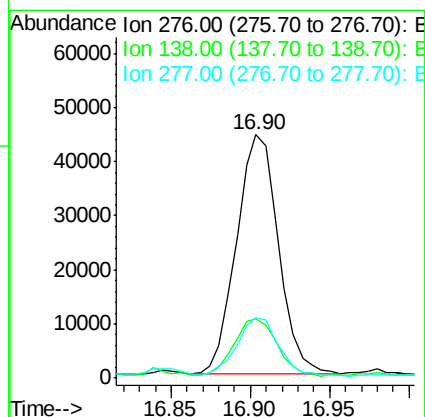
RT: 16.90 min Scan# 2519

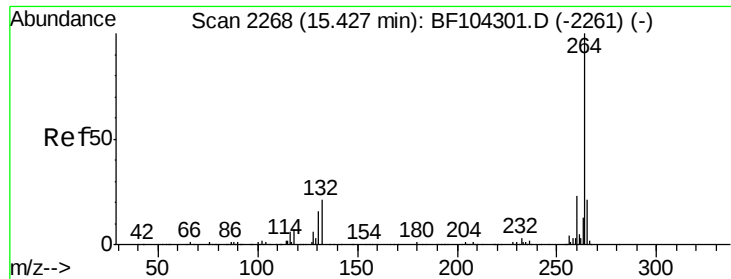
Delta R.T. -0.03 min

Lab File: BF104869.D

Acq: 27 Apr 2018 8:17

Tgt Ion:276	Resp:	80892
Ion Ratio	Lower	Upper
276 100		
138 24.6	25.0	37.6#
277 24.8	20.1	30.1





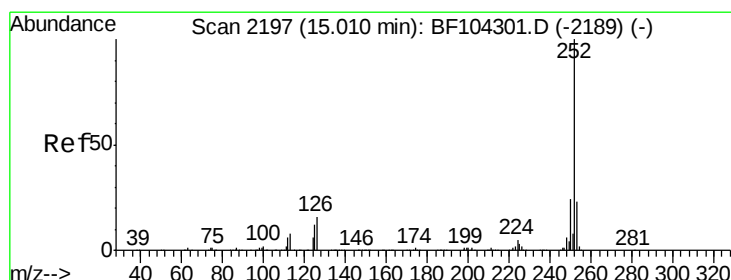
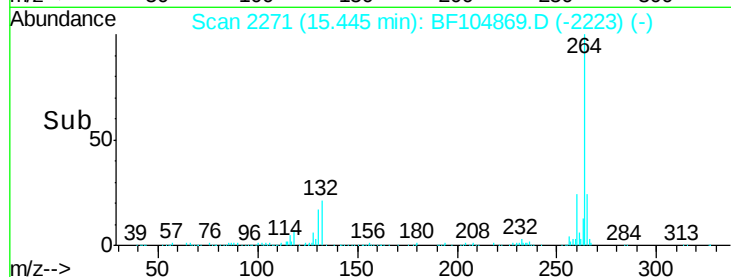
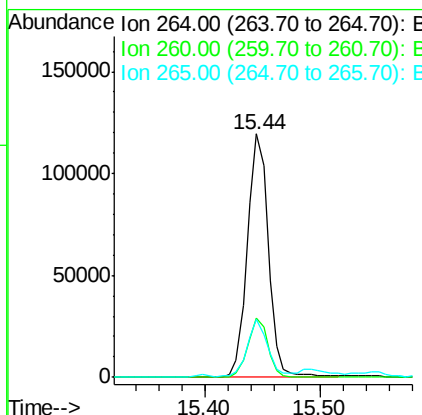
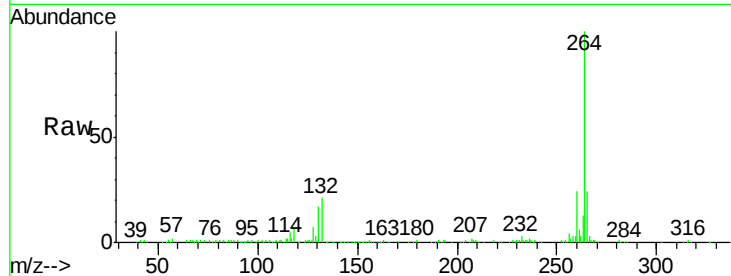
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :
TP-7 0.0-0.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	23.8	17.5	26.3

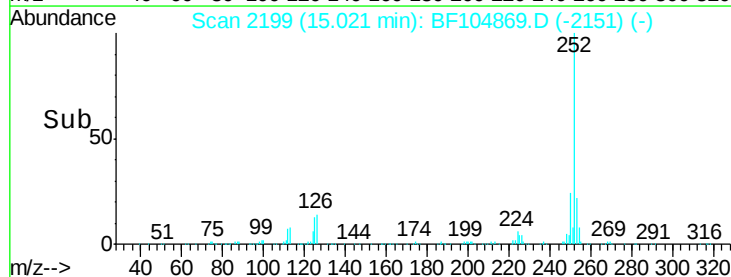
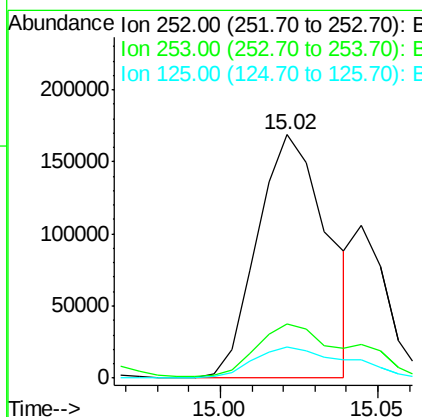
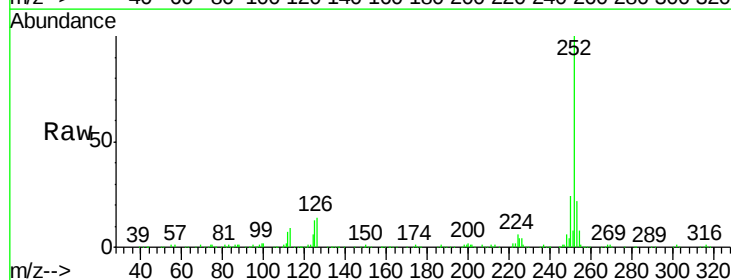
Manual Integrations
APPROVED

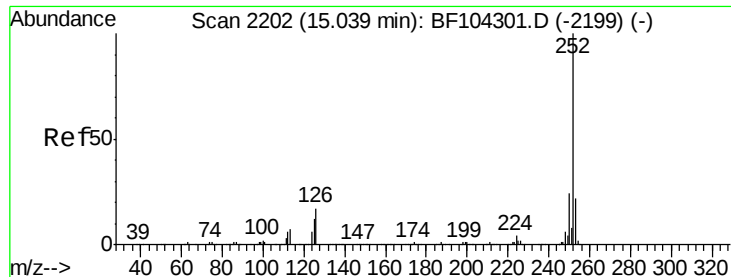
Sohil
4/27/2018 7:30:23 PM



#87
Benzo(b)fluoranthene
Concen: 27.148 ng m
RT: 15.02 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	12.8	9.0	13.6





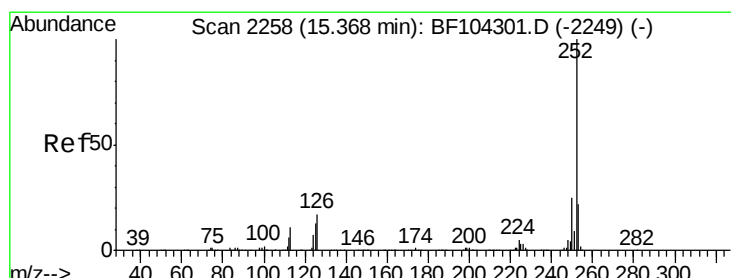
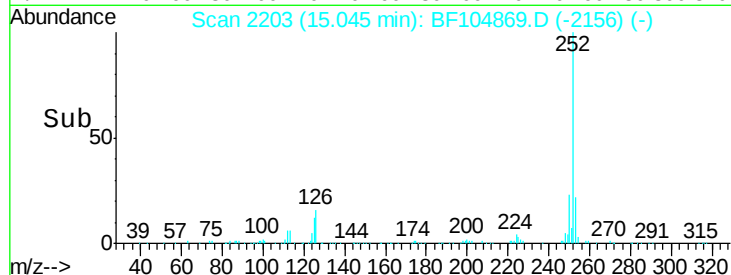
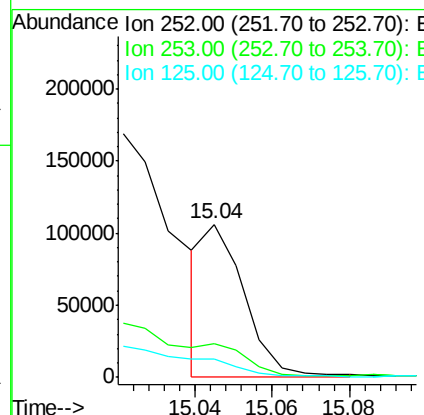
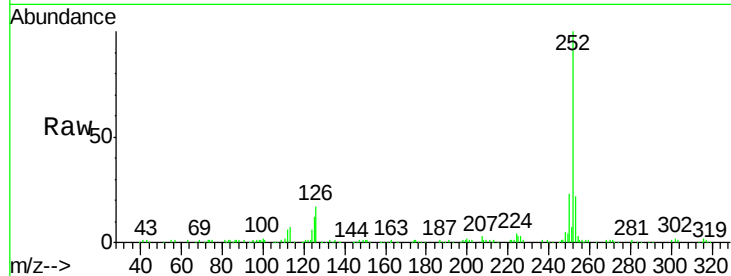
#88
Benzo(k)fluoranthene
Concen: 8.661 ng m
RT: 15.04 min Scan# 2203
Delta R.T. -0.02 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampleId :
TP-7 0.0-0.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	11.9	10.2	15.2

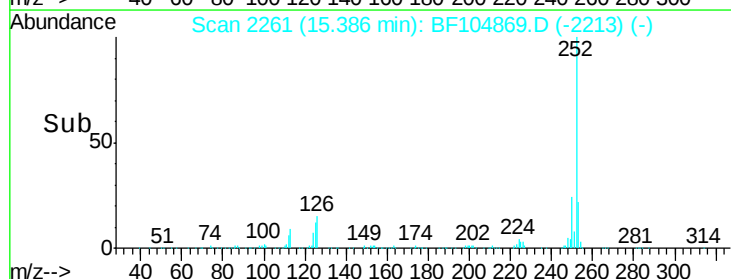
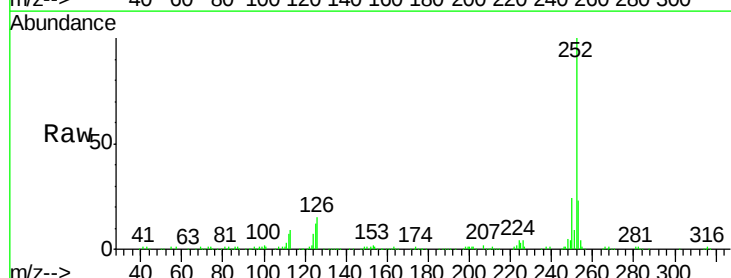
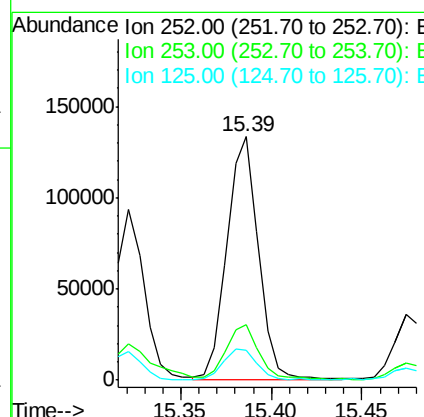
Manual Integrations
APPROVED

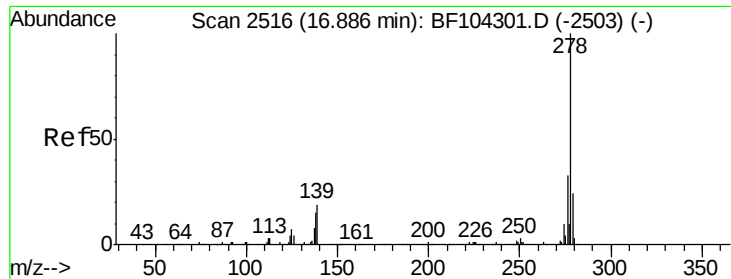
Sohil
4/27/2018 7:30:23 PM



#89
Benzo(a)pyrene
Concen: 18.580 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.02 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	12.1	9.8	14.6





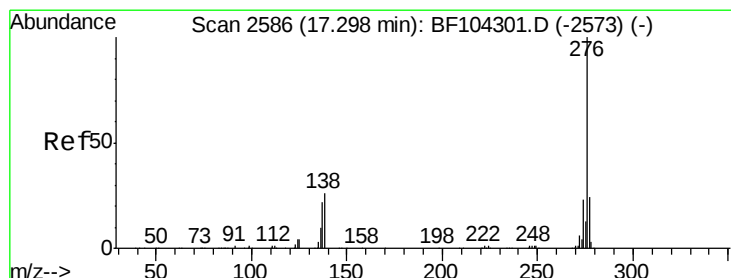
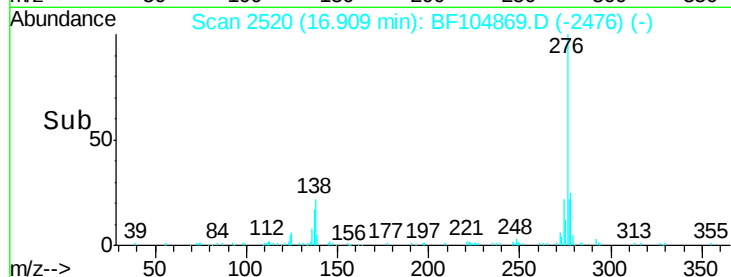
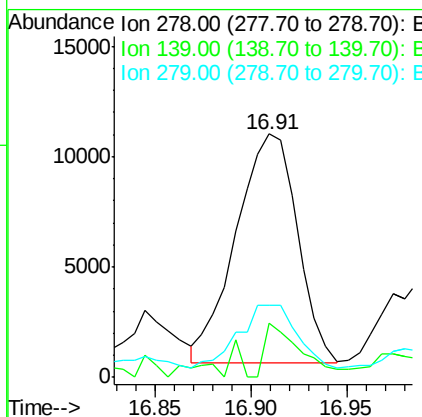
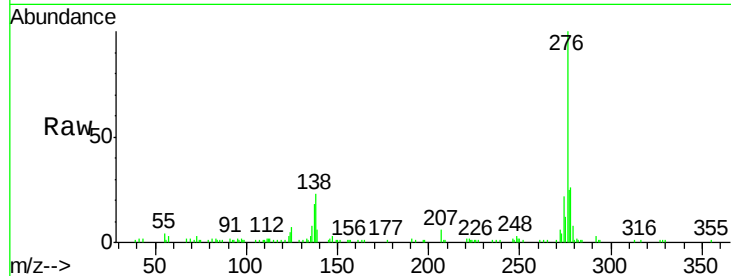
#90
Dibenzo(a,h)anthracene
Concen: 3.242 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.04 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Instrument :
BNA_F
ClientSampled :
TP-7 0.0-0.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.2	15.9	23.9
279	29.6	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/27/2018 7:30:23 PM



#91
Benzo(g,h,i)perylene
Concen: 11.225 ng
RT: 17.35 min Scan# 2595
Delta R.T. -0.03 min
Lab File: BF104869.D
Acq: 27 Apr 2018 8:17

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	22.6	21.8	32.8

