

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
 Data File : BF118877.D
 Acq On : 10 Feb 2020 19:16
 Operator : CG/JU
 Sample : L1470-11
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PE-6A-(DUPLICATE)

Manual Integrations
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mohammad
 2/13/2020 10:28:50 AM

Quant Time: Feb 11 00:55:03 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 03 16:26:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	204965	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	999345	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	455105	20.00	ng	-0.01
64) Phenanthrene-d10	11.33	188	897962	20.00	ng	0.00
76) Chrysene-d12	13.97	240	629390	20.00	ng	0.00
87) Perylene-d12	15.42	264	855811	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	1055901	97.52	ng	0.00
7) Phenol-d6	6.45	99	1269461	94.44	ng	0.00
23) Nitrobenzene-d5	7.37	82	1071712	63.92	ng	0.00
42) 2,4,6-Tribromophenol	10.64	330	538075	98.81	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	1794240	70.48	ng	-0.01
79) Terphenyl-d14	12.92	244	2275348	74.26	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.12	128	97655	2.137	ng	98
37) 2-Methylnaphthalene	8.81	142	68546	2.162	ng	96
49) Acenaphthylene	9.71	152	117171	3.101	ng	99
50) Dimethylphthalate	9.56	163	69765	2.251	ng	98
52) Acenaphthene	9.88	154	72991	2.931	ng	97
55) Dibenzofuran	10.05	168	100197	2.784	ng	94
58) Fluorene	10.39	166	171829	6.347	ng	97
71) Phenanthrene	11.36	178	1648352	37.309	ng	99
72) Anthracene	11.41	178	447203	10.175	ng	97
75) Fluoranthene	12.55	202	2502885	51.886	ng	99
78) Pyrene	12.78	202	2161718	50.066	ng	99
81) Benzo(a)anthracene	13.96	228	1209323	32.290	ng	98
83) Chrysene	14.00	228	966104	25.702	ng	97
86) Indeno(1,2,3-cd)pyrene	16.86	276	706804	18.715	ng	94
88) Benzo(b)fluoranthene	15.00	252	1418796m	26.717	ng	
89) Benzo(k)fluoranthene	15.03	252	416643m	9.010	ng	
90) Benzo(a)pyrene	15.36	252	1276148	28.080	ng	98
91) Dibenzo(a,h)anthracene	16.86	278	172825m	4.284	ng	
92) Benzo(a,h,i)perylene	17.29	276	616462	15.888	ng	99

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

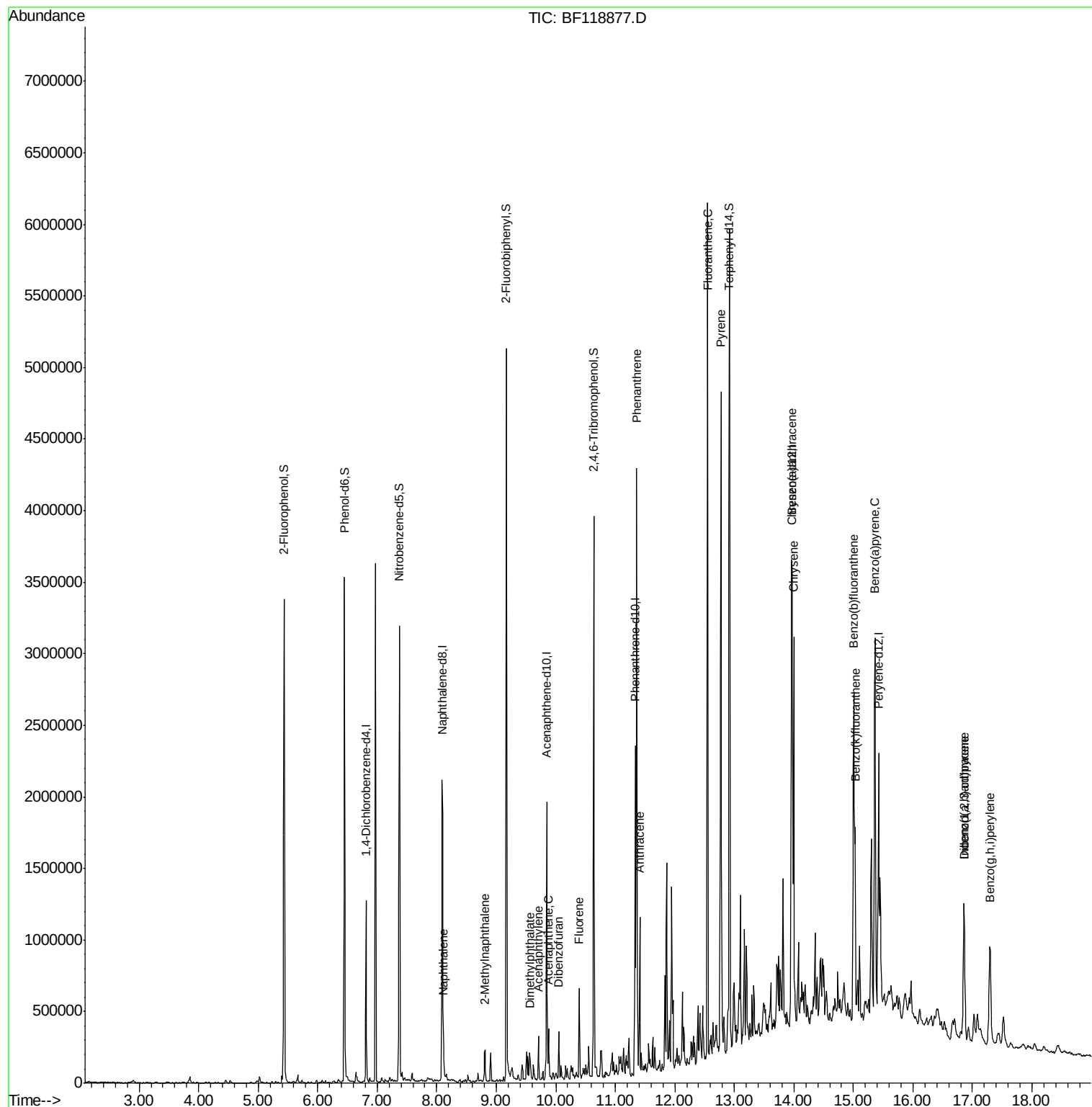
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

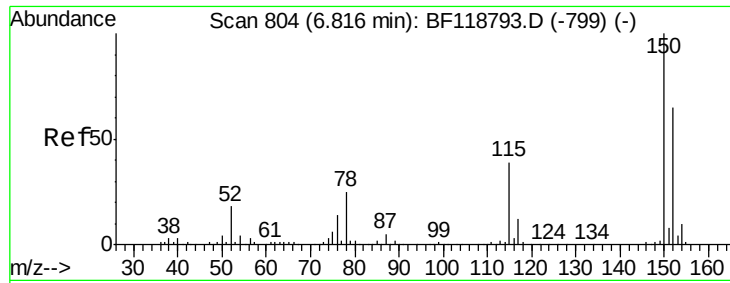
Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

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Quant Time: Feb 11 00:55:03 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 03 16:26:03 2020
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#1

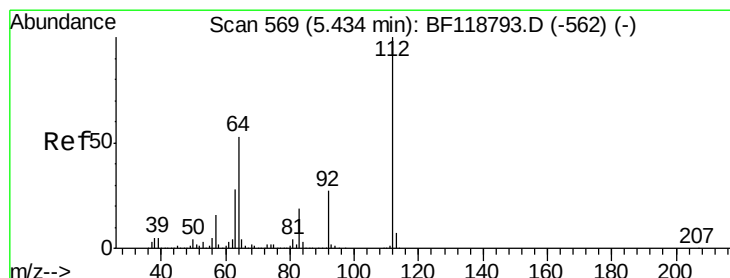
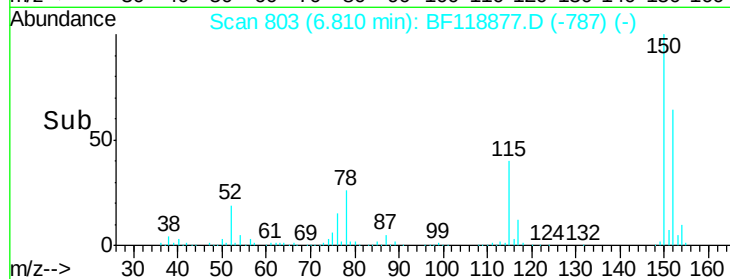
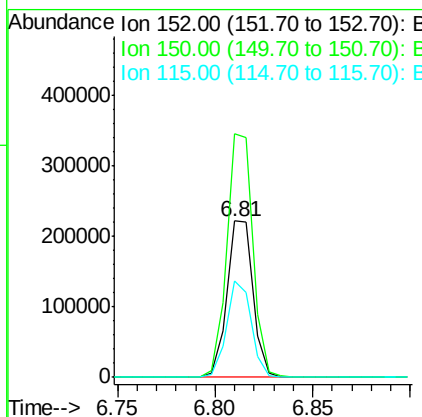
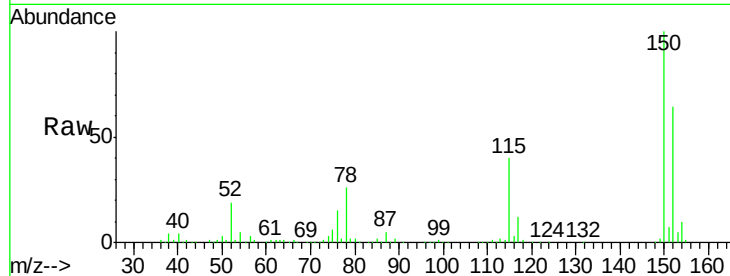
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	123.6	185.4
115	61.8	48.2	72.2

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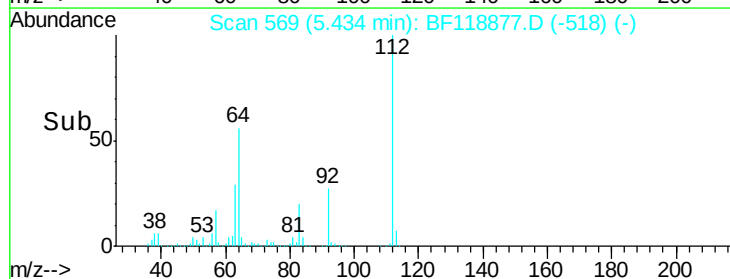
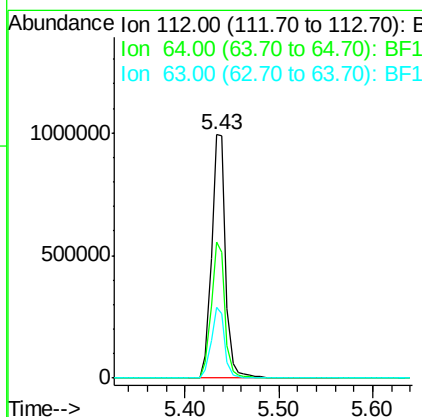
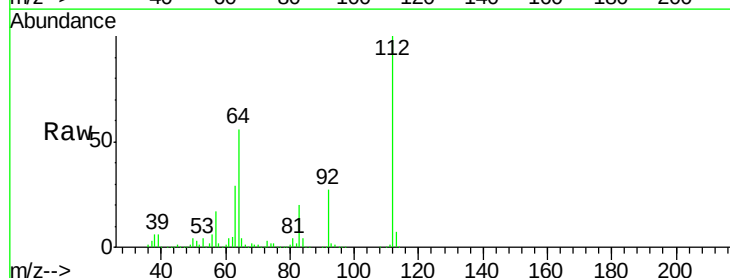
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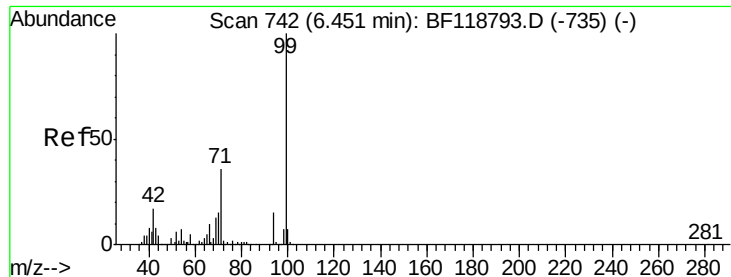


#5

2-Fluorophenol
Concen: 97.516 ng
RT: 5.43 min Scan# 569
Delta R.T. -0.00 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.0	42.6	63.8
63	29.1	22.2	33.4





#7

Phenol-d6

Concen: 94.445 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion: 99 Resp: 1269461

Ion Ratio Lower Upper

99 100

42 16.7 13.4 20.0

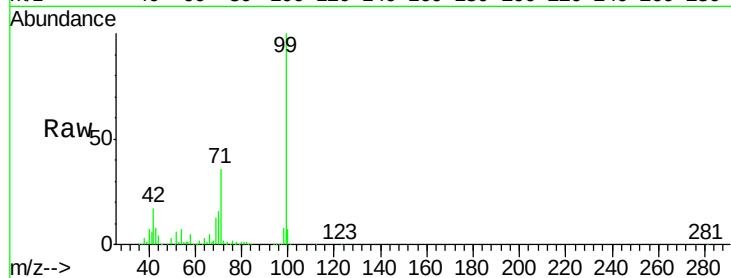
71 36.4 29.0 43.6

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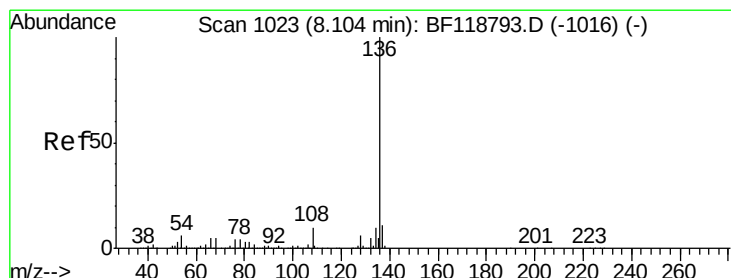
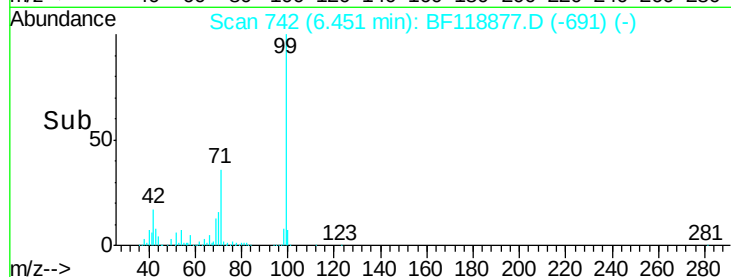
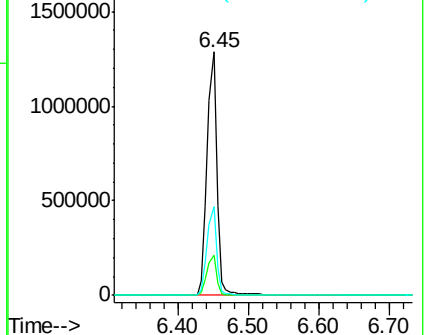
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion: 136 Resp: 999345

Ion Ratio Lower Upper

136 100

137 11.4 8.7 13.1

54 7.3 5.0 7.6

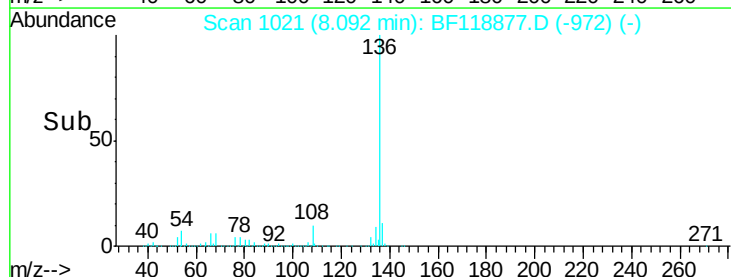
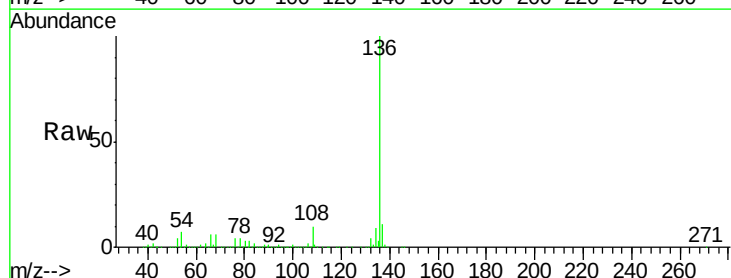
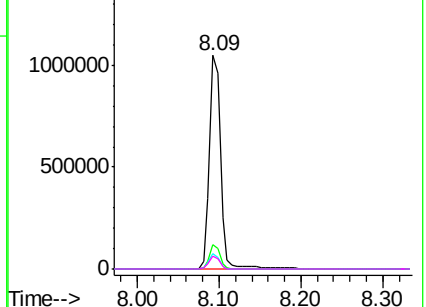
68 6.1 4.2 6.4

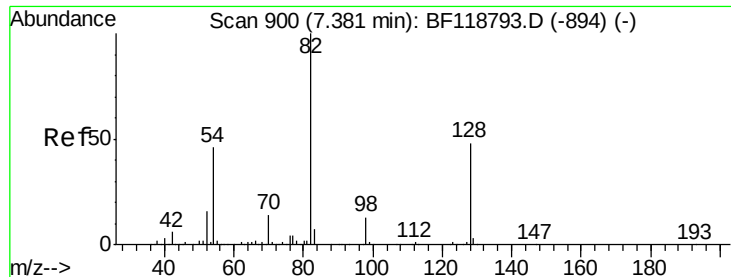
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





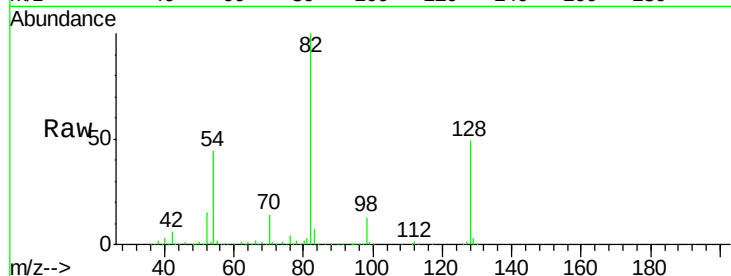
#23
Nitrobenzene-d5
Concen: 63.921 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

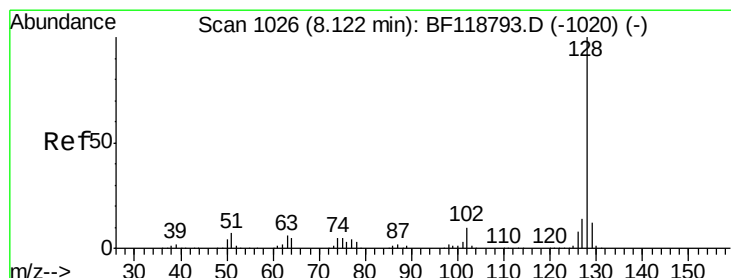
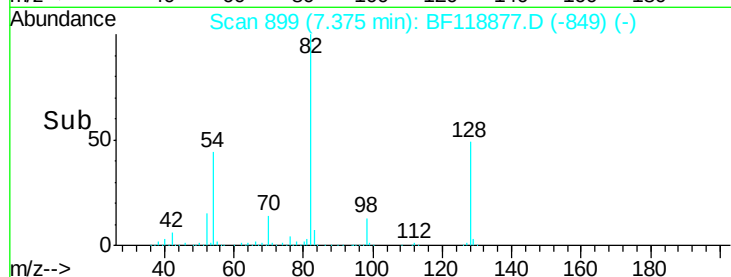
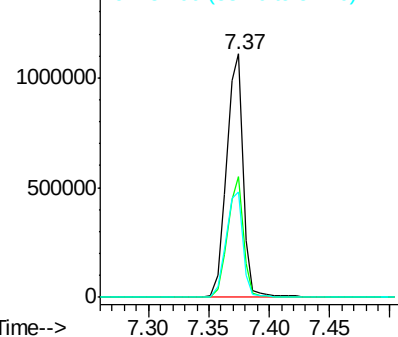
Tot Ion	Ratio	Lower	Upper
82	100		
128	49.5	38.5	57.7
54	43.5	36.7	55.1

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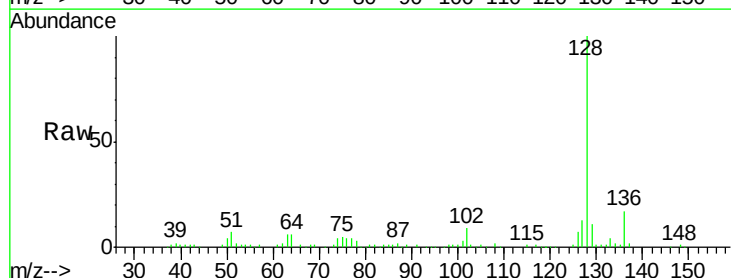


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

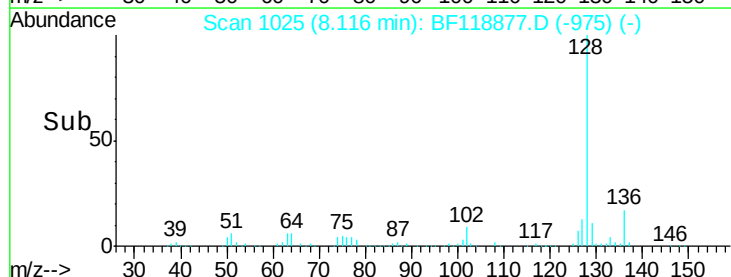
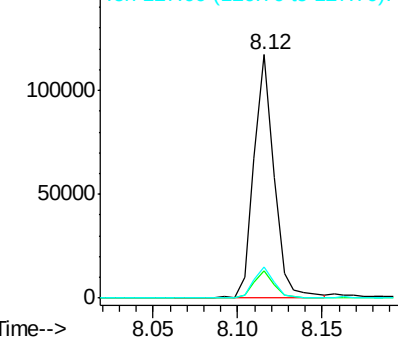


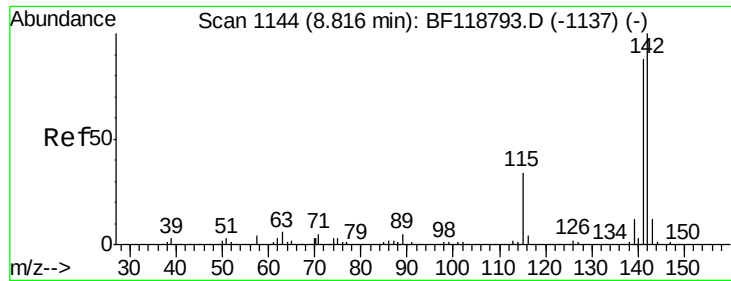
#31
Naphthalene
Concen: 2.137 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.4	14.2
127	13.0	11.3	16.9



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





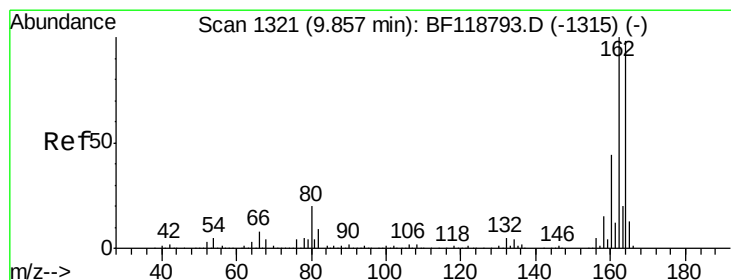
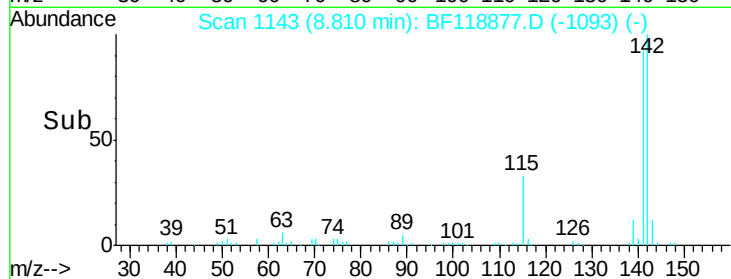
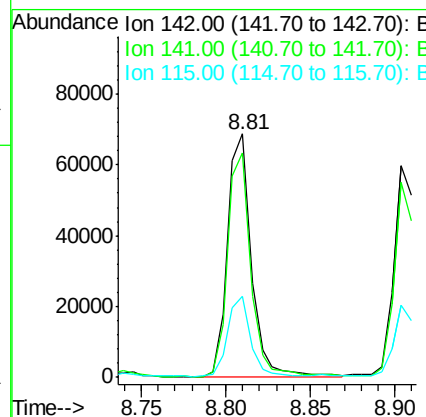
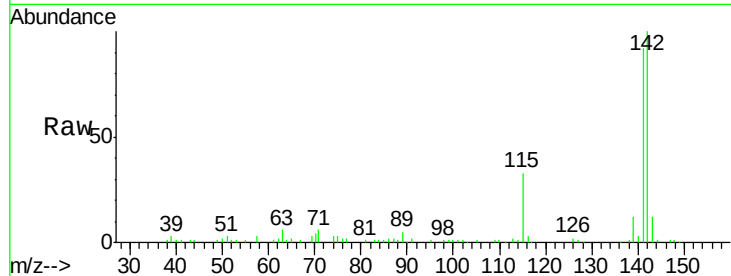
#37
2-Methylnaphthalene
Concen: 2.162 ng
RT: 8.81 min Scan# 1143
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
142	100		
141	92.3	70.1	105.1
115	33.4	27.3	40.9

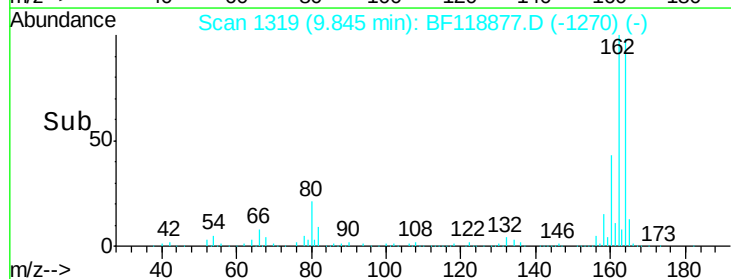
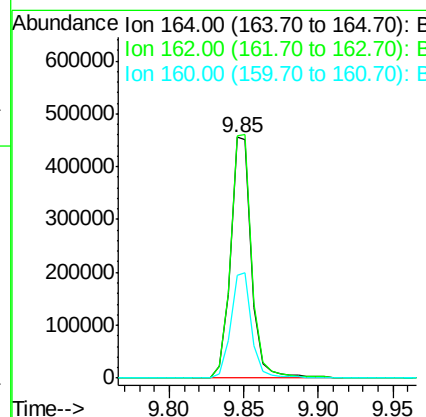
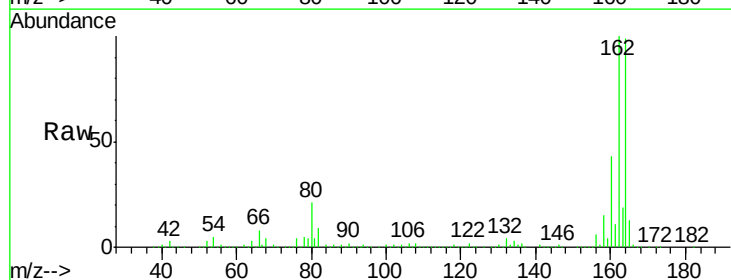
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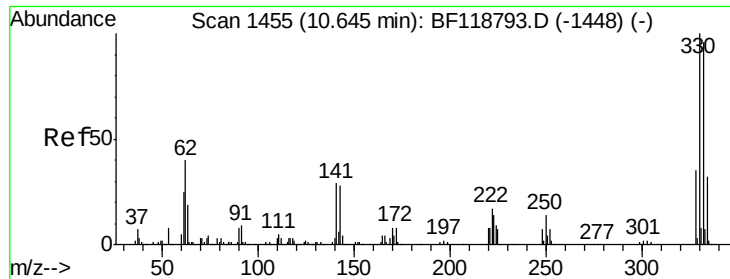
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.4	122.2
160	42.8	35.6	53.4





#42

2,4,6-Tribromophenol

Concen: 98.812 ng

RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

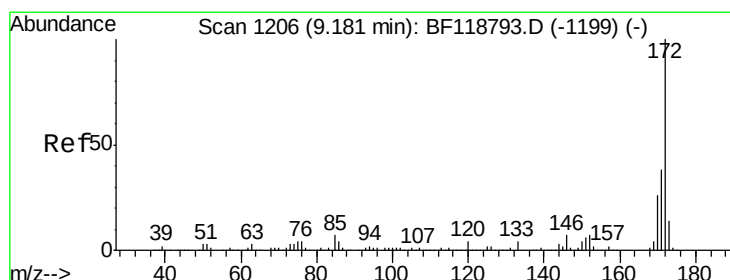
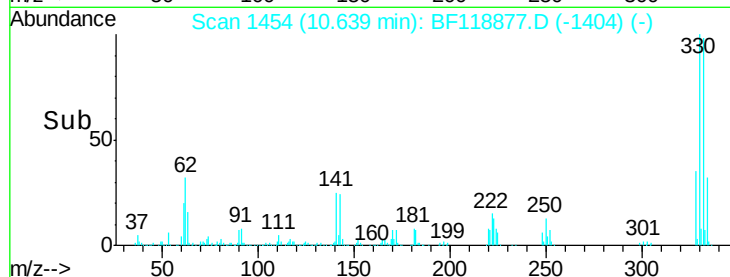
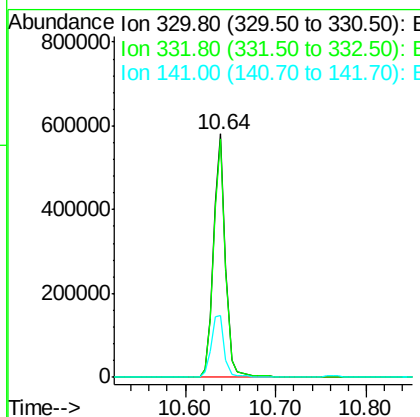
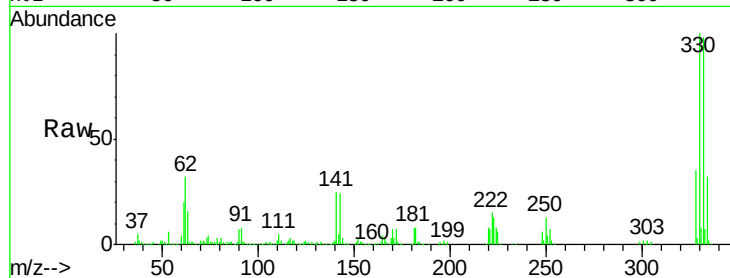
ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:	330	Resp:	538075
Ion Ratio	Lower	Upper	
330	100		
332	97.6	77.3	115.9
141	27.9	22.4	33.6

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#45

2-Fluorobiphenyl

Concen: 70.479 ng

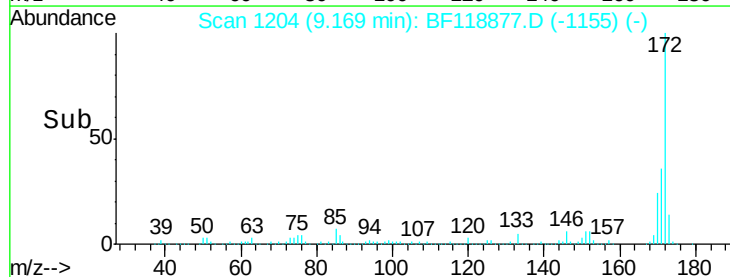
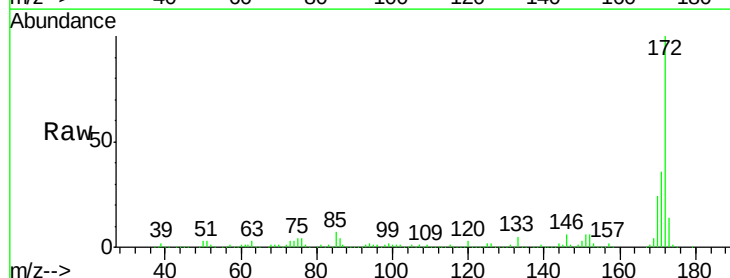
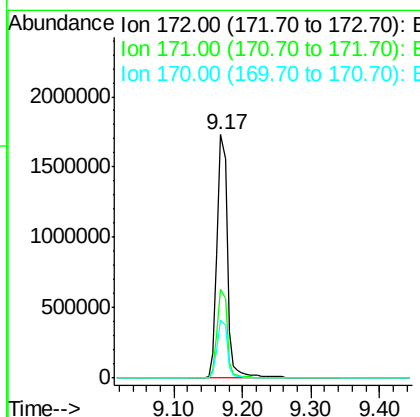
RT: 9.17 min Scan# 1204

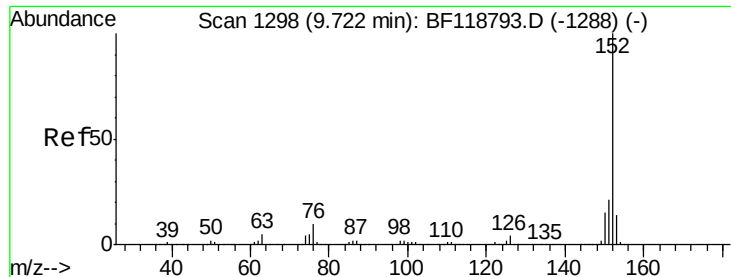
Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion:	172	Resp:	1794240
Ion Ratio	Lower	Upper	
172	100		
171	36.5	30.8	46.2
170	23.9	20.5	30.7





#49

Acenaphthylene

Concen: 3.101 ng

RT: 9.71 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

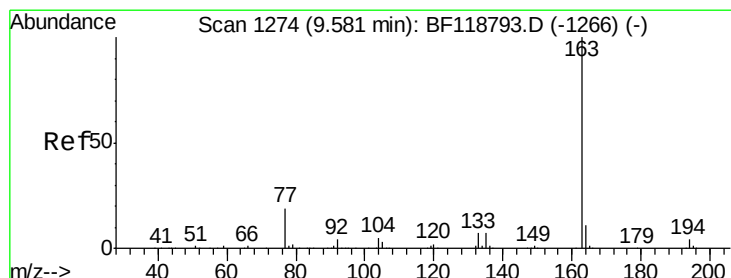
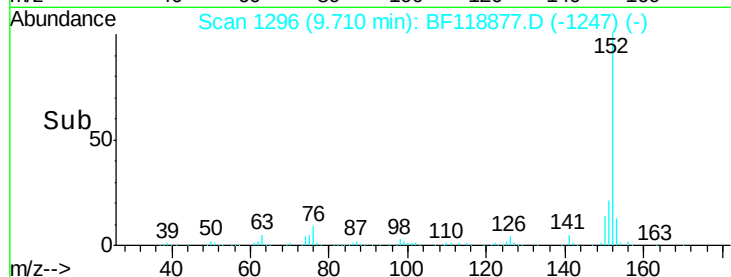
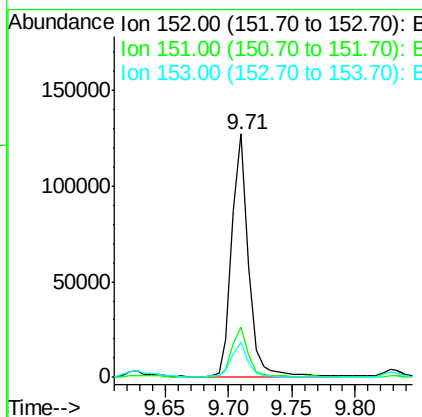
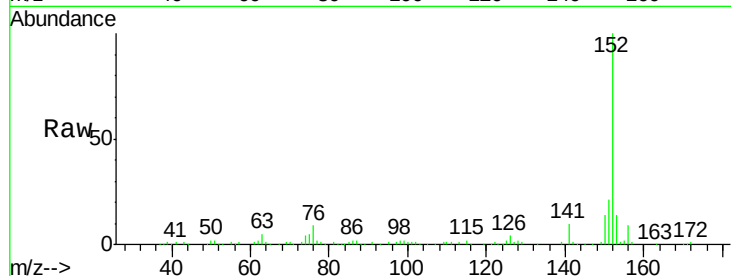
ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.1	25.7
153	14.3	11.0	16.4

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#50

Dimethylphthalate

Concen: 2.251 ng

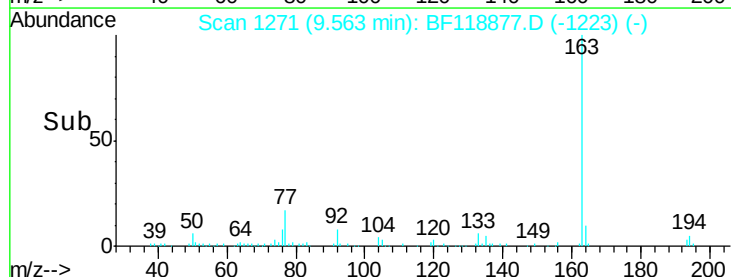
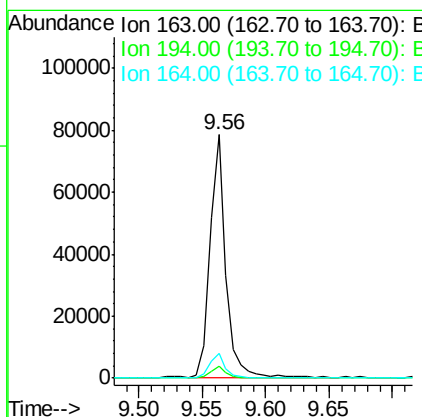
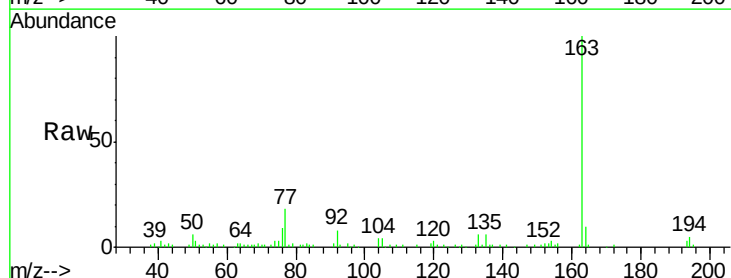
RT: 9.56 min Scan# 1271

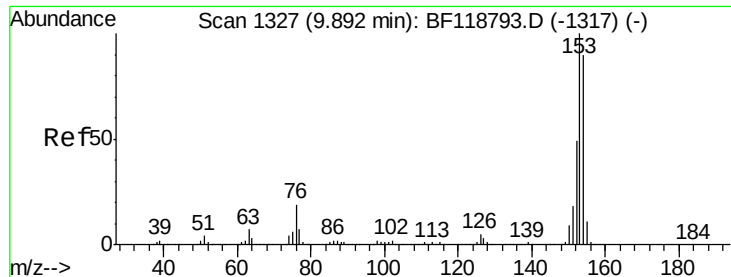
Delta R.T. -0.02 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.9	3.6	5.4
164	10.1	8.7	13.1





#52

Acenaphthene

Concen: 2.931 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

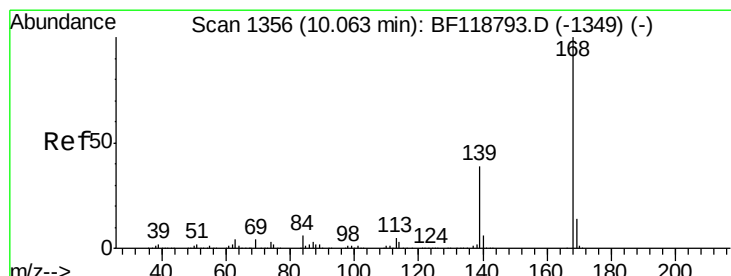
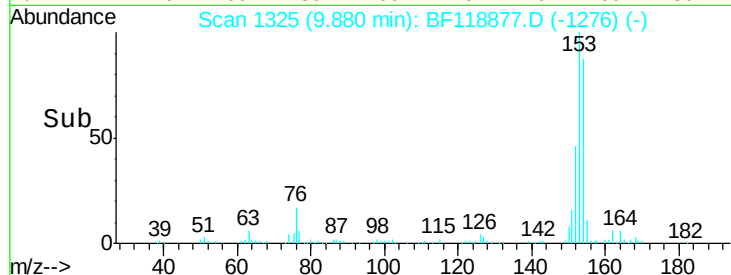
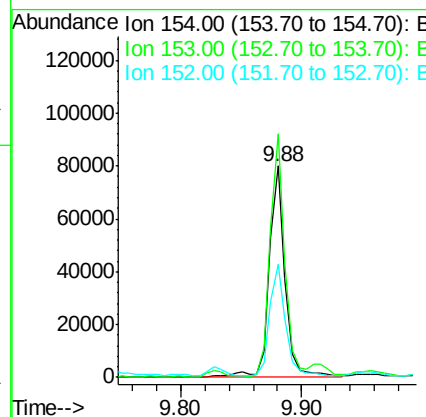
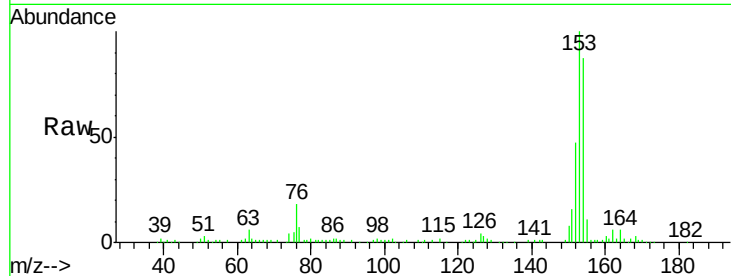
ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:	154	Resp:	72991
Ion	Ratio	Lower	Upper
154	100		
153	115.3	89.4	134.0
152	53.7	43.6	65.4

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#55

Dibenzofuran

Concen: 2.784 ng

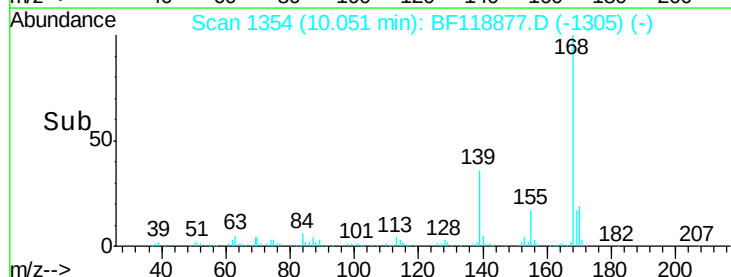
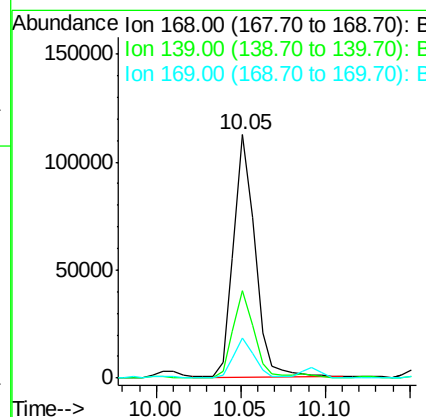
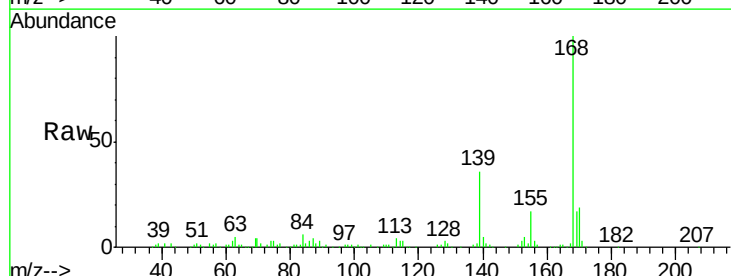
RT: 10.05 min Scan# 1354

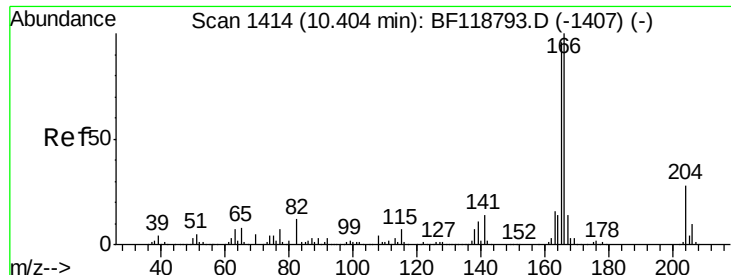
Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion:	168	Resp:	100197
Ion	Ratio	Lower	Upper
168	100		
139	36.1	31.6	47.4
169	16.5	11.4	17.2





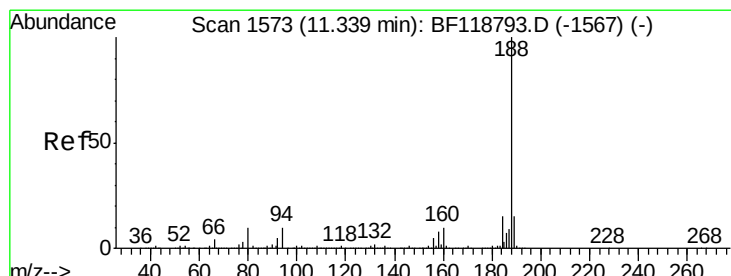
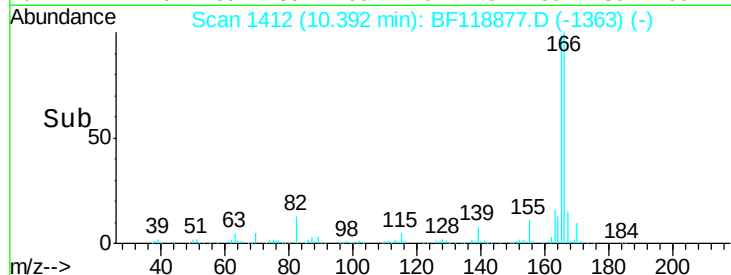
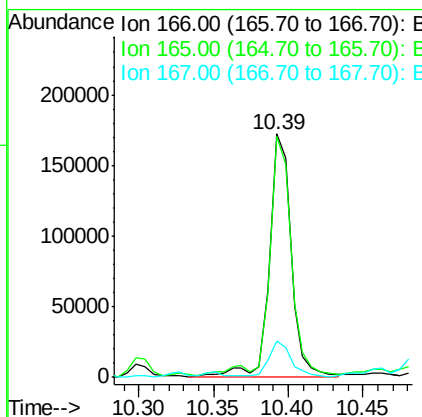
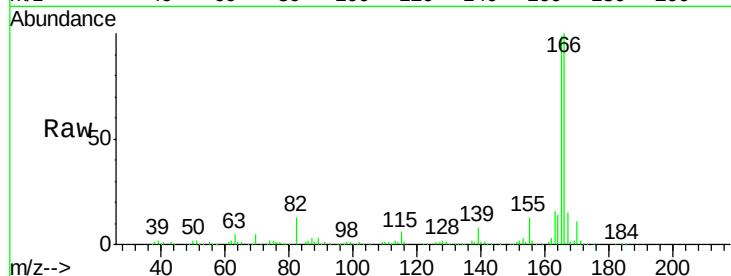
#58
 Fluorene
 Concen: 6.347 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. -0.01 min
 Lab File: BF118877.D
 Acq: 10 Feb 2020 19:16

Instrument :
 BNA_F
 ClientSampleId :
 PE-6A-(DUPLICATE)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		171829		
165	98.8	77.0	115.6		
167	15.1	11.1	16.7		

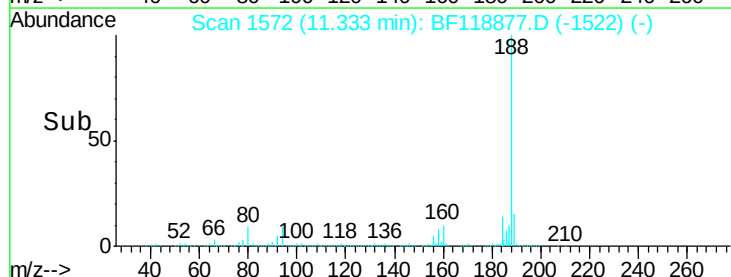
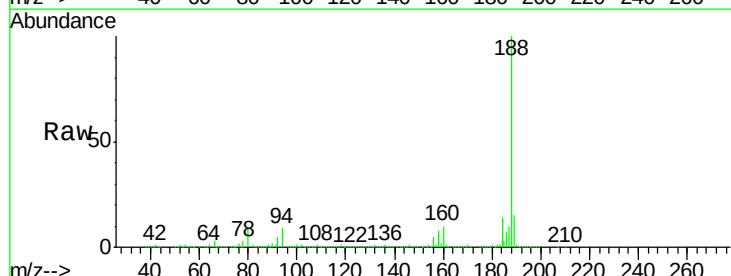
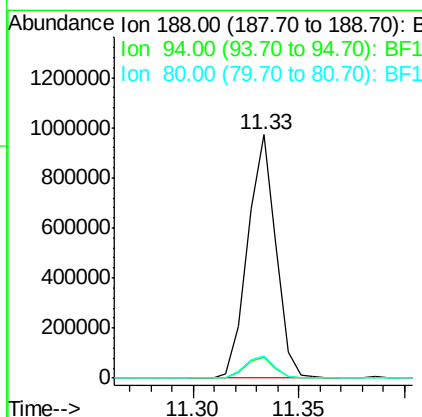
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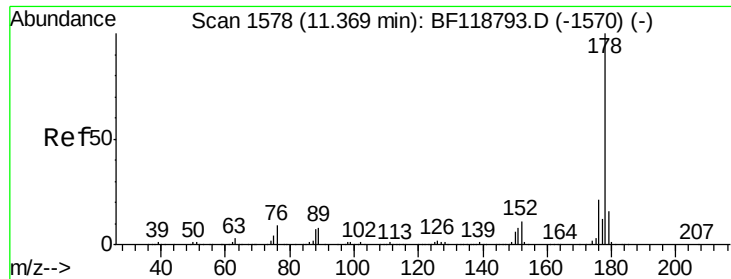
mohammad
 2/13/2020 10:28:50 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.01 min
 Lab File: BF118877.D
 Acq: 10 Feb 2020 19:16

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		897962		
94	8.8	7.9	11.9		
80	9.0	8.4	12.6		





#71

Phenanthrene

Concen: 37.309 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:178 Resp: 1648352

Ion Ratio Lower Upper

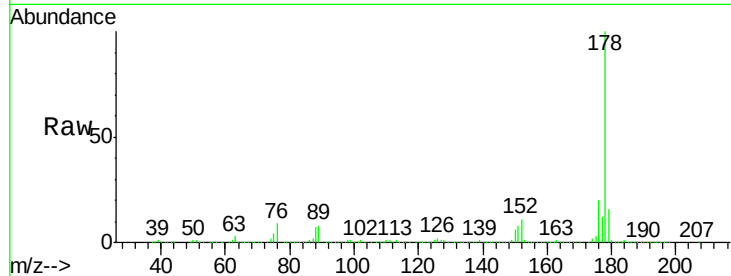
178 100

176 20.2 16.6 24.8

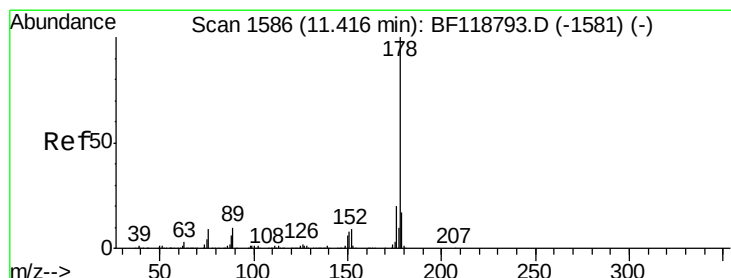
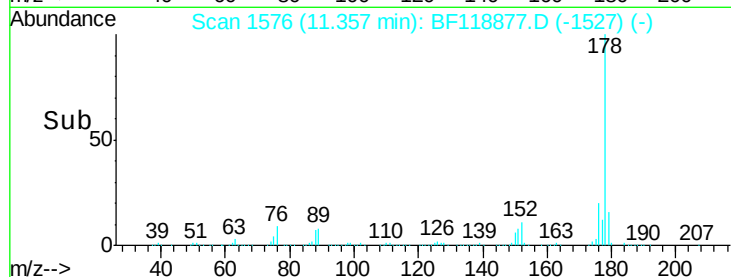
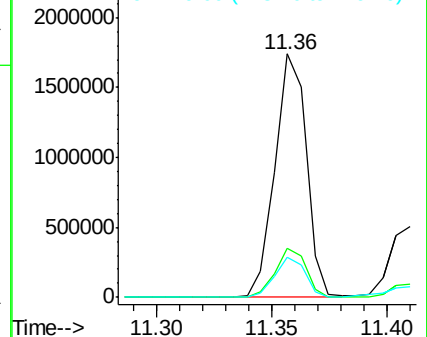
179 16.4 13.2 19.8

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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



#72

Anthracene

Concen: 10.175 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion:178 Resp: 447203

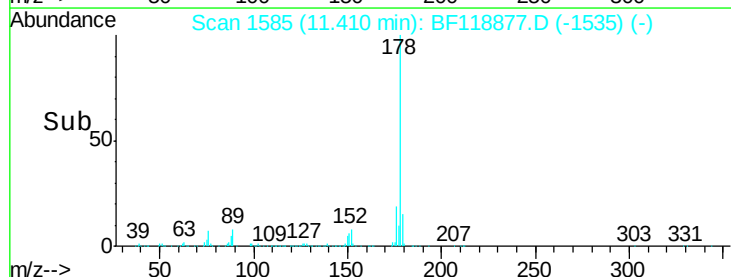
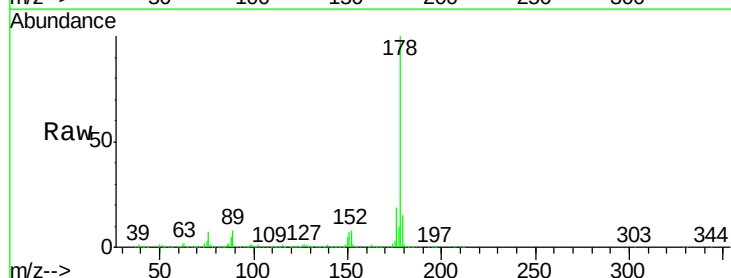
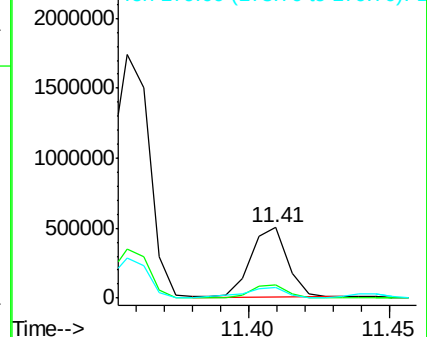
Ion Ratio Lower Upper

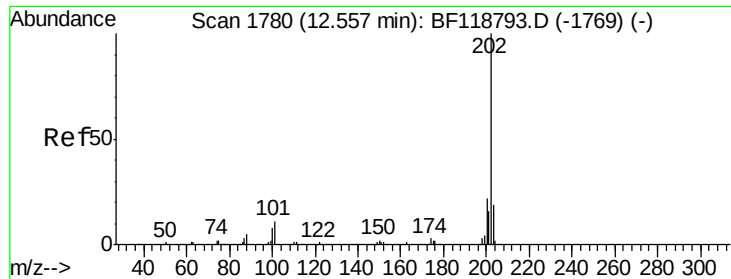
178 100

176 19.0 16.2 24.2

179 15.1 13.4 20.2

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: 51.886 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

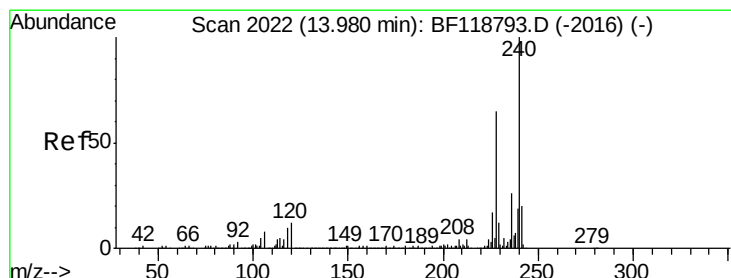
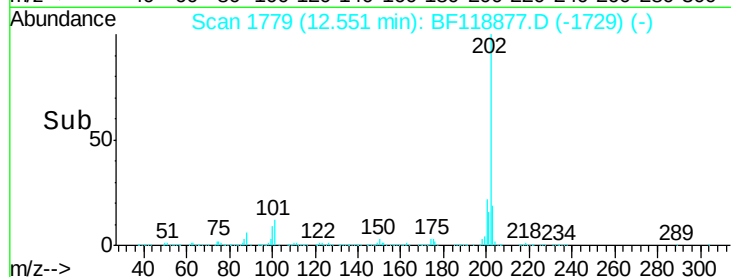
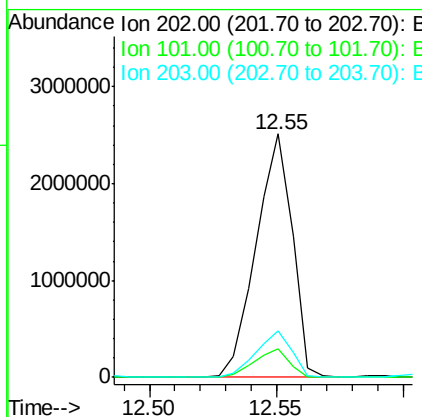
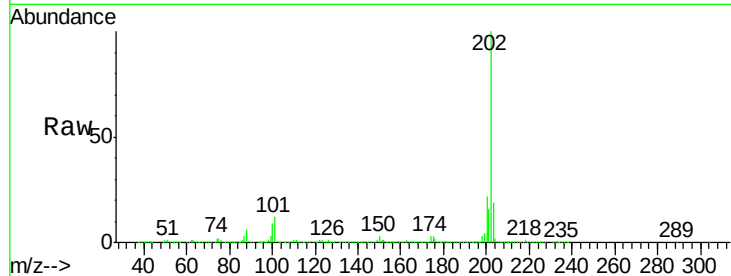
ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:	202	Resp:	2502885
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.0
203	19.0	0.0	38.7

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#76

Chrysene-d12

Concen: 20.000 ng

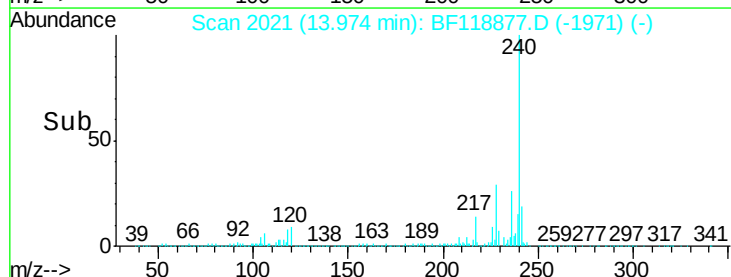
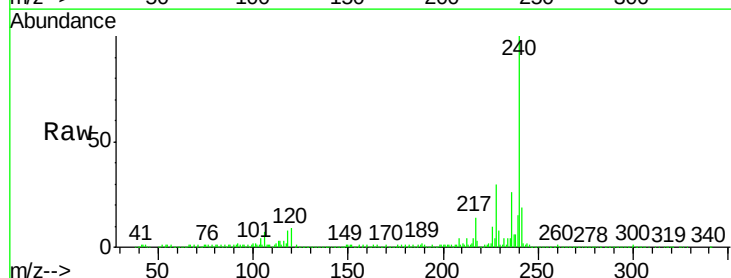
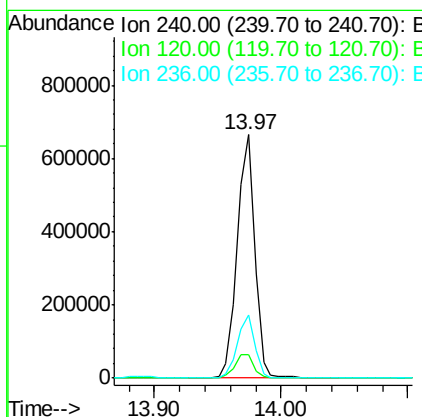
RT: 13.97 min Scan# 2021

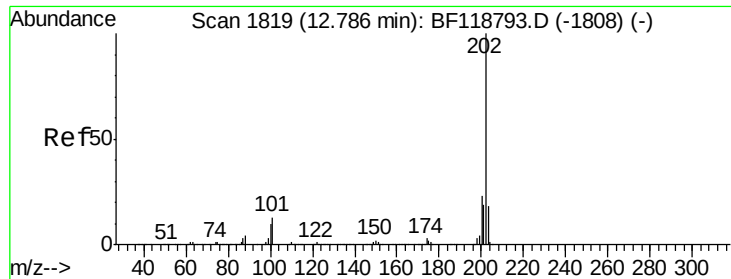
Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion:	240	Resp:	629390
Ion	Ratio	Lower	Upper
240	100		
120	9.4	9.4	14.0
236	26.2	21.0	31.6





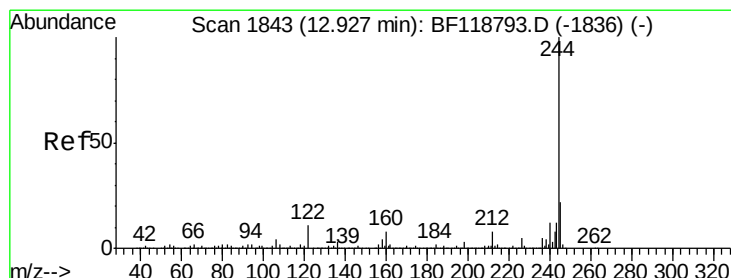
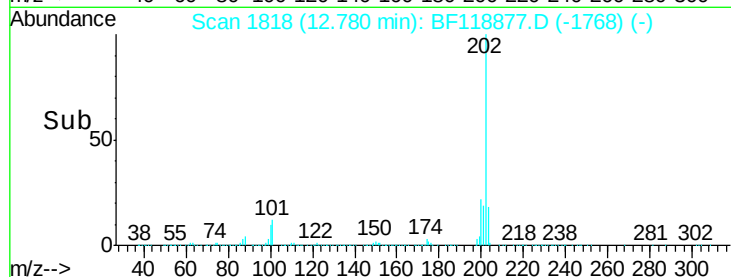
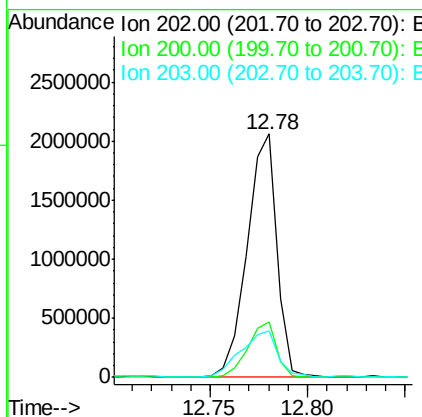
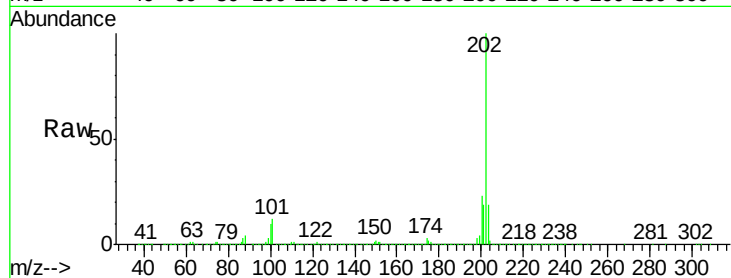
#78
Pvrene
Concen: 50.066 ng
RT: 12.78 min Scan# 1818
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.5	18.2	27.2
203	19.0	14.8	22.2

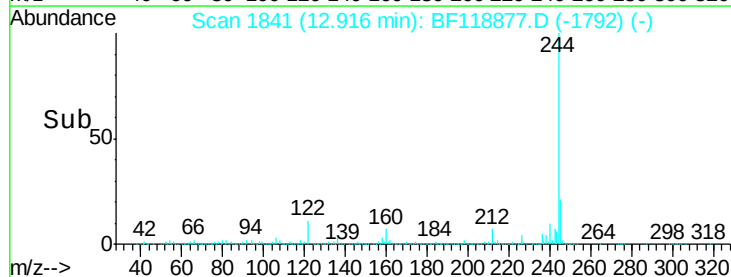
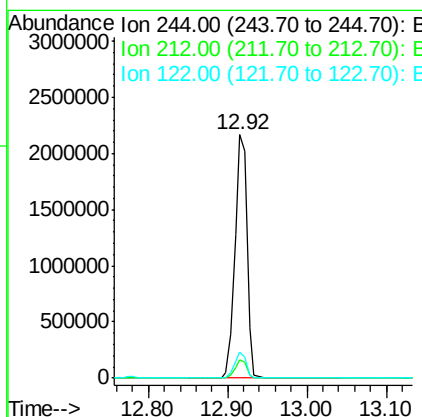
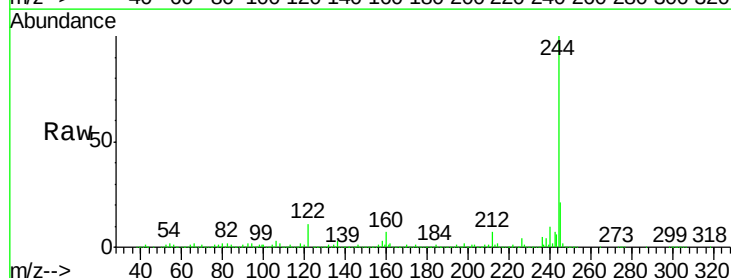
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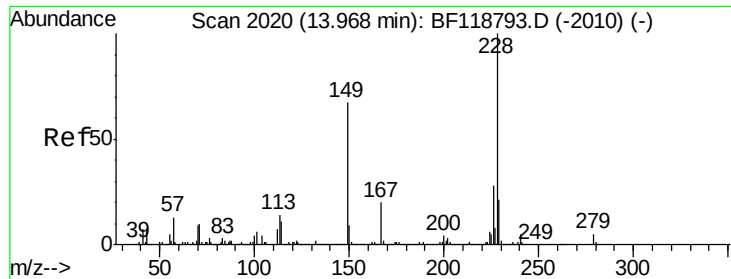
mohammad
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#79
Terphenyl-d14
Concen: 74.257 ng
RT: 12.92 min Scan# 1841
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.5	9.7
122	10.6	8.9	13.3





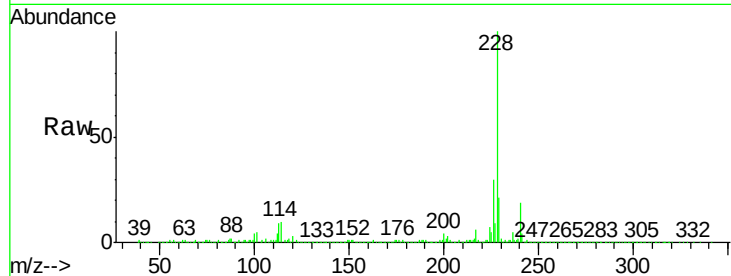
#81
Benzo(a)anthracene
Concen: 32.290 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

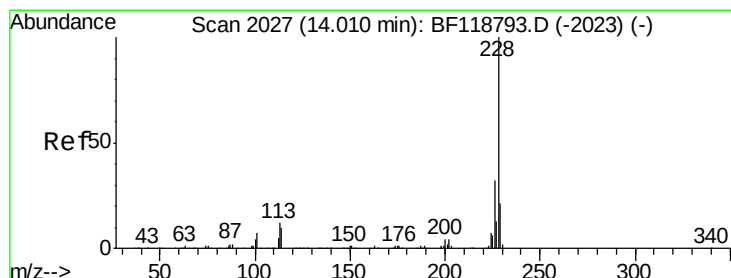
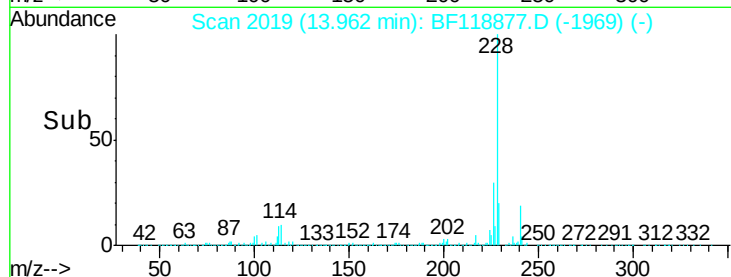
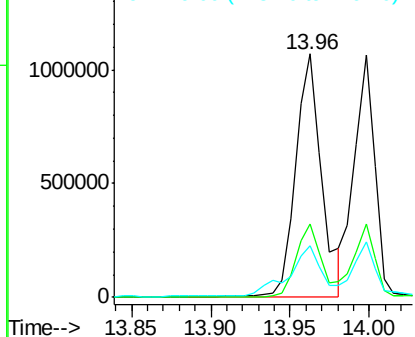
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.7	34.1
229	21.1	16.6	25.0

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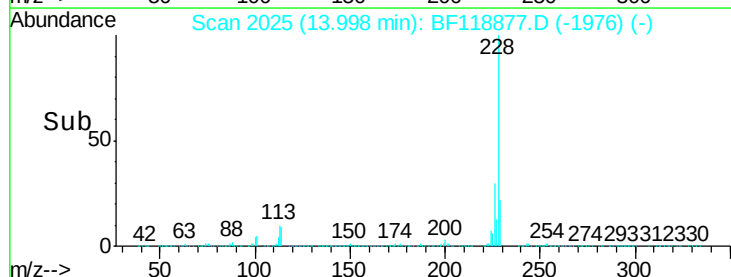
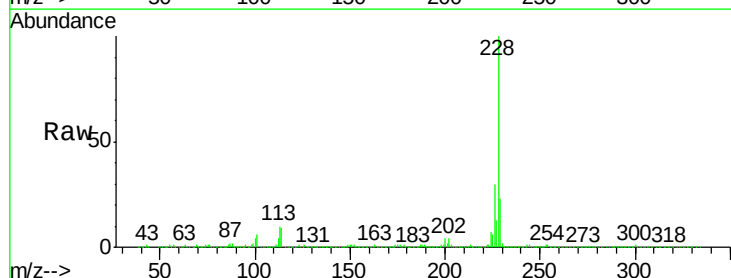
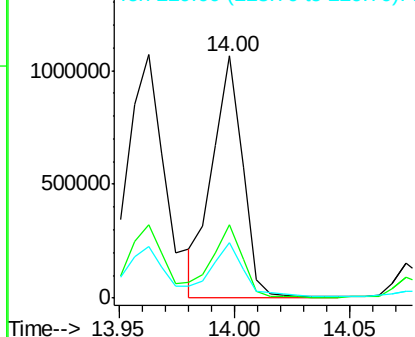
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

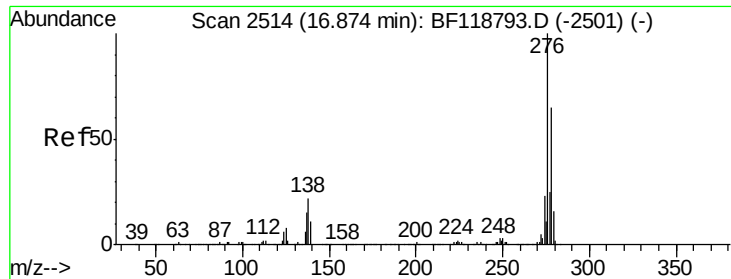


#83
Chrysene
Concen: 25.702 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.4	38.0
229	22.7	16.9	25.3

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





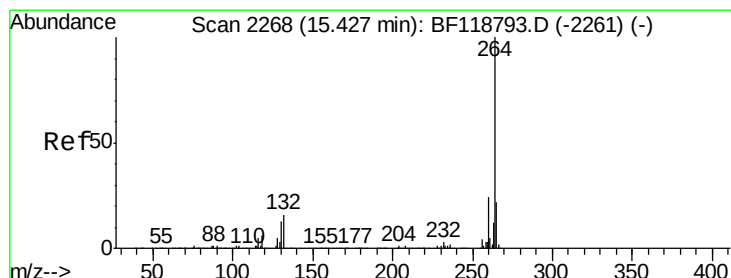
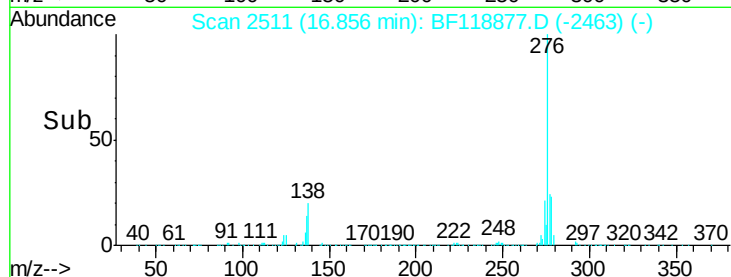
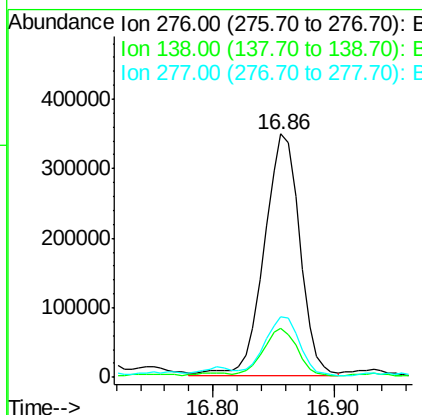
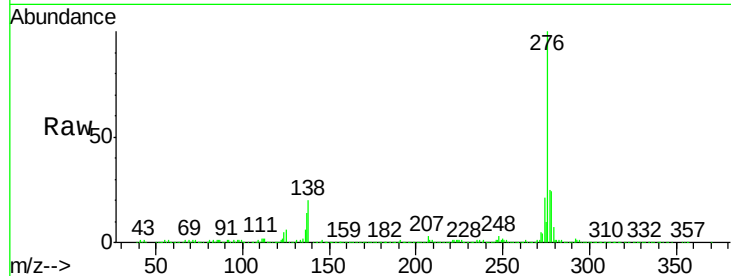
#86
Indeno(1,2,3-cd)pyrene
Concen: 18.715 ng
RT: 16.86 min Scan# 2511
Delta R.T. -0.02 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
276	100		
138	18.9	18.3	27.5
277	23.5	20.2	30.4

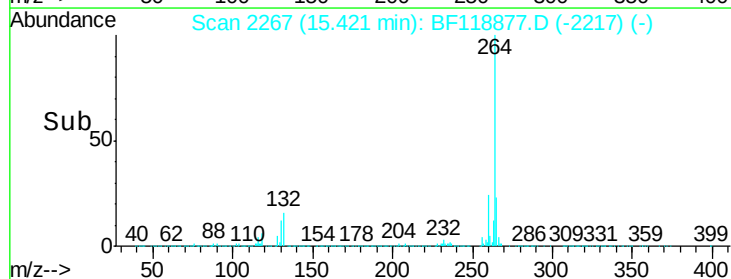
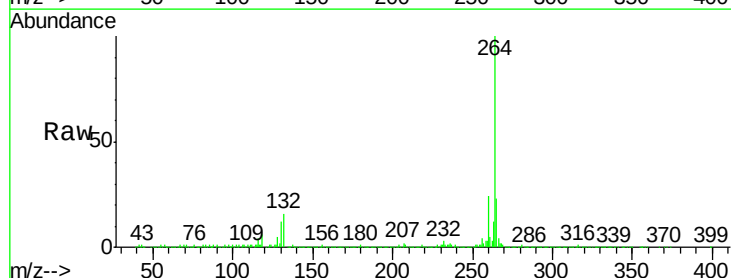
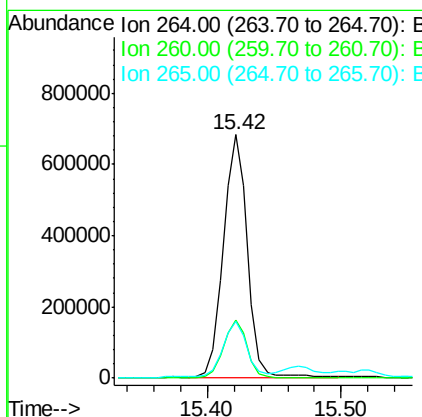
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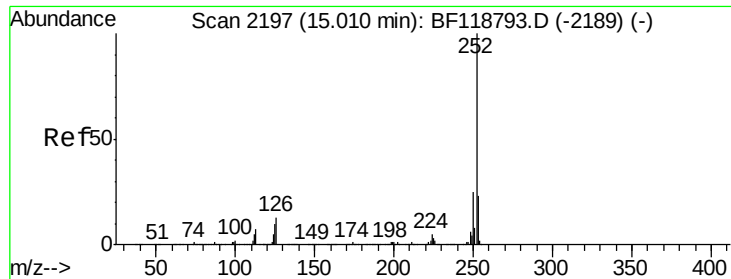
mohammad
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#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.1	28.7
265	23.1	17.2	25.8





#88

Benzo(b)fluoranthene

Concen: 26.717 ng m

RT: 15.00 min Scan# 2196

Delta R.T. -0.01 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:252 Resp: 1418796

Ion Ratio Lower Upper

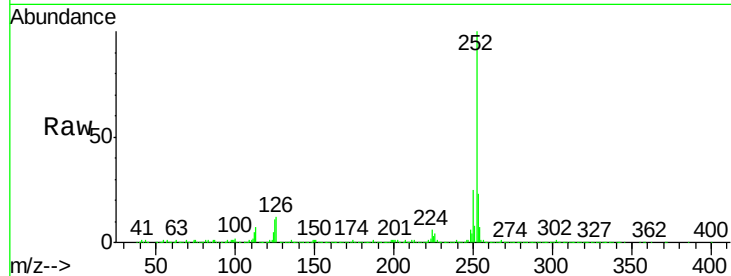
252 100

253 23.3 18.4 27.6

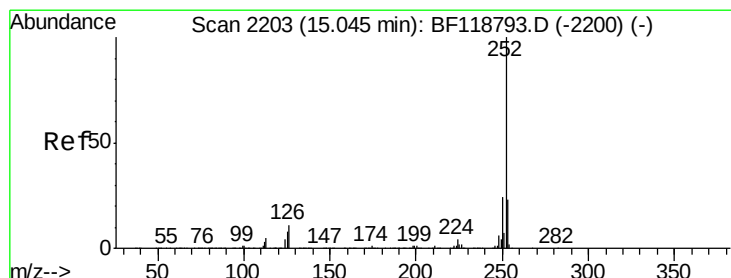
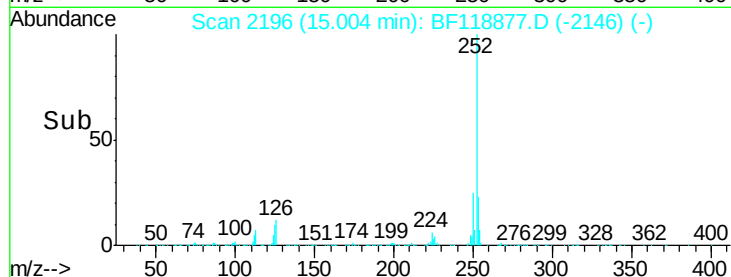
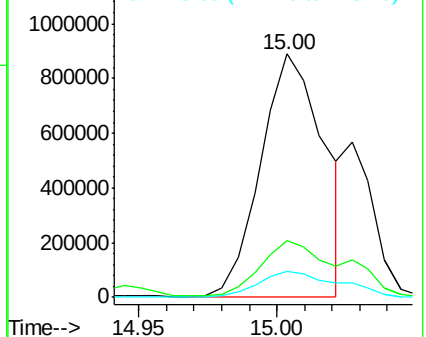
125 10.6 8.1 12.1

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 9.010 ng m

RT: 15.03 min Scan# 2200

Delta R.T. -0.02 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Tgt Ion:252 Resp: 416643

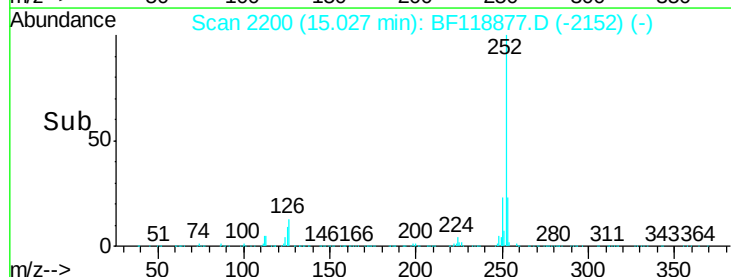
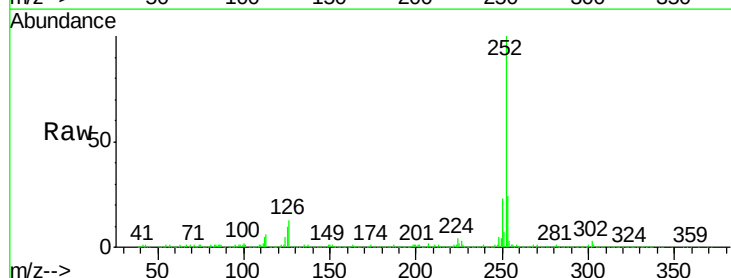
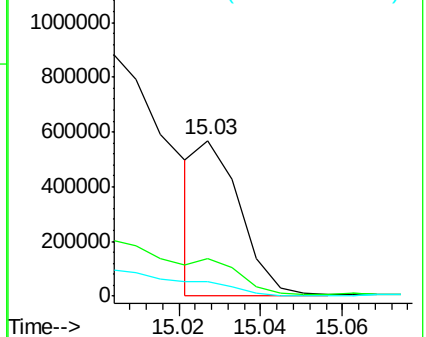
Ion Ratio Lower Upper

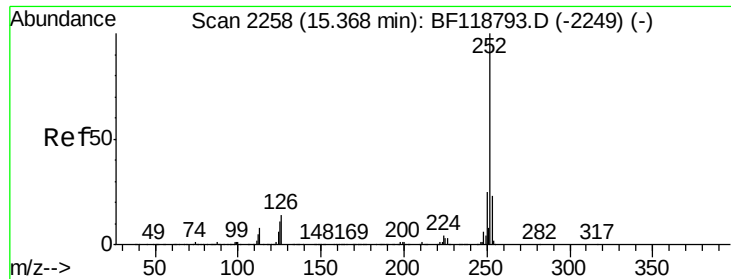
252 100

253 23.9 18.2 27.4

125 9.6 7.0 10.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





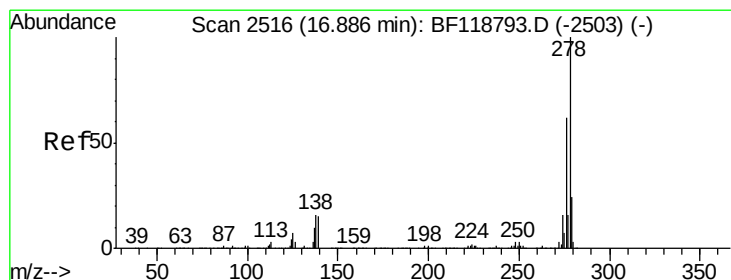
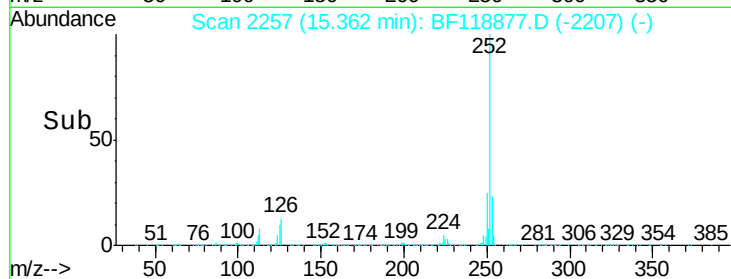
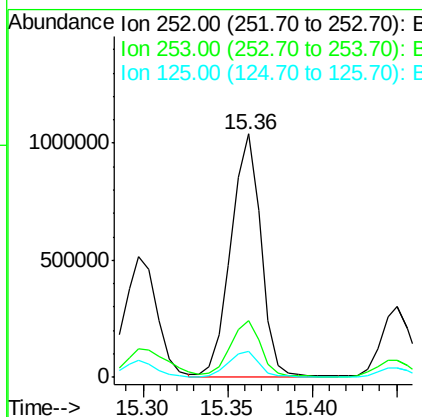
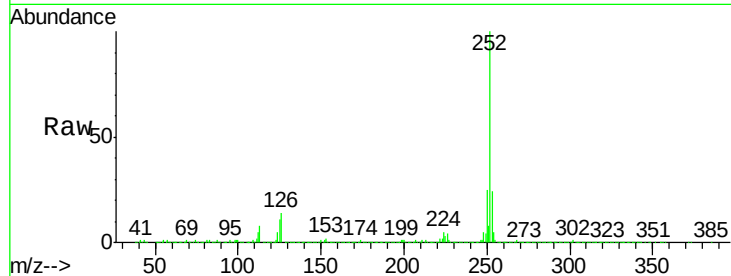
#90
Benzo(a)pyrene
Concen: 28.080 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	10.6	8.7	13.1

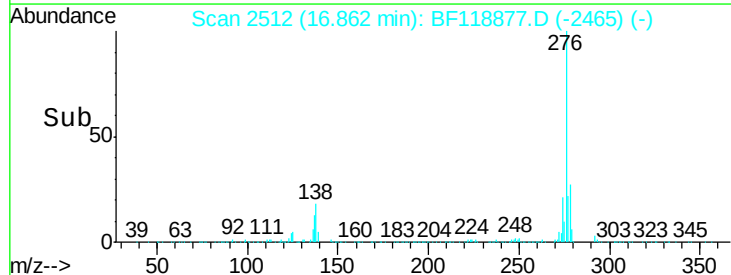
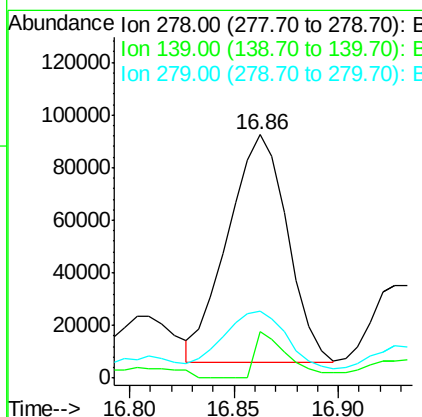
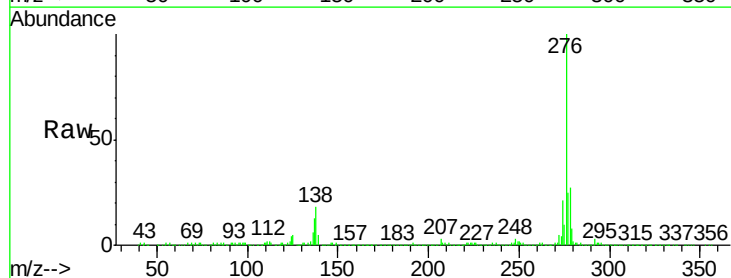
Manual Integrations
APPROVED

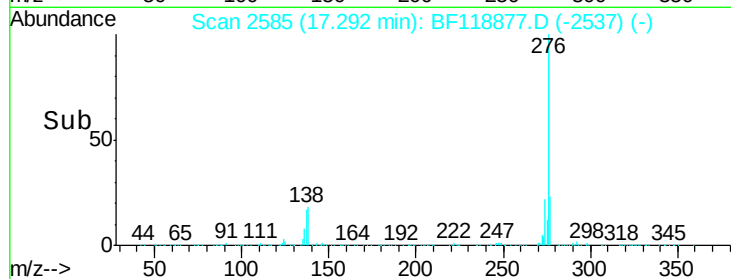
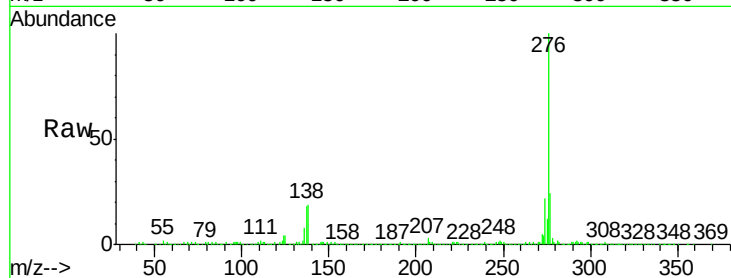
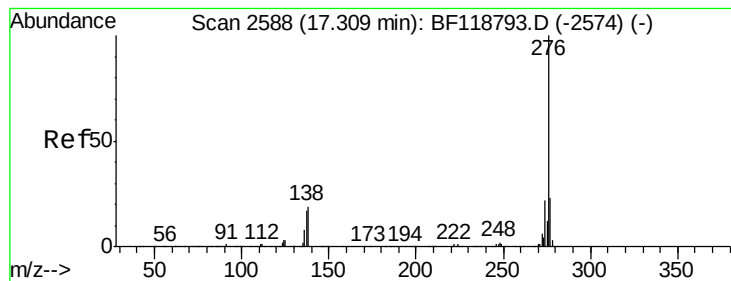
mohammad
2/13/2020 10:28:50 AM



#91
Dibenzo(a,h)anthracene
Concen: 4.284 ng m
RT: 16.86 min Scan# 2512
Delta R.T. -0.02 min
Lab File: BF118877.D
Acq: 10 Feb 2020 19:16

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.0	12.3	18.5#
279	27.5	19.1	28.7





#92

Benzo(a,h,i)perylene

Concen: 15.888 ng

RT: 17.29 min Scan# 2585

Delta R.T. -0.02 min

Lab File: BF118877.D

Acq: 10 Feb 2020 19:16

Instrument :

BNA_F

ClientSampleId :

PE-6A-(DUPLICATE)

Tot Ion:	276	Resp:	616462
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.7	28.1
138	19.4	15.4	23.2

Manual Integrations
APPROVED

mohammad
2/13/2020 10:28:50 AM

