

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041219\
 Data File : BF113756.D
 Acq On : 12 Apr 2019 23:51
 Operator : JU/SJ
 Sample : K2376-03
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4-S

Manual Integrations
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 4/15/2019 12:27:24 AM

Quant Time: Apr 13 04:15:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 04 04:05:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	107754	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	393055	20.00	ng	-0.01
39) Acenaphthene-d10	9.70	164	170414	20.00	ng	-0.02
64) Phenanthrene-d10	11.19	188	300834	20.00	ng	-0.02
76) Chrysene-d12	13.82	240	303843	20.00	ng	-0.02
87) Perylene-d12	15.23	264	295493	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	587463	92.97	ng	-0.01
7) Phenol-d6	6.33	99	790572	101.51	ng	-0.01
23) Nitrobenzene-d5	7.24	82	458229	68.29	ng	-0.02
42) 2,4,6-Tribromophenol	10.49	330	176629	86.28	ng	-0.02
45) 2-Fluorobiphenyl	9.03	172	767979	72.55	ng	-0.02
79) Terphenyl-d14	12.76	244	687725	46.08	ng	-0.03
Target Compounds						Qvalue
49) Acenaphthylene	9.57	152	36944	2.134	ng	99
50) Dimethylphthalate	9.43	163	65591	5.221	ng	98
71) Phenanthrene	11.21	178	197298	13.198	ng	98
72) Anthracene	11.26	178	60929	4.006	ng	96
75) Fluoranthene	12.40	202	483121	30.160	ng	98
78) Pyrene	12.62	202	526809	22.787	ng	99
81) Benzo(a)anthracene	13.81	228	348213	19.867	ng	96
83) Chrysene	13.85	228	336628	18.946	ng	98
86) Indeno(1,2,3-cd)pyrene	16.60	276	207410	12.643	ng	93
88) Benzo(b)fluoranthene	14.84	252	486885m	26.918	ng	
89) Benzo(k)fluoranthene	14.86	252	122289m	7.533	ng	
90) Benzo(a)pyrene	15.18	252	346649	21.567	ng	100
91) Dibenzo(a,h)anthracene	16.60	278	48069	3.198	ng	# 84
92) Benzo(g,h,i)perylene	17.01	276	201787	13.153	ng	98

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

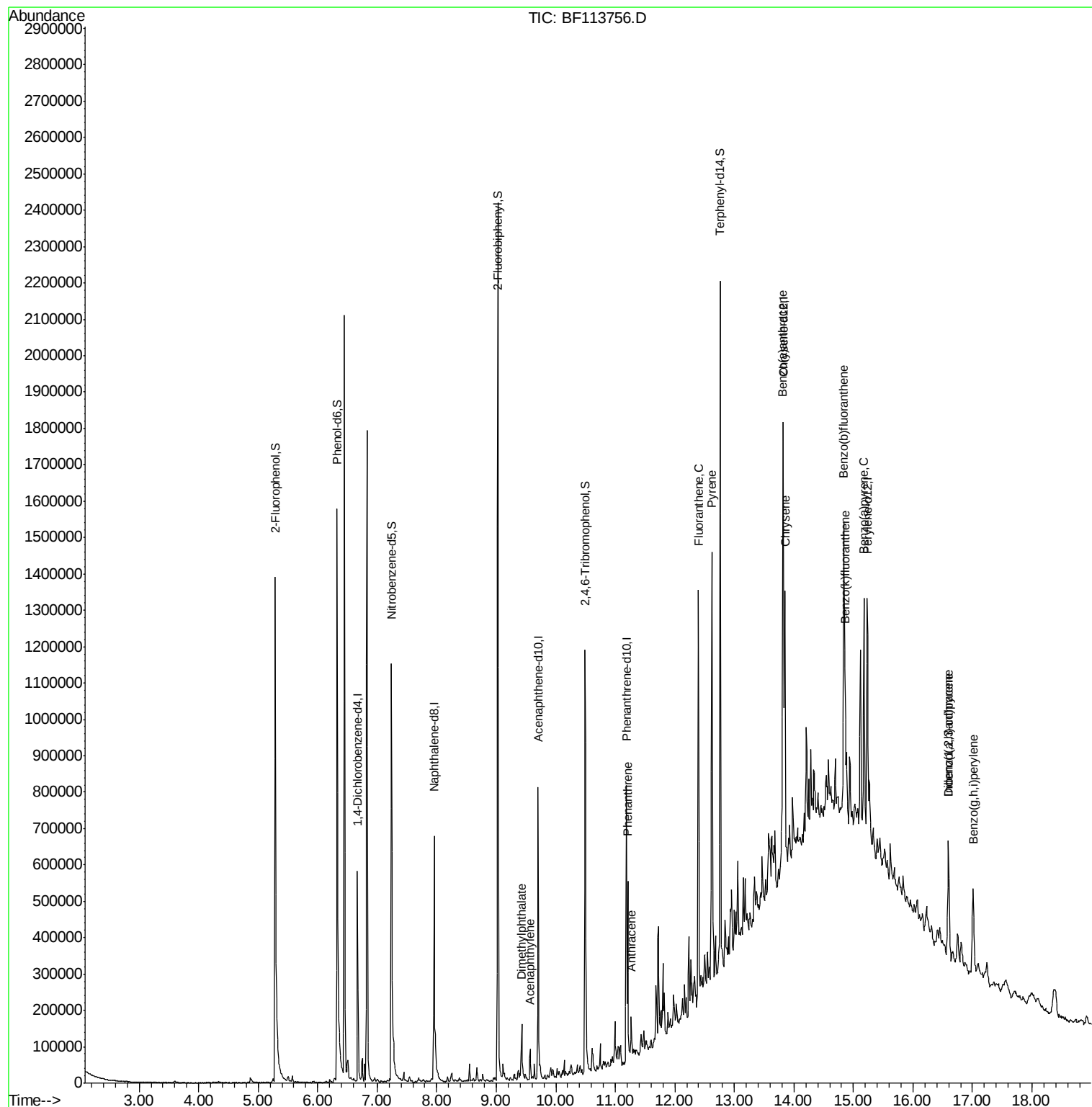
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041219\
Data File : BF113756.D
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#1

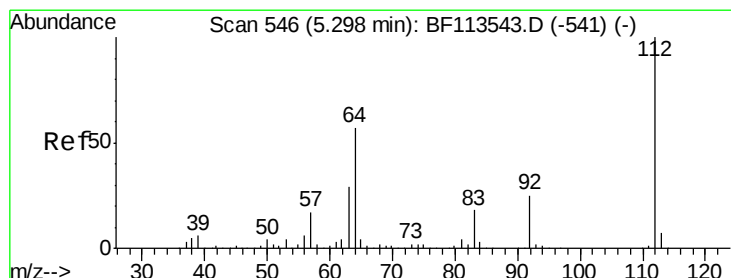
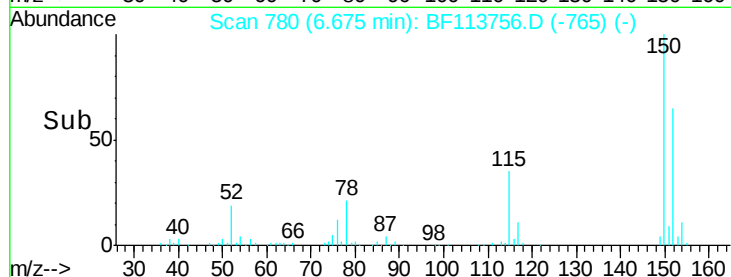
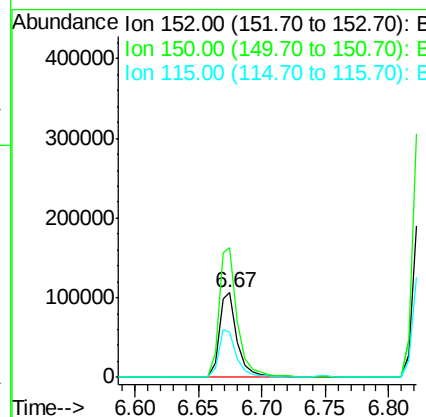
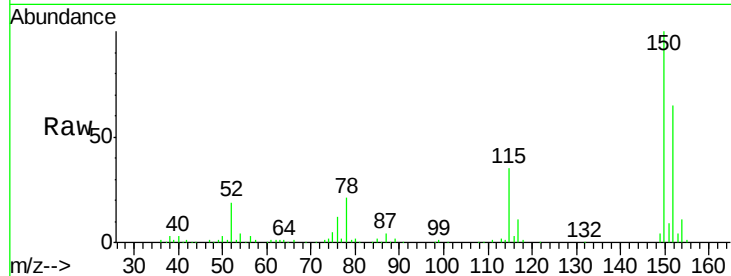
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.67 min Scan# 780
Delta R.T. -0.01 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampled :
TP-4-S

Tgt Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.7	187.1
115	53.5	46.0	69.0

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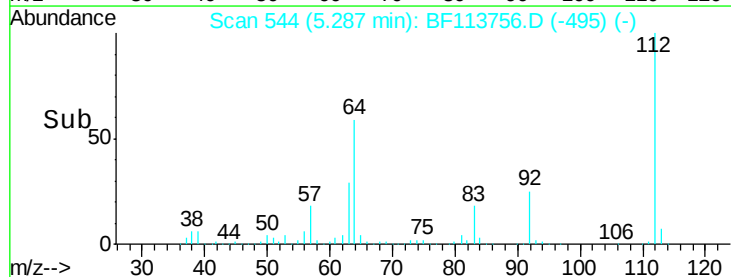
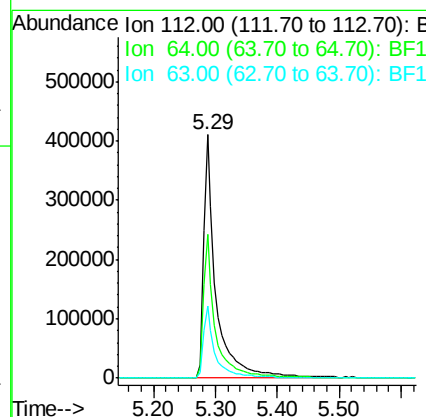
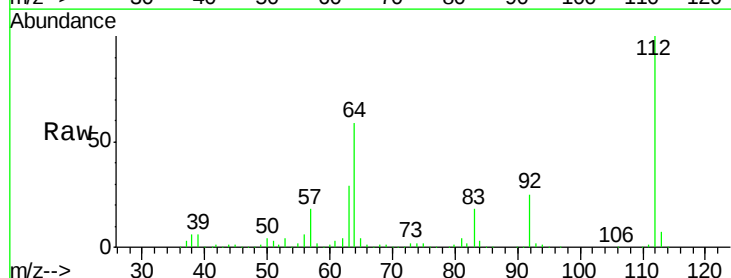
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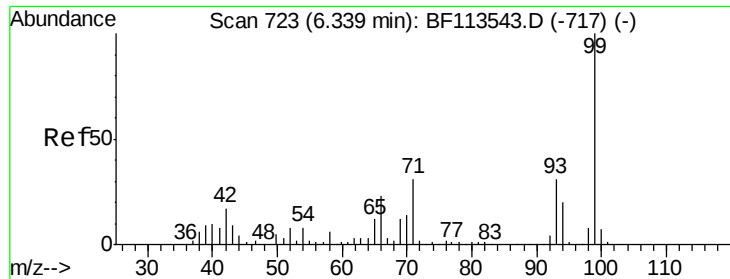


#5

2-Fluorophenol
Concen: 92.967 ng
RT: 5.29 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.1	49.2	73.8
63	29.5	24.9	37.3





#7

Phenol-d6

Concen: 101.508 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

Instrument :

BNA_F

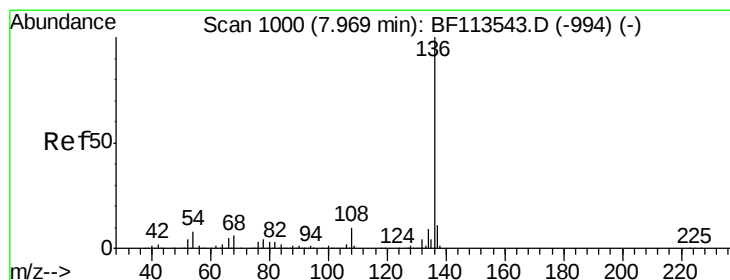
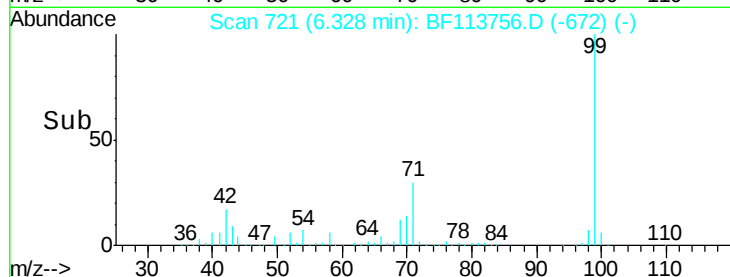
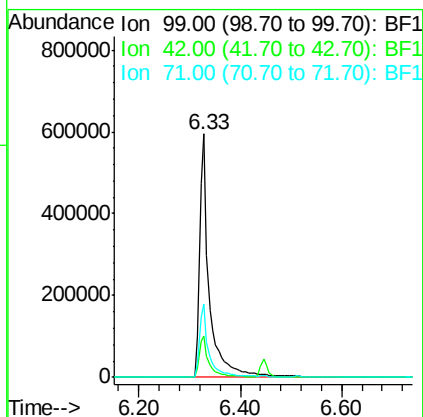
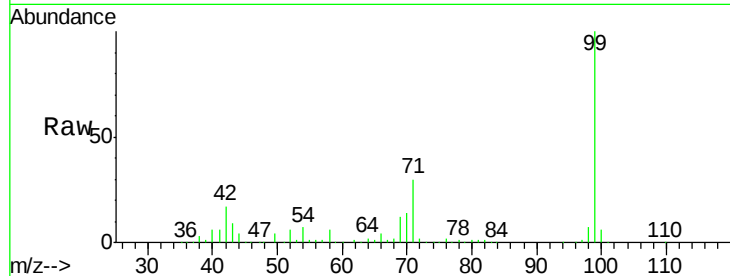
ClientSampled :

TP-4-S

Tgt Ion:	99	Resp:	790572
Ion Ratio	Lower	Upper	
99	100		
42	17.3	14.8	22.2
71	30.1	24.9	37.3

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#21

Naphthalene-d8

Concen: 20.000 ng

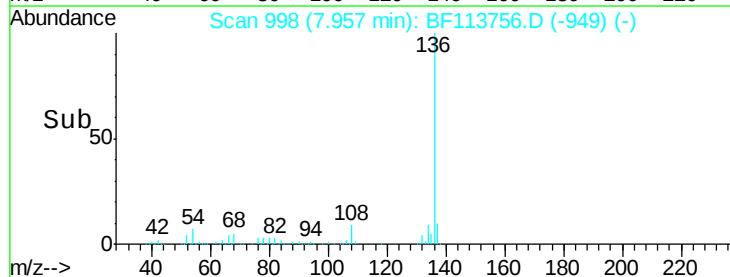
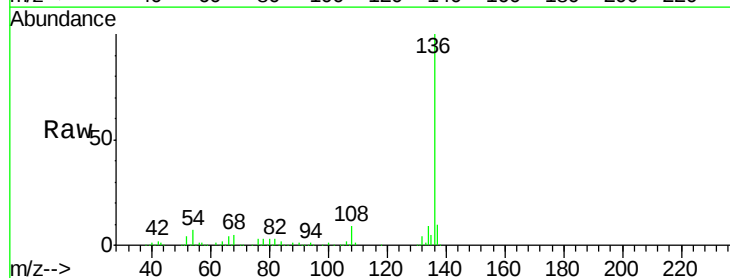
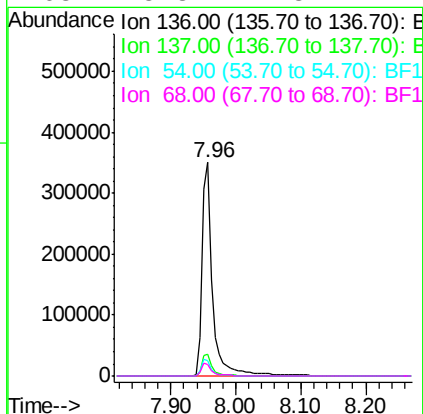
RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

Tgt Ion:	136	Resp:	393055
Ion Ratio	Lower	Upper	
136	100		
137	10.5	8.9	13.3
54	7.0	7.0	10.6
68	5.3	4.8	7.2





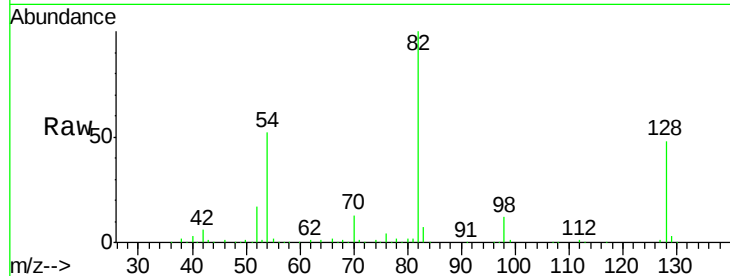
#23
 Nitrobenzene-d5
 Concen: 68.288 ng
 RT: 7.24 min Scan# 876
 Delta R.T. -0.02 min
 Lab File: BF113756.D
 Acq: 12 Apr 2019 23:51

Instrument :
 BNA_F
 ClientSampleID :
 TP-4-S

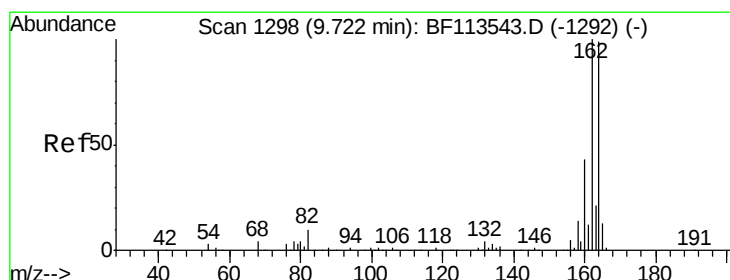
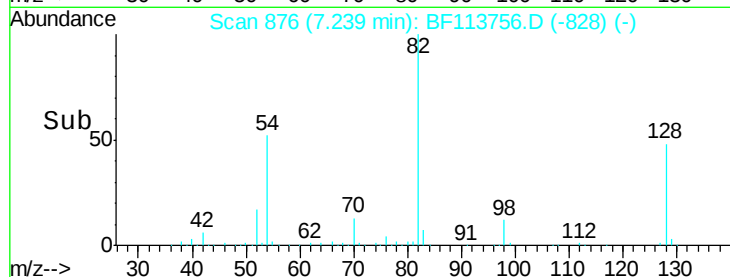
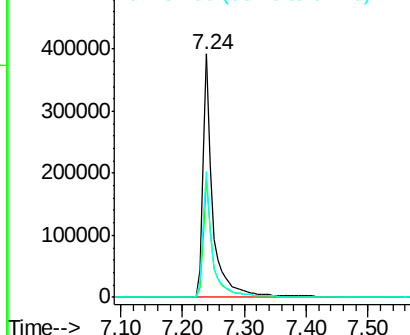
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.9	36.5	54.7
54	51.7	42.2	63.2

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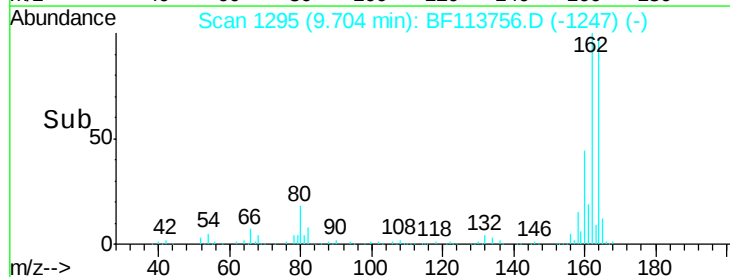
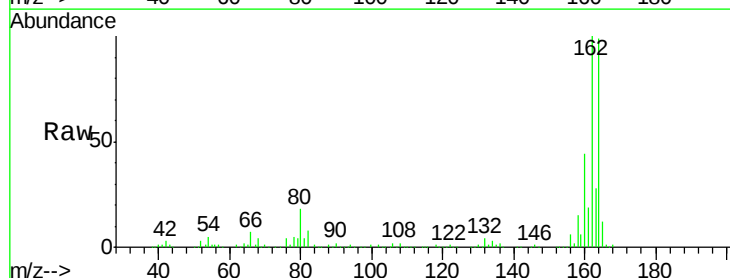
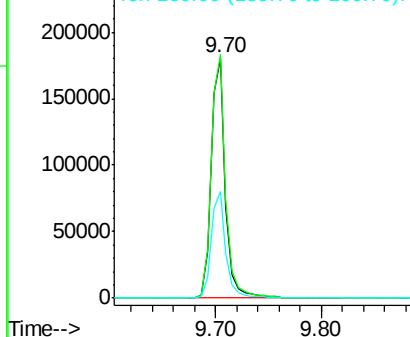
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.02 min
 Lab File: BF113756.D
 Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.8	122.6
160	44.4	36.4	54.6

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





#42

2,4,6-Tribromophenol

Concen: 86.283 ng

RT: 10.49 min Scan# 1429

Delta R.T. -0.02 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

Instrument :

BNA_F

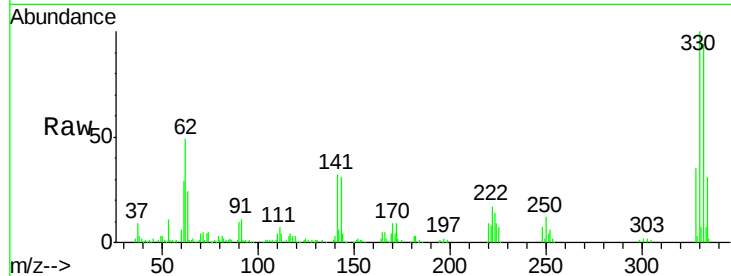
ClientSampled :

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Tgt Ion:	330	Resp:	176629
Ion Ratio	Lower	Upper	
330	100		
332	96.5	77.8	116.6
141	29.7	22.7	34.1

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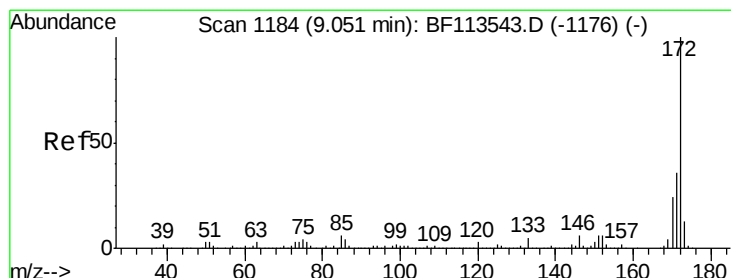
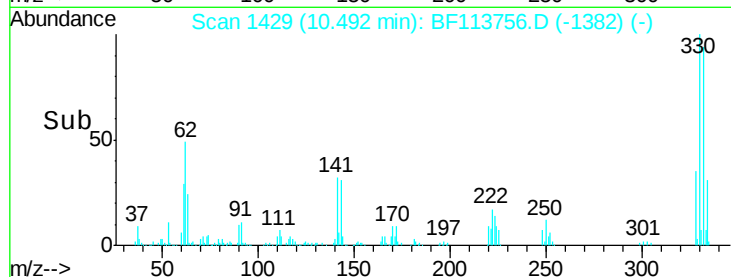
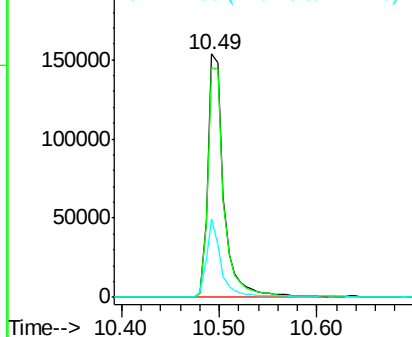


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 72.551 ng

RT: 9.03 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

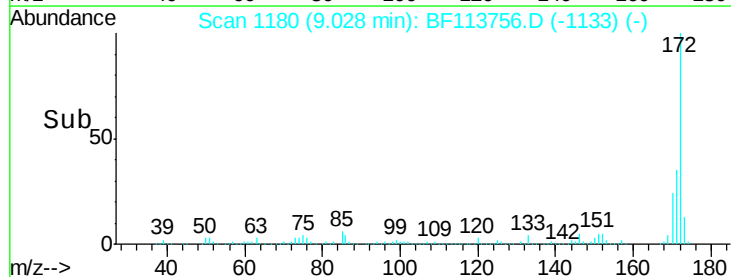
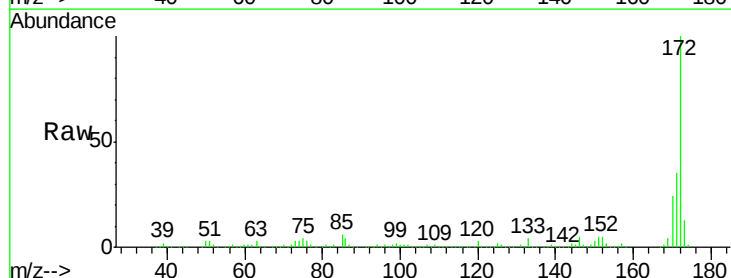
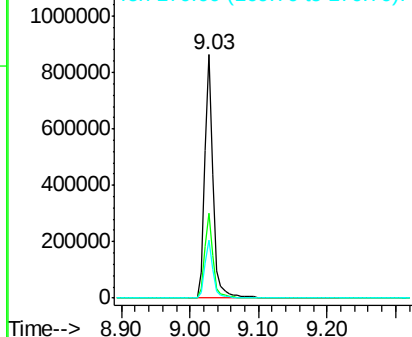
Tgt Ion:	172	Resp:	767979
Ion Ratio	Lower	Upper	
172	100		
171	35.1	29.0	43.6
170	23.7	19.5	29.3

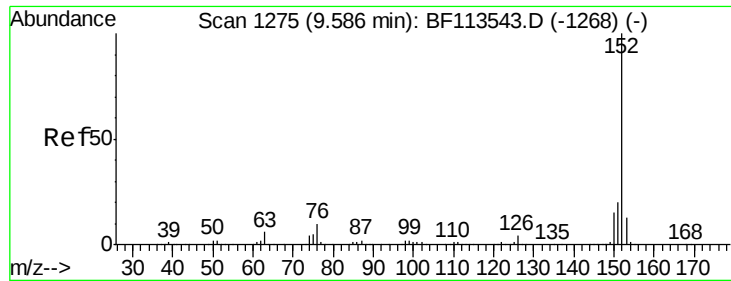
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 2.134 ng

RT: 9.57 min Scan# 1272

Delta R.T. -0.02 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

Instrument :

BNA_F

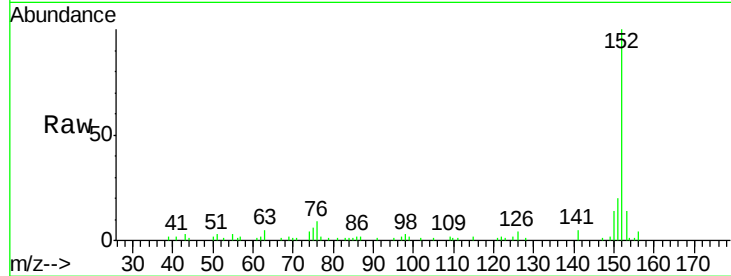
ClientSampleId :

TP-4-S

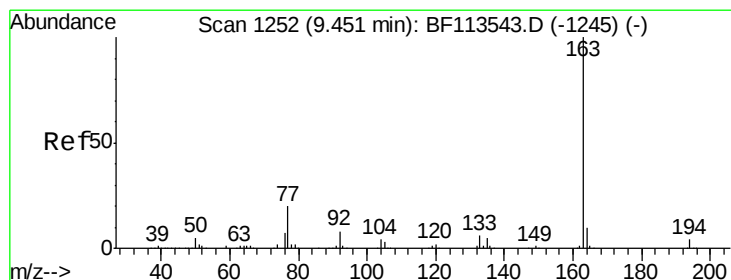
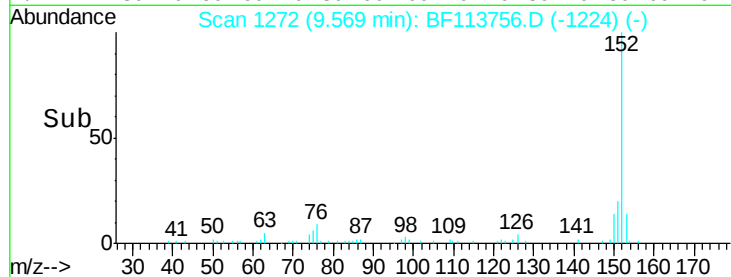
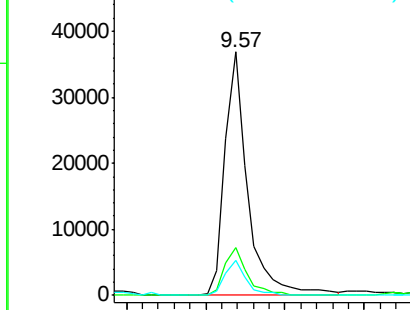
Tgt Ion:	152	Resp:	36944
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.2	24.4
153	14.1	11.0	16.6

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 5.221 ng

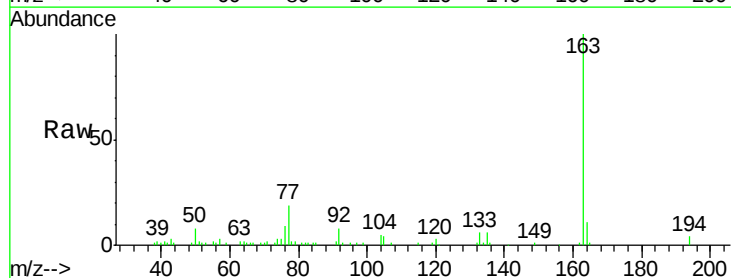
RT: 9.43 min Scan# 1248

Delta R.T. -0.02 min

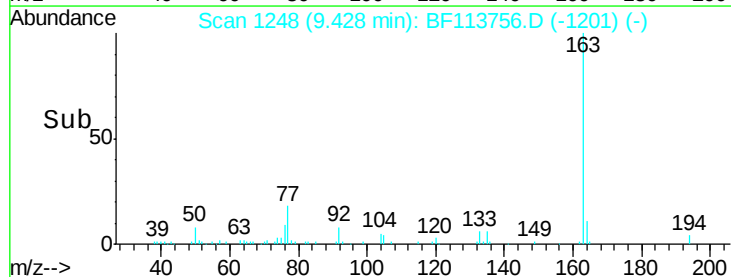
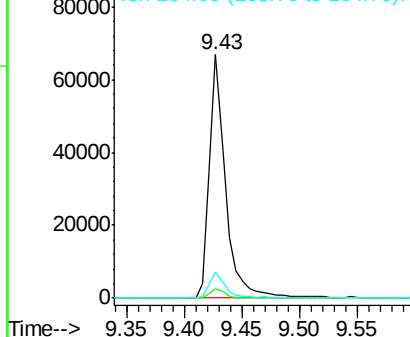
Lab File: BF113756.D

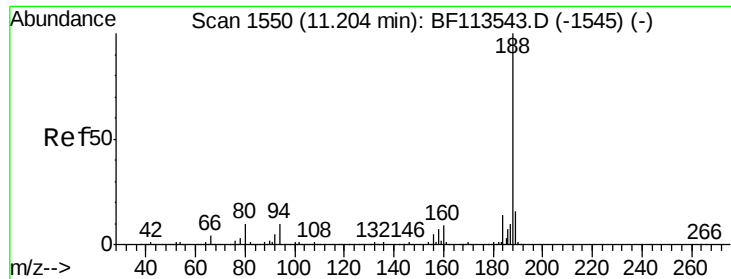
Acq: 12 Apr 2019 23:51

Tgt Ion:	163	Resp:	65591
Ion Ratio	Lower	Upper	
163	100		
194	4.1	3.0	4.6
164	10.9	8.1	12.1



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





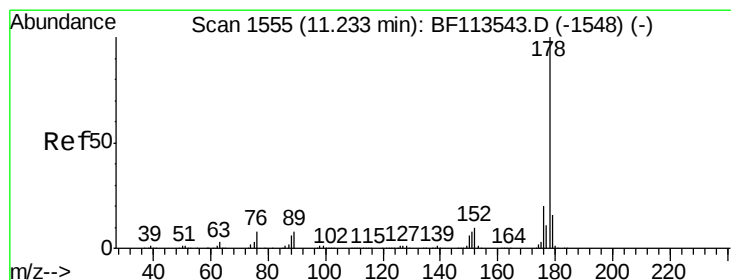
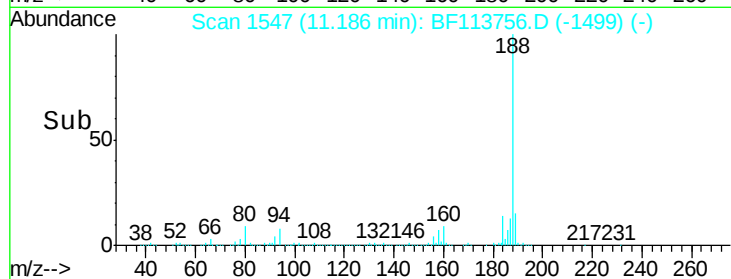
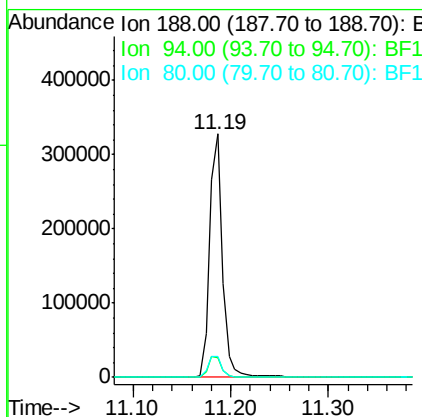
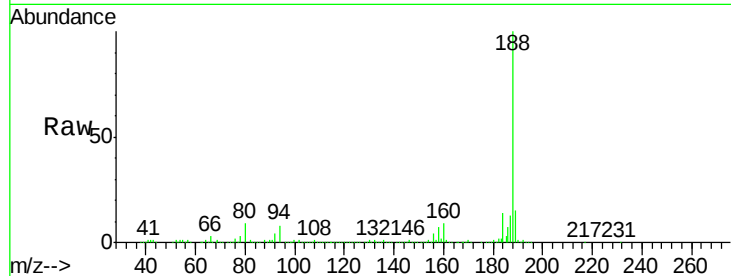
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.19 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

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Tgt Ion	Ratio	Resp	Lower	Upper
188	100	300834		
94	8.3		7.0	10.6
80	8.6		7.7	11.5

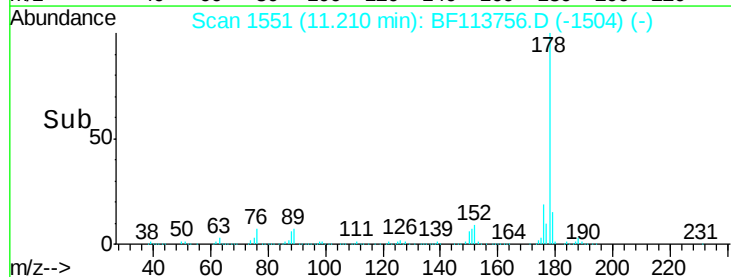
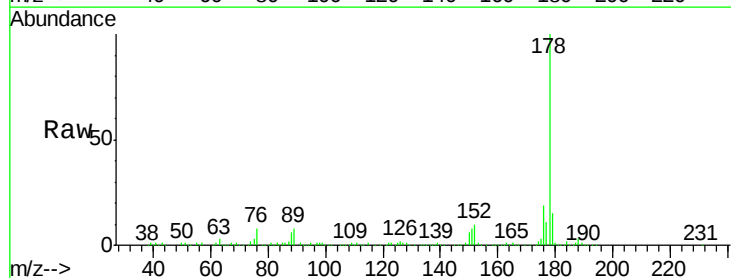
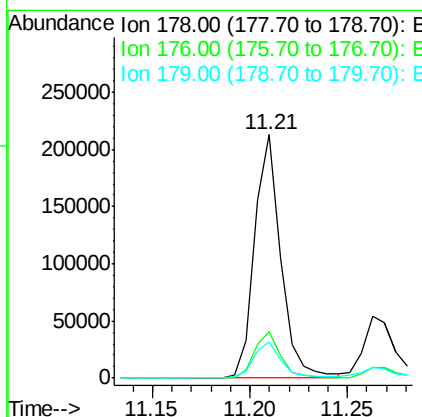
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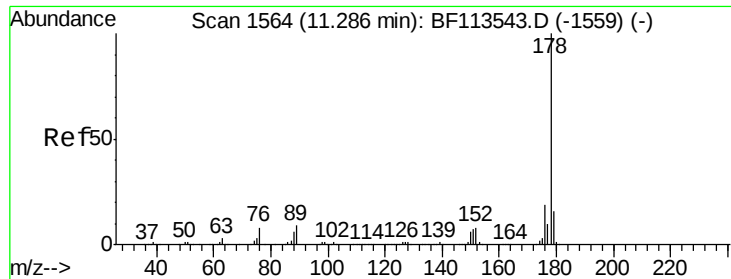
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#71
Phenanthrene
Concen: 13.198 ng
RT: 11.21 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	197298		
176	19.1		16.2	24.2
179	15.1		12.7	19.1





#72

Anthracene

Concen: 4.006 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF113756.D

Acq: 12 Apr 2019 23:51

Instrument :

BNA_F

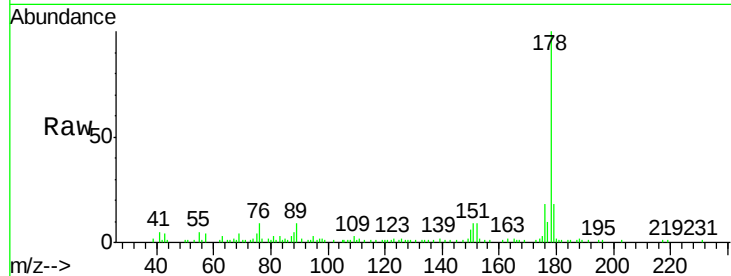
ClientSampled :

TP-4-S

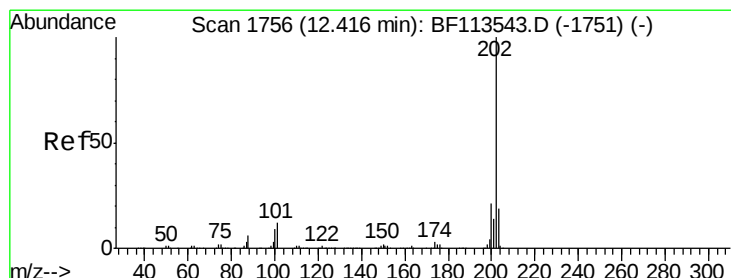
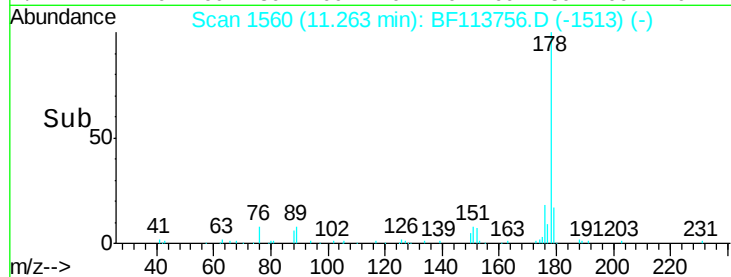
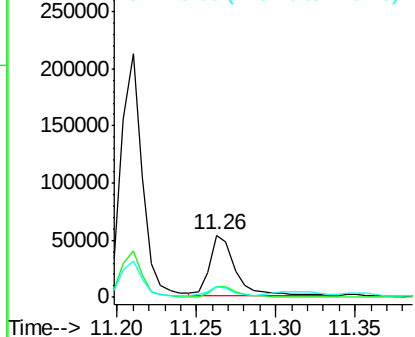
Tgt Ion:	178	Resp:	60929
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.4	23.2
179	18.0	12.8	19.2

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 30.160 ng

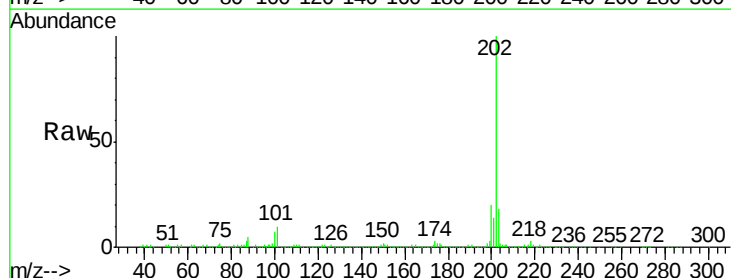
RT: 12.40 min Scan# 1753

Delta R.T. -0.02 min

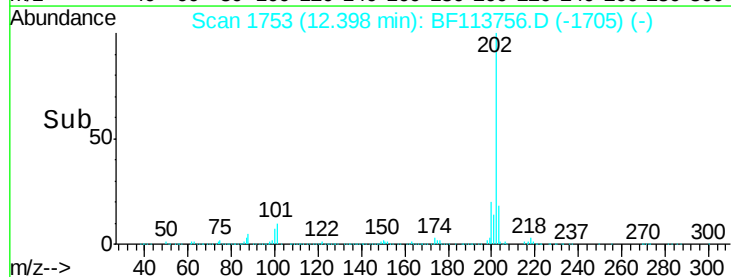
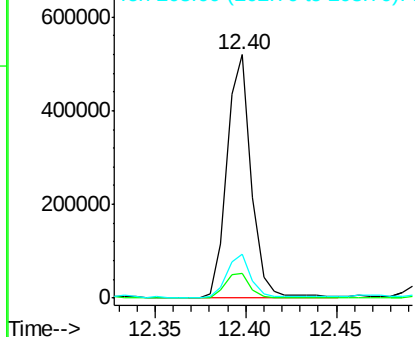
Lab File: BF113756.D

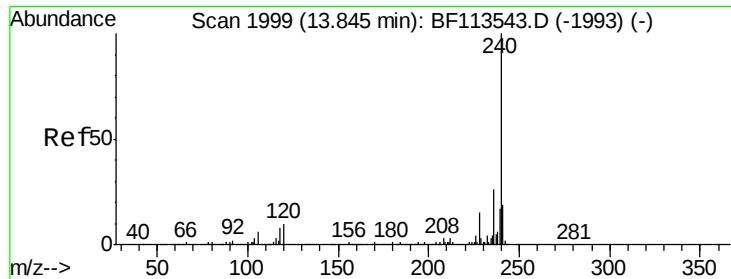
Acq: 12 Apr 2019 23:51

Tgt Ion:	202	Resp:	483121
Ion Ratio	Lower	Upper	
202	100		
101	10.0	0.0	31.4
203	17.8	0.0	38.0



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





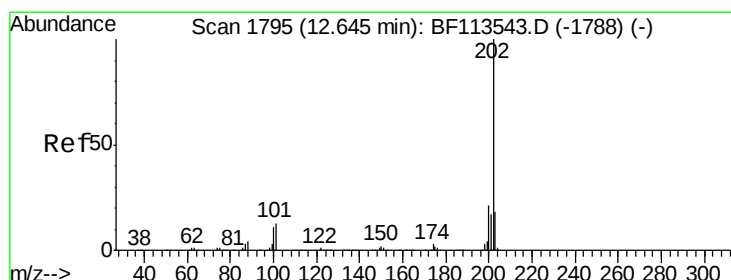
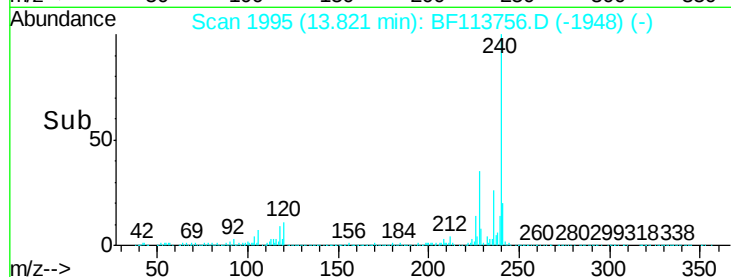
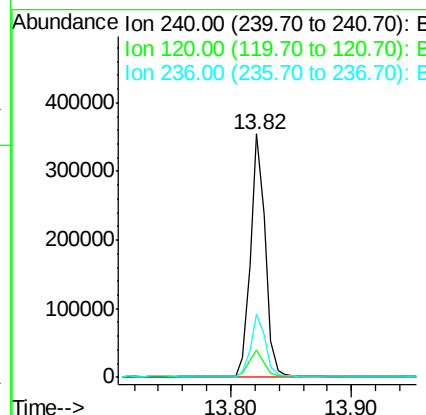
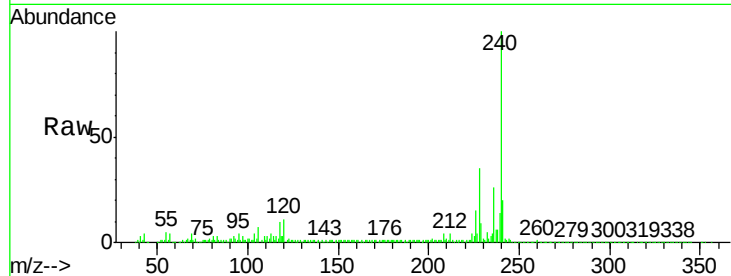
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.82 min Scan# 1995
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampleId :
TP-4-S

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	303843		
120	11.0	8.8	13.2	
236	25.7	20.9	31.3	

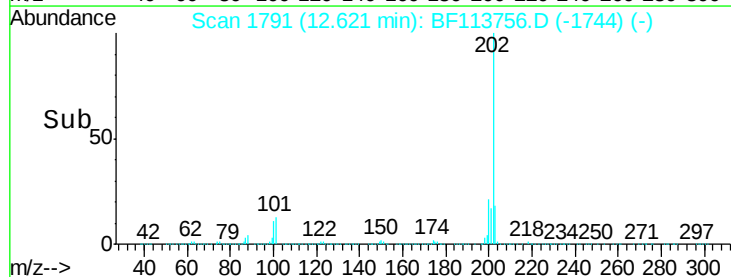
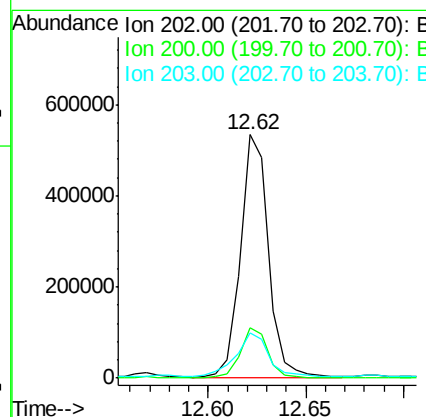
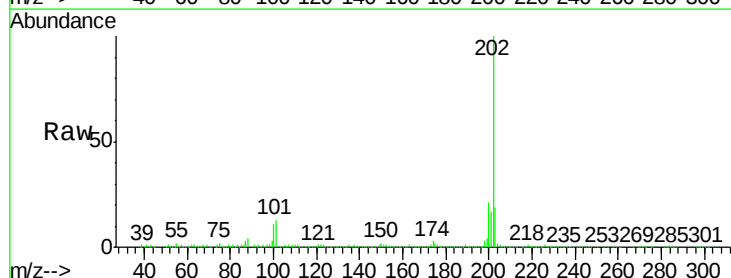
Manual Integrations
APPROVED

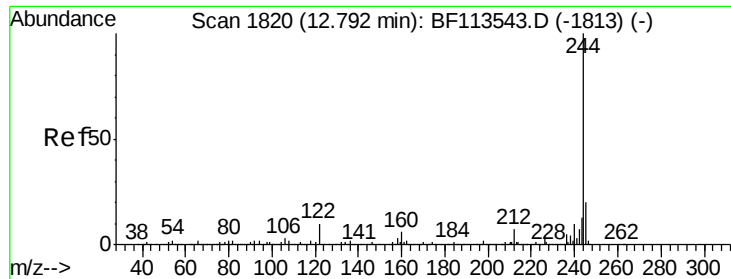
Sohil
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#78
Pyrene
Concen: 22.787 ng
RT: 12.62 min Scan# 1791
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	526809		
200	20.6	16.8	25.2	
203	18.5	14.4	21.6	





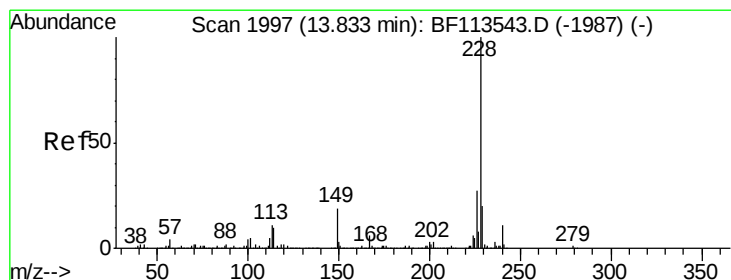
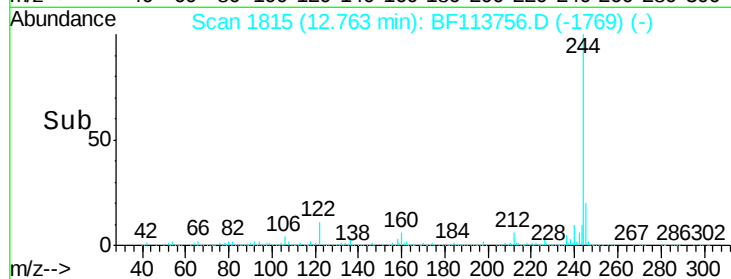
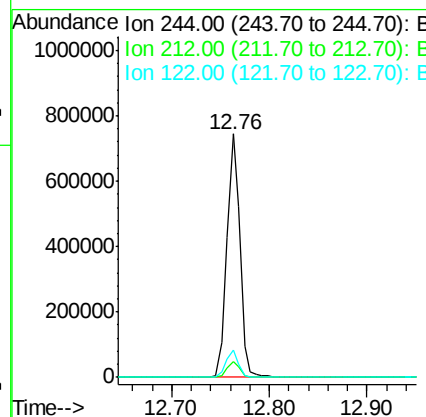
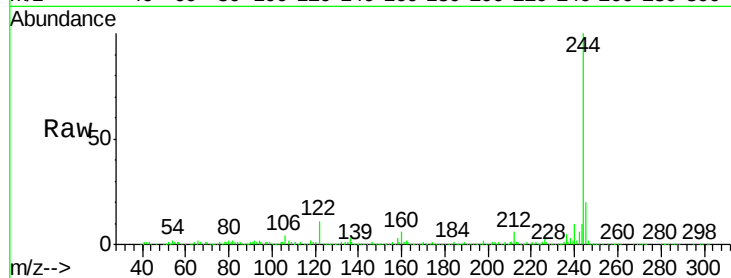
#79
 Terphenyl-d14
 Concen: 46.084 ng
 RT: 12.76 min Scan# 1815
 Delta R.T. -0.03 min
 Lab File: BF113756.D
 Acq: 12 Apr 2019 23:51

Instrument :
 BNA_F
 ClientSampled :
 TP-4-S

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.5	8.3
122	11.0	8.6	13.0

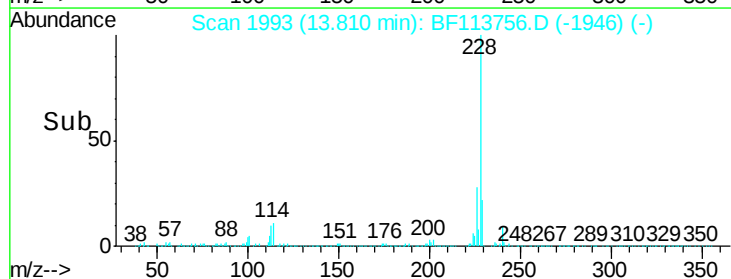
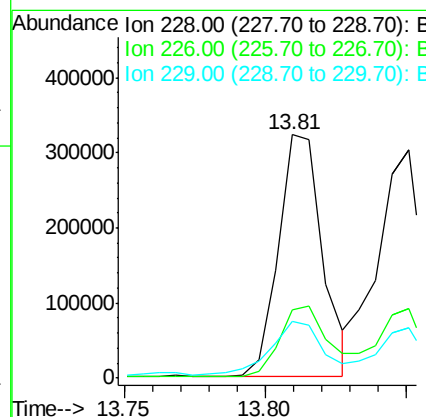
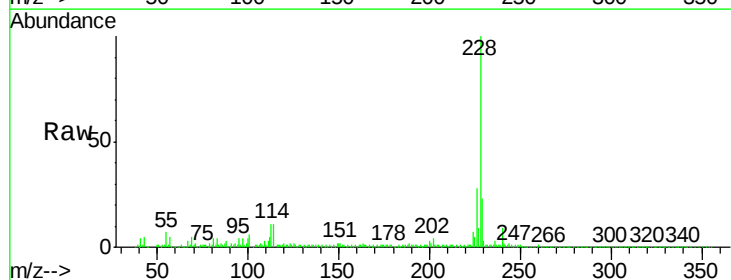
Manual Integrations
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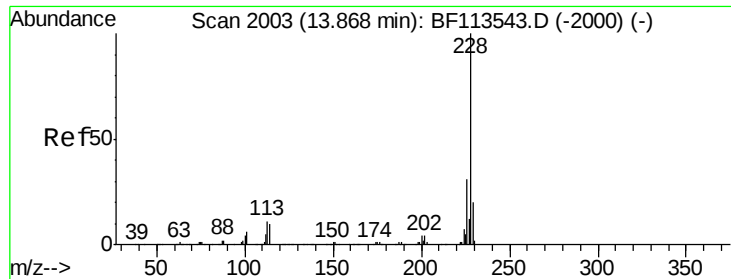
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#81
 Benzo(a)anthracene
 Concen: 19.867 ng
 RT: 13.81 min Scan# 1993
 Delta R.T. -0.02 min
 Lab File: BF113756.D
 Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	21.8	32.8
229	23.4	16.2	24.4





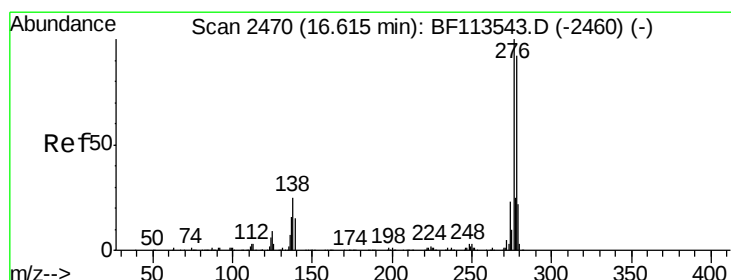
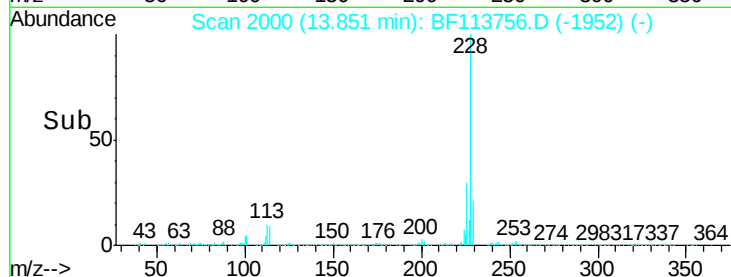
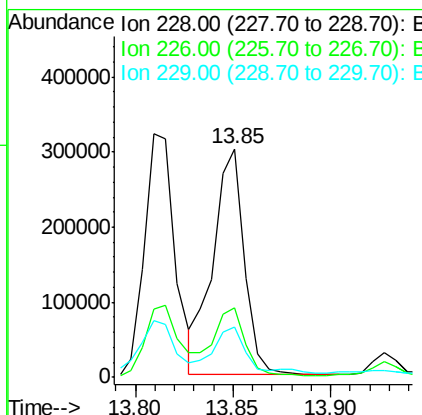
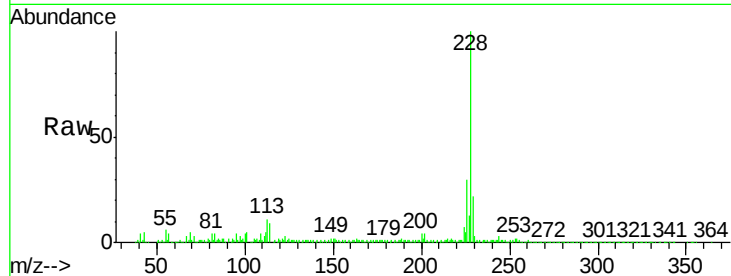
#83
Chrysene
Concen: 18.946 ng
RT: 13.85 min Scan# 2000
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampleId :
TP-4-S

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	336628		
226	30.3	24.3	36.5	
229	22.1	16.3	24.5	

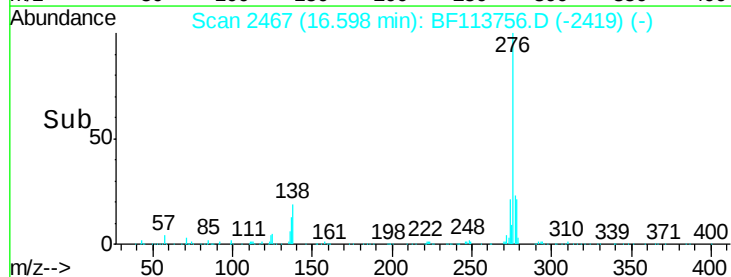
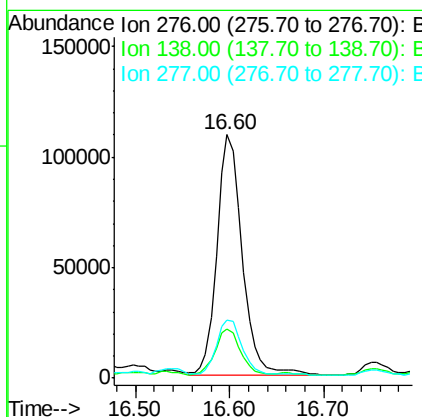
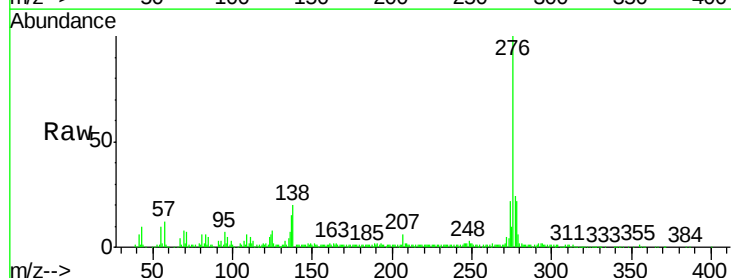
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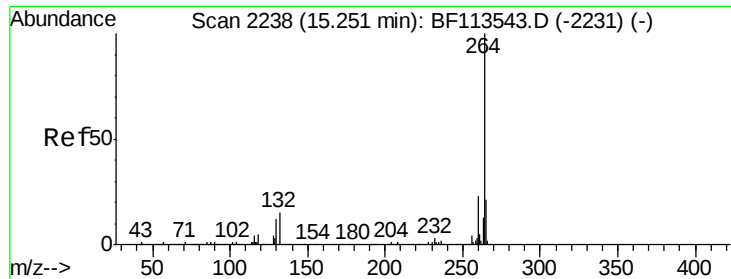
Sohil
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#86
Indeno(1,2,3-cd)pyrene
Concen: 12.643 ng
RT: 16.60 min Scan# 2467
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	207410		
138	19.0	18.1	27.1	
277	22.0	20.2	30.4	





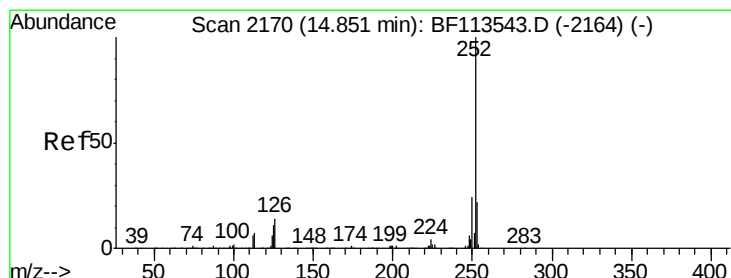
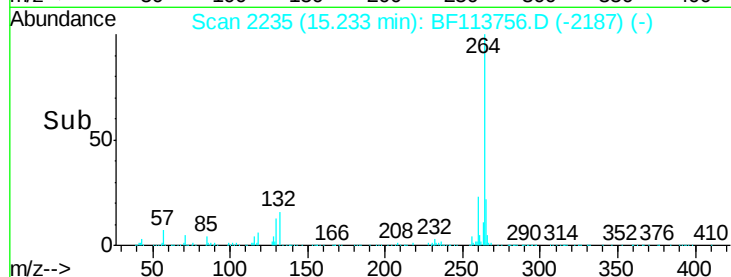
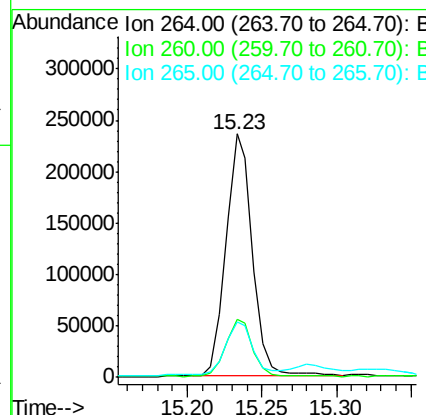
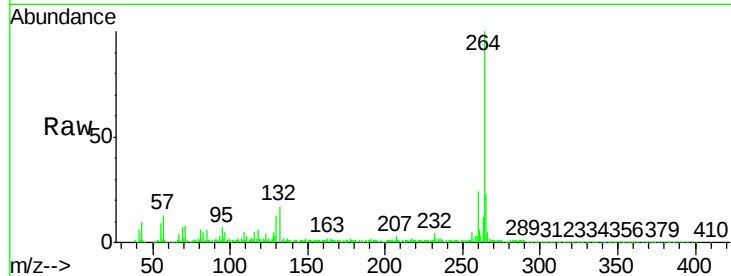
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampleId :
TP-4-S

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	295493		
260	23.8	19.1	28.7	
265	22.9	17.1	25.7	

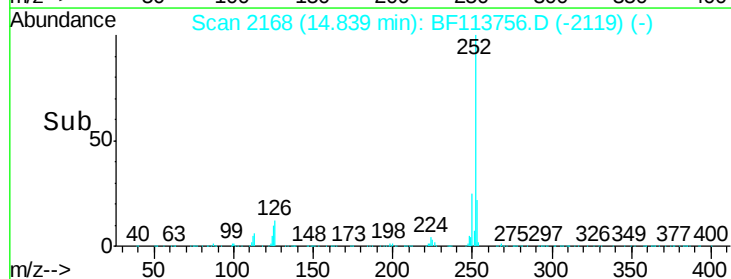
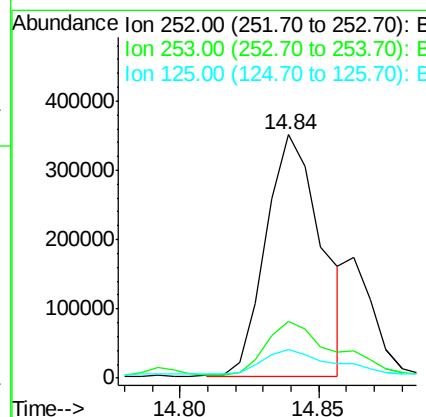
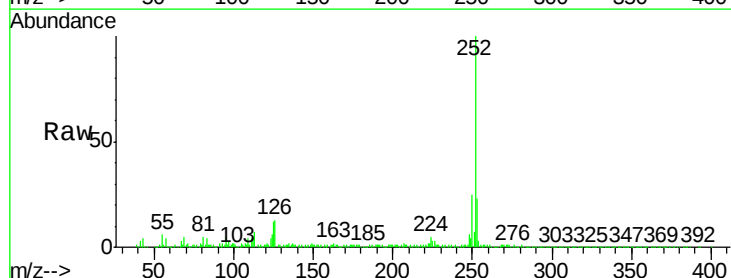
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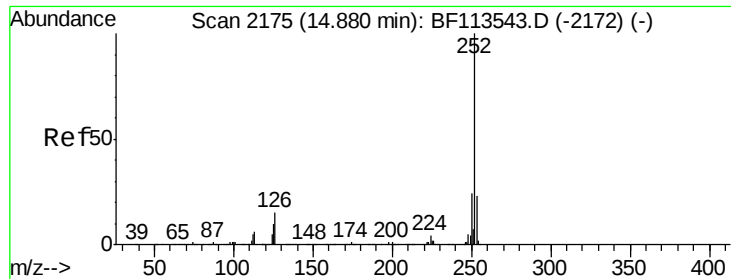
Sohil
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#88
Benzo(b)fluoranthene
Concen: 26.918 ng m
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	486885		
253	23.2	18.0	27.0	
125	11.8	7.6	11.4#	





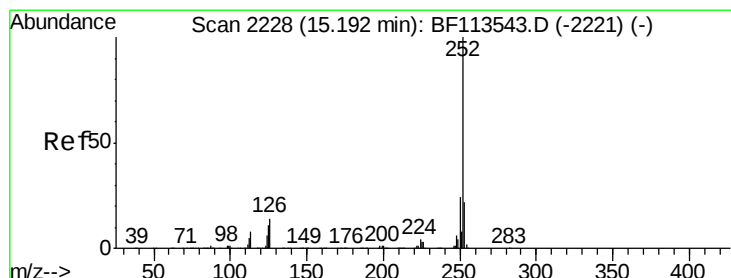
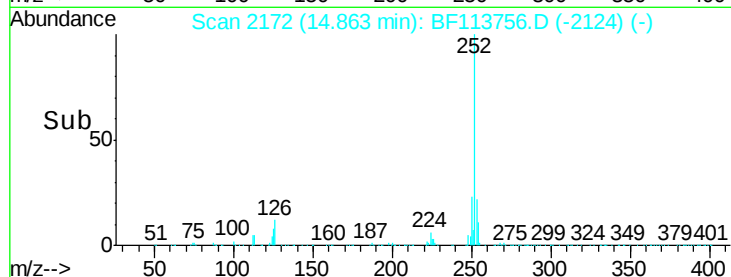
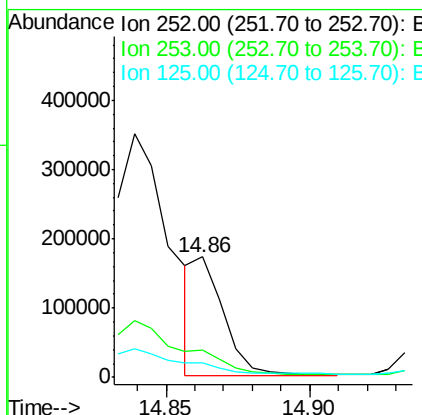
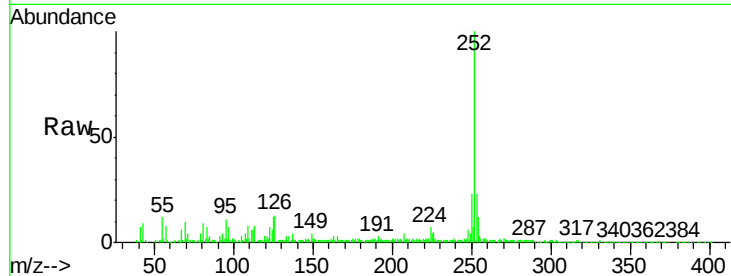
#89
Benzo(k)fluoranthene
Concen: 7.533 ng m
RT: 14.86 min Scan# 2172
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampled :
TP-4-S

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.7	26.5
125	11.8	7.3	10.9

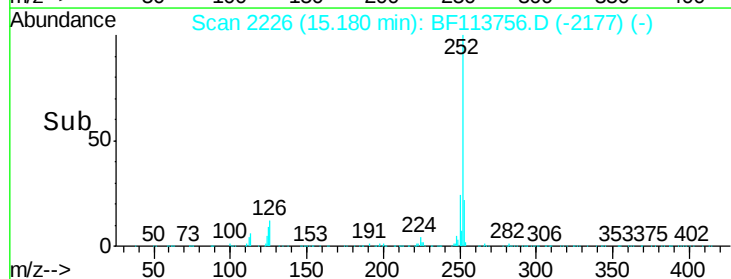
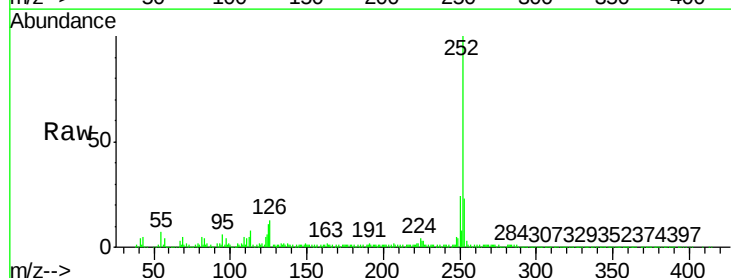
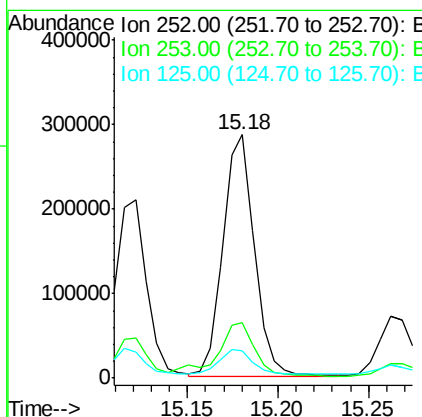
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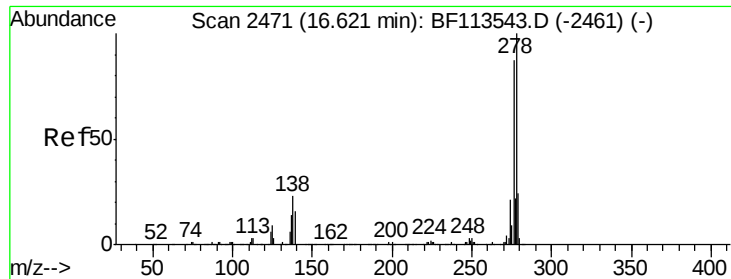
Sohil
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#90
Benzo(a)pyrene
Concen: 21.567 ng
RT: 15.18 min Scan# 2226
Delta R.T. -0.01 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	11.0	8.8	13.2





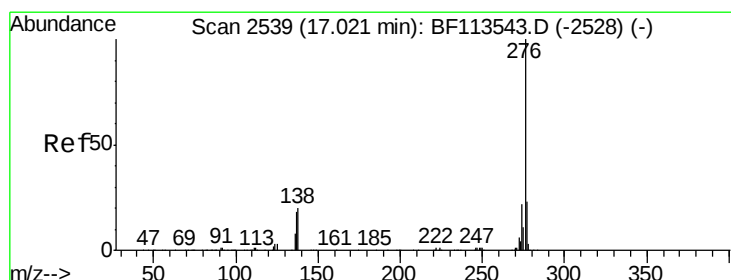
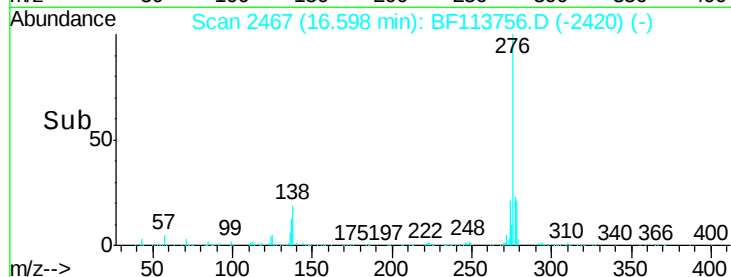
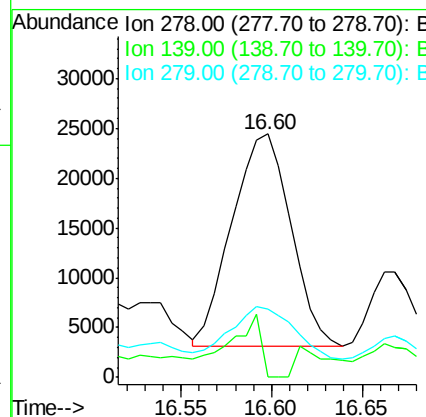
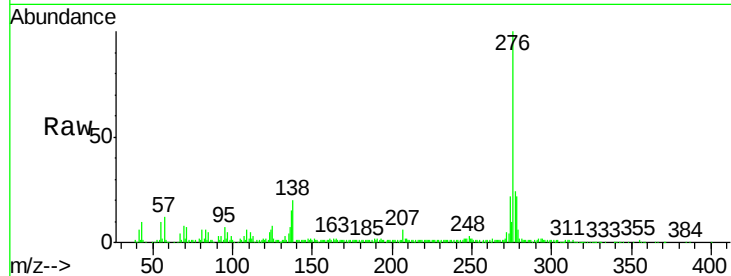
#91
Dibenzo(a,h)anthracene
Concen: 3.198 ng
RT: 16.60 min Scan# 2467
Delta R.T. -0.02 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Instrument :
BNA_F
ClientSampleId :
TP-4-S

Tgt Ion	Ratio	Lower	Upper
278	100		
139	3.8	12.0	18.0#
279	28.0	19.0	28.6

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 13.153 ng
RT: 17.01 min Scan# 2537
Delta R.T. -0.01 min
Lab File: BF113756.D
Acq: 12 Apr 2019 23:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	19.1	15.6	23.4

