

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
 Data File : BF101089.D
 Acq On : 4 Dec 2017 11:22
 Operator : SJ/JU
 Sample : I6642-01 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENN-1-E(0-1)

Manual Integrations
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 12/5/2017 3:23:34 PM

Quant Time: Dec 04 15:30:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	50080	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	194941	20.00	ng	0.00
38) Acenaphthene-d10	9.88	164	94606	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	180004	20.00	ng	0.00
75) Chrysene-d12	14.02	240	113332	20.00	ng	0.00
86) Perylene-d12	15.49	264	118007	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	43620	14.39	ng	0.00
7) Phenol-d6	6.47	99	54118	14.71	ng	-0.01
23) Nitrobenzene-d5	7.40	82	32931	10.08	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	12881	11.33	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	79679	11.52	ng	-0.01
78) Terphenyl-d14	12.95	244	75195	14.51	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.15	128	69647	7.25	ng	99
37) 2-Methylnaphthalene	8.84	142	26778	4.10	ng	94
51) Acenaphthene	9.92	154	55772	9.21	ng	99
54) Dibenzofuran	10.09	168	63796	7.31	ng	97
57) Fluorene	10.43	166	54687	7.71	ng	100
70) Phenanthrene	11.40	178	606349	61.17	ng	98
71) Anthracene	11.45	178	156625	15.61	ng	97
72) Carbazole	11.60	167	64781	7.07	ng	96
74) Fluoranthene	12.59	202	604138	54.98	ng	97
77) Pyrene	12.82	202	521937	66.74	ng	99
80) Benzo(a)anthracene	14.01	228	223339	31.21	ng	99
82) Chrysene	14.04	228	195770	29.46	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	108296m	18.33	ng	
87) Benzo(b)fluoranthene	15.06	252	230404m	32.60	ng	
88) Benzo(k)fluoranthene	15.09	252	65558m	9.41	ng	
89) Benzo(a)pyrene	15.43	252	170881	26.59	ng	97
90) Dibenzo(a,h)anthracene	16.97	278	33124m	5.85	ng	
91) Benzo(g,h,i)perylene	17.42	276	105722	19.80	ng	# 92

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

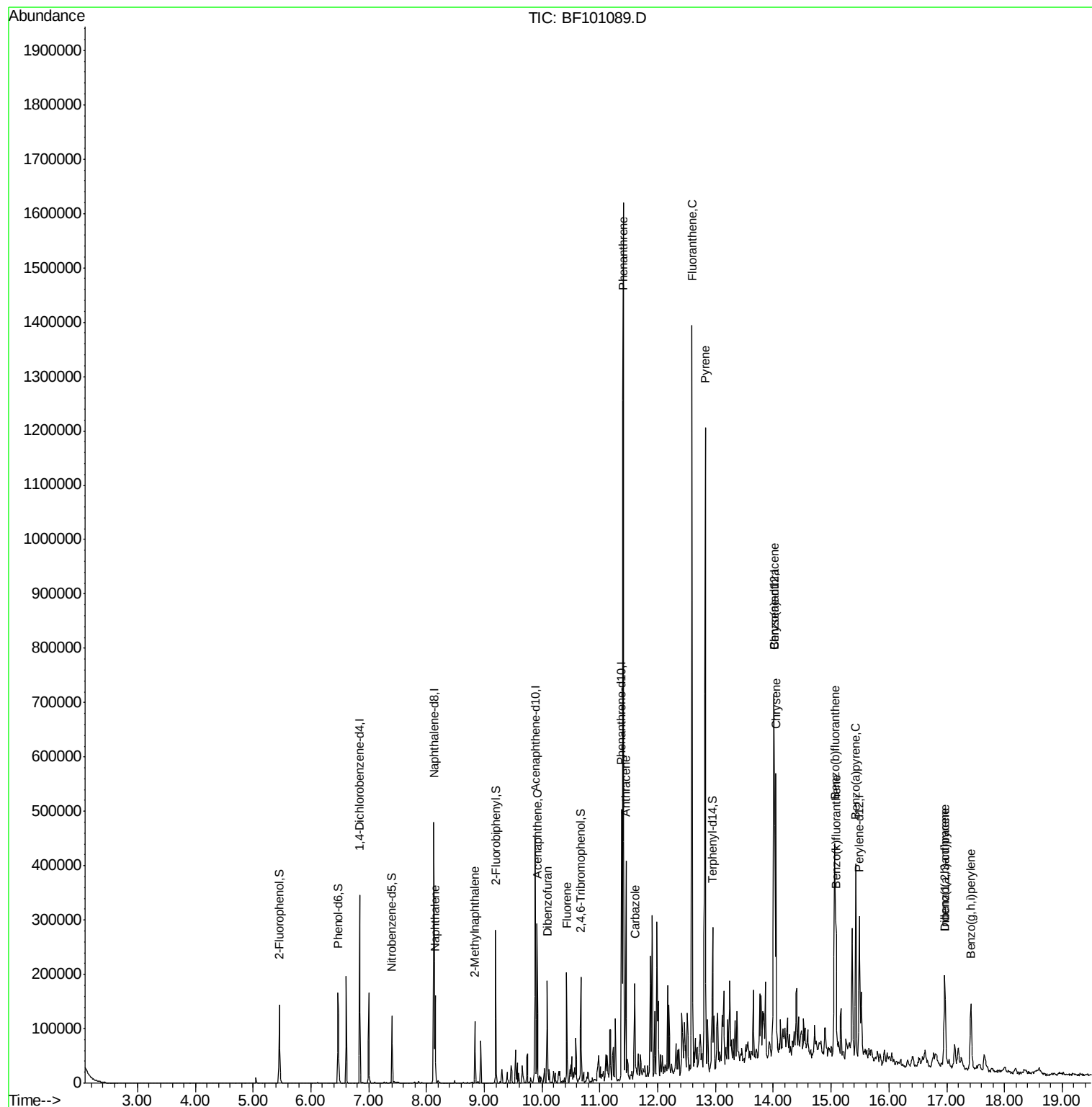
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
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ALS Vial : 5 Sample Multiplier: 1

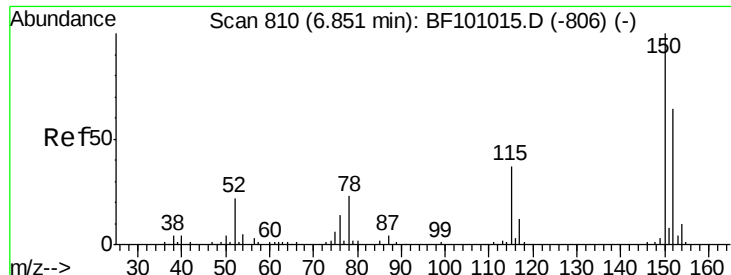
Instrument :
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PENN-1-E(0-1)

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#1

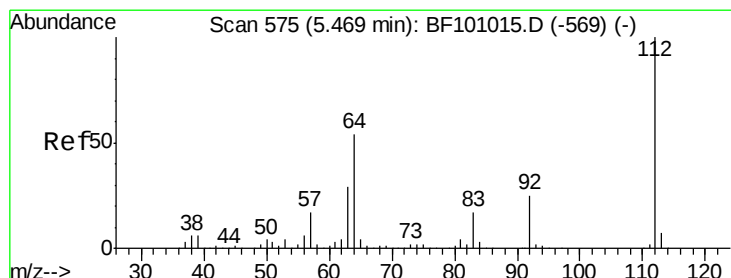
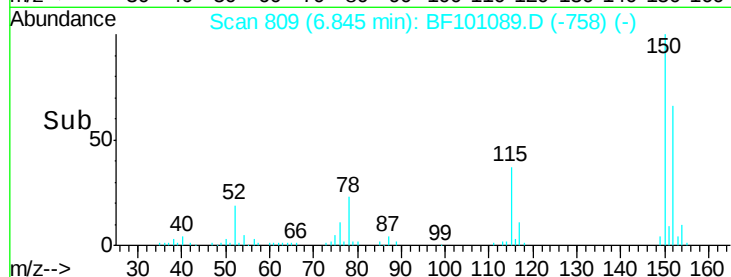
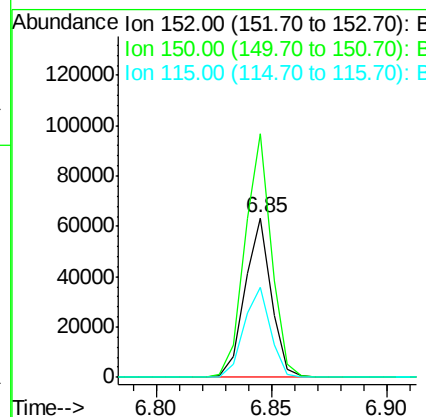
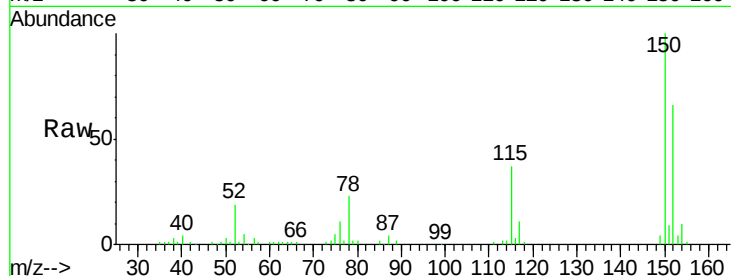
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.6	186.8
115	56.7	50.1	75.1

Manual Integrations
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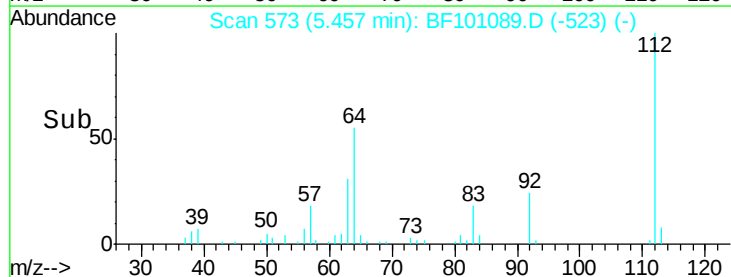
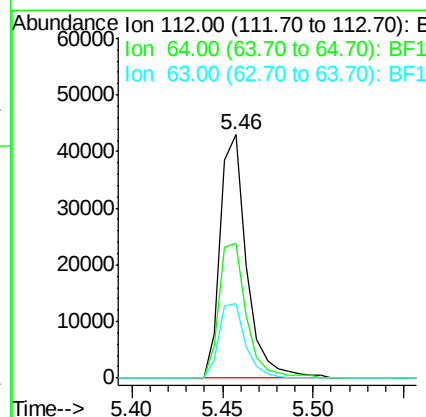
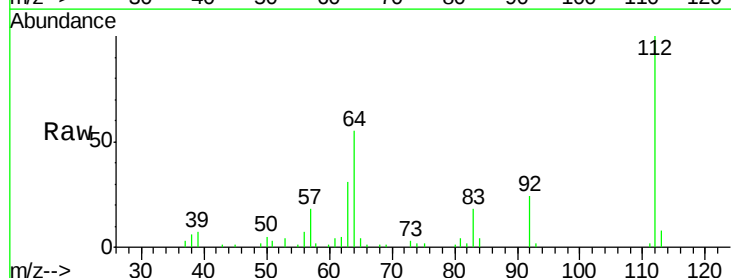
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#5

2-Fluorophenol
Concen: 14.39 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	47.9	71.9
63	30.6	23.7	35.5





#7

Phenol-d6

Concen: 14.71 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF101089.D

Acq: 4 Dec 2017 11:22

Instrument :

BNA_F

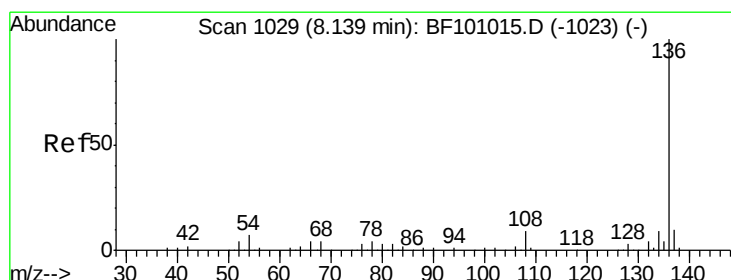
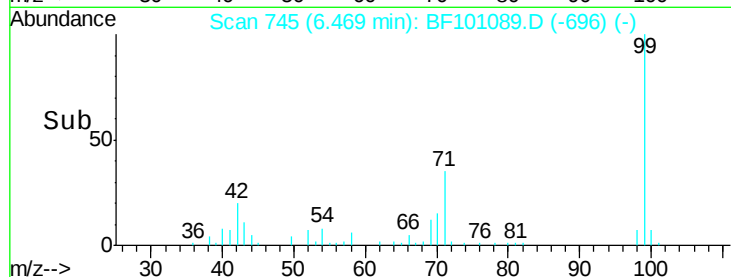
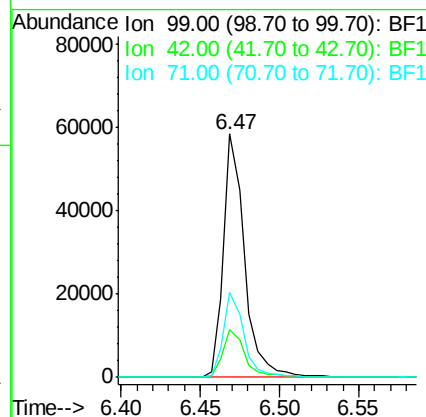
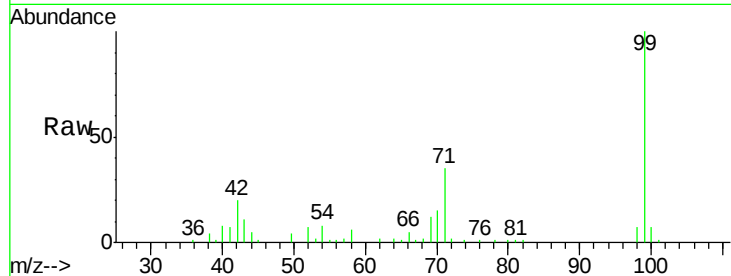
ClientSampleId :

PENN-1-E(0-1)

Tot Ion:	99	Resp:	54118
Ion	Ratio	Lower	Upper
99	100		
42	19.8	14.5	21.7
71	34.7	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.00 ng

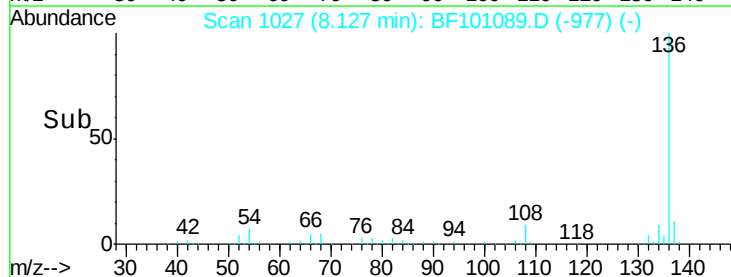
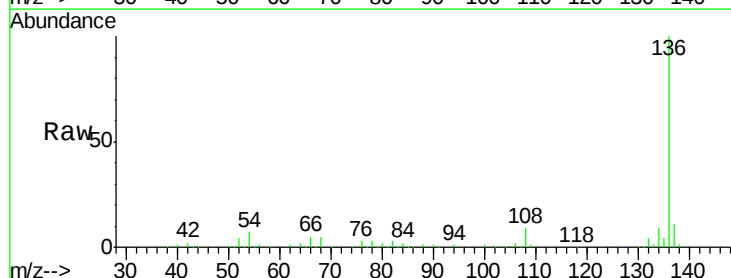
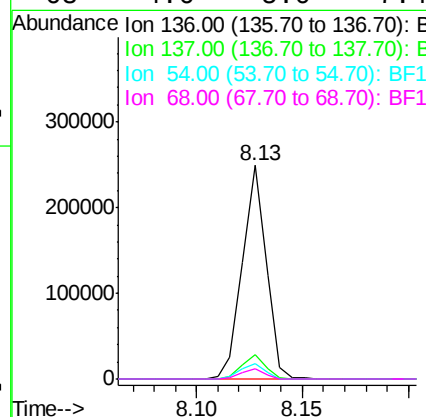
RT: 8.13 min Scan# 1027

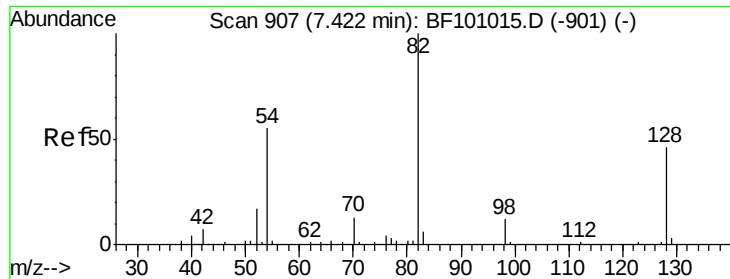
Delta R.T. -0.01 min

Lab File: BF101089.D

Acq: 4 Dec 2017 11:22

Tgt Ion:	136	Resp:	194941
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.2	6.6	9.8
68	4.6	5.0	7.4#





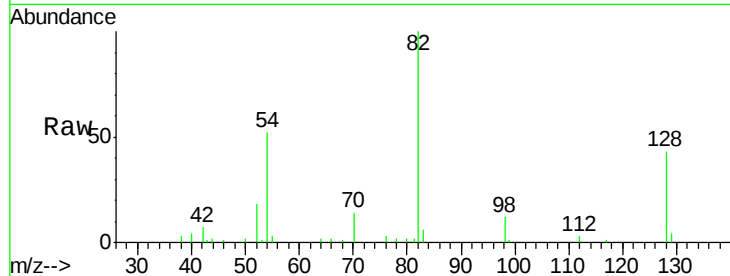
#23
Nitrobenzene-d5
Concen: 10.08 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

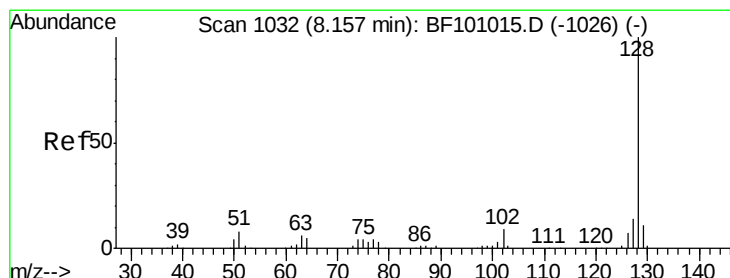
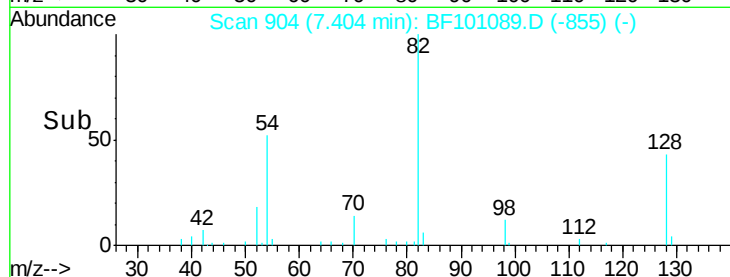
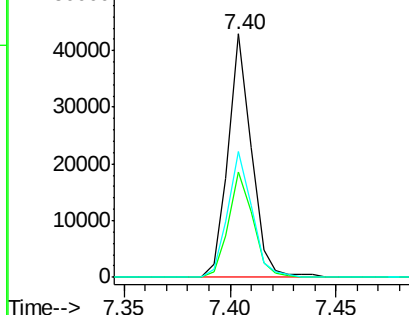
Tot Ion	Ratio	Resp	Lower	Upper
82	100	32931		
128	43.2	36.1	54.1	
54	51.5	41.4	62.2	

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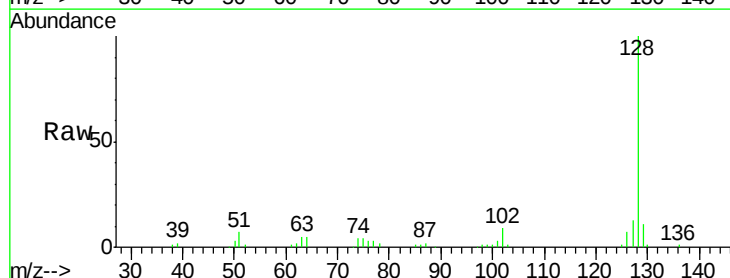


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

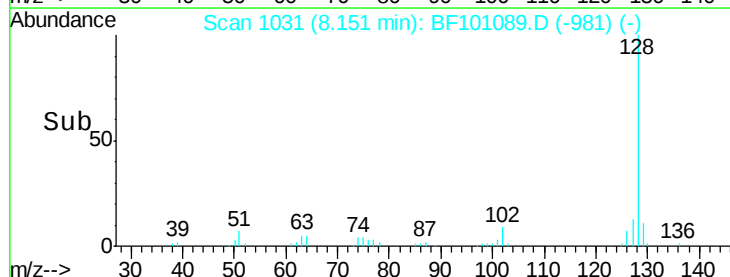
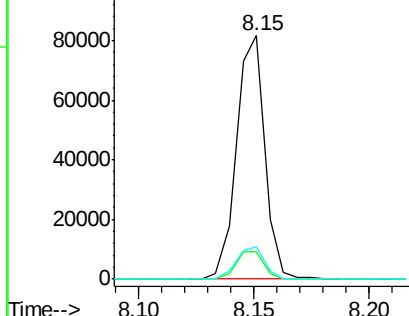


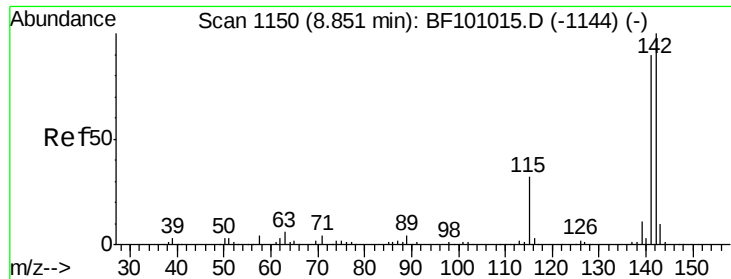
#31
Naphthalene
Concen: 7.25 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	69647		
129	11.1	8.8	13.2	
127	13.1	10.9	16.3	



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





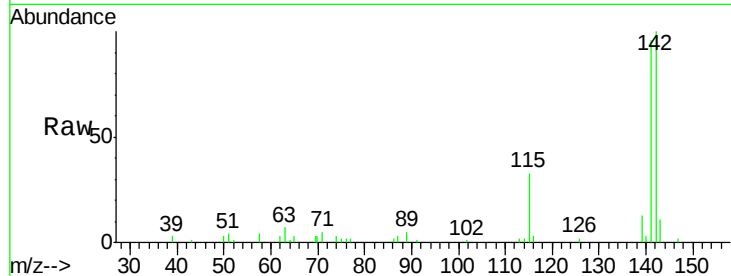
#37
2-Methylnaphthalene
Concen: 4.10 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
142	100		
141	95.6	70.8	106.2
115	33.2	26.1	39.1

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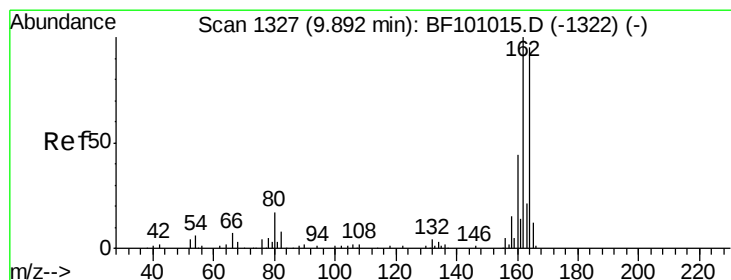
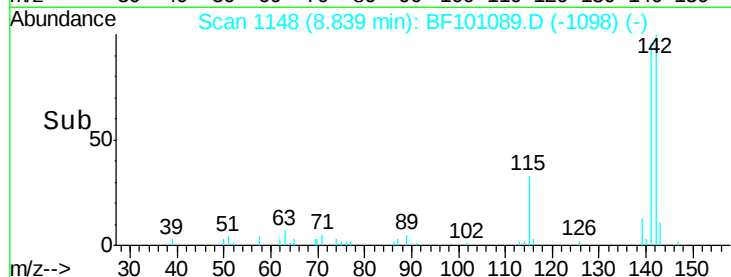
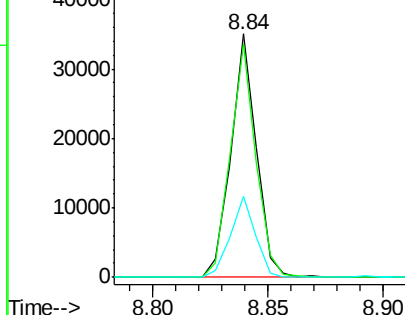


Abundance

Ion 142.00 (141.70 to 142.70): E

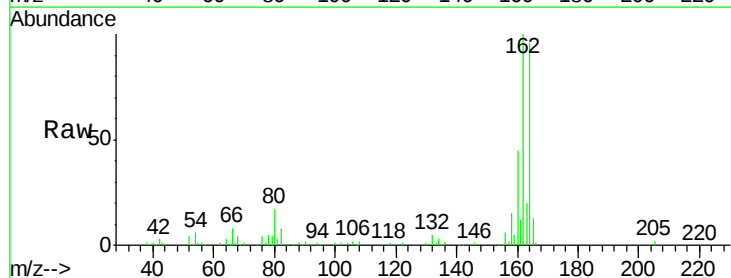
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	86.1	129.1
160	46.4	38.3	57.5

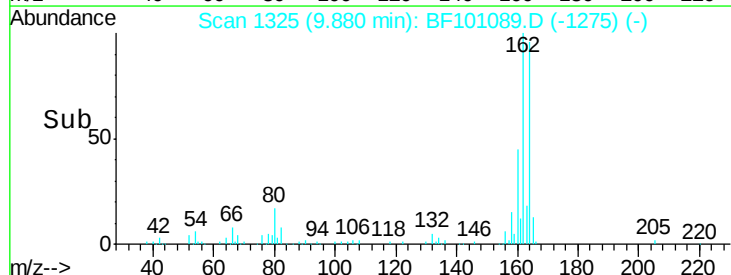
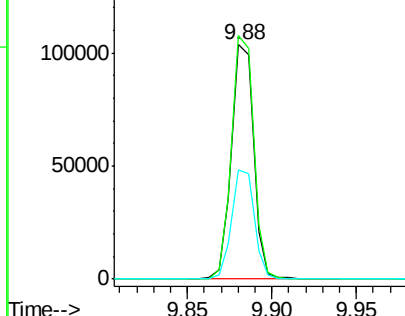


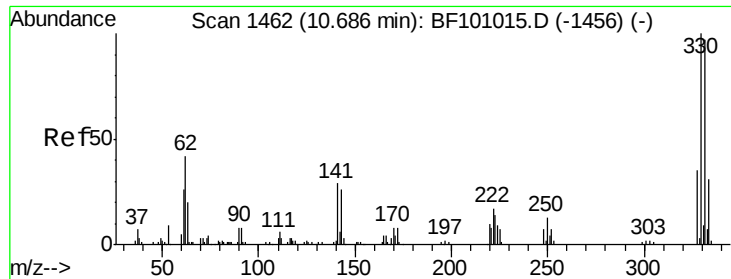
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





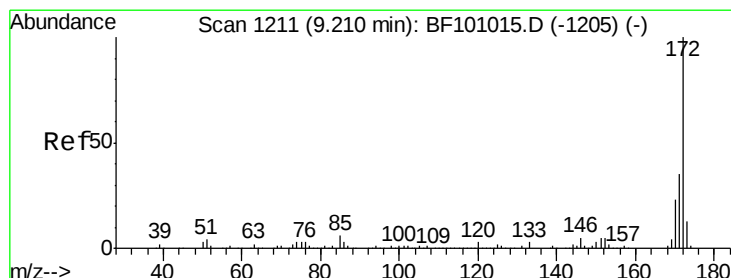
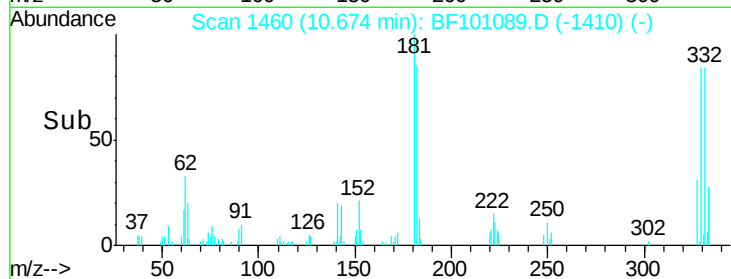
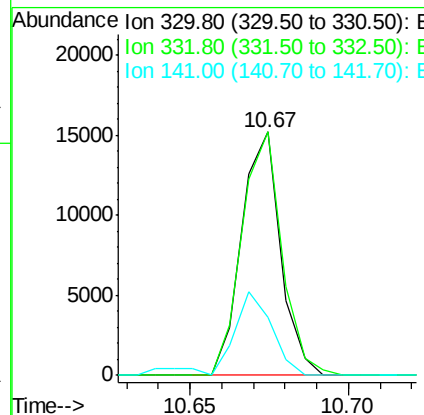
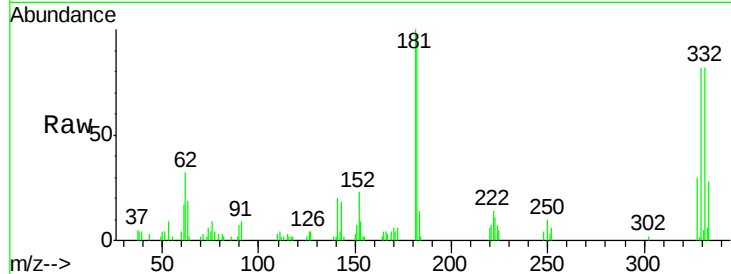
#41
 2,4,6-Tribromophenol
 Concen: 11.33 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101089.D
 Acq: 4 Dec 2017 11:22

Instrument :
 BNA_F
 ClientSampleId :
 PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
330	100		
332	102.9	77.0	115.6
141	35.6	29.9	44.9

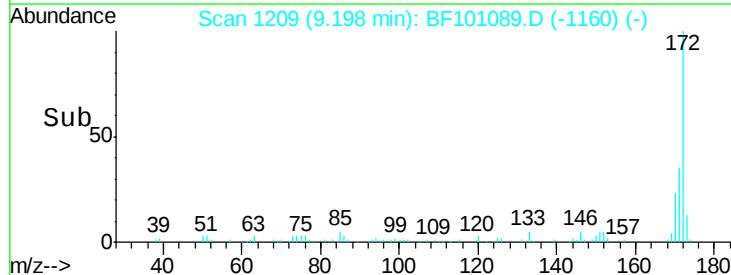
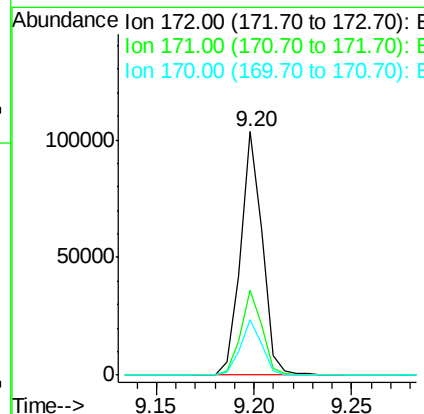
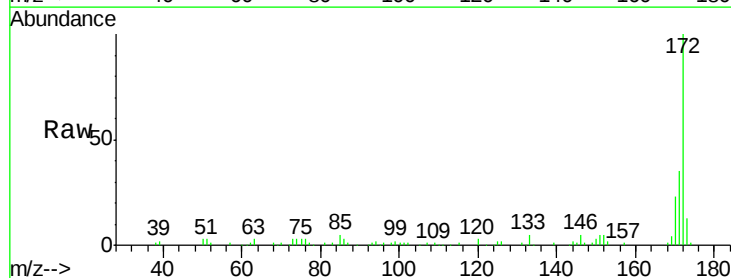
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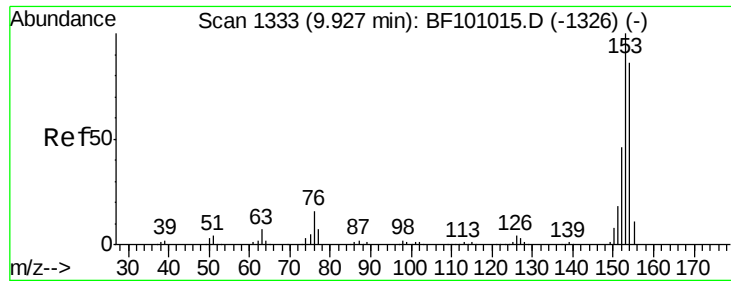
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#44
 2-Fluorobiphenyl
 Concen: 11.52 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101089.D
 Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	22.7	19.6	29.4





#51

Acenaphthene

Concen: 9.21 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF101089.D

Acq: 4 Dec 2017 11:22

Instrument :

BNA_F

ClientSampled :

PENN-1-E(0-1)

Tot Ion:154 Resp: 55772

Ion Ratio Lower Upper

154 100

153 112.5 91.2 136.8

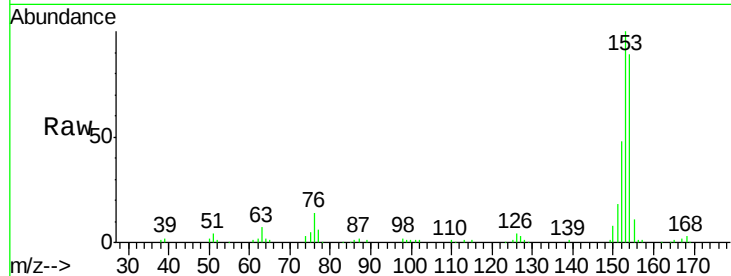
152 53.9 43.8 65.8

Manual Integrations

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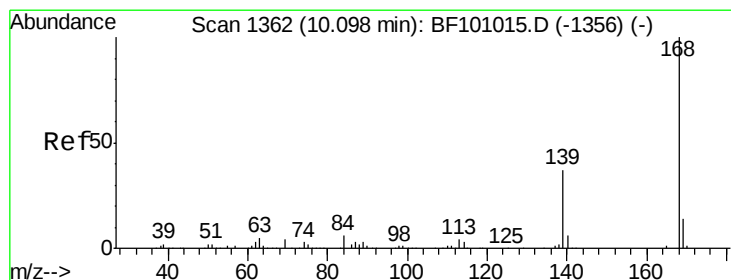
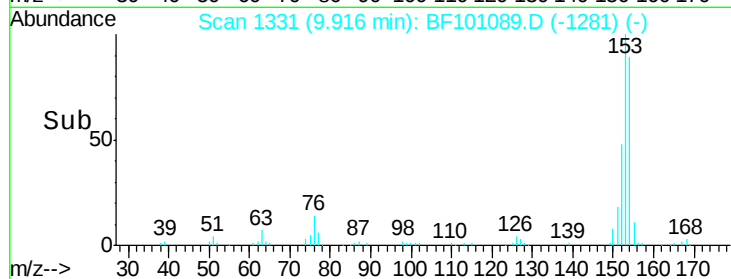
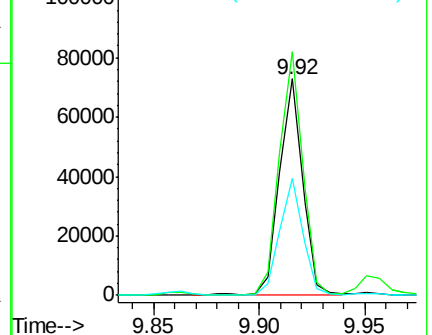
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 7.31 ng

RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

Lab File: BF101089.D

Acq: 4 Dec 2017 11:22

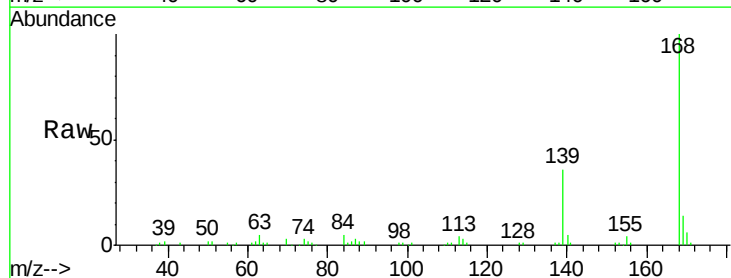
Tgt Ion:168 Resp: 63796

Ion Ratio Lower Upper

168 100

139 35.5 30.1 45.1

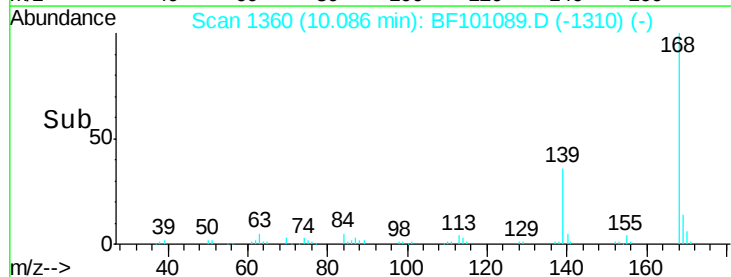
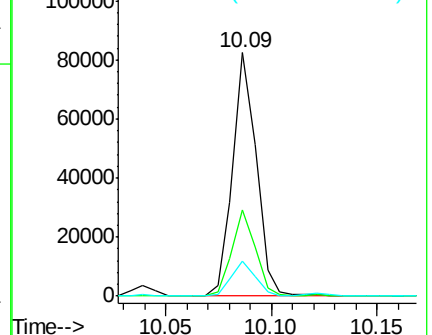
169 14.4 10.9 16.3

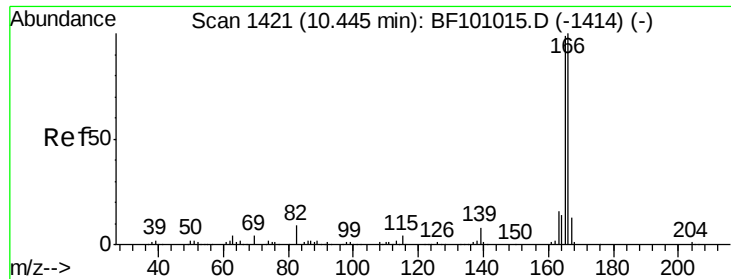


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





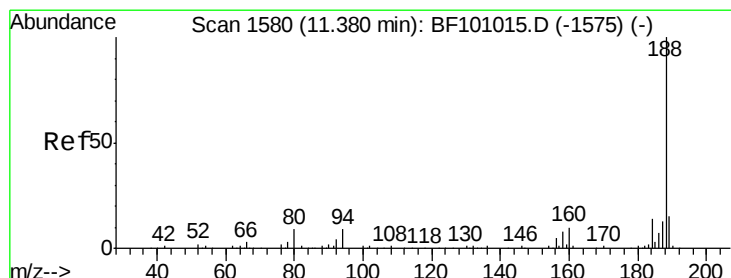
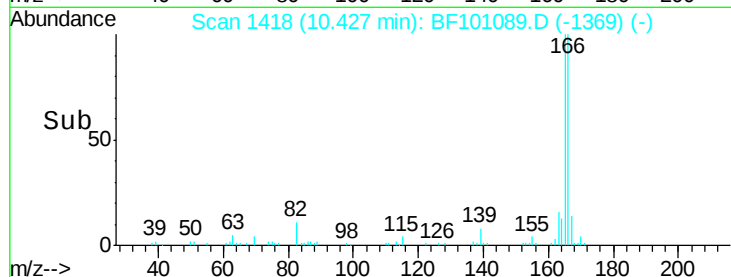
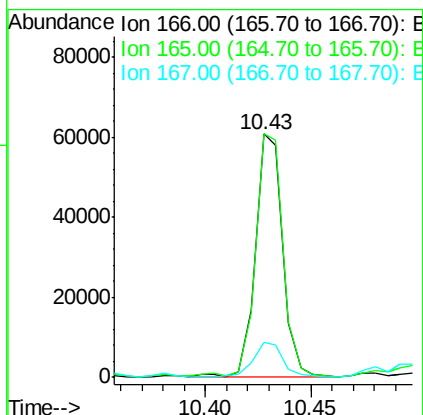
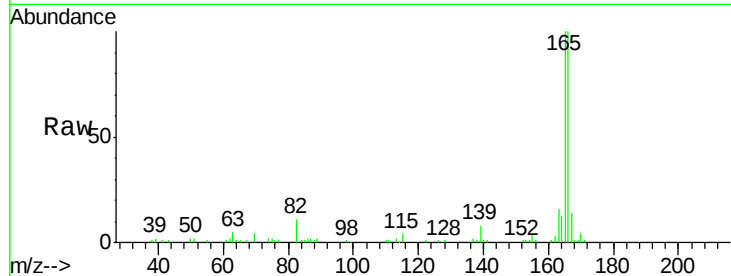
#57
Fluorene
Concen: 7.71 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.8	119.8
167	14.2	10.6	16.0

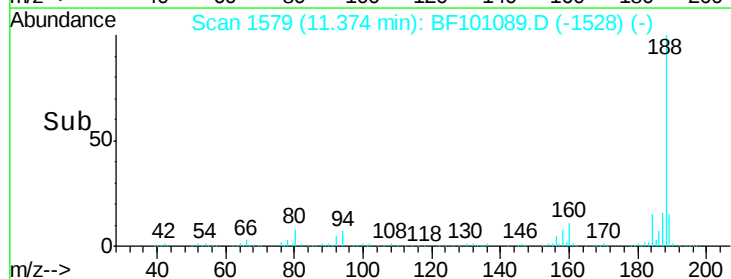
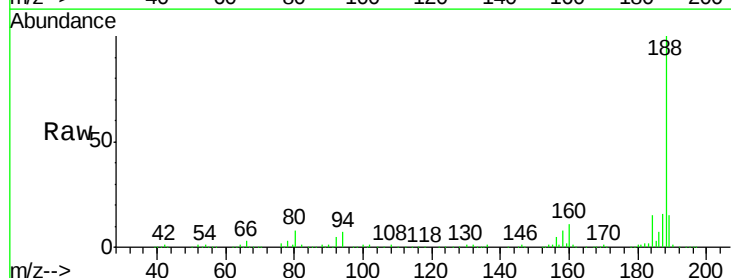
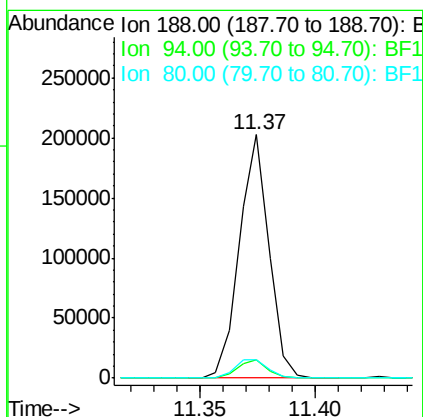
Manual Integrations
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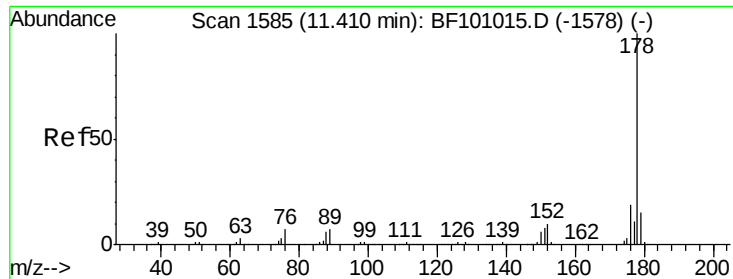
Sohil
12/5/2017 3:23:34 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.5	8.5	12.7#
80	7.8	9.2	13.8#





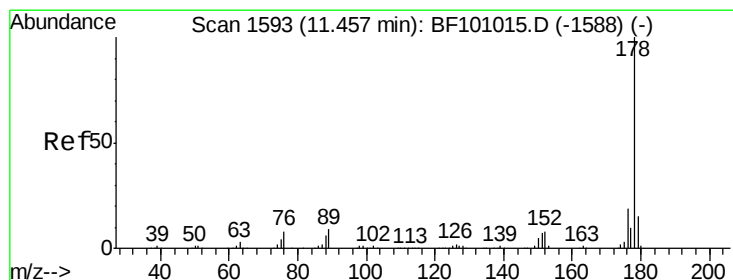
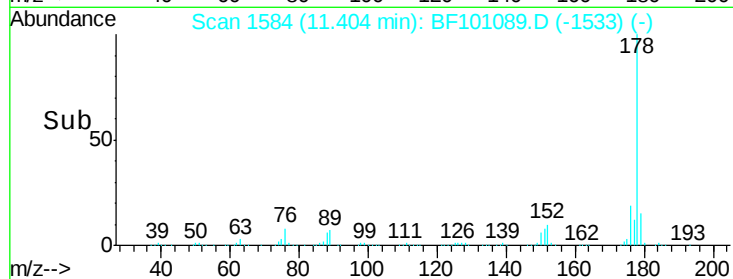
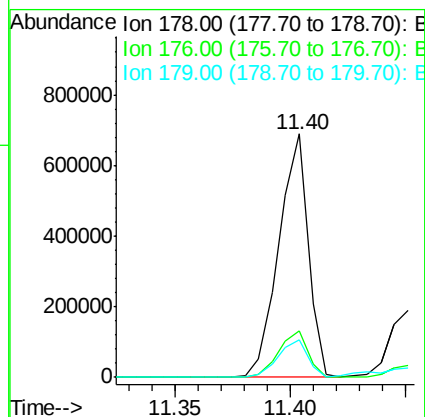
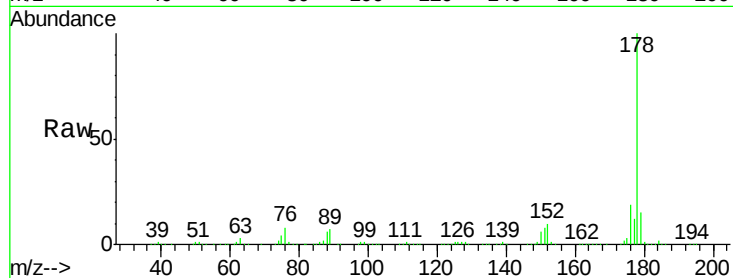
#70
Phenanthrene
Concen: 61.17 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.8	23.8
179	15.3	13.0	19.6

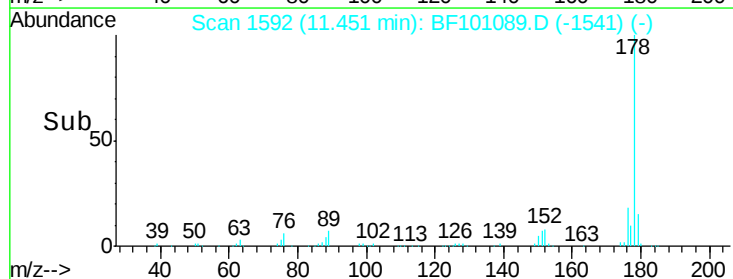
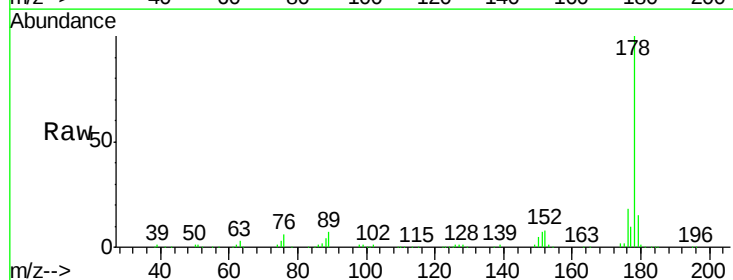
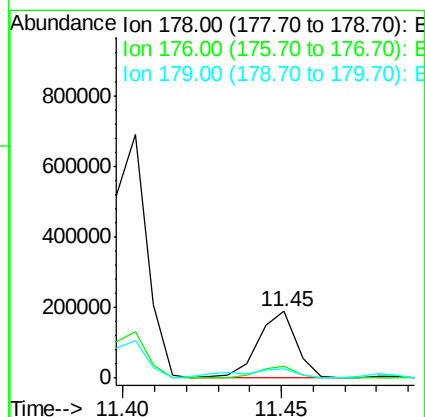
Manual Integrations
APPROVED

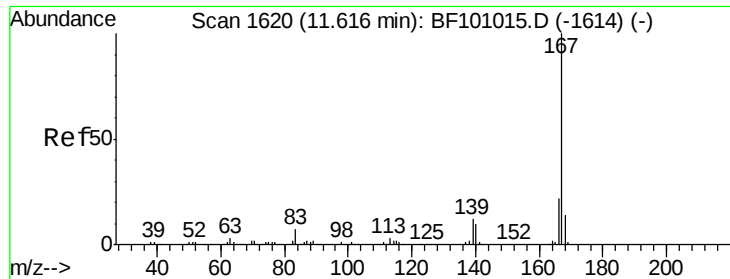
Sohil
12/5/2017 3:23:34 PM



#71
Anthracene
Concen: 15.61 ng
RT: 11.45 min Scan# 1592
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.4	23.2
179	14.8	12.6	19.0





#72

Carbazole

Concen: 7.07 ng

RT: 11.60 min Scan# 1618

Delta R.T. -0.01 min

Lab File: BF101089.D

Acq: 4 Dec 2017 11:22

Instrument :

BNA_F

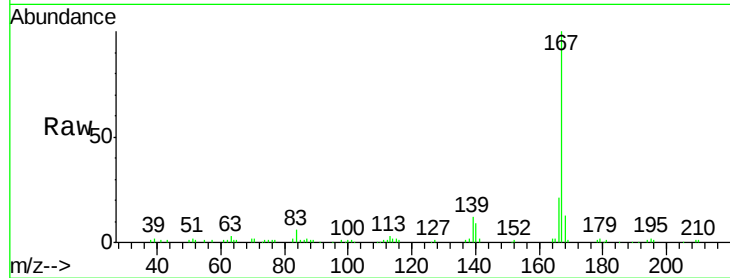
ClientSampleId :

PENN-1-E(0-1)

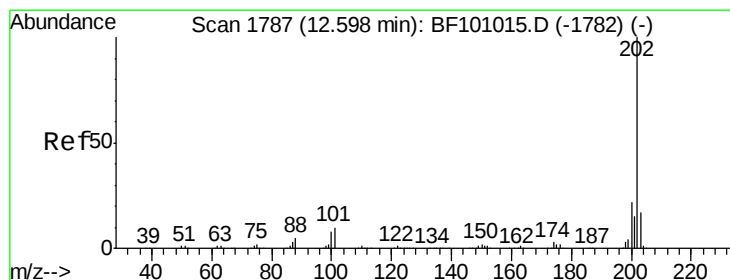
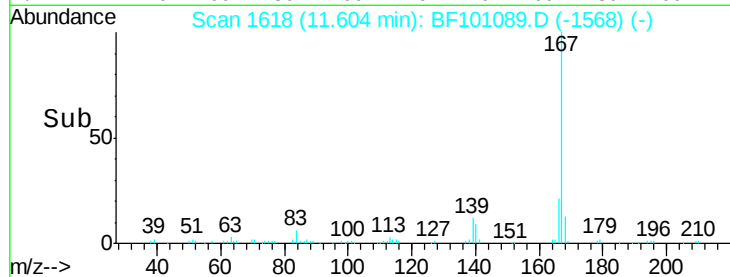
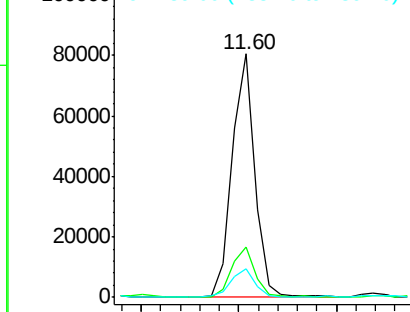
Tot Ion:	167	Resp:	64781
Ion Ratio	Lower	Upper	
167	100		
166	20.6	17.6	26.4
139	11.7	10.9	16.3

Manual Integrations
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12/5/2017 3:23:34 PM



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 54.98 ng

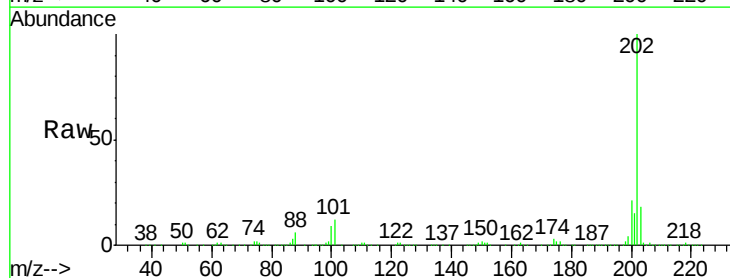
RT: 12.59 min Scan# 1786

Delta R.T. 0.00 min

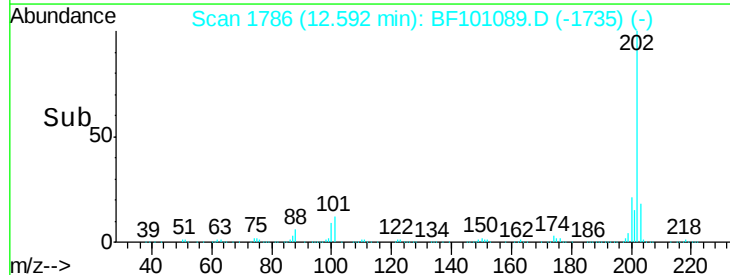
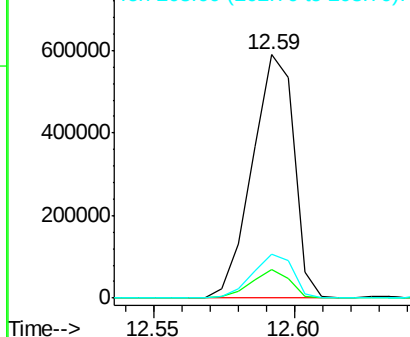
Lab File: BF101089.D

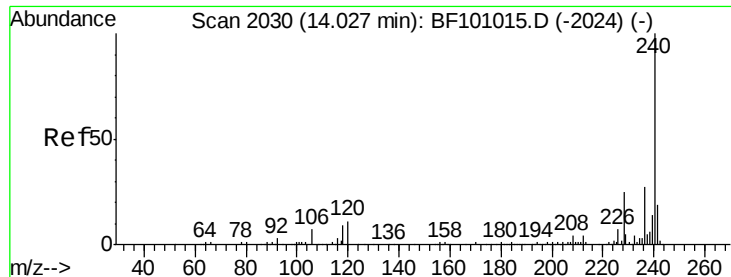
Acq: 4 Dec 2017 11:22

Tgt Ion:	202	Resp:	604138
Ion Ratio	Lower	Upper	
202	100		
101	11.6	0.0	34.1
203	18.2	0.0	38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





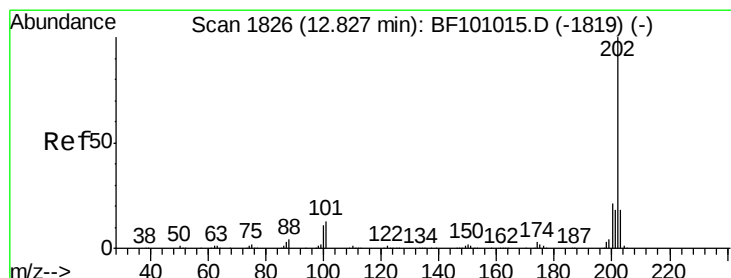
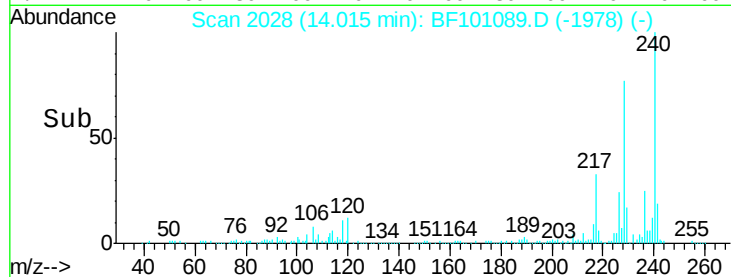
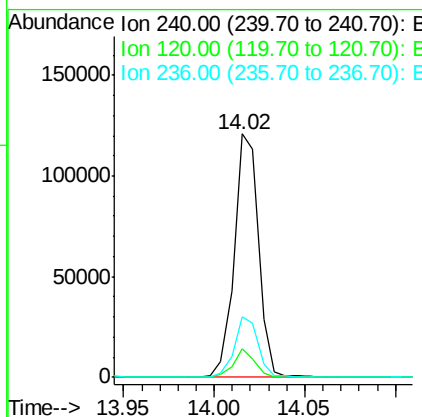
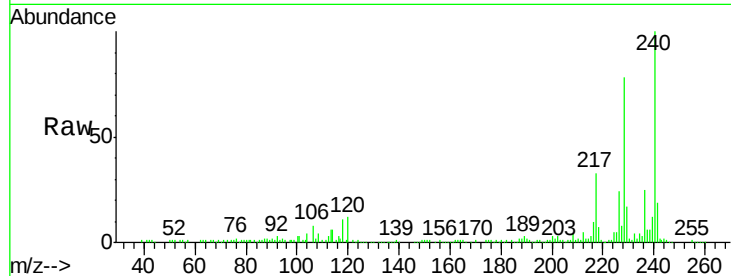
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.7	9.5	14.3
236	25.0	20.7	31.1

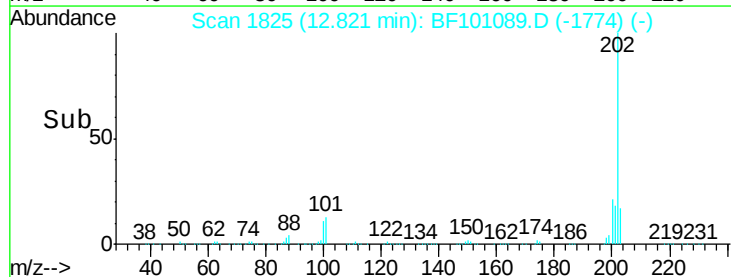
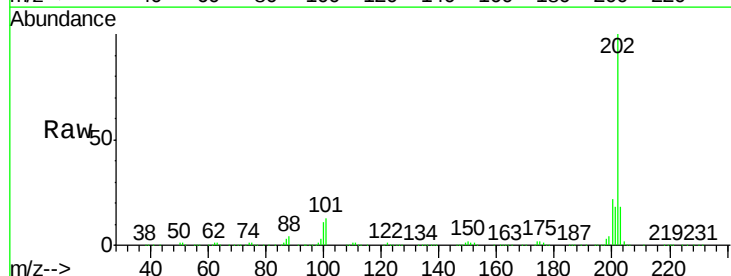
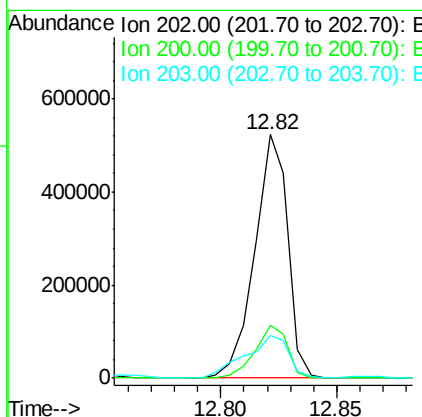
Manual Integrations
APPROVED

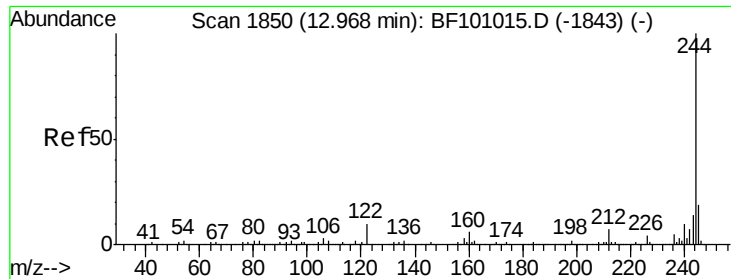
Sohil
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#77
Pyrene
Concen: 66.74 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.7	14.3	21.5





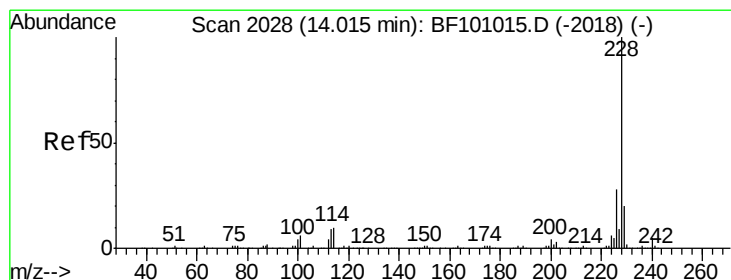
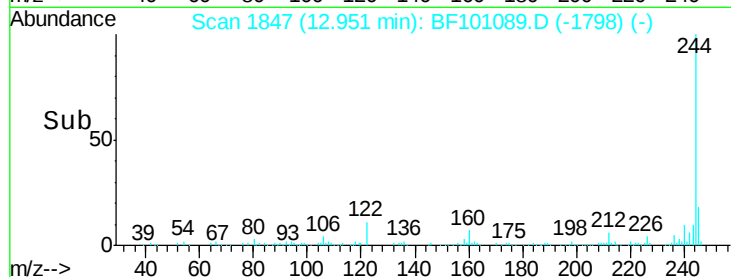
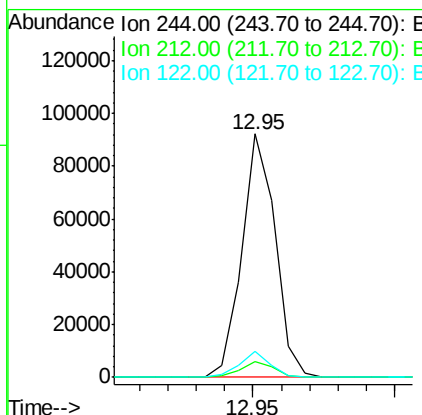
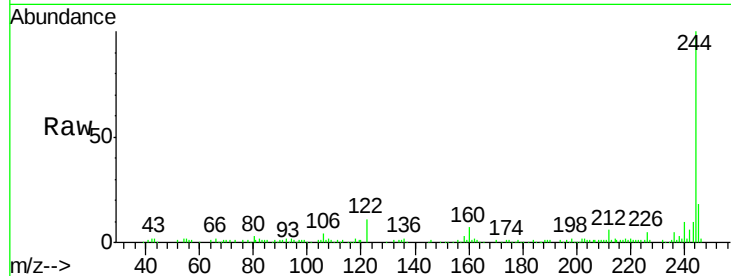
#78
 Terphenyl-d14
 Concen: 14.51 ng
 RT: 12.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BF101089.D
 Acq: 4 Dec 2017 11:22

Instrument :
 BNA_F
 ClientSampleId :
 PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	10.6	11.0	16.4

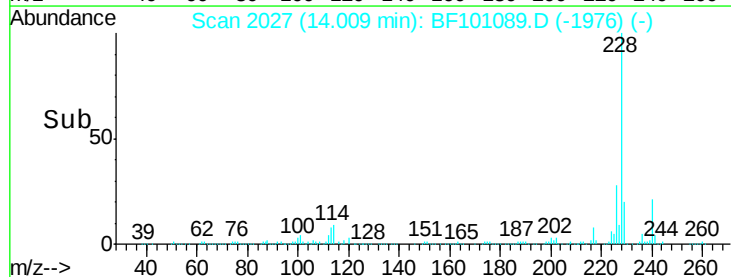
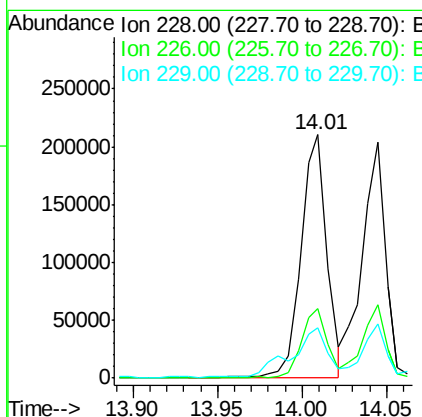
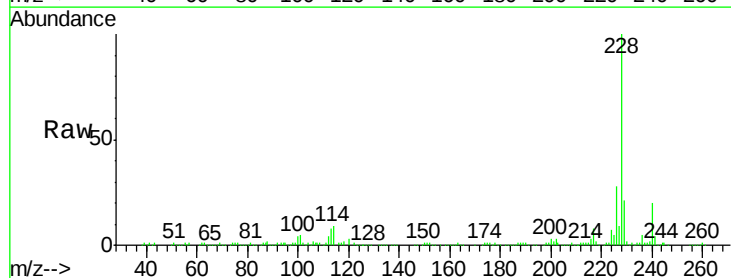
Manual Integrations
 APPROVED

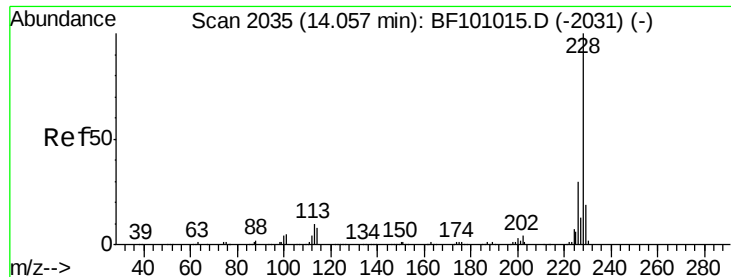
Sohil
 12/5/2017 3:23:34 PM



#80
 Benzo(a)anthracene
 Concen: 31.21 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. 0.00 min
 Lab File: BF101089.D
 Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.5	15.8	23.6





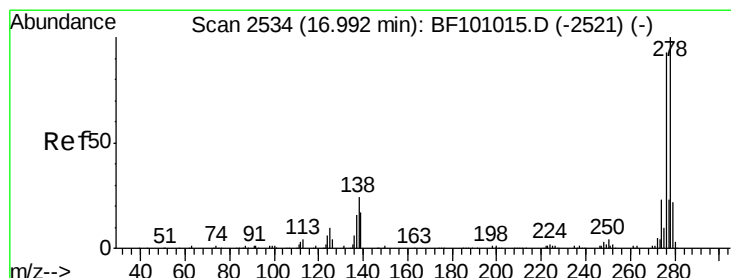
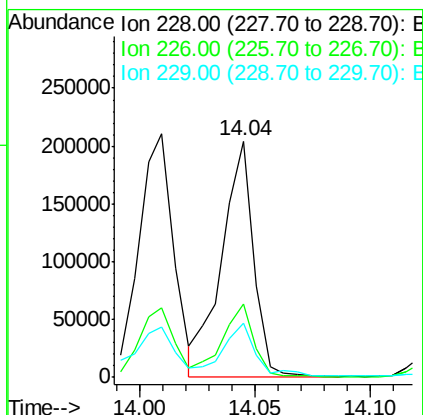
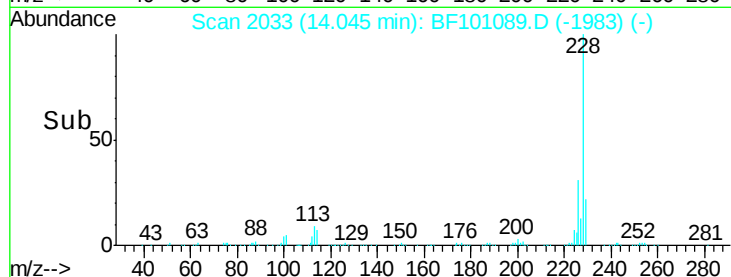
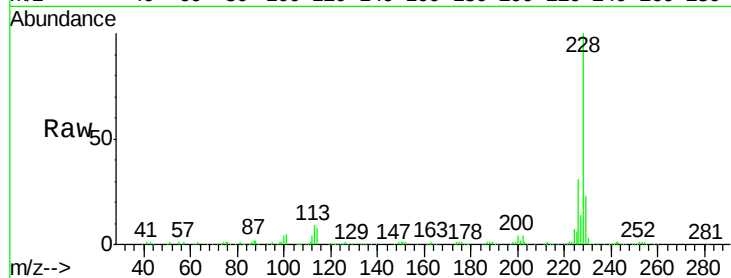
#82
Chrysene
Concen: 29.46 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.6
229	22.7	16.2	24.4

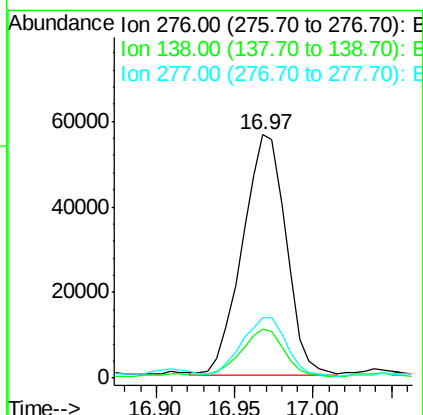
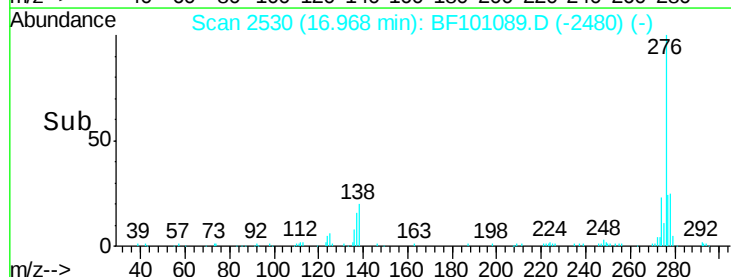
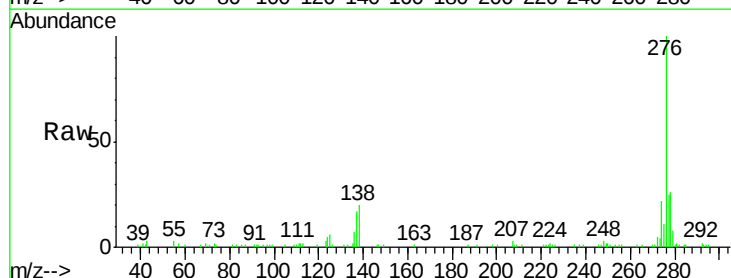
Manual Integrations
APPROVED

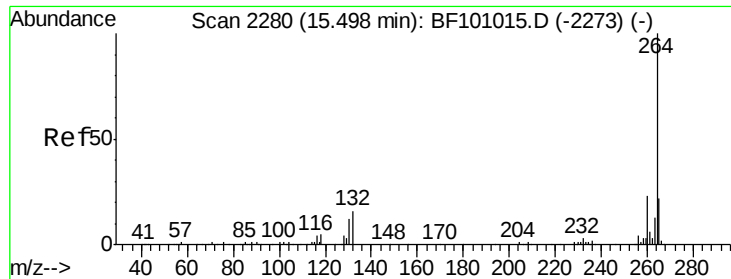
Sohil
12/5/2017 3:23:34 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 18.33 ng m
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.6	25.0	37.6#
277	4.8	20.1	30.1#





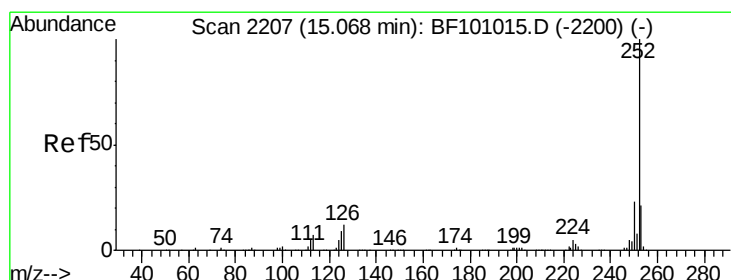
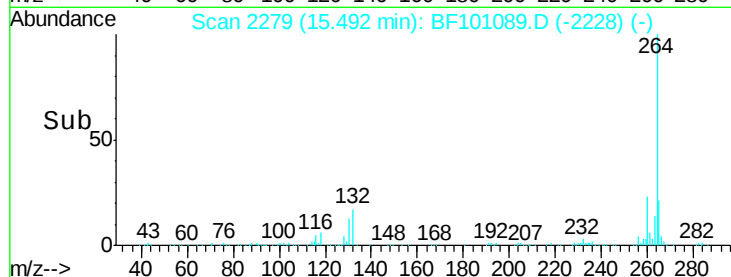
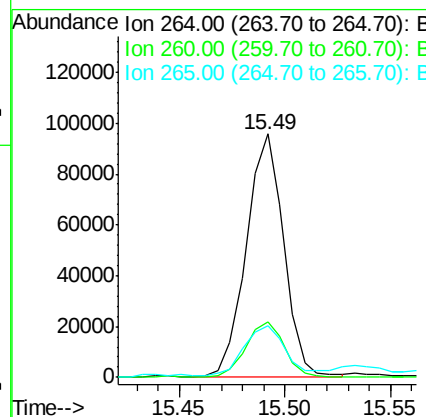
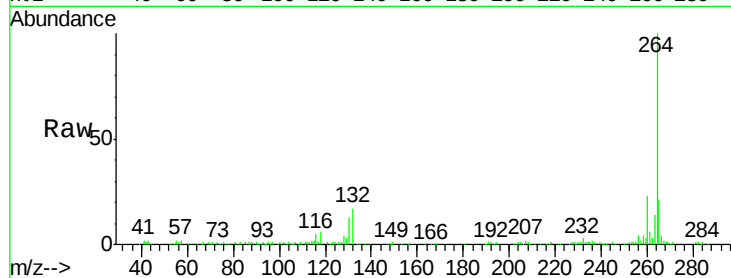
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.2	28.8
265	21.4	17.5	26.3

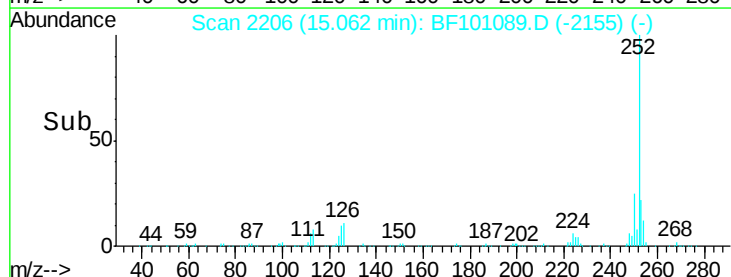
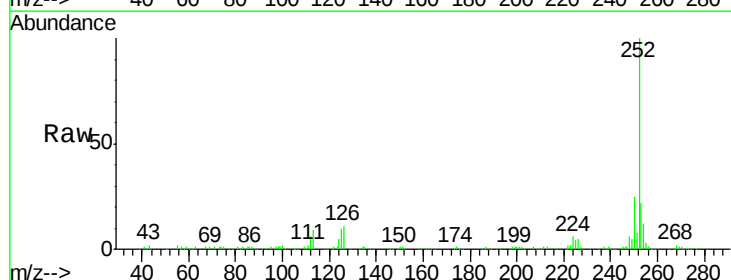
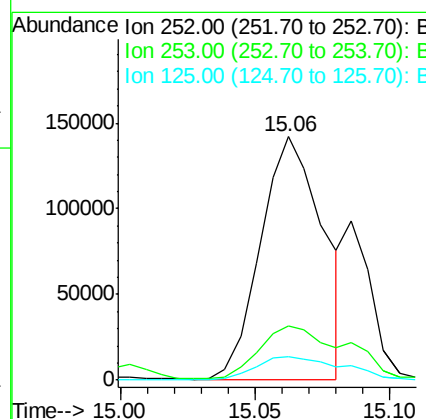
Manual Integrations
APPROVED

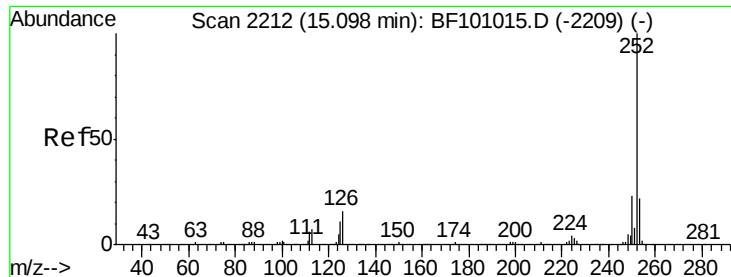
Sohil
12/5/2017 3:23:34 PM



#87
Benzo(b)fluoranthene
Concen: 32.60 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	9.9	9.0	13.6





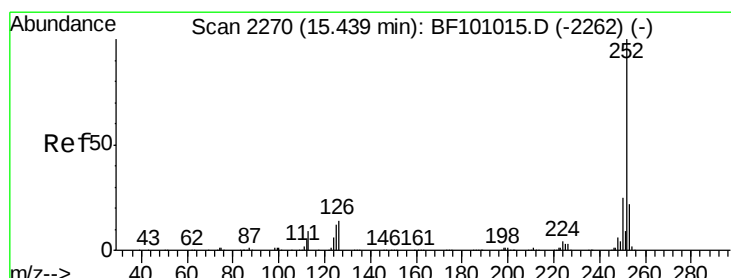
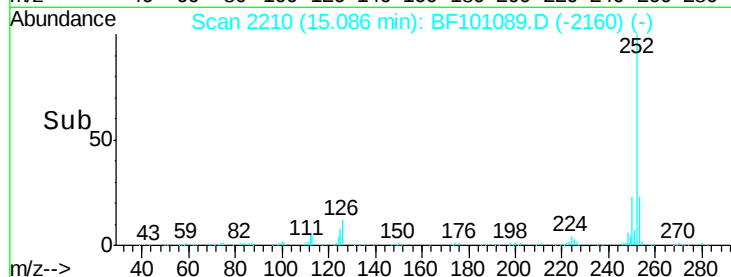
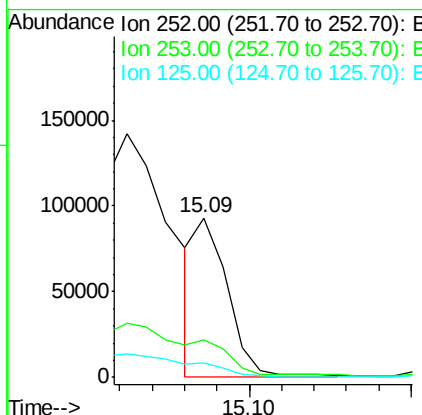
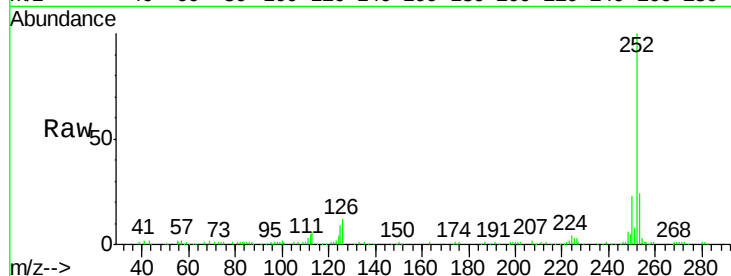
#88
Benzo(k)fluoranthene
Concen: 9.41 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	8.8	10.2	15.2

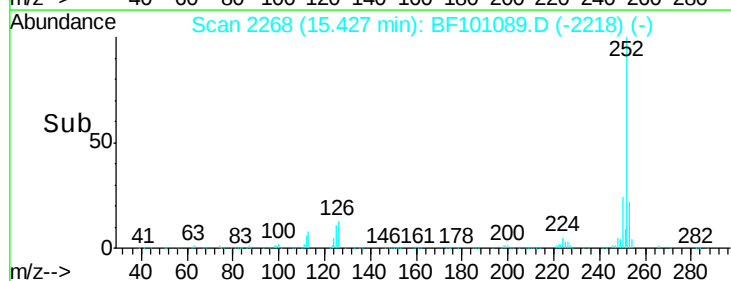
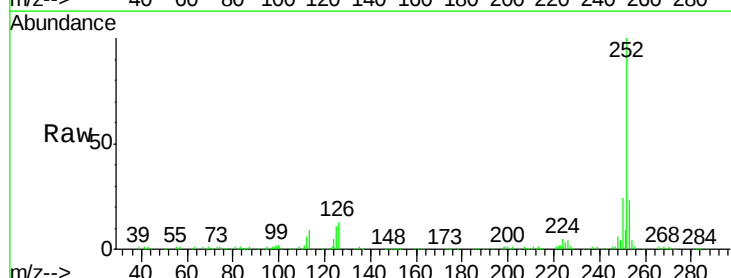
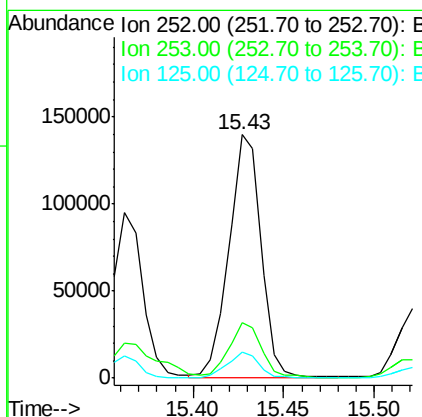
Manual Integrations
APPROVED

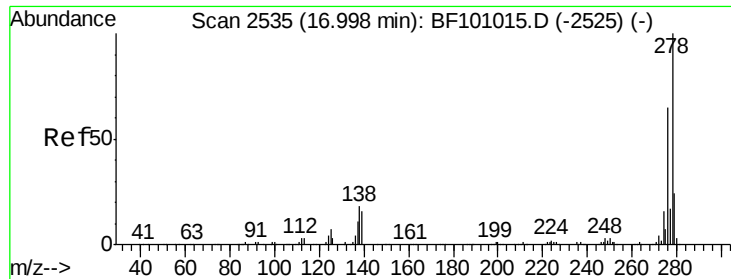
Sohil
12/5/2017 3:23:34 PM



#89
Benzo(a)pyrene
Concen: 26.59 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	10.7	9.8	14.6





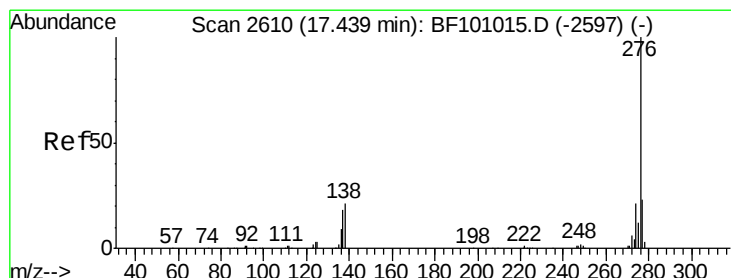
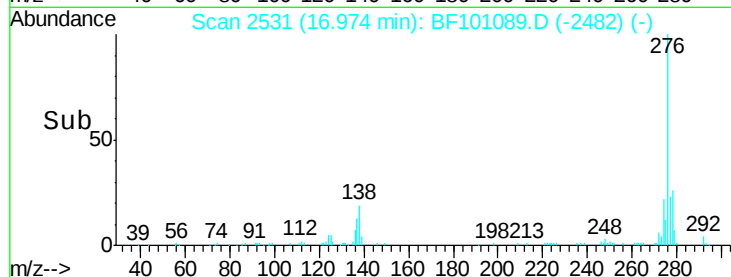
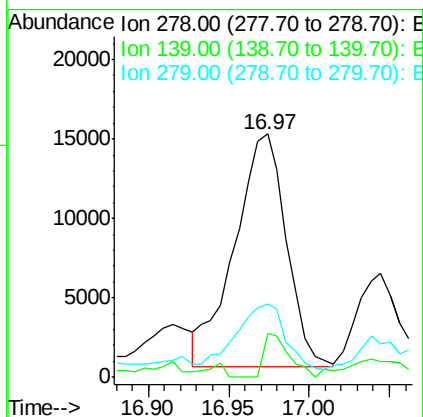
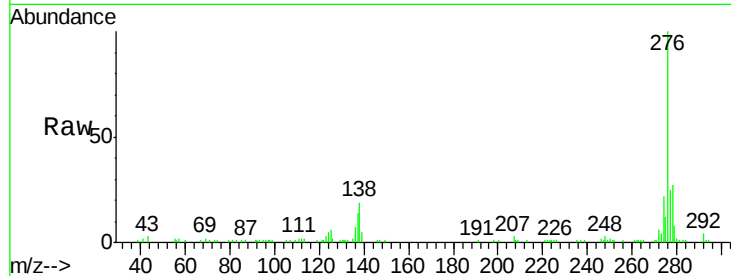
#90
Dibenzo(a,h)anthracene
Concen: 5.85 ng m
RT: 16.97 min Scan# 2531
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Instrument :
BNA_F
ClientSampleId :
PENN-1-E(0-1)

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.8	15.9	23.9
279	30.2	19.0	28.4

Manual Integrations
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Sohil
12/5/2017 3:23:34 PM



#91
Benzo(g,h,i)perylene
Concen: 19.80 ng
RT: 17.42 min Scan# 2607
Delta R.T. -0.01 min
Lab File: BF101089.D
Acq: 4 Dec 2017 11:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	21.1	21.8	32.8

