

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020620\
 Data File : BF118841.D
 Acq On : 6 Feb 2020 17:09
 Operator : CG/JU
 Sample : L1408-12
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SHORE-RD-PATH-BH-04-B

Manual Integrations
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Quant Time: Feb 06 21:26:19 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	199309	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	746564	20.00	ng	-0.01
39) Acenaphthene-d10	9.85	164	403778	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	691840	20.00	ng	0.00
76) Chrysene-d12	13.97	240	531444	20.00	ng	0.00
87) Perylene-d12	15.42	264	693358	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	973408	92.45	ng	0.00
7) Phenol-d6	6.45	99	1148876	87.90	ng	0.00
23) Nitrobenzene-d5	7.37	82	746990	59.64	ng	-0.01
42) 2,4,6-Tribromophenol	10.63	330	412634	85.41	ng	-0.01
45) 2-Fluorobiphenyl	9.17	172	1591032	70.44	ng	-0.01
79) Terphenyl-d14	12.92	244	1651253	63.82	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.12	128	223404	6.543	ng	97
37) 2-Methylnaphthalene	8.80	142	47846	2.020	ng	97
49) Acenaphthylene	9.71	152	94927	2.831	ng	98
50) Dimethylphthalate	9.56	163	109477	3.982	ng	99
55) Dibenzofuran	10.05	168	87604	2.744	ng	95
58) Fluorene	10.39	166	107892	4.492	ng	99
71) Phenanthrene	11.36	178	1340450	39.379	ng	99
72) Anthracene	11.40	178	368517	10.882	ng	96
73) Carbazole	11.56	167	118613	3.991	ng	98
75) Fluoranthene	12.55	202	2125559	57.192	ng	99
78) Pyrene	12.78	202	2185412	59.943	ng	99
81) Benzo(a)anthracene	13.96	228	1321539	41.789	ng	98
83) Chrysene	14.00	228	1265660	39.876	ng	98
86) Indeno(1,2,3-cd)pyrene	16.85	276	726003	22.766	ng	96
88) Benzo(b)fluoranthene	15.00	252	1617603m	37.598	ng	
89) Benzo(k)fluoranthene	15.03	252	365022m	9.743	ng	
90) Benzo(a)pyrene	15.36	252	1160474	31.517	ng	99
91) Dibenzo(a,h)anthracene	16.86	278	189967	5.812	ng	95
92) Benzo(a,h,i)perylene	17.29	276	705419	22.440	ng	100

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

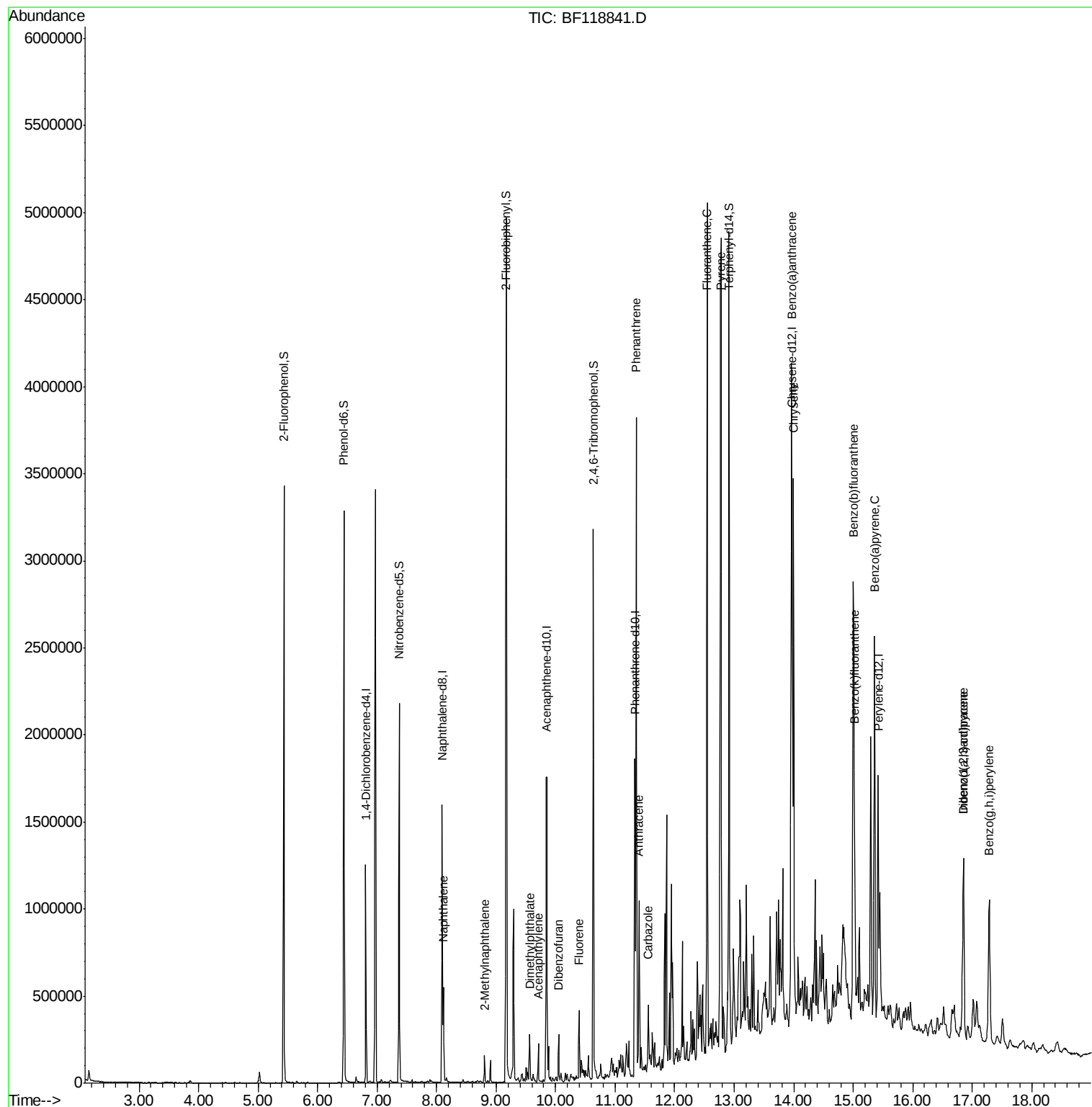
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020620\
Data File : BF118841.D
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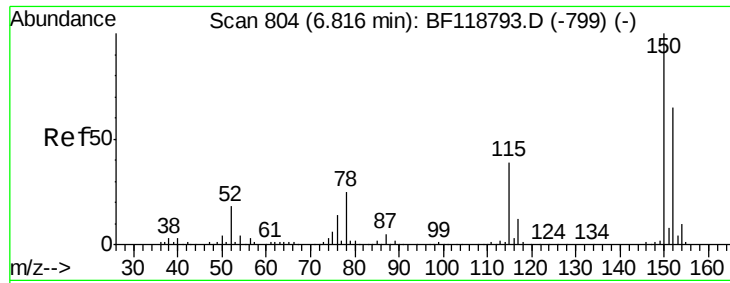
Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

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Quant Time: Feb 06 21:26:19 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





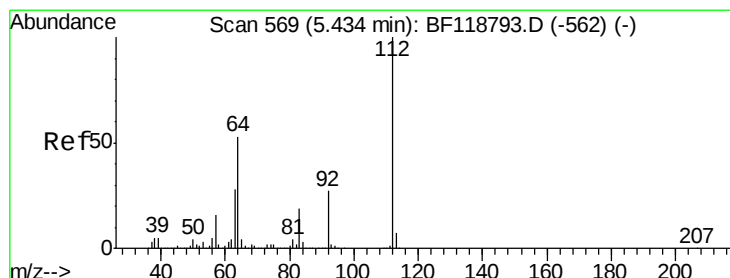
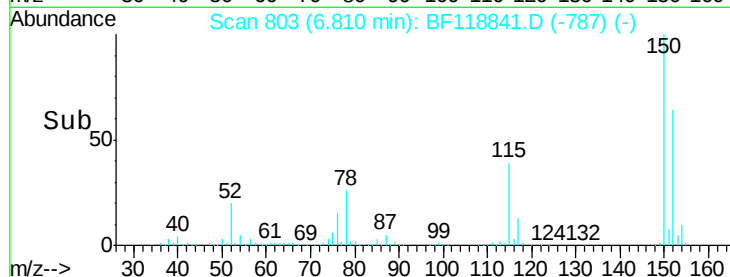
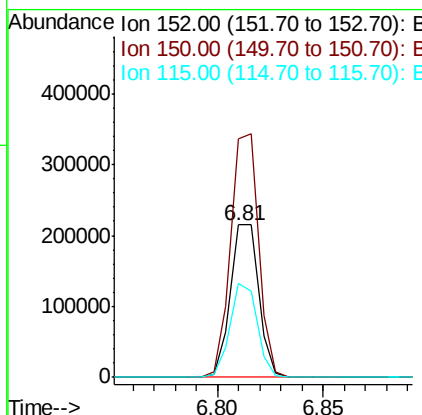
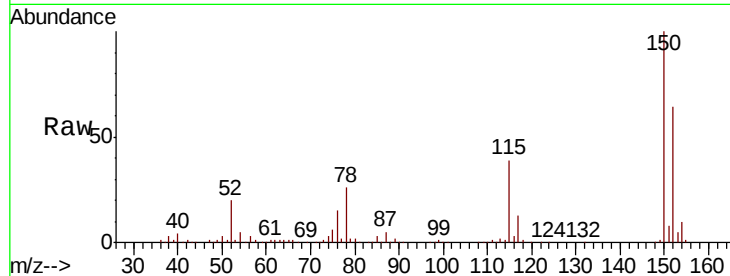
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.81 min Scan# 803
 Delta R.T. -0.01 min
 Lab File: BF118841.D
 Acq: 6 Feb 2020 17:09

Instrument :
 BNA_F
 ClientSampleId :
 SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	123.6	185.4
115	61.4	48.2	72.2

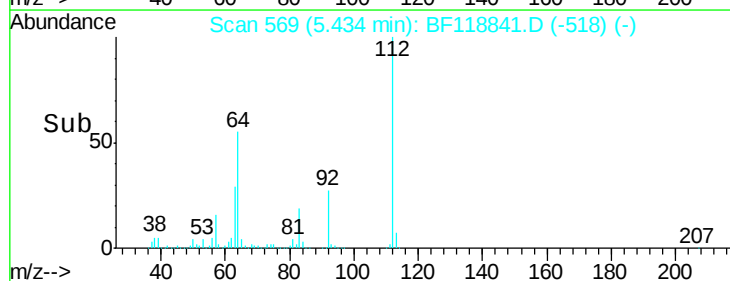
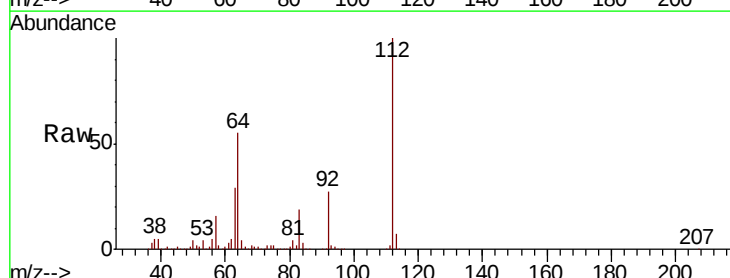
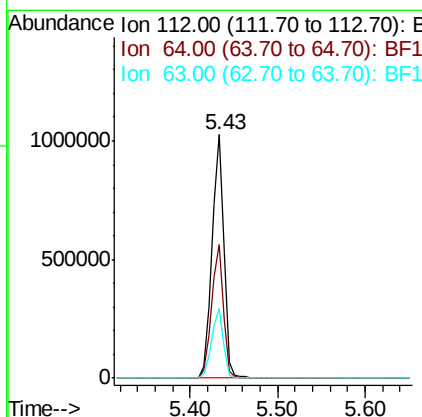
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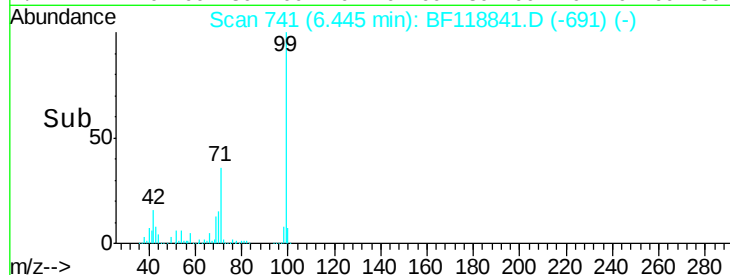
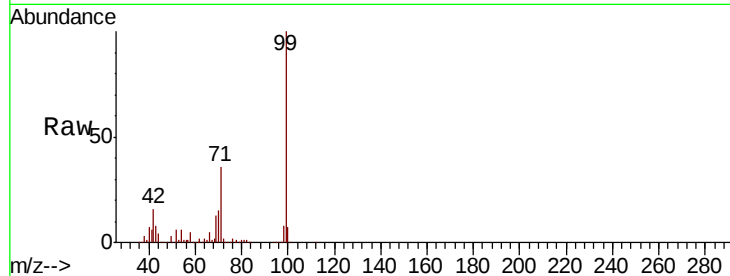
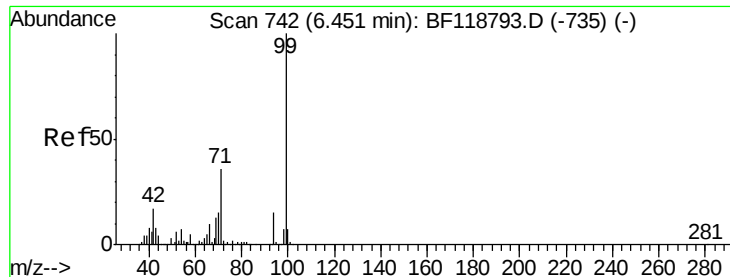
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#5
 2-Fluorophenol
 Concen: 92.449 ng
 RT: 5.43 min Scan# 569
 Delta R.T. -0.00 min
 Lab File: BF118841.D
 Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	42.6	63.8
63	28.6	22.2	33.4





#7

Phenol-d6

Concen: 87.899 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tot Ion: 99 Resp: 1148876

Ion Ratio Lower Upper

99 100

42 16.1 13.4 20.0

71 35.8 29.0 43.6

Instrument :

BNA_F

ClientSampleId :

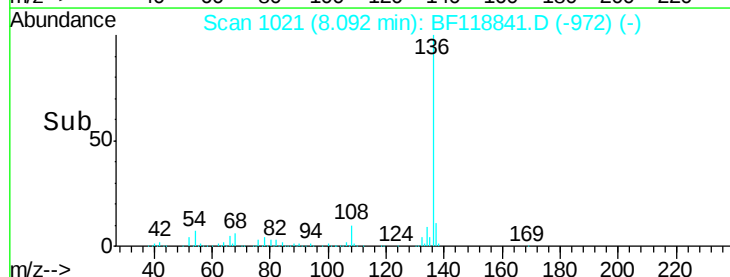
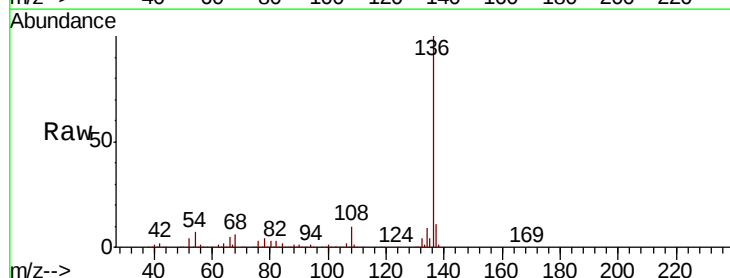
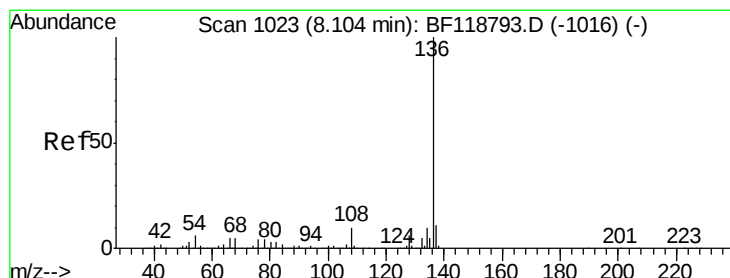
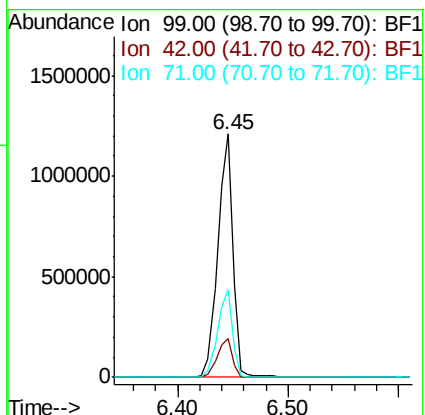
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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tgt Ion: 136 Resp: 746564

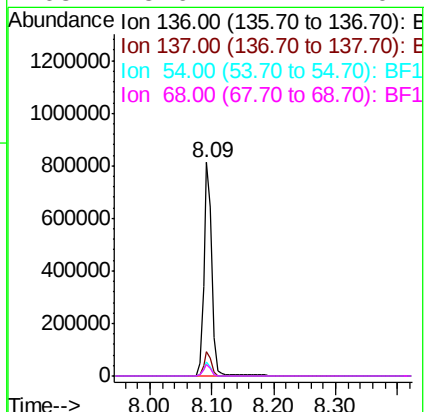
Ion Ratio Lower Upper

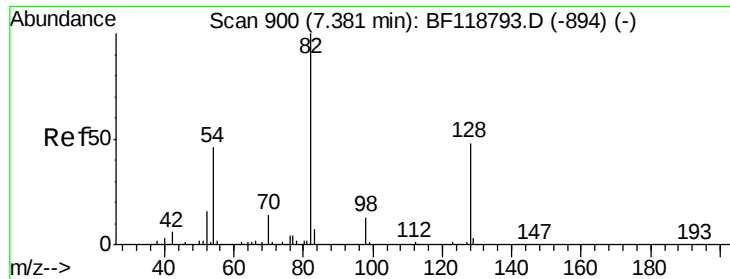
136 100

137 11.3 8.7 13.1

54 6.7 5.0 7.6

68 5.6 4.2 6.4





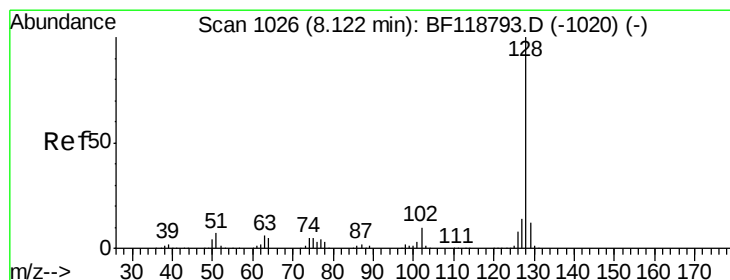
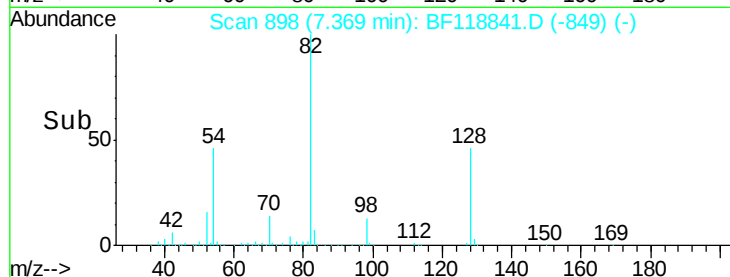
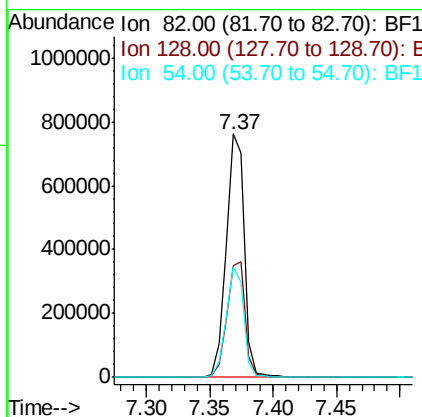
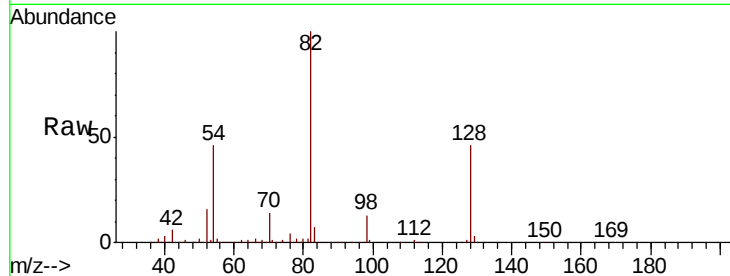
#23
Nitrobenzene-d5
Concen: 59.639 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.9	38.5	57.7
54	45.5	36.7	55.1

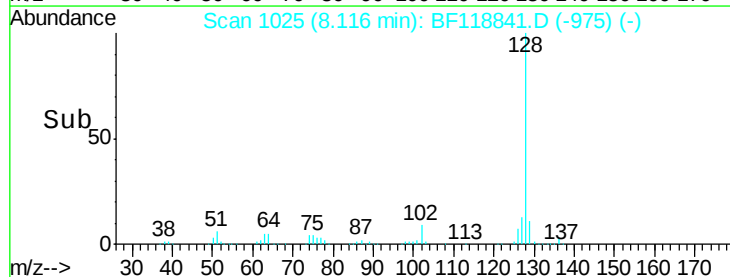
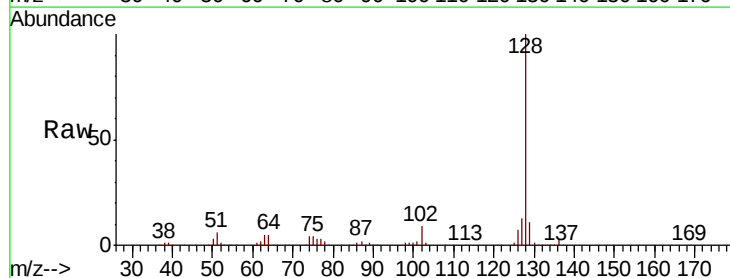
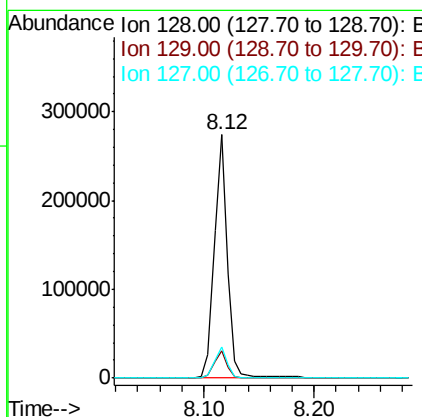
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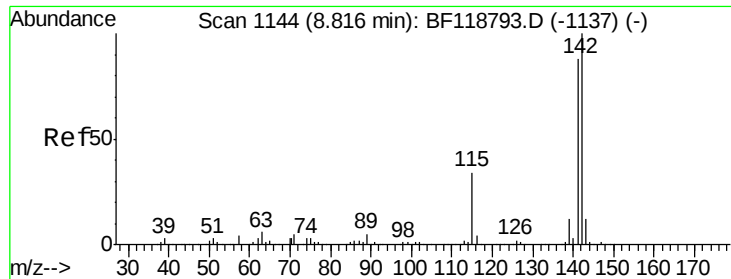
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#31
Naphthalene
Concen: 6.543 ng
RT: 8.12 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.2
127	12.7	11.3	16.9





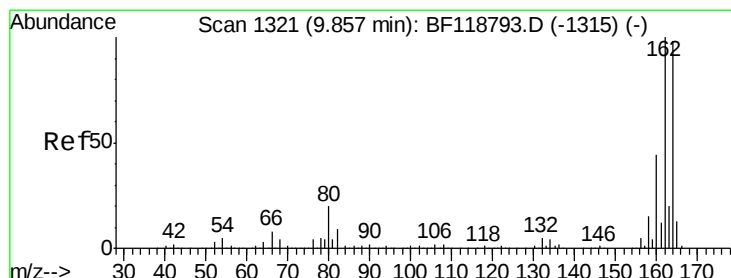
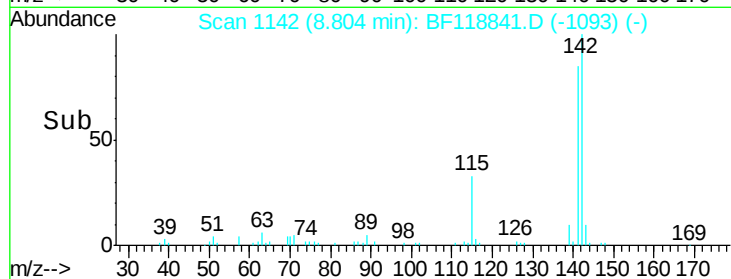
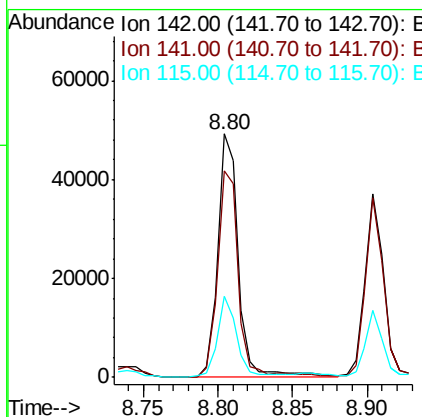
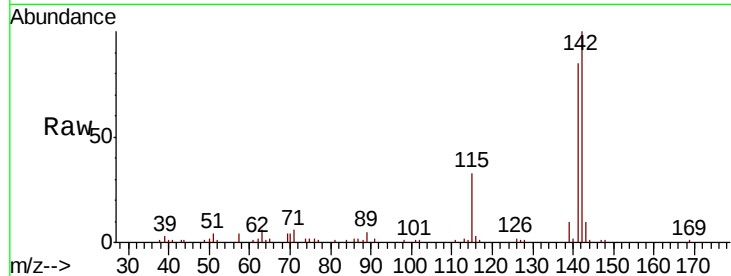
#37
2-Methylnaphthalene
Concen: 2.020 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
142	100		
141	84.8	70.1	105.1
115	33.4	27.3	40.9

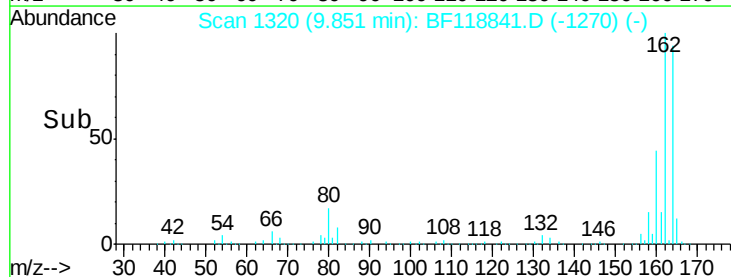
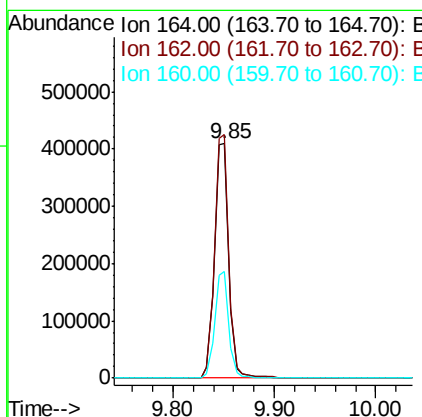
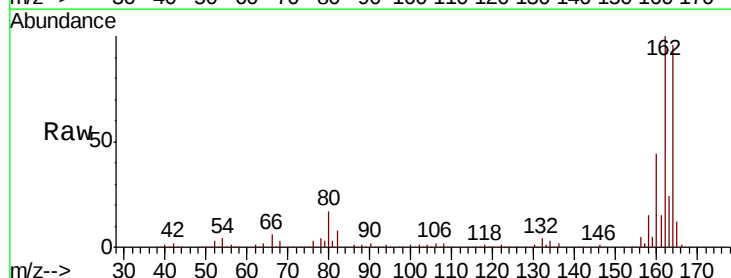
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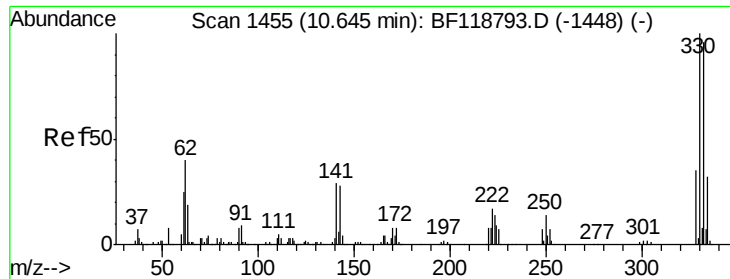
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1320
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.4	122.2
160	45.3	35.6	53.4





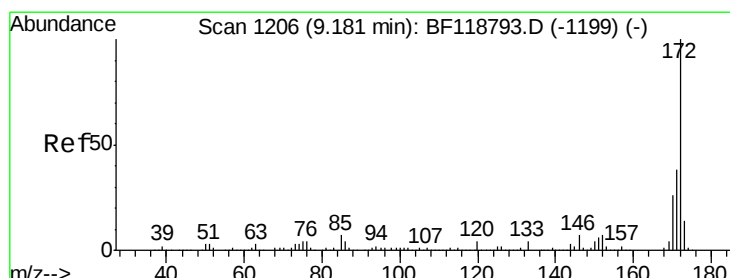
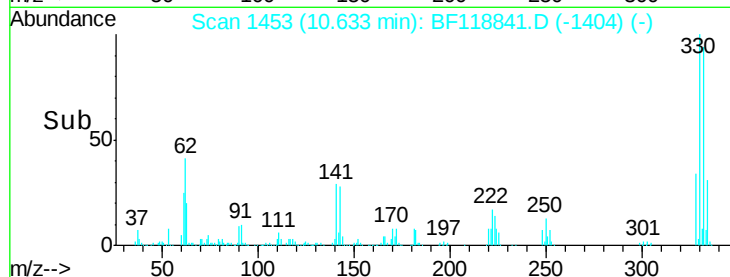
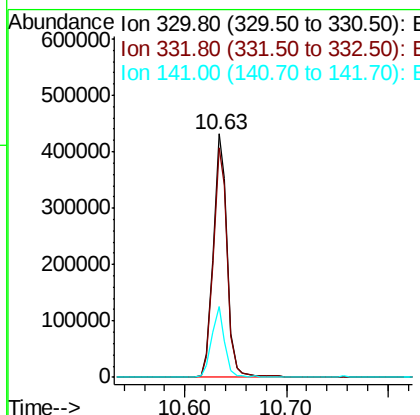
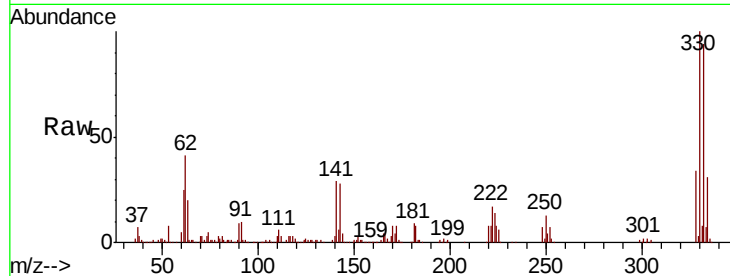
#42
 2,4,6-Tribromophenol
 Concen: 85.408 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF118841.D
 Acq: 6 Feb 2020 17:09

Instrument :
 BNA_F
 ClientSampleId :
 SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.3	115.9
141	27.0	22.4	33.6

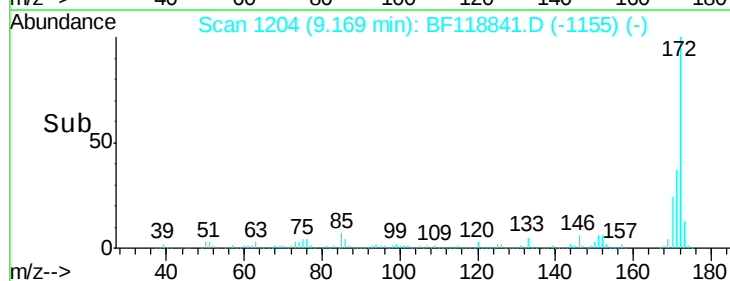
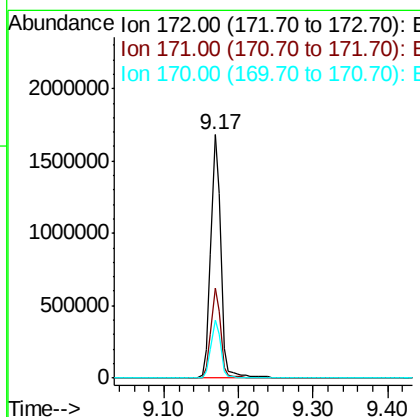
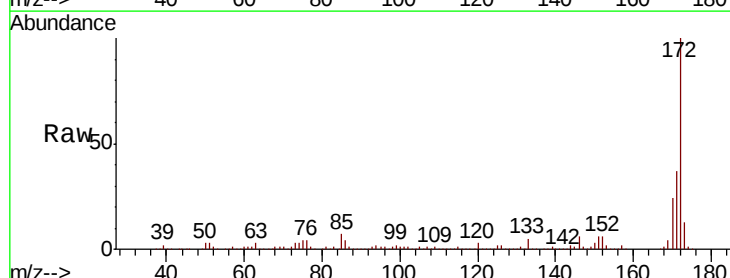
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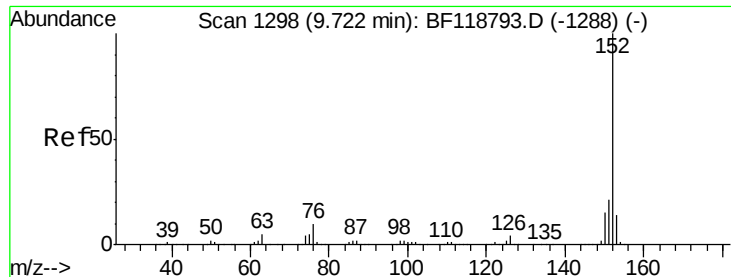
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#45
 2-Fluorobiphenyl
 Concen: 70.442 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.01 min
 Lab File: BF118841.D
 Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	30.8	46.2
170	24.0	20.5	30.7





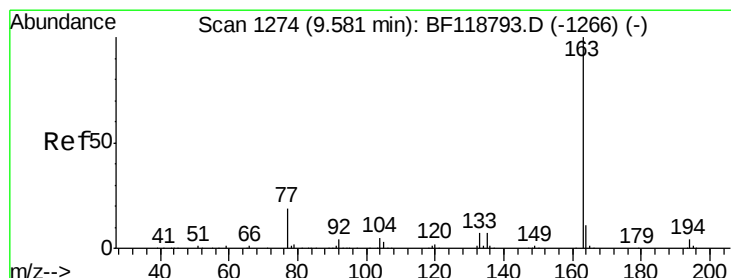
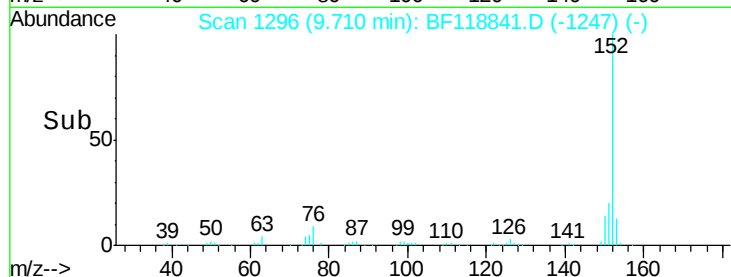
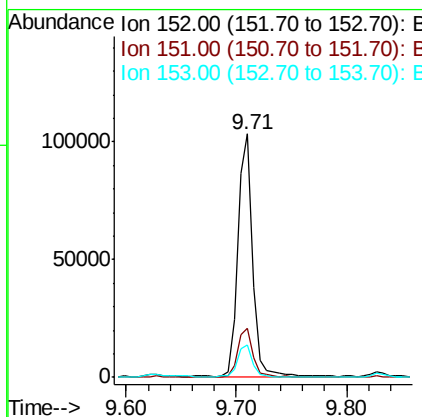
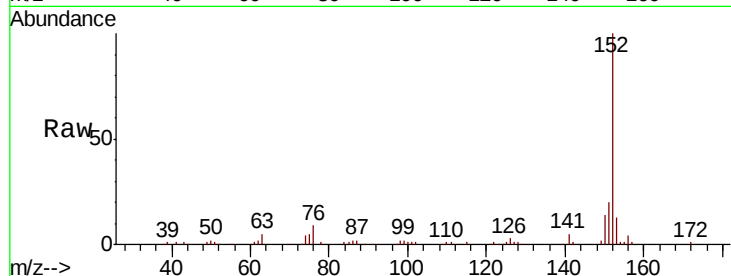
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Acenaphthylene
Concen: 2.831 ng
RT: 9.71 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	17.1	25.7
153	13.3	11.0	16.4

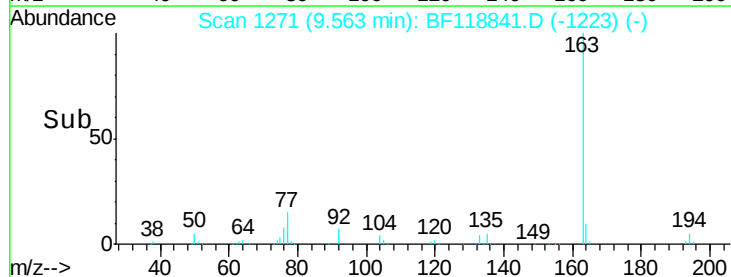
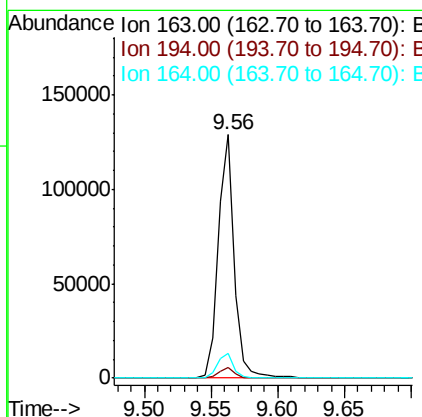
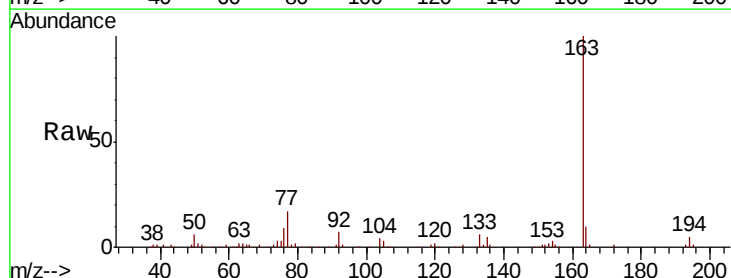
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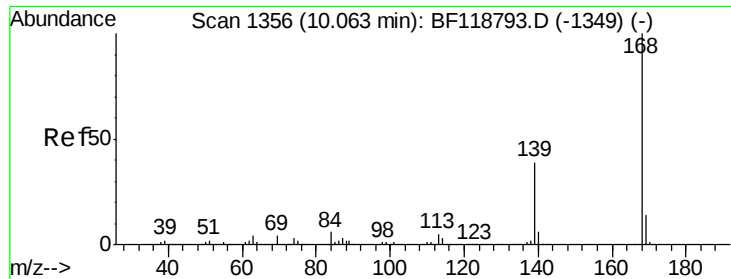
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#50
Dimethylphthalate
Concen: 3.982 ng
RT: 9.56 min Scan# 1271
Delta R.T. -0.02 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.6	3.6	5.4
164	10.2	8.7	13.1





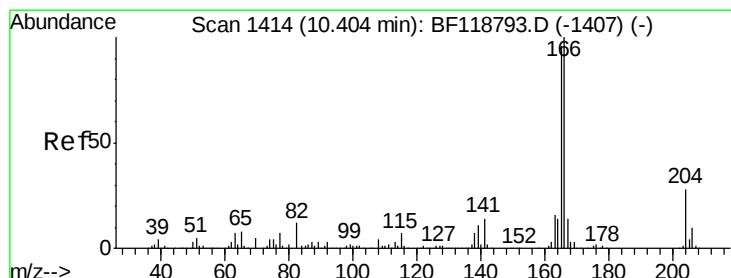
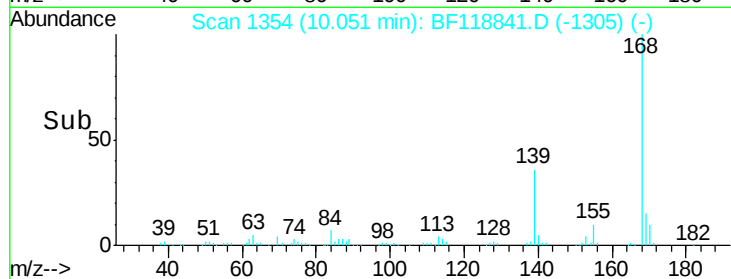
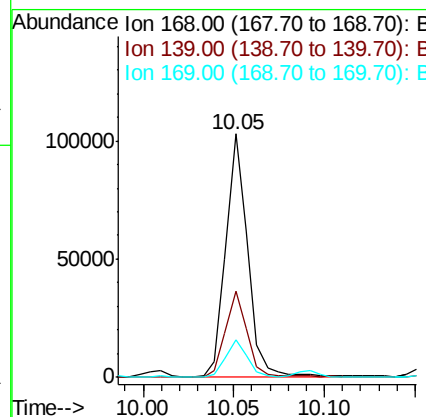
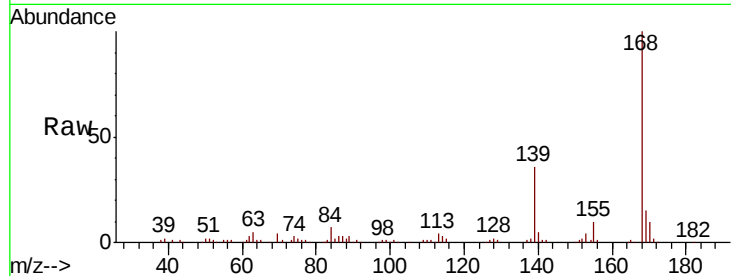
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Dibenzenofuran
Concen: 2.744 ng
RT: 10.05 min Scan# 1354
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.5	31.6	47.4
169	15.3	11.4	17.2

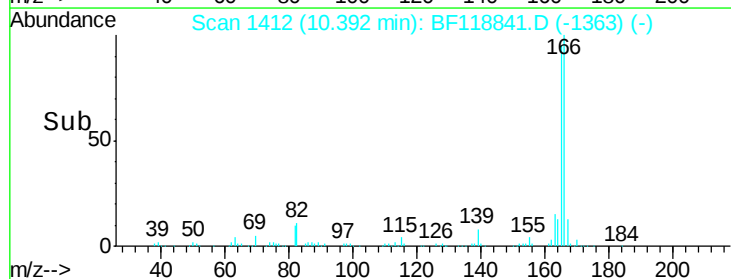
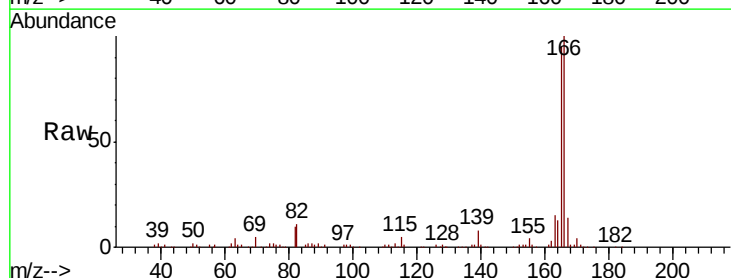
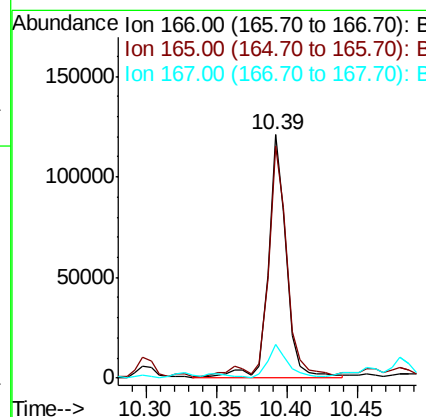
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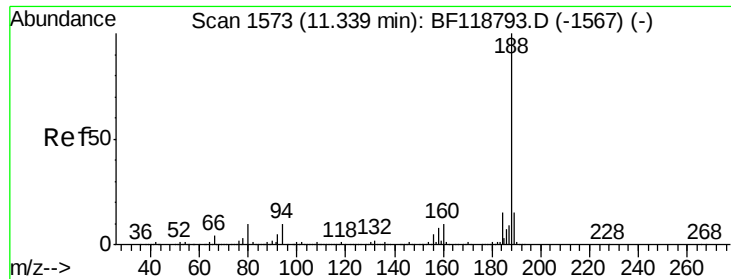
mohammad
2/10/2020 8:11:01 AM



#58
Fluorene
Concen: 4.492 ng
RT: 10.39 min Scan# 1412
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.4	77.0	115.6
167	13.9	11.1	16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Instrument :

BNA_F

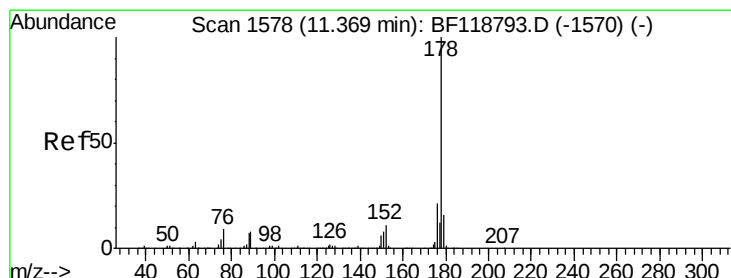
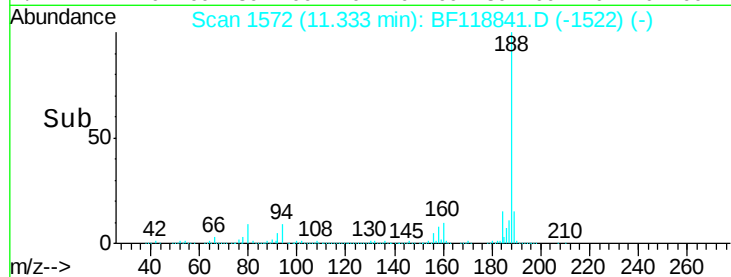
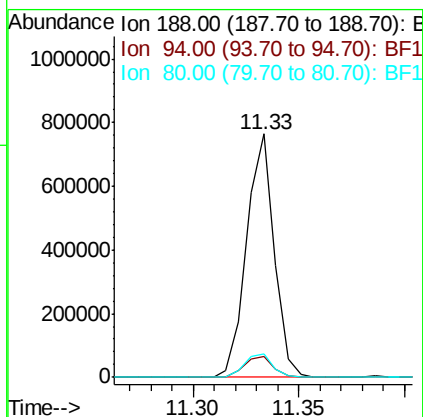
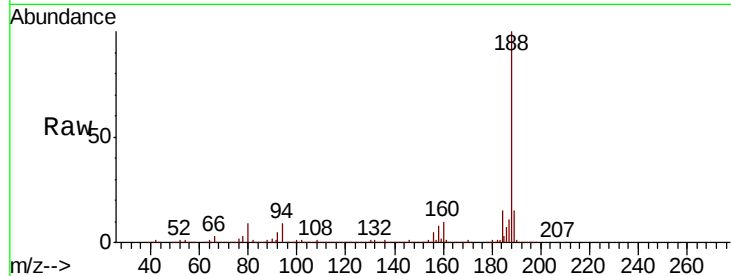
ClientSampleId :

SHORE-RD-PATH-BH-04-B

Tot Ion:	188	Resp:	691840
Ion Ratio	Lower	Upper	
188	100		
94	8.6	7.9	11.9
80	9.4	8.4	12.6

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#71

Phenanthrene

Concen: 39.379 ng

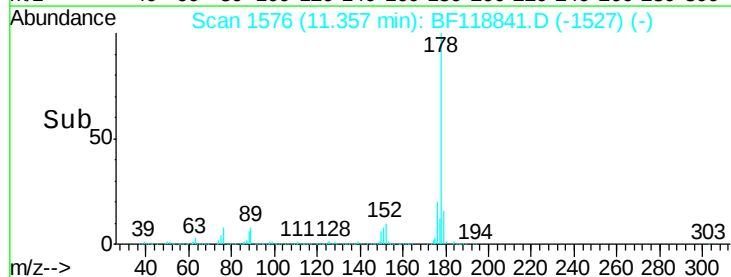
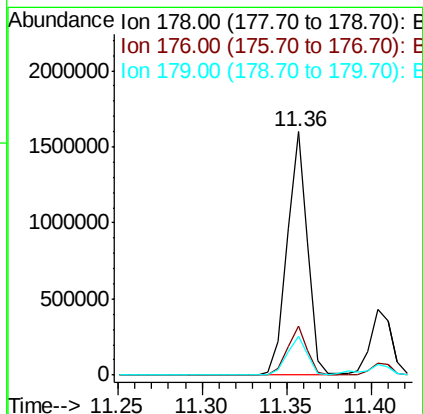
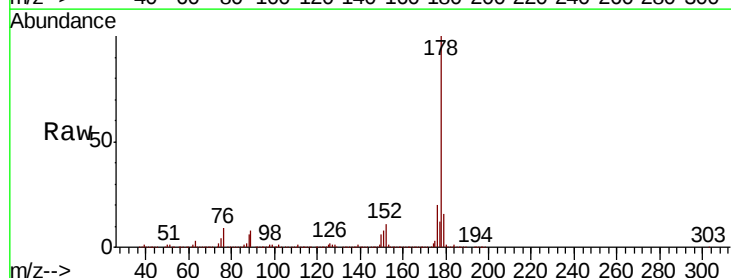
RT: 11.36 min Scan# 1576

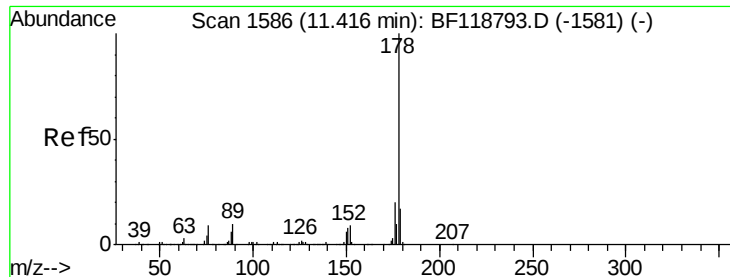
Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tgt Ion:	178	Resp:	1340450
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.6	24.8
179	16.0	13.2	19.8





#72

Anthracene

Concen: 10.882 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Instrument :

BNA_F

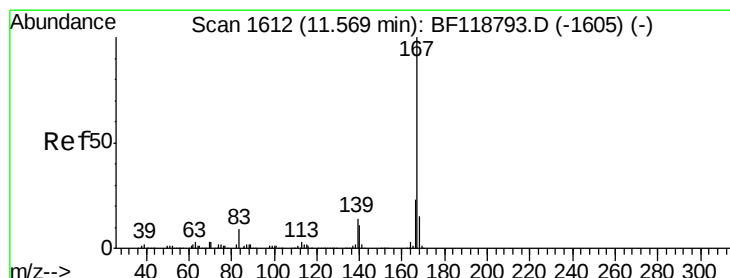
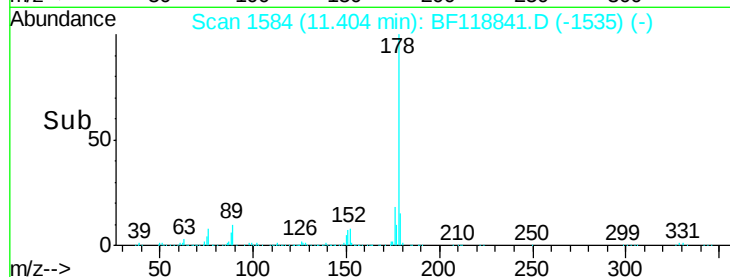
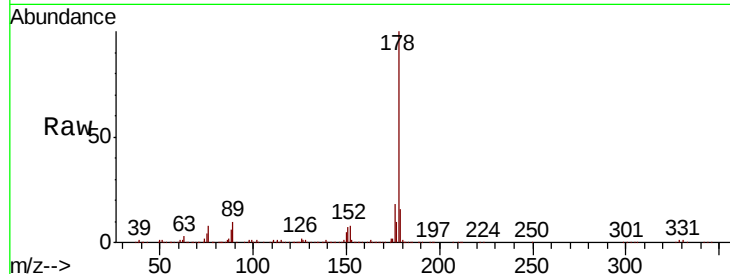
ClientSampleId :

SHORE-RD-PATH-BH-04-B

Tot Ion:	178	Resp:	368517
Ion Ratio	Lower	Upper	
178	100		
176	18.2	16.2	24.2
179	15.5	13.4	20.2

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#73

Carbazole

Concen: 3.991 ng

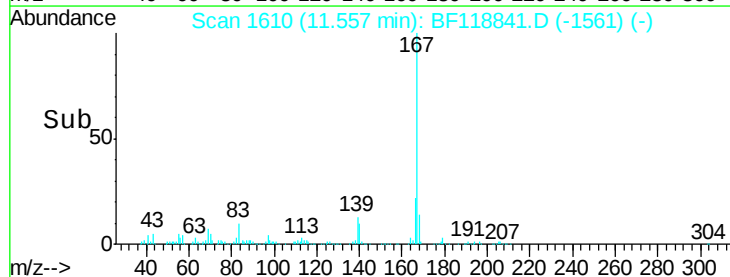
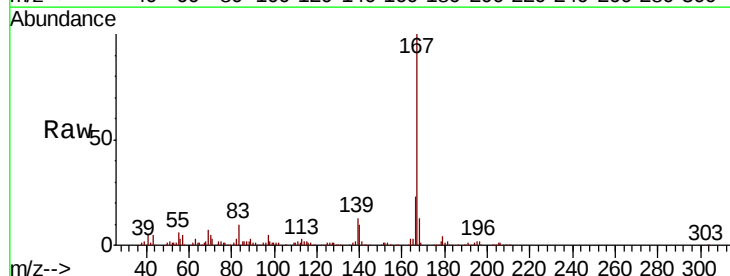
RT: 11.56 min Scan# 1610

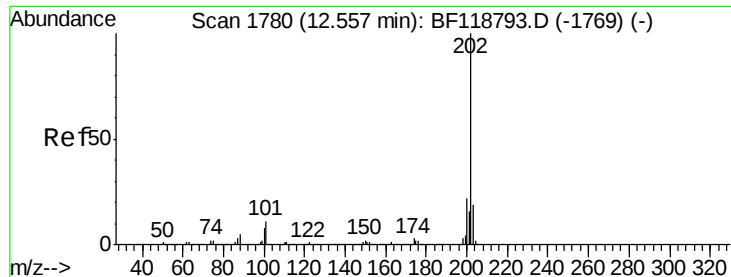
Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tgt Ion:	167	Resp:	118613
Ion Ratio	Lower	Upper	
167	100		
166	22.6	18.4	27.6
139	12.8	11.1	16.7





#75

Fluoranthene

Concen: 57.192 ng

RT: 12.55 min Scan# 1779

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Instrument :

BNA_F

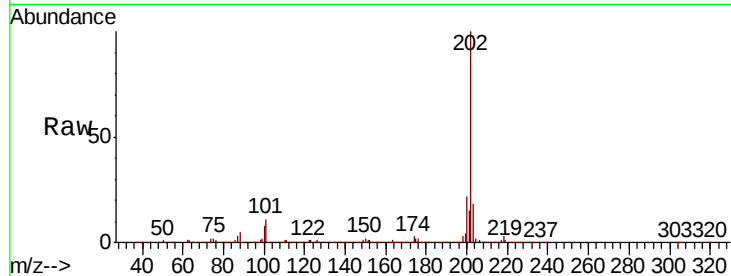
ClientSampleId :

SHORE-RD-PATH-BH-04-B

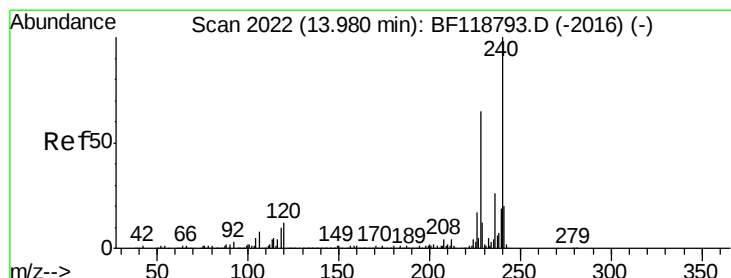
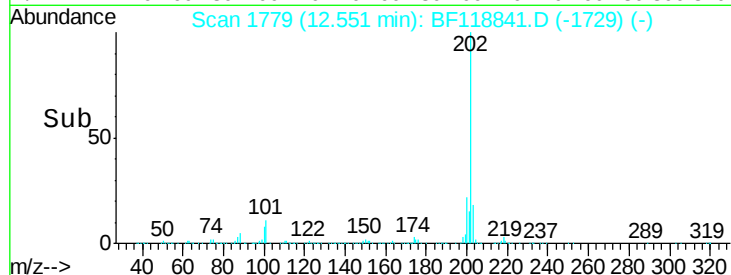
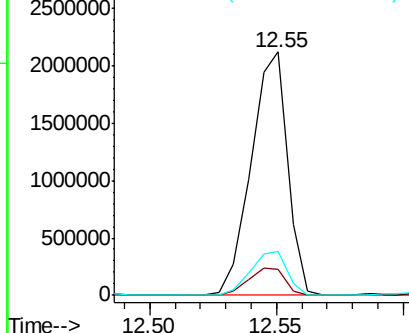
Tot Ion:	202	Resp:	2125559
Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.0
203	18.2	0.0	38.7

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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: 13.97 min Scan# 2021

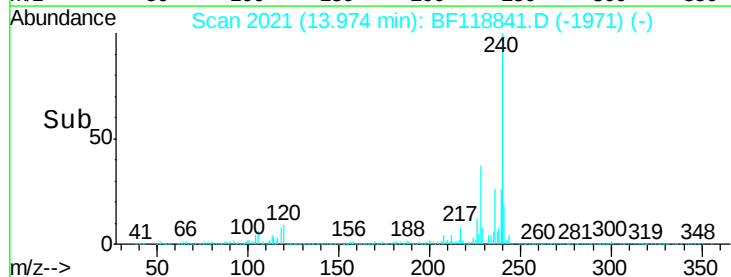
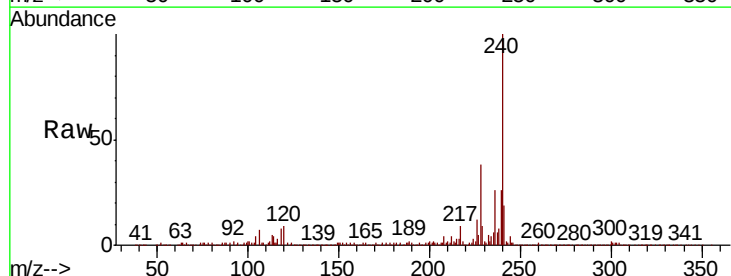
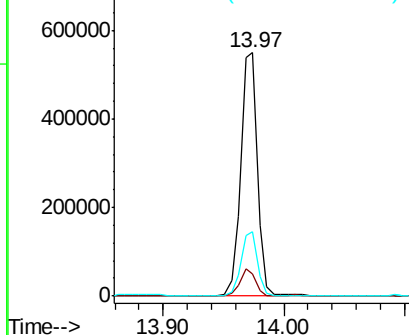
Delta R.T. -0.01 min

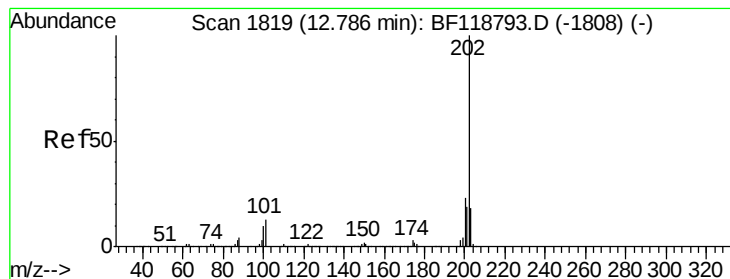
Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tgt Ion:	240	Resp:	531444
Ion	Ratio	Lower	Upper
240	100		
120	9.0	9.4	14.0#
236	26.3	21.0	31.6

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 59.943 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Instrument :

BNA_F

ClientSampleId :

SHORE-RD-PATH-BH-04-B

Tot Ion:202 Resp: 2185412

Ion Ratio Lower Upper

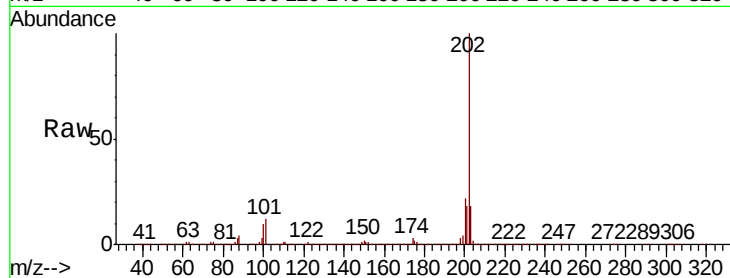
202 100

200 22.2 18.2 27.2

203 18.5 14.8 22.2

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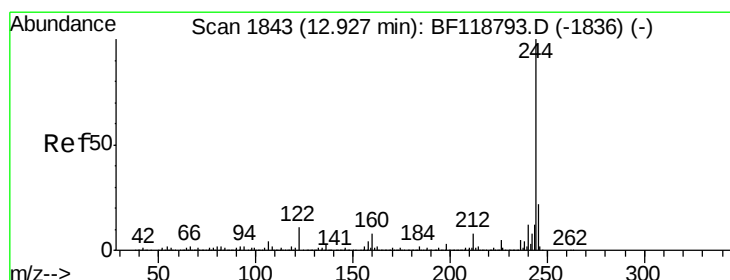
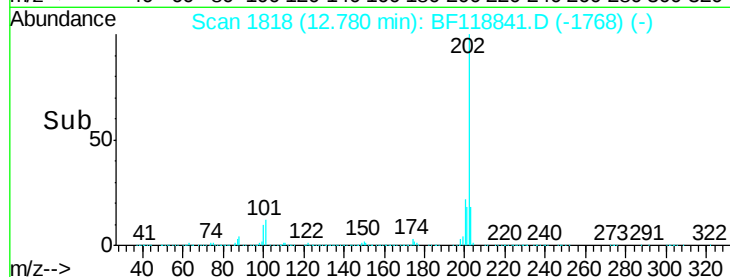
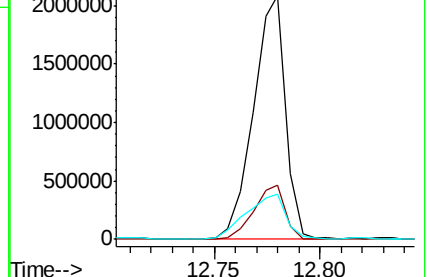
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 63.821 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

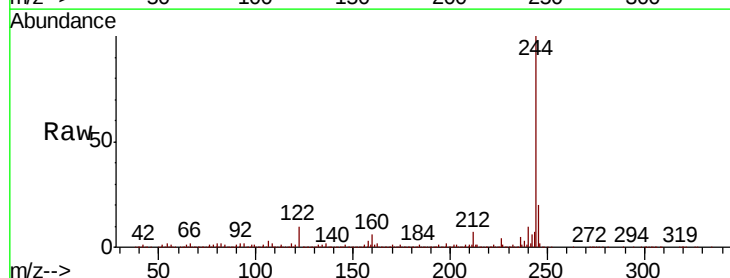
Tgt Ion:244 Resp: 1651253

Ion Ratio Lower Upper

244 100

212 6.9 6.5 9.7

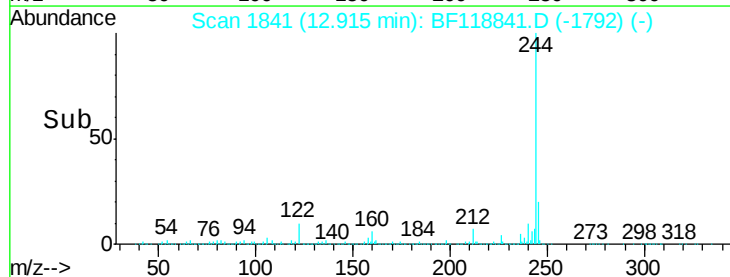
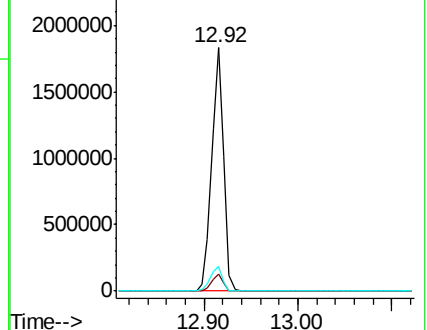
122 9.9 8.9 13.3

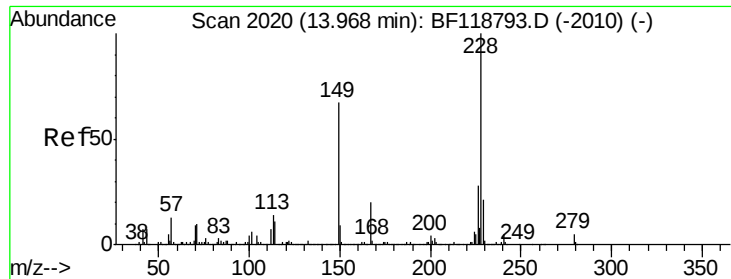


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





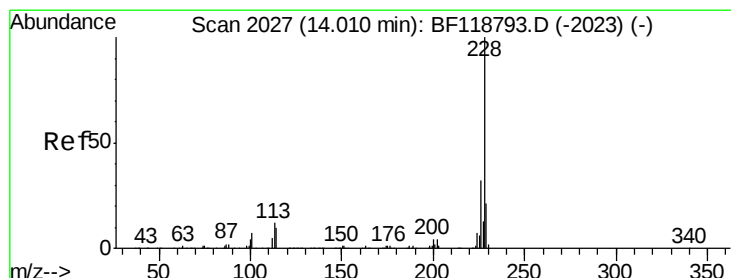
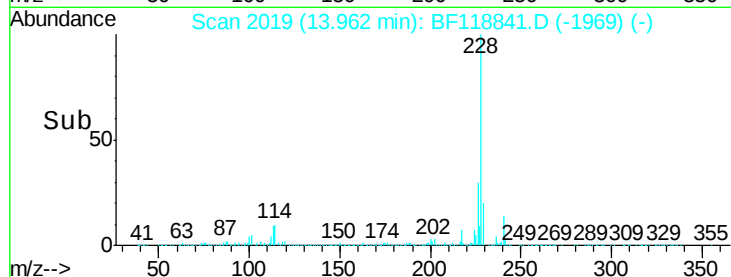
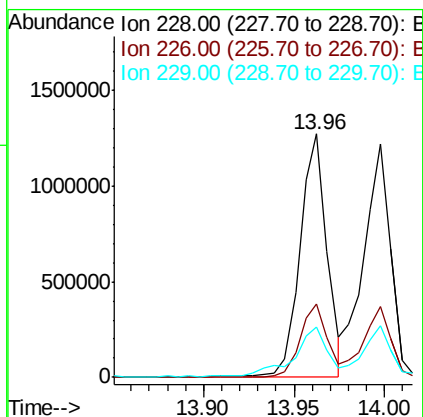
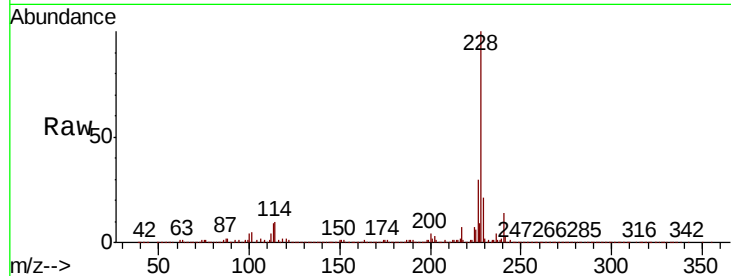
#81
Benzo(a)anthracene
Concen: 41.789 ng
RT: 13.96 min Scan# 2019
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion:228 Resp: 1321539
Ion Ratio Lower Upper
228 100
226 30.3 22.7 34.1
229 20.7 16.6 25.0

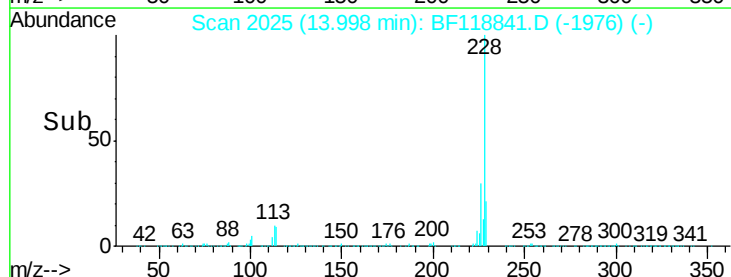
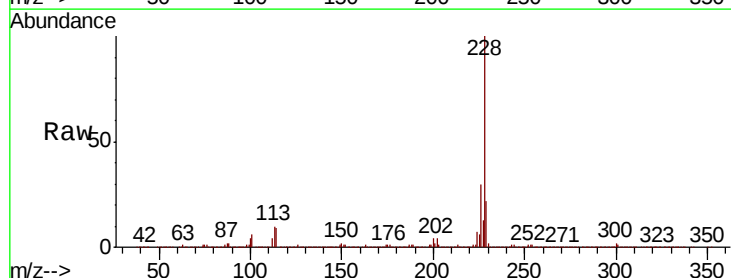
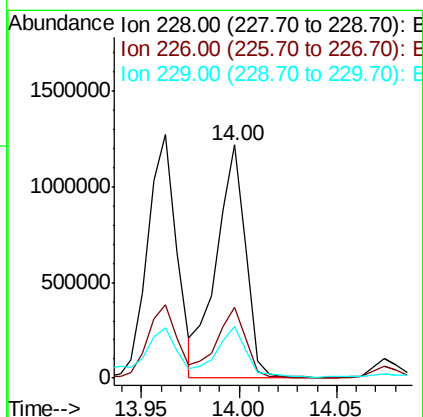
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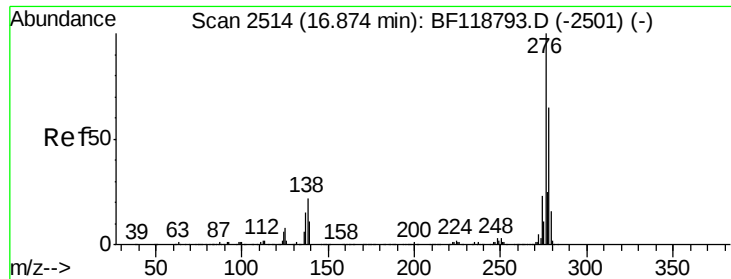
mohammad
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#83
Chrysene
Concen: 39.876 ng
RT: 14.00 min Scan# 2025
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion:228 Resp: 1265660
Ion Ratio Lower Upper
228 100
226 30.3 25.4 38.0
229 22.1 16.9 25.3





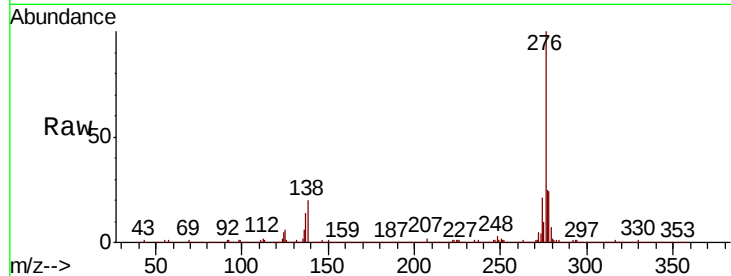
#86
Indeno(1,2,3-cd)pyrene
Concen: 22.766 ng
RT: 16.85 min Scan# 2510
Delta R.T. -0.02 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

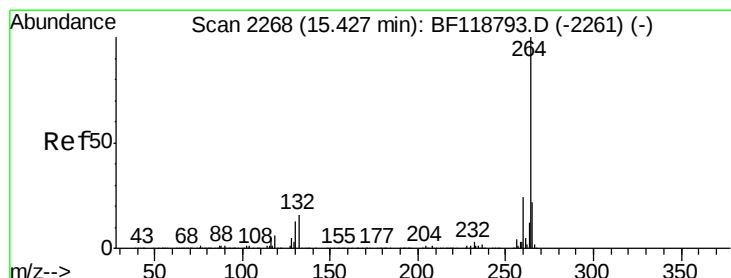
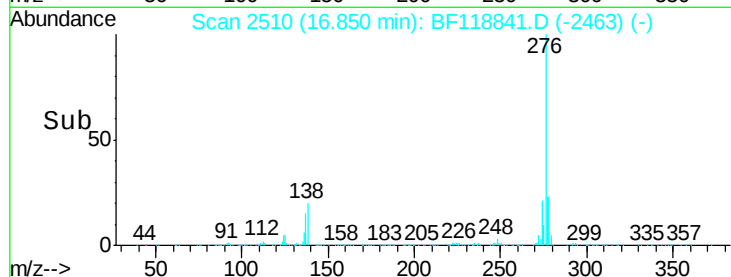
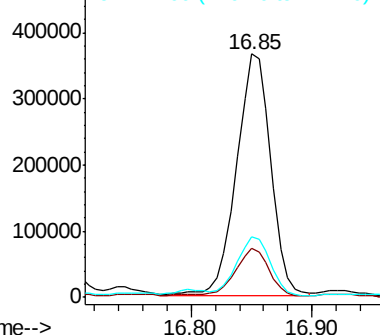
Tot Ion	Ratio	Lower	Upper
276	100		
138	20.0	18.3	27.5
277	23.9	20.2	30.4

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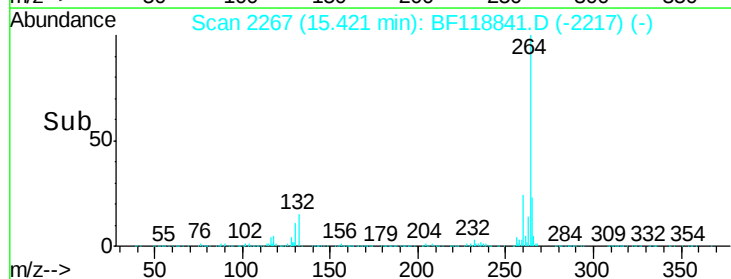
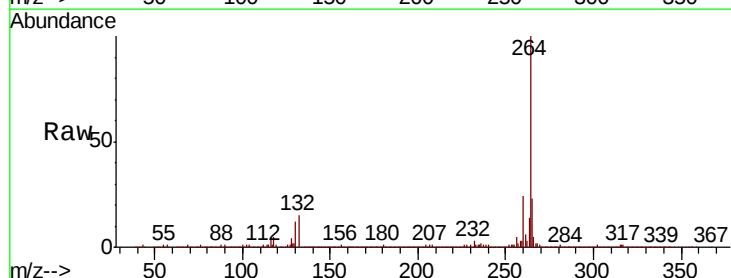
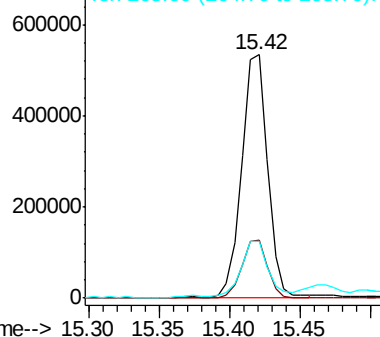
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

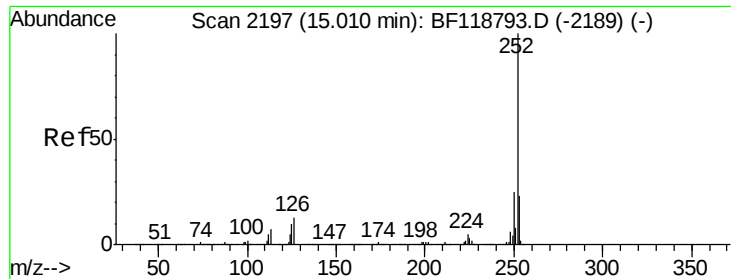


#87
Perylene-d12
Concen: 20.000 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.1	28.7
265	23.4	17.2	25.8

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





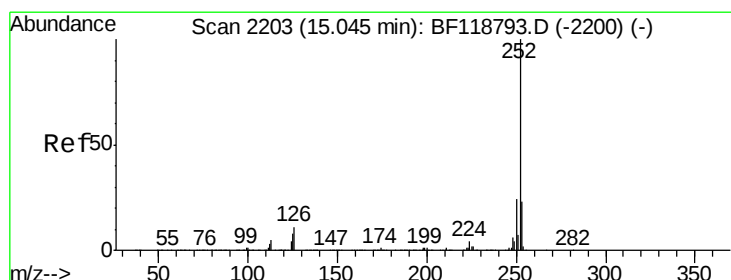
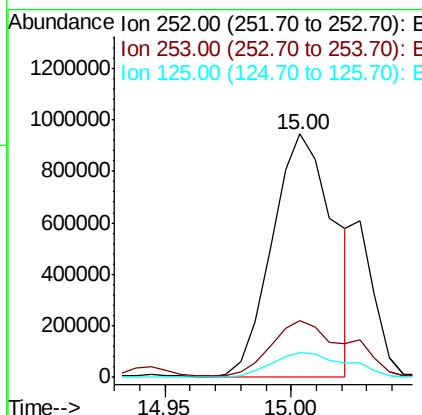
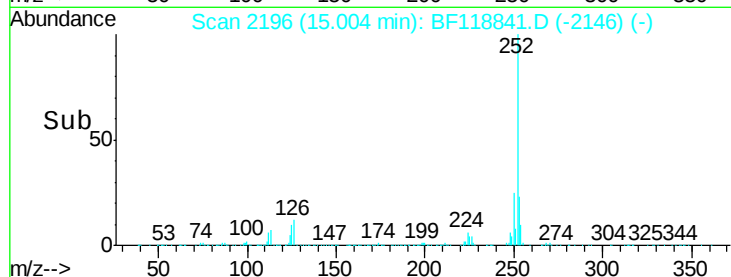
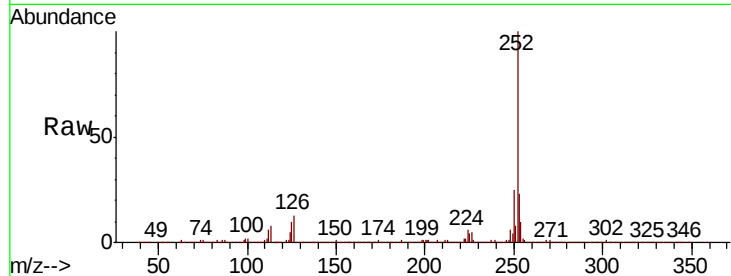
#88
Benzo(b)fluoranthene
Concen: 37.598 ng m
RT: 15.00 min Scan# 2196
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion:252 Resp: 1617603
Ion Ratio Lower Upper
252 100
253 23.3 18.4 27.6
125 10.2 8.1 12.1

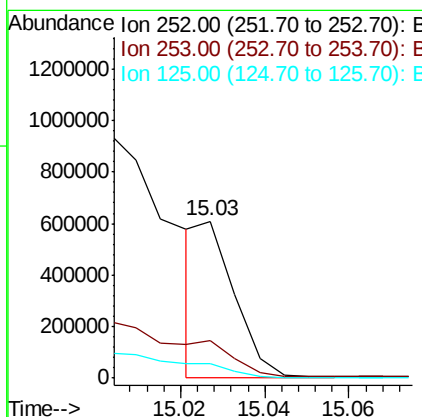
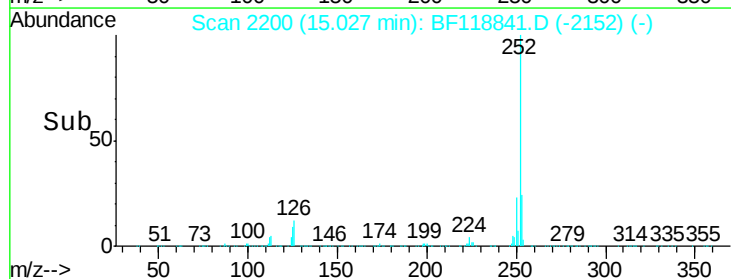
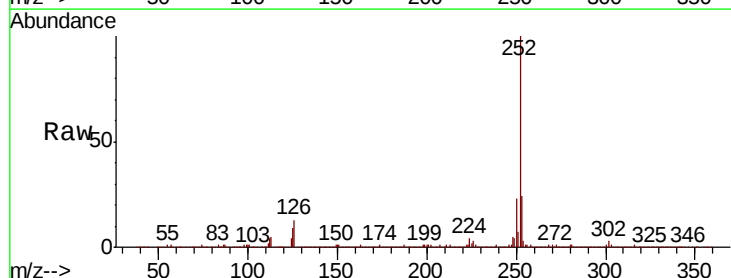
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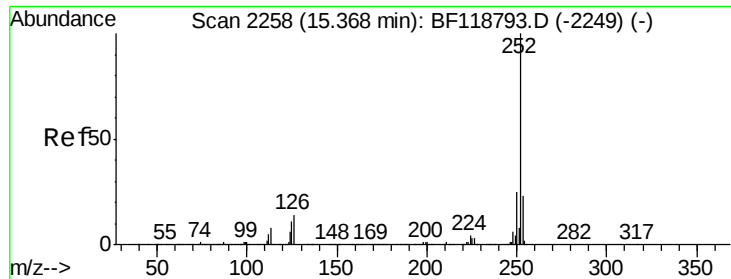
mohammad
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#89
Benzo(k)fluoranthene
Concen: 9.743 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.02 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion:252 Resp: 365022
Ion Ratio Lower Upper
252 100
253 23.9 18.2 27.4
125 9.3 7.0 10.6





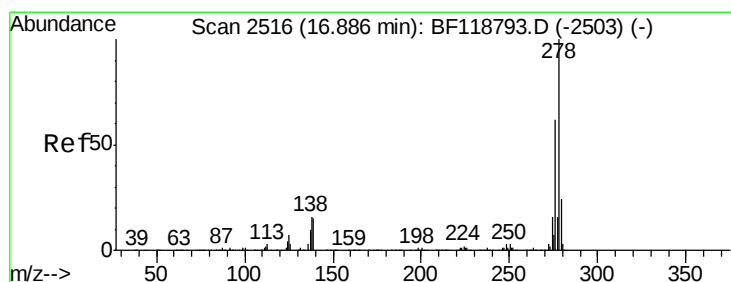
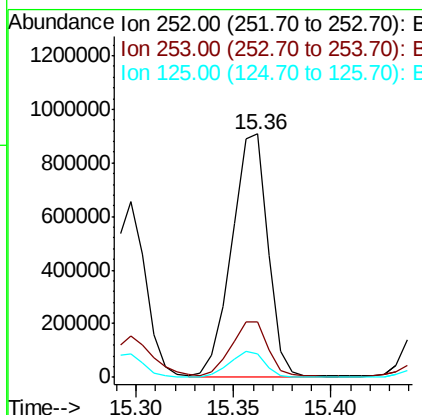
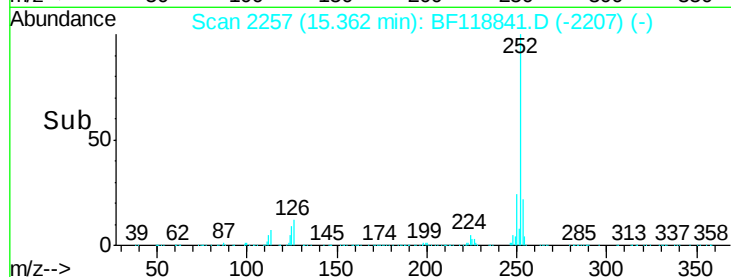
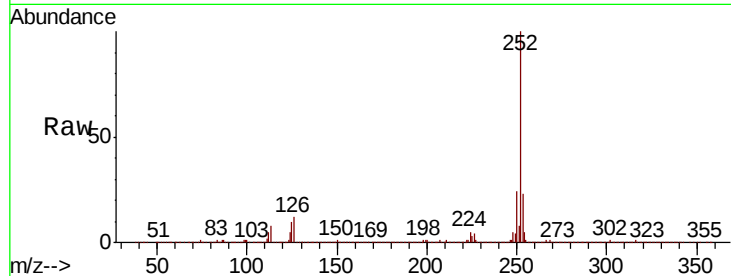
#90
Benzo(a)pyrene
Concen: 31.517 ng
RT: 15.36 min Scan# 2257
Delta R.T. -0.01 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Instrument :
BNA_F
ClientSampleId :
SHORE-RD-PATH-BH-04-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	9.6	8.7	13.1

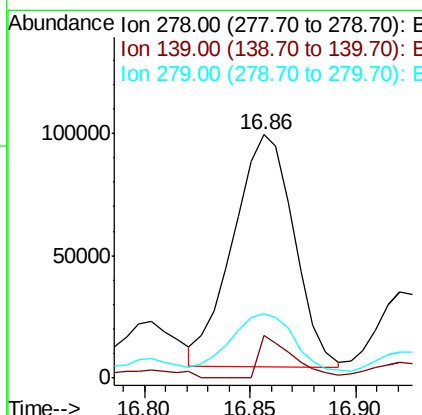
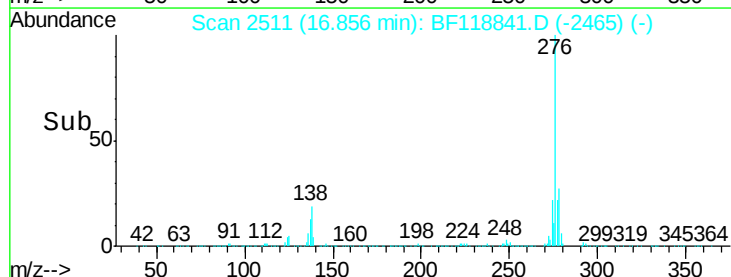
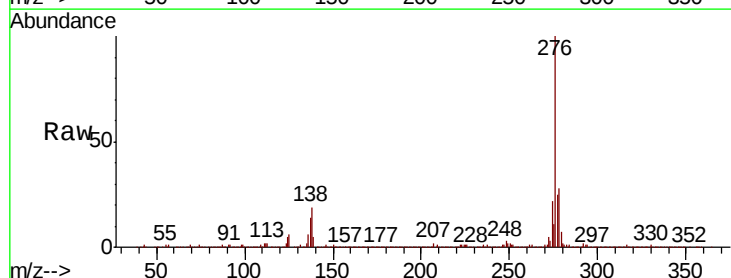
Manual Integrations
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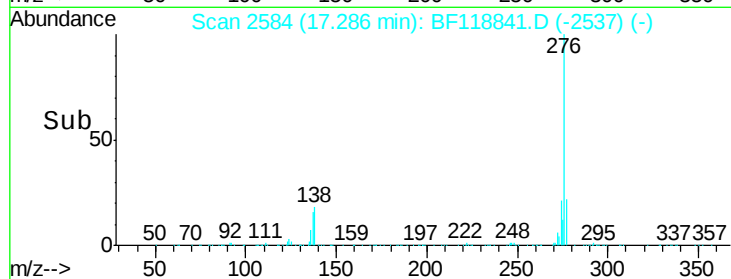
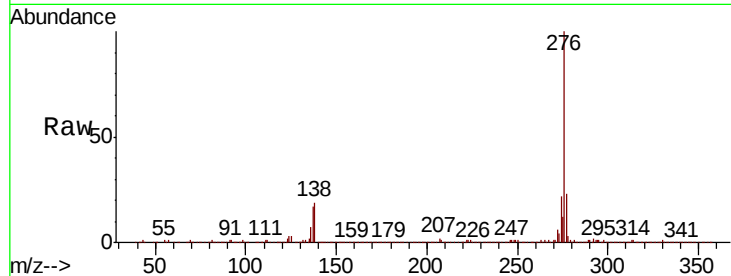
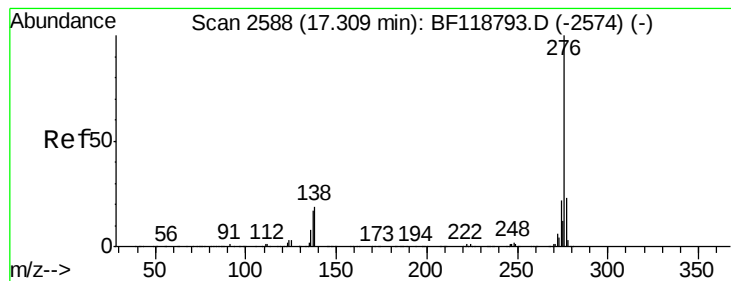
mohammad
2/10/2020 8:11:01 AM



#91
Dibenzo(a,h)anthracene
Concen: 5.812 ng
RT: 16.86 min Scan# 2511
Delta R.T. -0.03 min
Lab File: BF118841.D
Acq: 6 Feb 2020 17:09

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.4	12.3	18.5
279	26.6	19.1	28.7





#92

Benzo(a,h,i)perylene

Concen: 22.440 ng

RT: 17.29 min Scan# 2584

Delta R.T. -0.02 min

Lab File: BF118841.D

Acq: 6 Feb 2020 17:09

Tot Ion:	276	Resp:	705419
Ion Ratio	Lower	Upper	
276	100		
277	23.5	18.7	28.1
138	19.4	15.4	23.2

Instrument :

BNA_F

ClientSampleId :

SHORE-RD-PATH-BH-04-B

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