

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
 Data File : BF118881.D
 Acq On : 10 Feb 2020 21:14
 Operator : CG/JU
 Sample : L1468-03 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5

Manual Integrations
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Quant Time: Feb 11 01:24:13 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	6.82	152	156277	20.00	ng	0.00
21) Naphthalene-d8	8.10	136	589989	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	353968	20.00	ng	0.00
64) Phenanthrene-d10	11.34	188	656239	20.00	ng	0.00
76) Chrysene-d12	13.98	240	450088	20.00	ng	0.00
87) Perylene-d12	15.43	264	493934	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	243901	29.54	ng	0.00
7) Phenol-d6	6.45	99	302032	29.47	ng	0.00
23) Nitrobenzene-d5	7.37	82	139909	14.13	ng	-0.01
42) 2,4,6-Tribromophenol	10.64	330	85839	20.27	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	352960	17.83	ng	-0.01
79) Terphenyl-d14	12.92	244	443940	20.26	ng	-0.01
Target Compounds						
31) Naphthalene	8.13	128	6648119	246.376	ng	Qvalue # 93
37) 2-Methylnaphthalene	8.82	142	2313991	123.647	ng	96
38) 1-Methylnaphthalene	8.92	142	1754585	99.664	ng	100
46) 1,1'-Biphenyl	9.27	154	647723	26.453	ng	98
49) Acenaphthylene	9.72	152	811246	27.602	ng	# 96
52) Acenaphthene	9.89	154	691997	35.730	ng	98
55) Dibenzofuran	10.06	168	758671	27.106	ng	# 97
58) Fluorene	10.40	166	1489176	70.722	ng	98
71) Phenanthrene	11.38	178	5292357	163.911	ng	96
72) Anthracene	11.42	178	1675900	52.175	ng	99
73) Carbazole	11.57	167	536756	19.041	ng	97
75) Fluoranthene	12.56	202	3444744	97.716	ng	98
78) Pvrene	12.79	202	3589783	116.260	ng	97
81) Benzo(a)anthracene	13.97	228	1770451m	66.104	ng	
83) Chrysene	14.01	228	1475795	54.901	ng	99
86) Indeno(1,2,3-cd)pyrene	16.87	276	593029	21.958	ng	96
88) Benzo(b)fluoranthene	15.02	252	1526983m	49.821	ng	
89) Benzo(k)fluoranthene	15.03	252	555973m	20.831	ng	
90) Benzo(a)pvrene	15.37	252	1379050	52.575	ng	99
91) Dibenzo(a,h)anthracene	16.87	278	175075	7.519	ng	# 90
92) Benzo(g,h,i)perylene	17.31	276	572883	25.582	ng	98

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

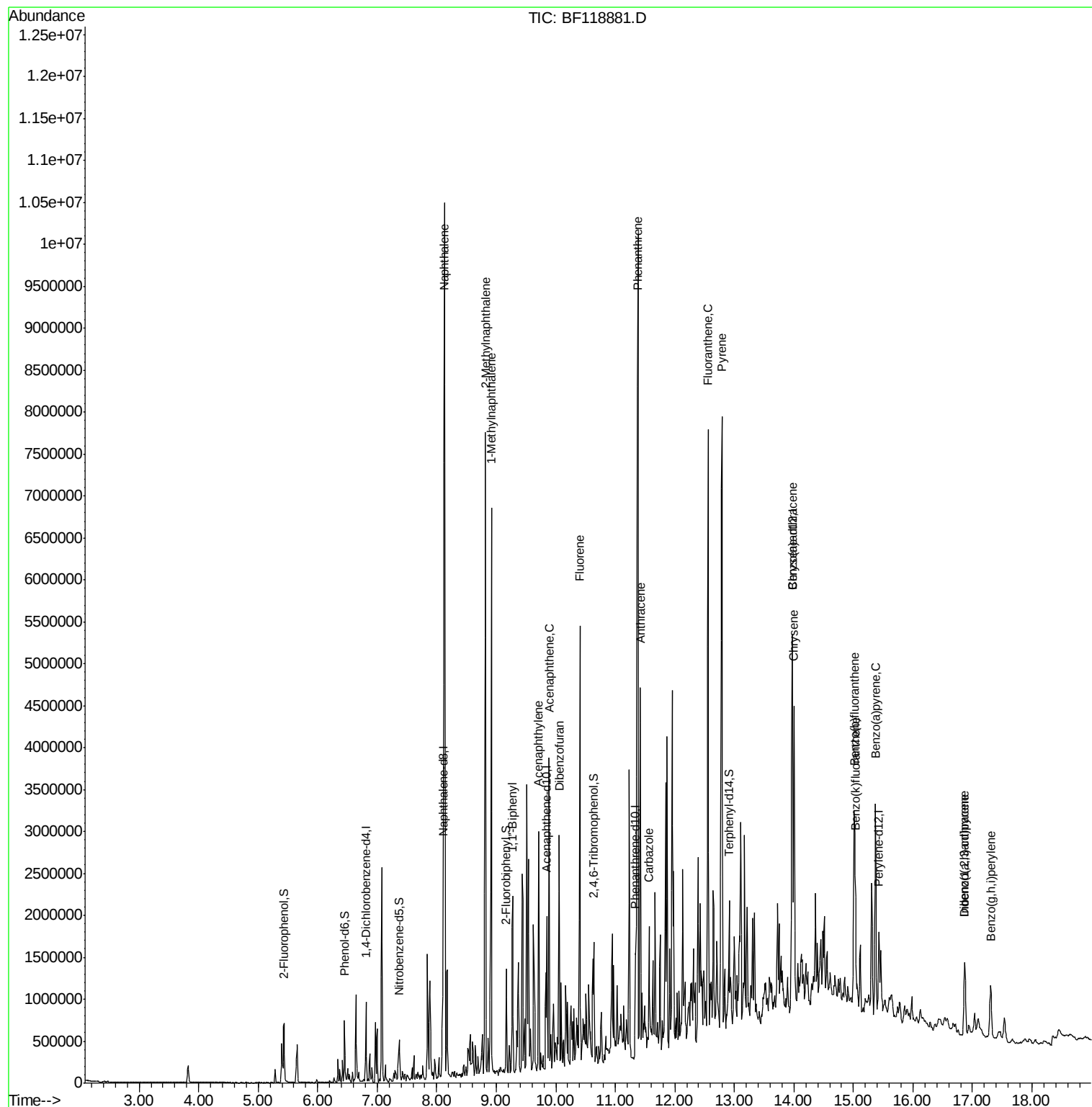
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118881.D
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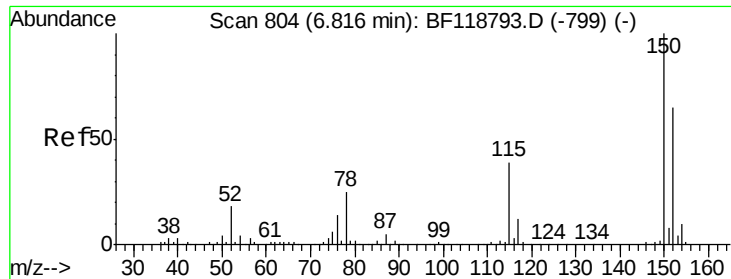
Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

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Quant Time: Feb 11 01:24:13 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





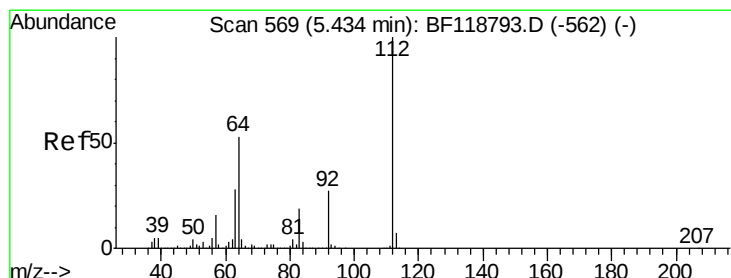
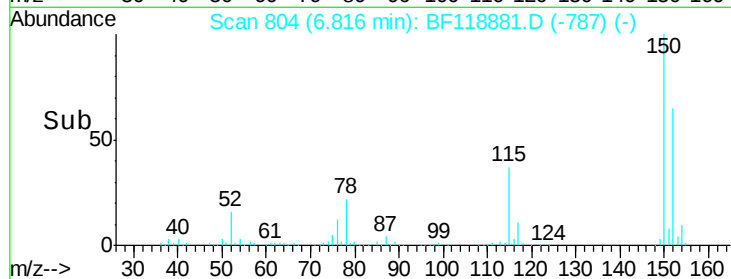
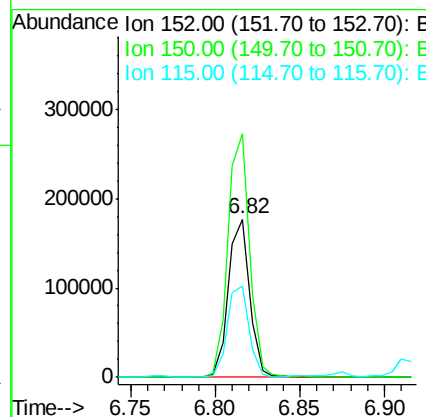
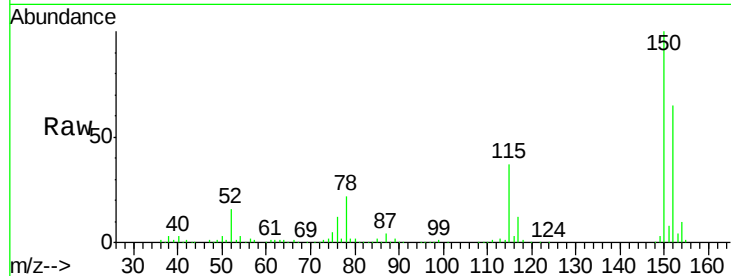
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.82 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	123.6	185.4
115	57.4	48.2	72.2

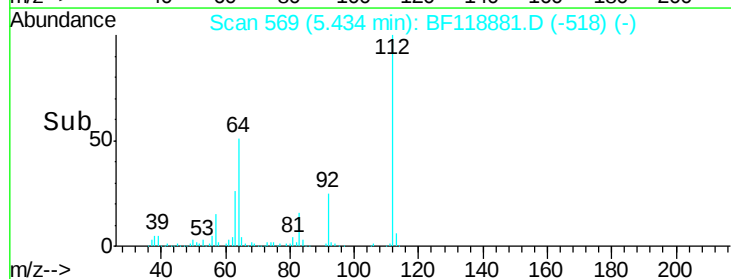
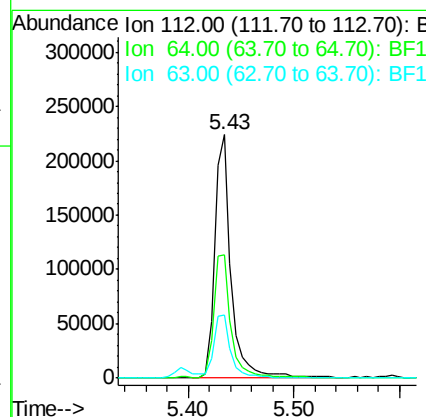
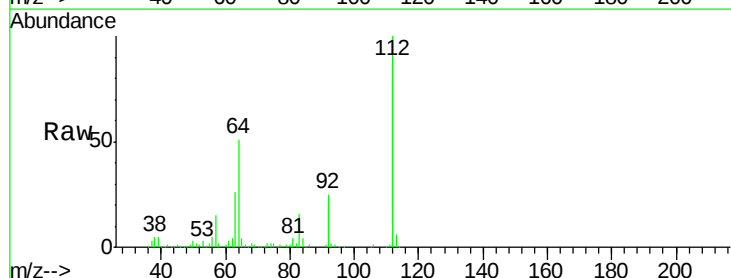
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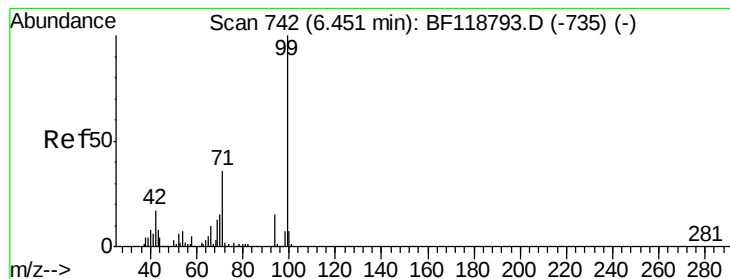
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#5
 2-Fluorophenol
 Concen: 29.543 ng
 RT: 5.43 min Scan# 569
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.7	42.6	63.8
63	26.2	22.2	33.4





#7

Phenol-d6

Concen: 29.471 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

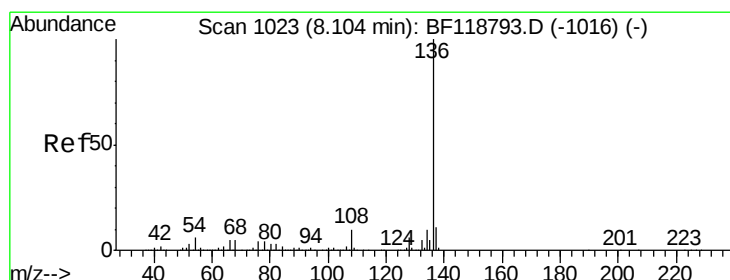
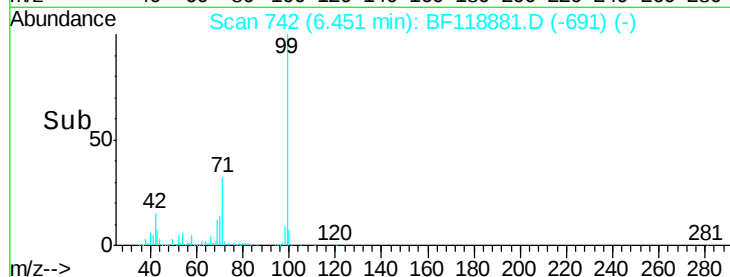
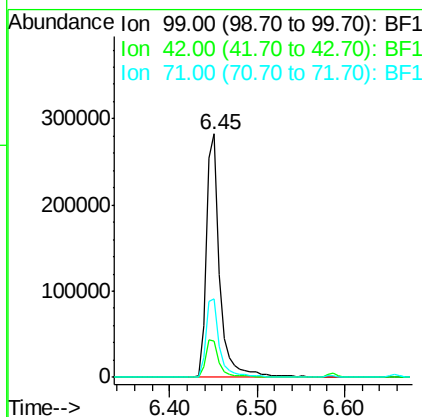
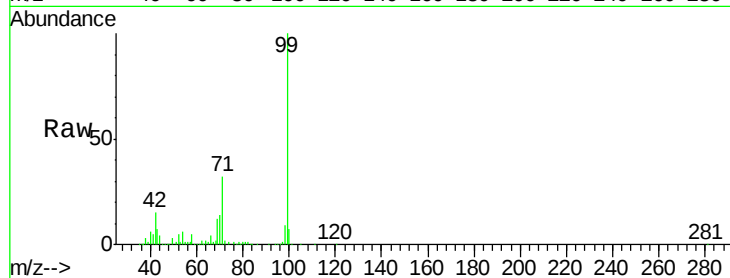
ClientSampleId :

TP10-EP1-2.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		302032		
42	14.9	13.4	20.0		
71	32.2	29.0	43.6		

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#21

Naphthalene-d8

Concen: 20.000 ng

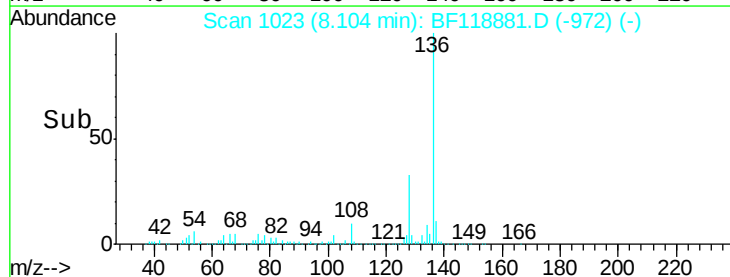
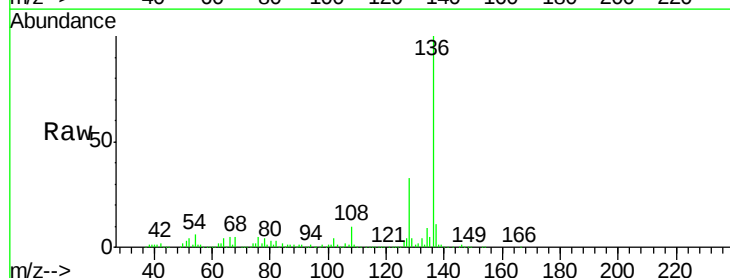
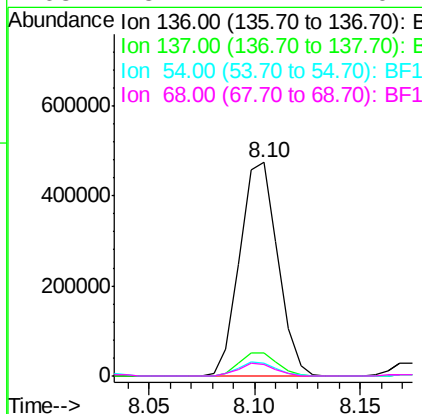
RT: 8.10 min Scan# 1023

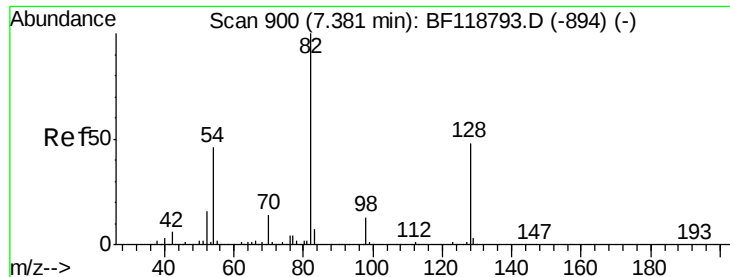
Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		589989		
137	11.0	8.7	13.1		
54	6.2	5.0	7.6		
68	5.4	4.2	6.4		





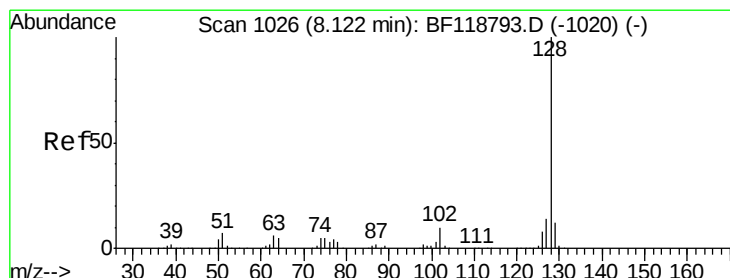
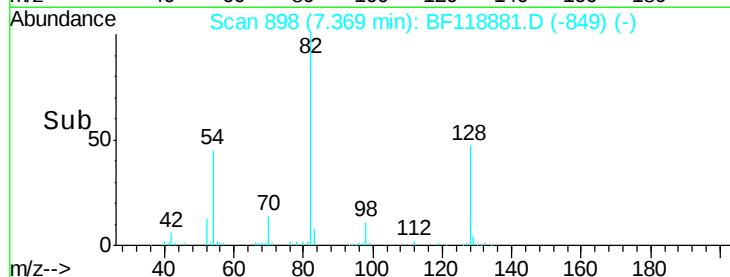
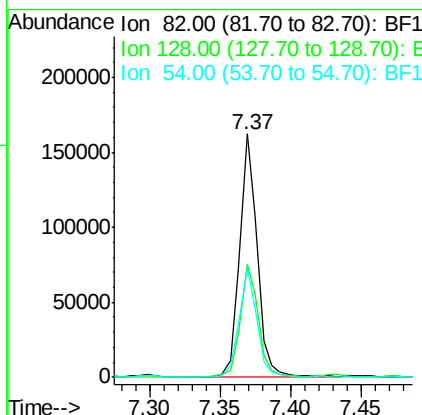
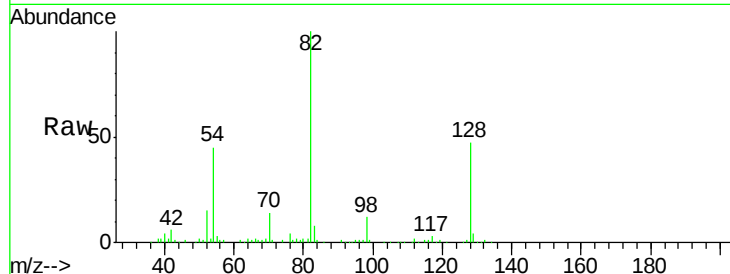
#23
Nitrobenzene-d5
Concen: 14.135 ng
RT: 7.37 min Scan# 898
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.6	38.5	57.7
54	44.8	36.7	55.1

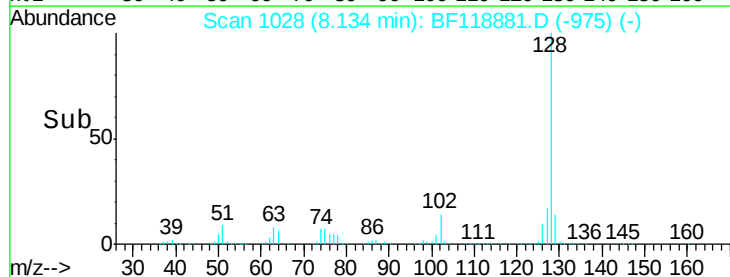
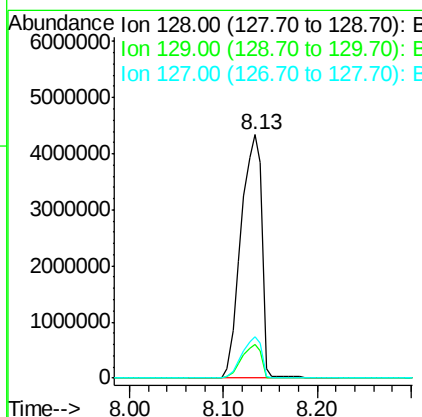
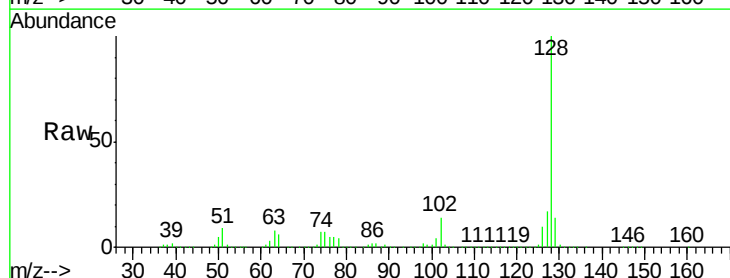
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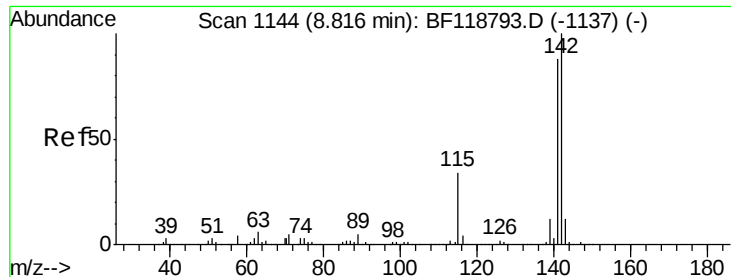
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#31
Naphthalene
Concen: 246.376 ng
RT: 8.13 min Scan# 1028
Delta R.T. 0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.4	14.2
127	17.1	11.3	16.9





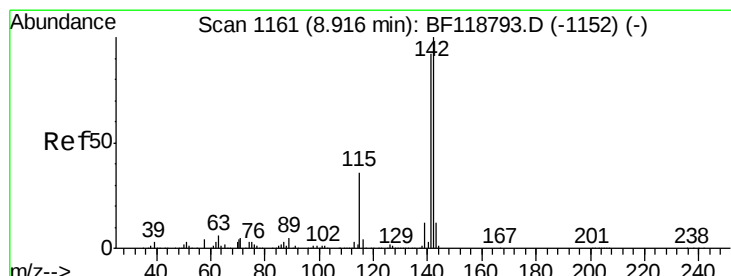
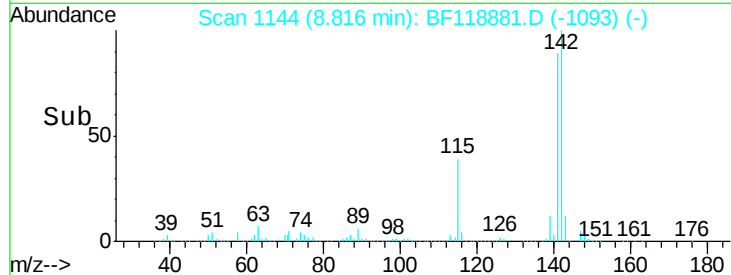
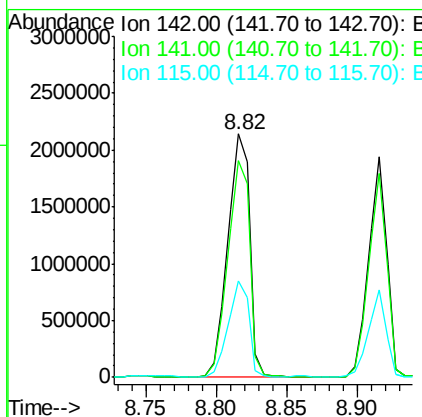
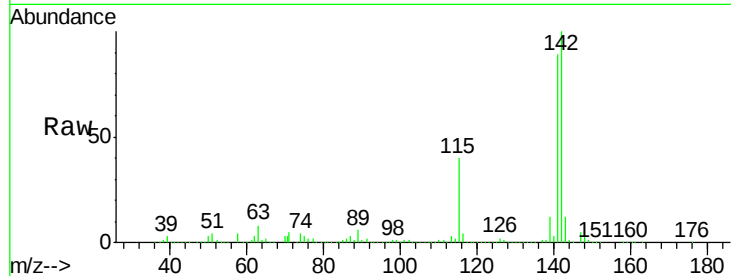
#37
 2-Methylnaphthalene
 Concen: 123.647 ng
 RT: 8.82 min Scan# 1144
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.1	105.1
115	39.7	27.3	40.9

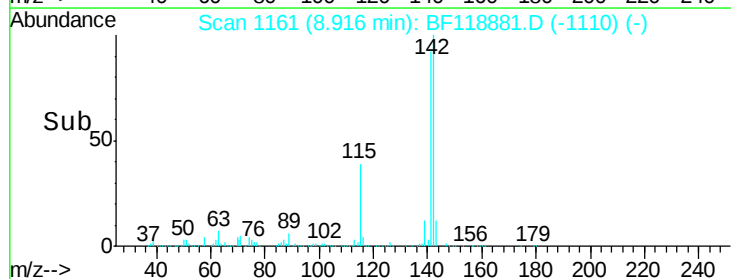
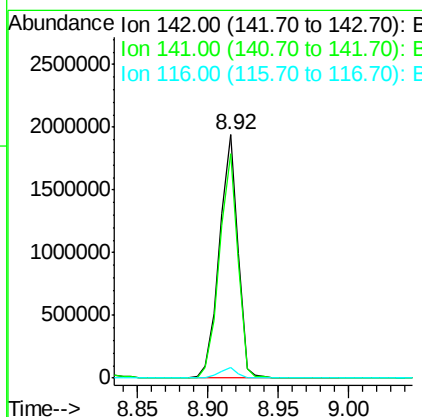
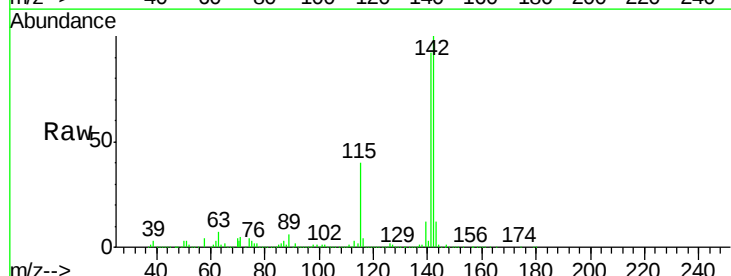
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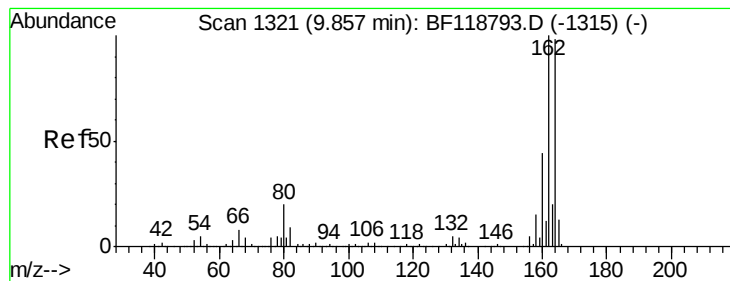
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#38
 1-Methylnaphthalene
 Concen: 99.664 ng
 RT: 8.92 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.8	110.6
116	4.3	3.0	4.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

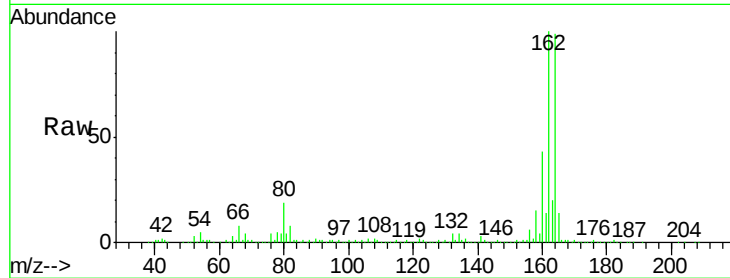
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TP10-EP1-2.5

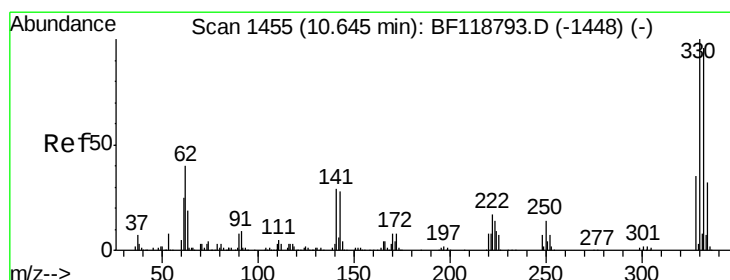
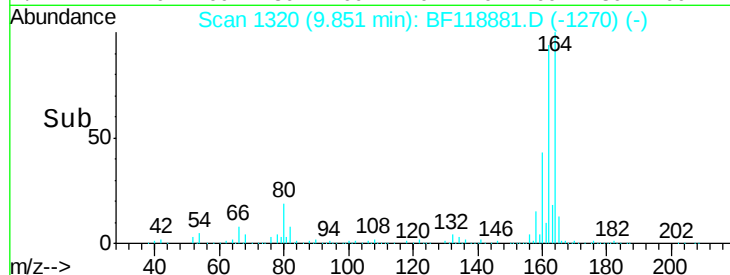
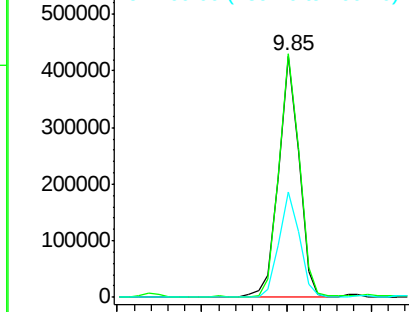
Tot Ion:	164	Resp:	353968
Ion Ratio	Lower	Upper	
164	100		
162	100.8	81.4	122.2
160	43.8	35.6	53.4

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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: 20.267 ng

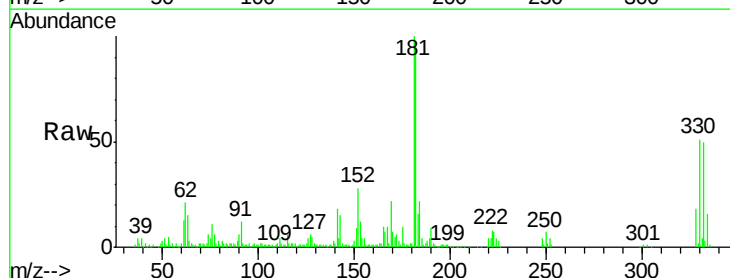
RT: 10.64 min Scan# 1454

Delta R.T. -0.01 min

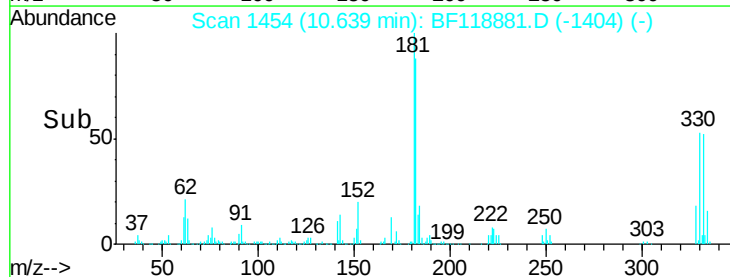
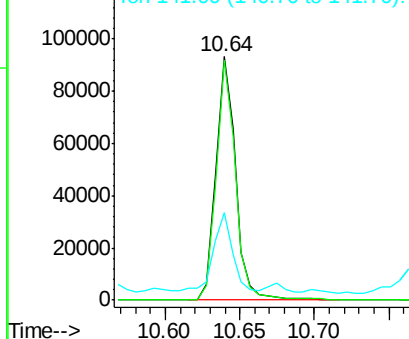
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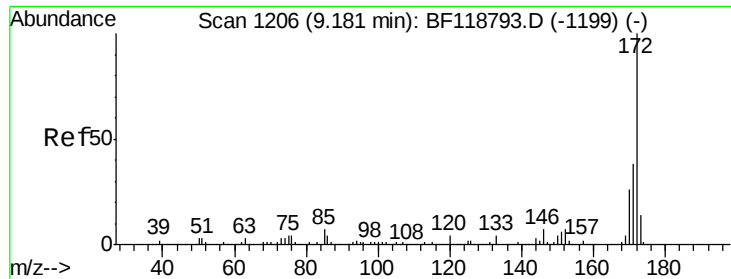
Acq: 10 Feb 2020 21:14

Tgt Ion:	330	Resp:	85839
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.3	115.9
141	30.5	22.4	33.6



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





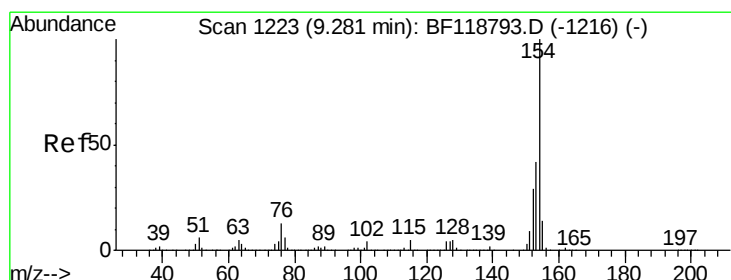
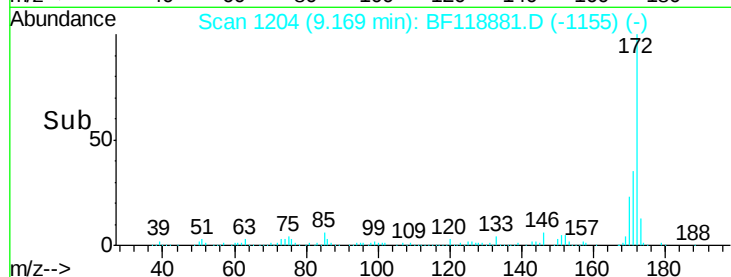
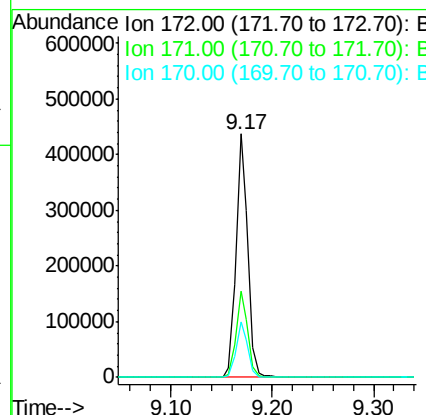
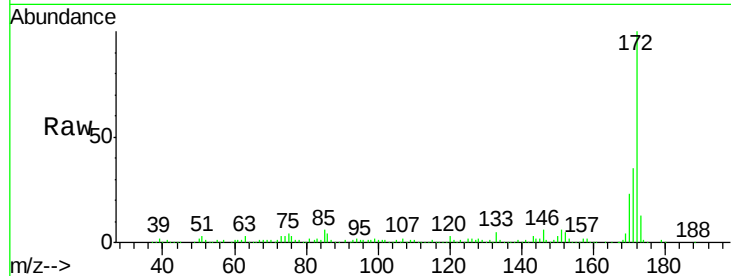
#45
2-Fluorobiphenyl
Concen: 17.826 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Resp	Lower	Upper
172	100	352960		
171	35.2		30.8	46.2
170	22.7		20.5	30.7

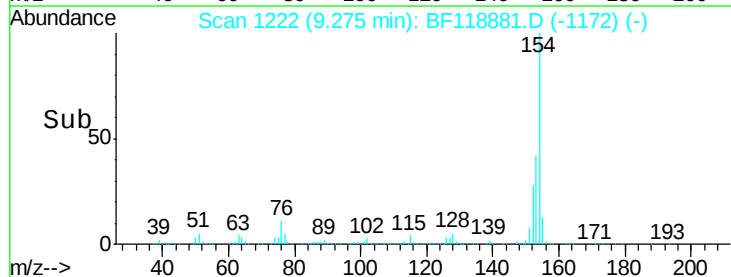
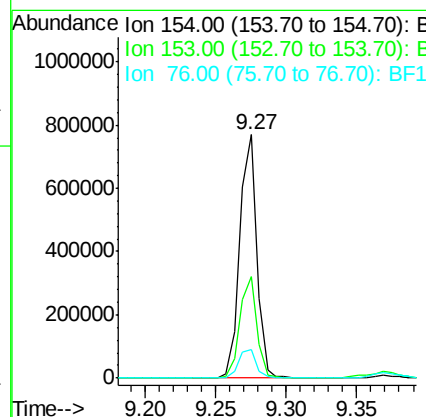
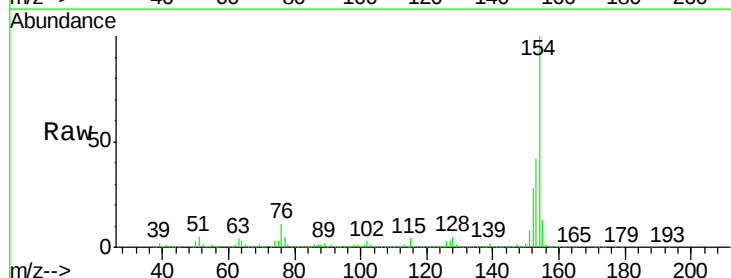
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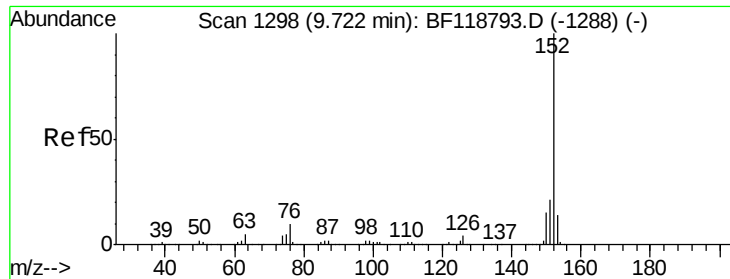
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#46
1,1'-Biphenyl
Concen: 26.453 ng
RT: 9.27 min Scan# 1222
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	647723		
153	41.6		22.4	62.4
76	11.5		0.0	32.7





#49

Acenaphthylene

Concen: 27.602 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

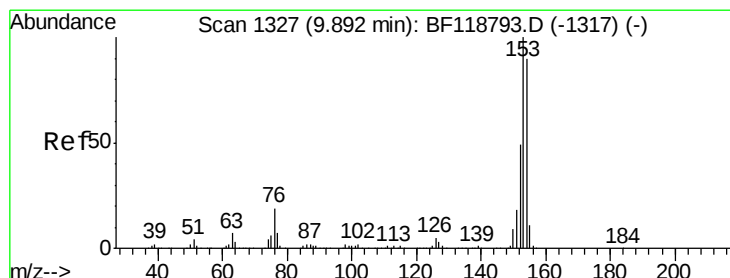
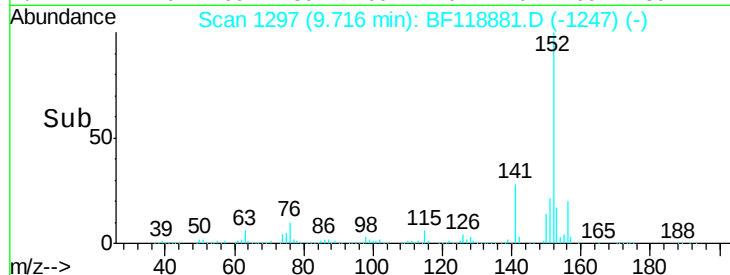
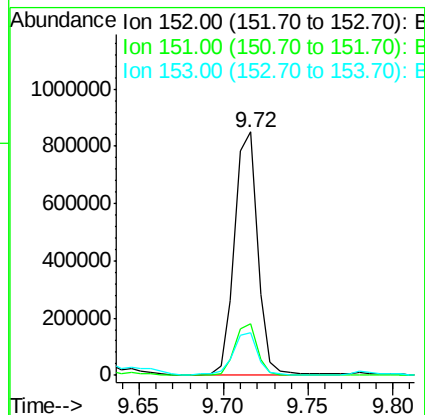
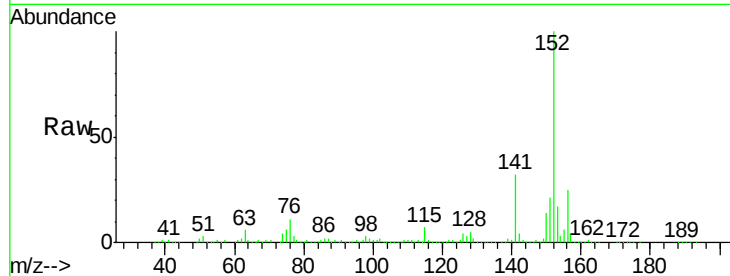
ClientSampleId :

TP10-EP1-2.5

Tot Ion:	152	Resp:	811246
Ion Ratio	Lower	Upper	
152	100		
151	21.0	17.1	25.7
153	17.5	11.0	16.4

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#52

Acenaphthene

Concen: 35.730 ng

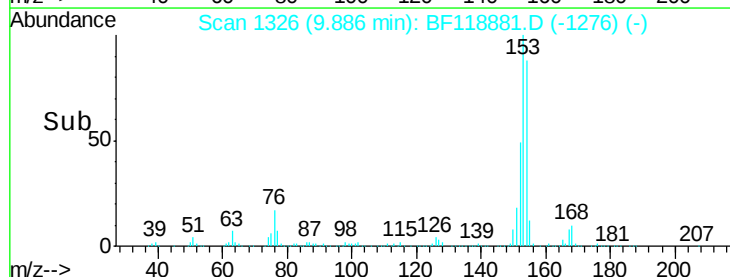
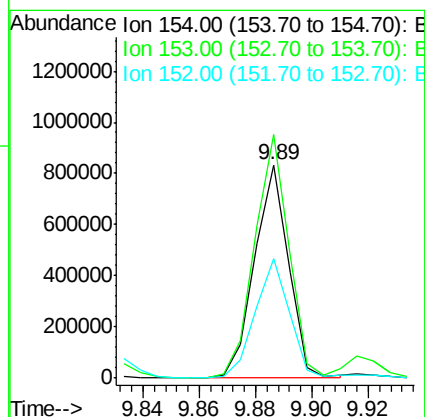
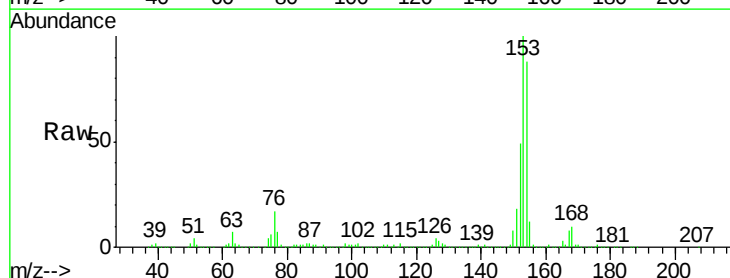
RT: 9.89 min Scan# 1326

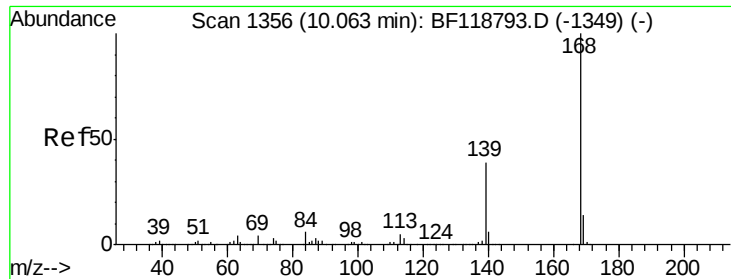
Delta R.T. -0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Tgt Ion:	154	Resp:	691997
Ion Ratio	Lower	Upper	
154	100		
153	114.1	89.4	134.0
152	56.0	43.6	65.4





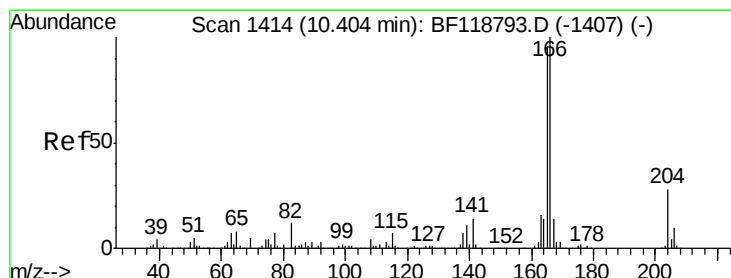
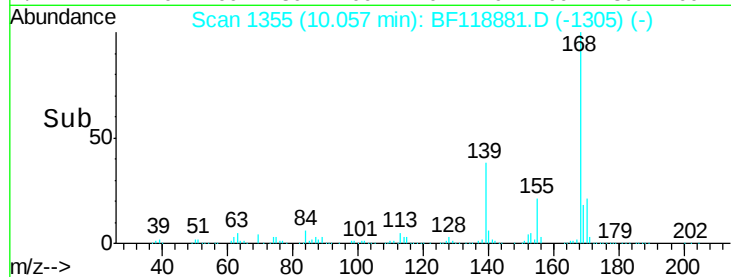
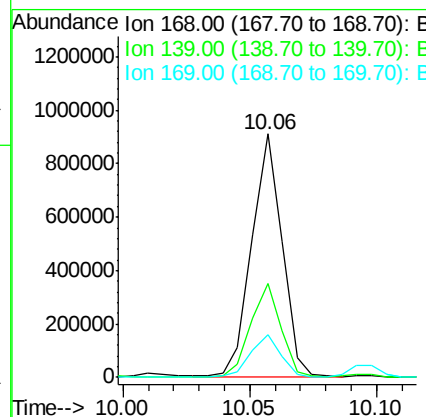
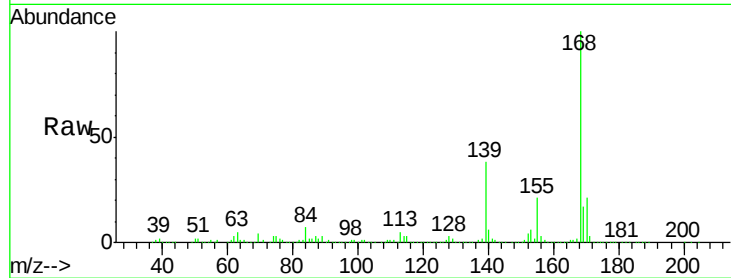
#55
Dibenzofuran
Concen: 27.106 ng
RT: 10.06 min Scan# 1355
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.6	47.4
169	17.5	11.4	17.2

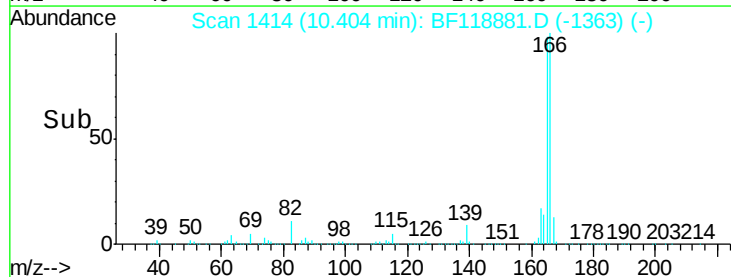
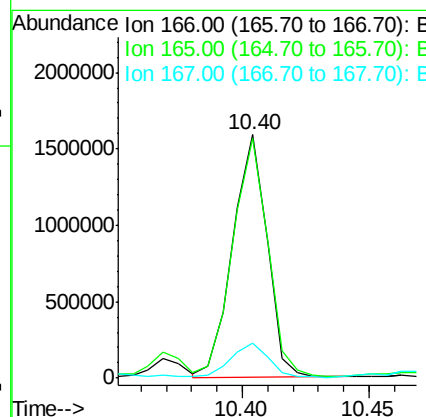
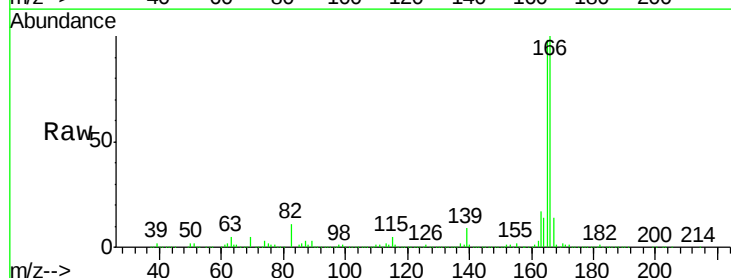
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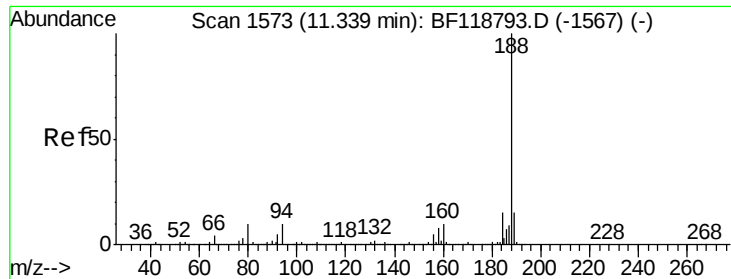
mohammad
2/13/2020 10:28:58 AM



#58
Fluorene
Concen: 70.722 ng
RT: 10.40 min Scan# 1414
Delta R.T. 0.00 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.3	77.0	115.6
167	14.3	11.1	16.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

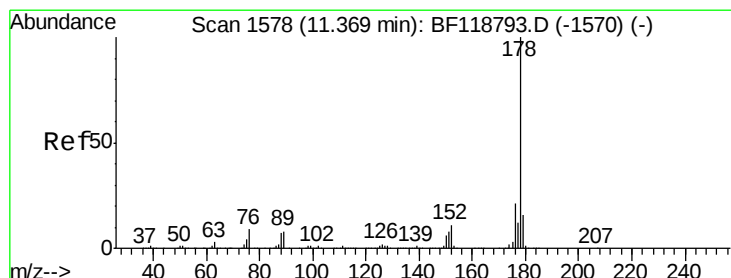
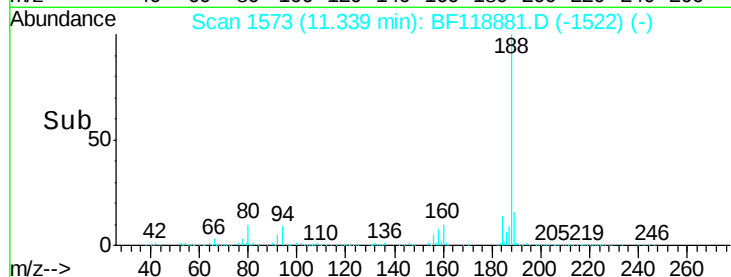
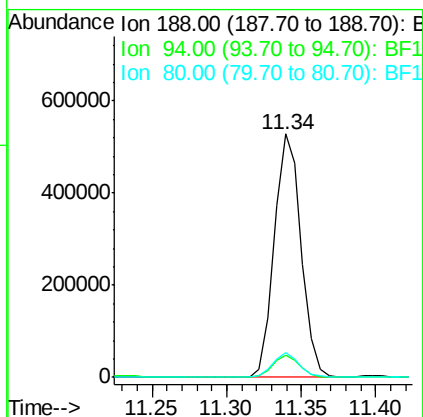
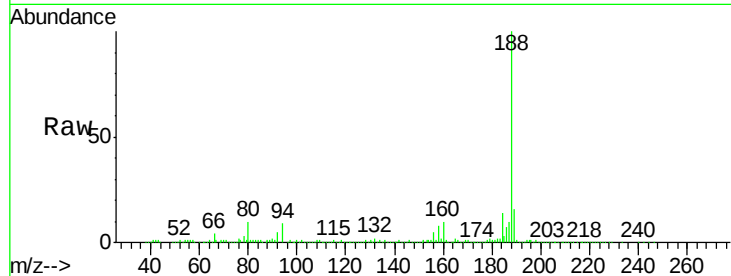
ClientSampleId :

TP10-EP1-2.5

Tot Ion:	188	Resp:	656239
Ion Ratio	Lower	Upper	
188	100		
94	9.0	7.9	11.9
80	9.9	8.4	12.6

Manual Integrations
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#71

Phenanthrene

Concen: 163.911 ng

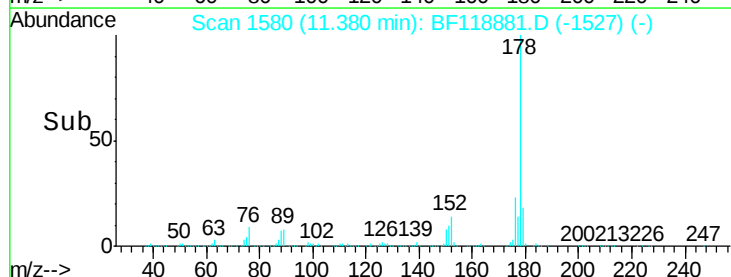
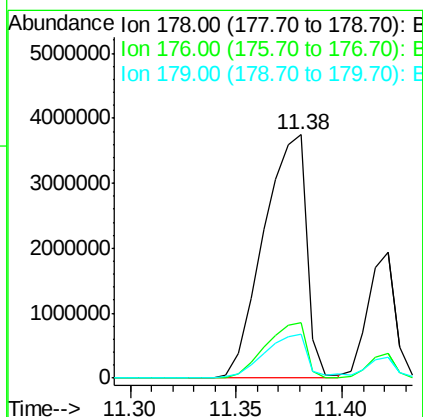
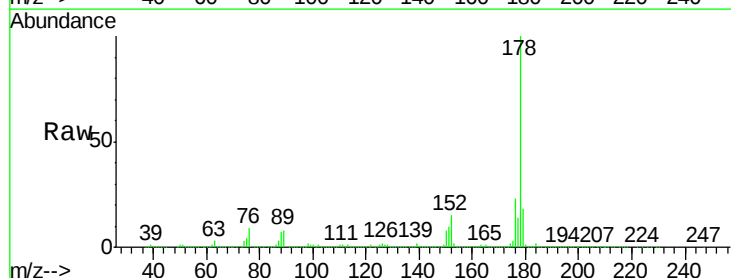
RT: 11.38 min Scan# 1580

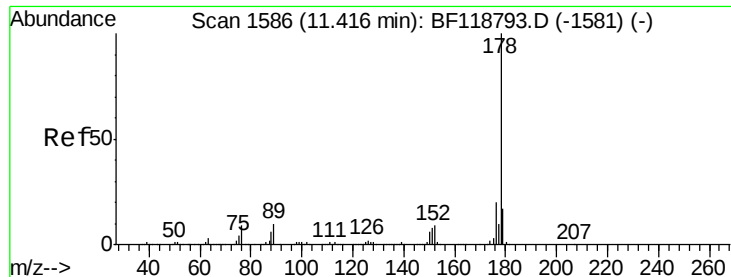
Delta R.T. 0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Tgt Ion:	178	Resp:	5292357
Ion Ratio	Lower	Upper	
178	100		
176	22.9	16.6	24.8
179	18.0	13.2	19.8





#72

Anthracene

Concen: 52.175 ng

RT: 11.42 min Scan# 1587

Delta R.T. 0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

ClientSampleId :

TP10-EP1-2.5

Tot Ion:178 Resp: 1675900

Ion Ratio Lower Upper

178 100

176 19.5 16.2 24.2

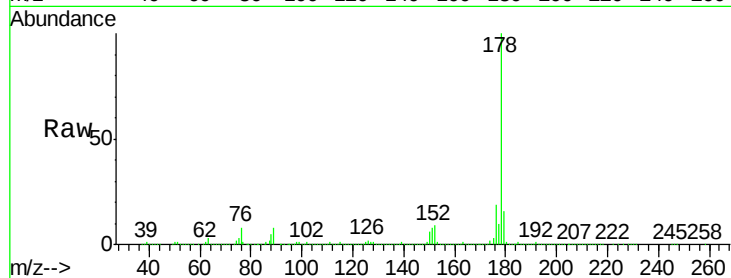
179 16.3 13.4 20.2

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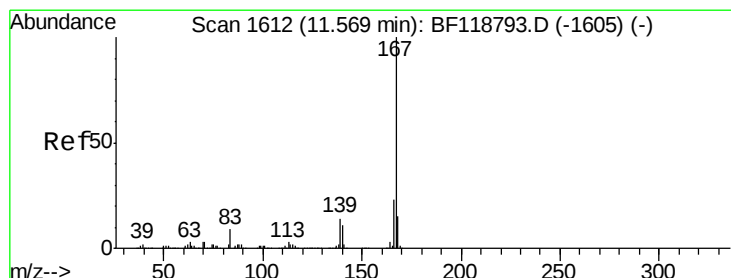
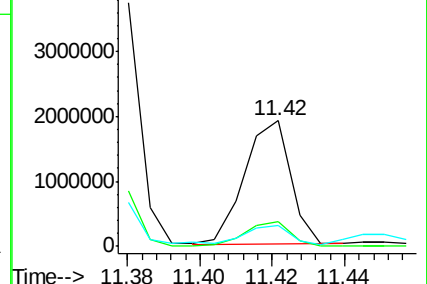
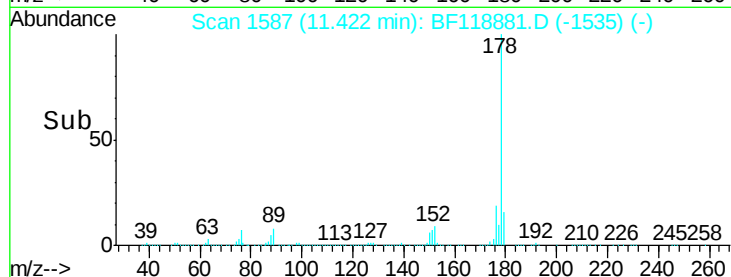
2/13/2020 10:28:58 AM



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



#73

Carbazole

Concen: 19.041 ng

RT: 11.57 min Scan# 1612

Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

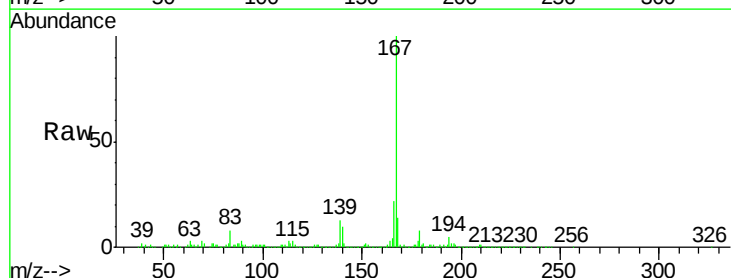
Tgt Ion:167 Resp: 536756

Ion Ratio Lower Upper

167 100

166 21.8 18.4 27.6

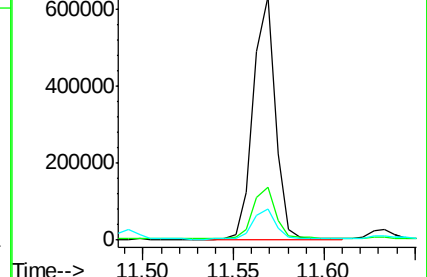
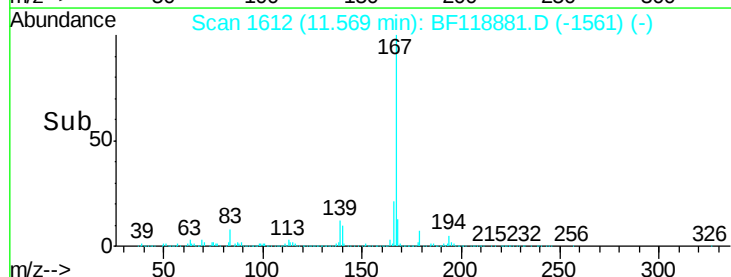
139 12.7 11.1 16.7

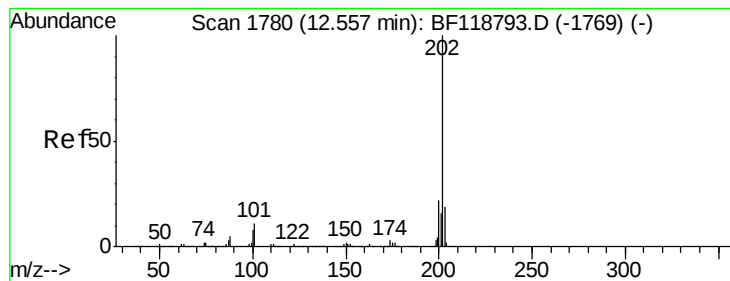


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





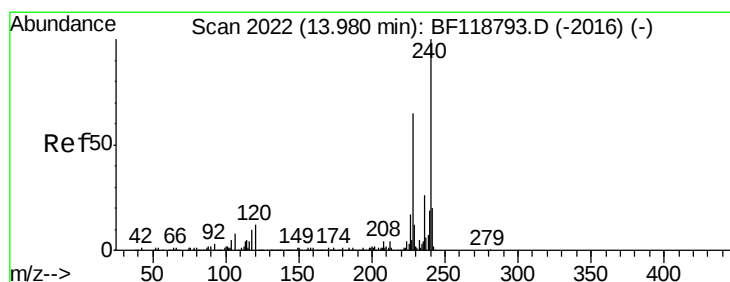
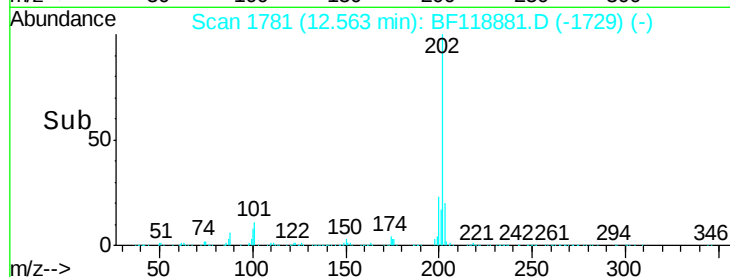
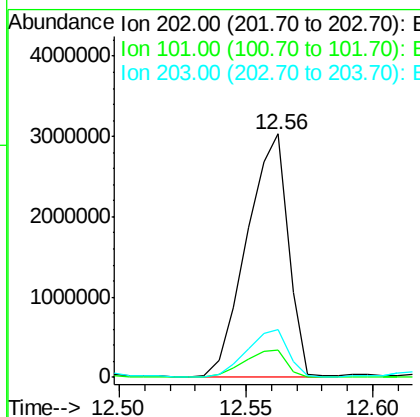
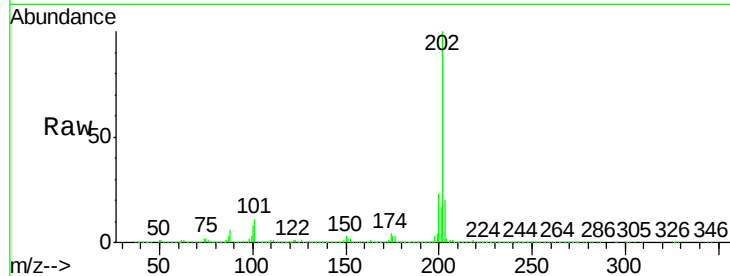
#75
 Fluoranthene
 Concen: 97.716 ng
 RT: 12.56 min Scan# 1781
 Delta R.T. 0.01 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.0
203	19.7	0.0	38.7

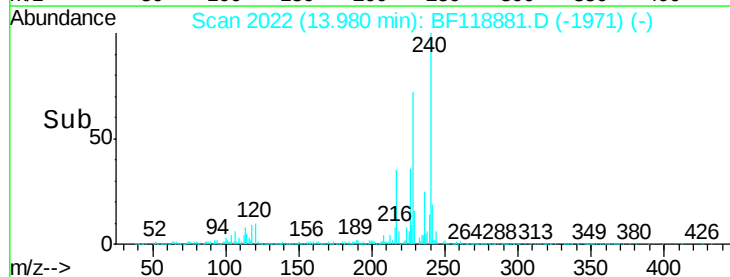
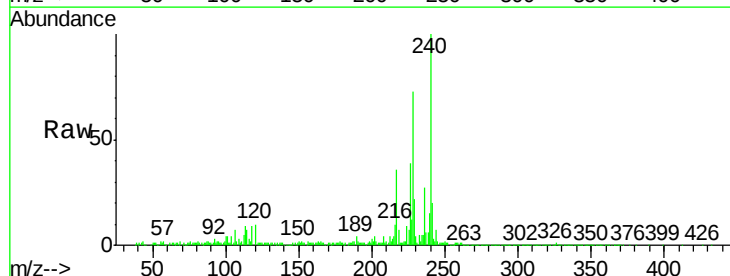
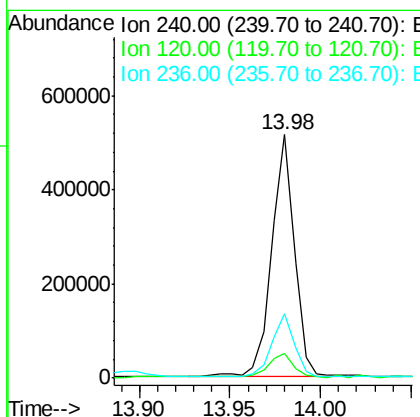
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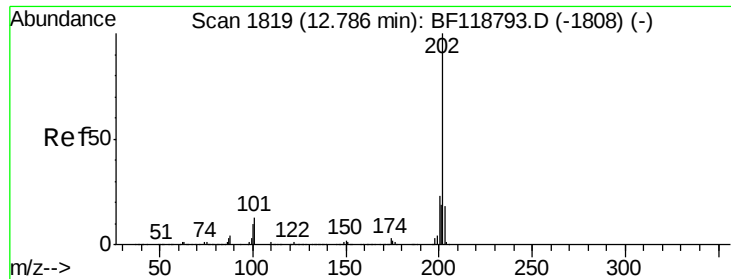
mohammad
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#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.98 min Scan# 2022
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.0	9.4	14.0
236	26.6	21.0	31.6





#78

Pvrene

Concen: 116.260 ng

RT: 12.79 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

ClientSampleId :

TP10-EP1-2.5

Tot Ion:202 Resp: 3589783

Ion Ratio Lower Upper

202 100

200 23.7 18.2 27.2

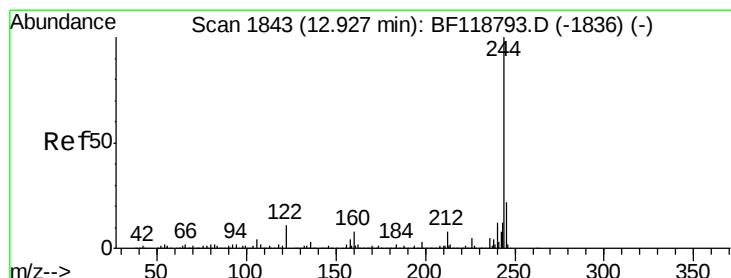
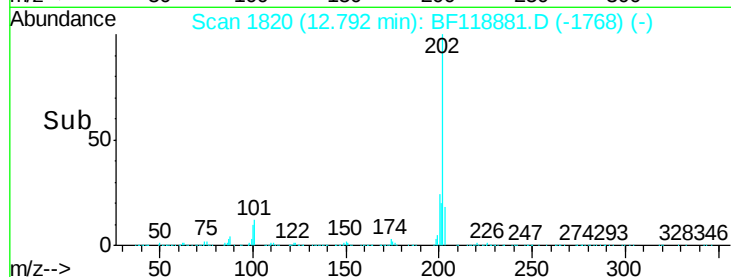
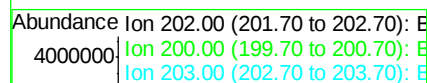
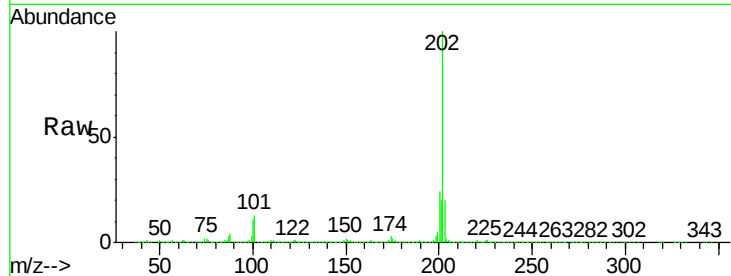
203 20.0 14.8 22.2

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#79

Terphenyl-d14

Concen: 20.260 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

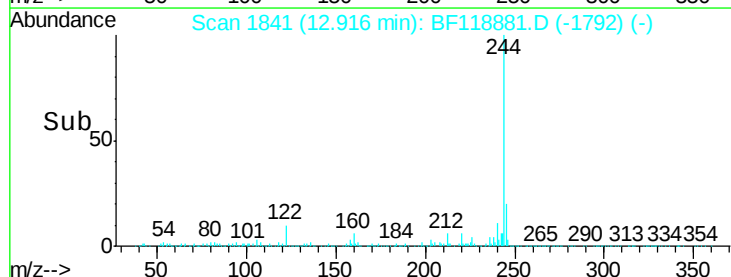
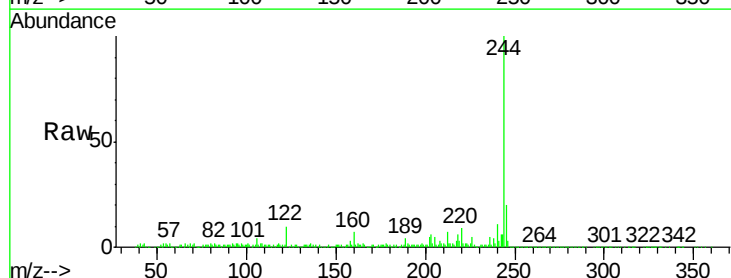
Tgt Ion:244 Resp: 443940

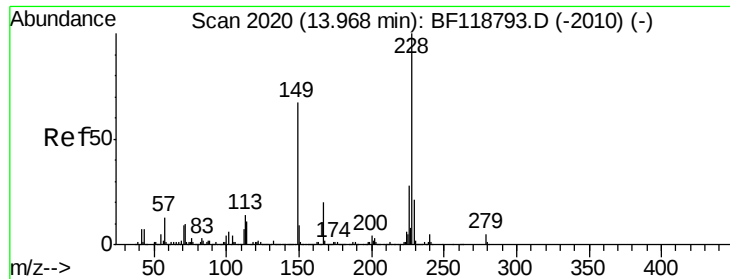
Ion Ratio Lower Upper

244 100

212 6.6 6.5 9.7

122 10.2 8.9 13.3





#81

Benzo(a)anthracene

Concen: 66.104 ng m

RT: 13.97 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

Instrument :

BNA_F

ClientSampleId :

TP10-EP1-2.5

Tot Ion:228 Resp: 1770451

Ion Ratio Lower Upper

228 100

226 37.9 22.7 34.1#

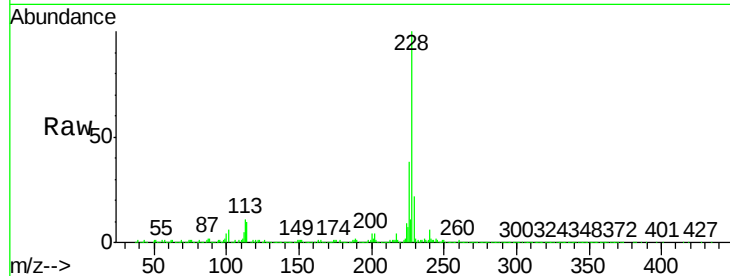
229 22.1 16.6 25.0

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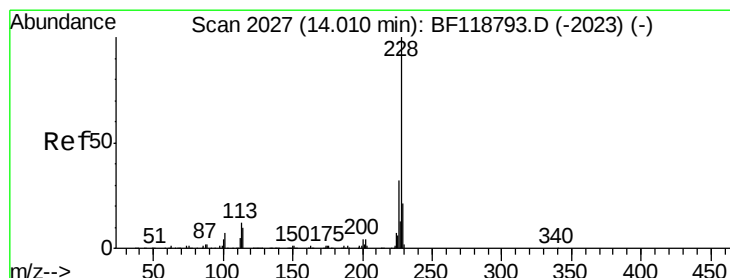
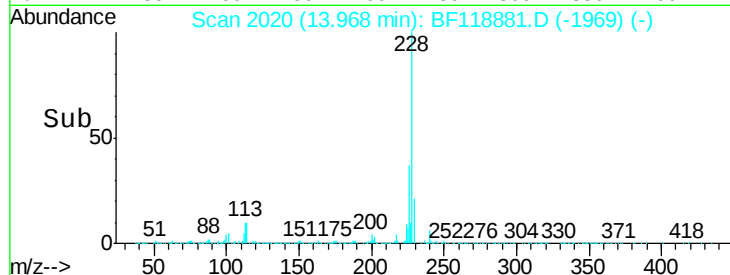
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

13.97

Time-->



#83

Chrysene

Concen: 54.901 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.00 min

Lab File: BF118881.D

Acq: 10 Feb 2020 21:14

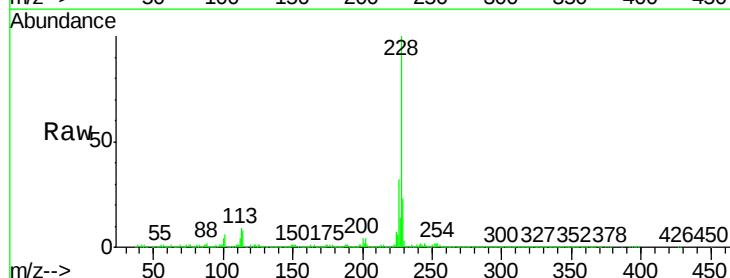
Tgt Ion:228 Resp: 1475795

Ion Ratio Lower Upper

228 100

226 31.6 25.4 38.0

229 22.5 16.9 25.3



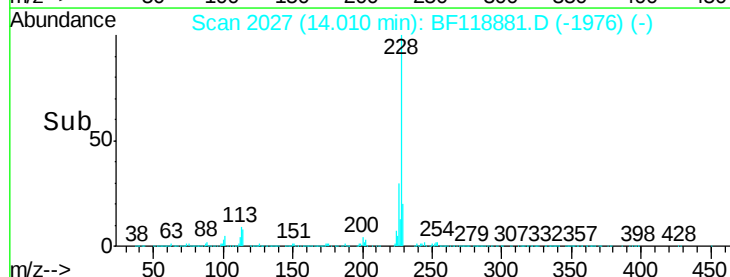
Abundance Ion 228.00 (227.70 to 228.70): E

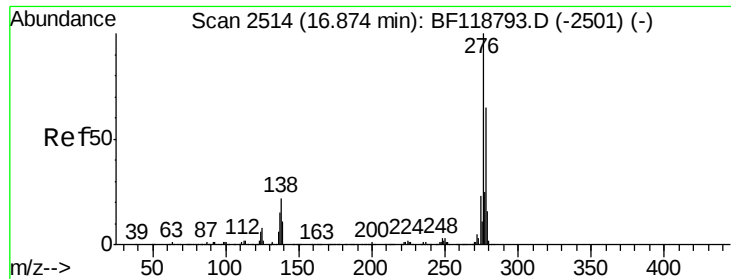
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

14.01

Time-->





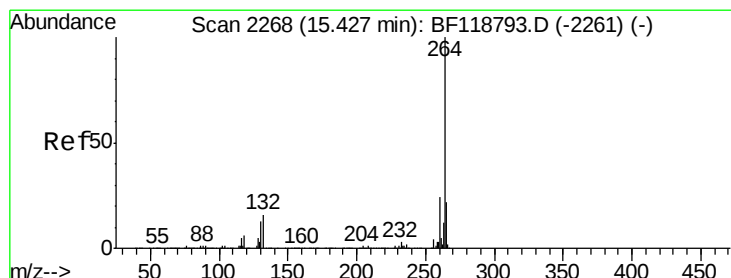
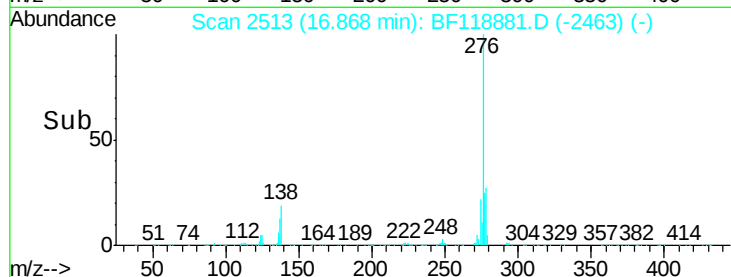
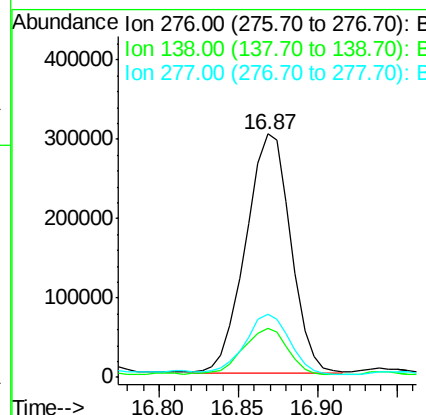
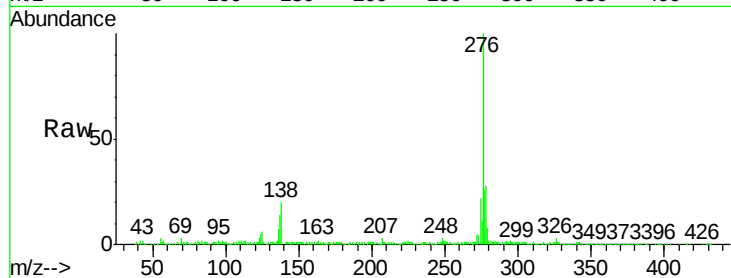
#86
Indeno(1,2,3-cd)pyrene
Concen: 21.958 ng
RT: 16.87 min Scan# 2513
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.1	18.3	27.5
277	25.0	20.2	30.4

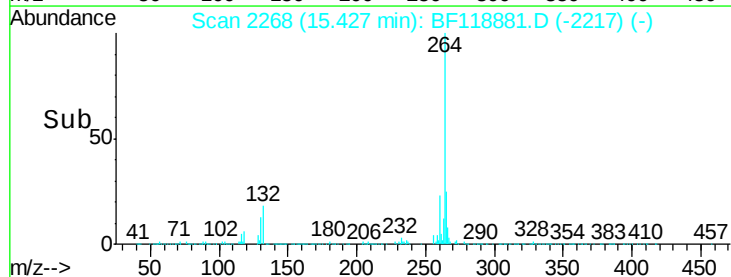
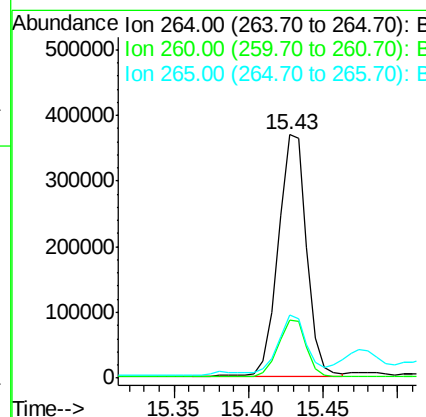
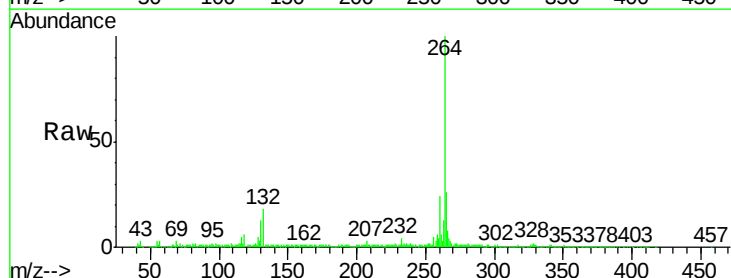
Manual Integrations
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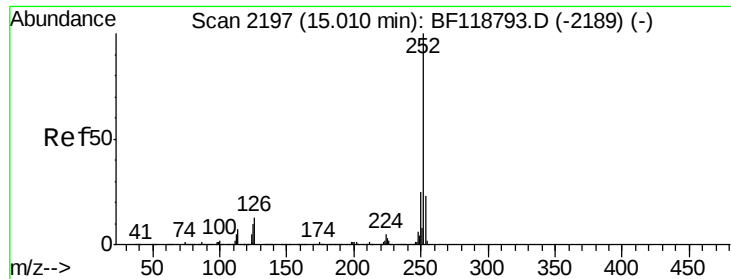
mohammad
2/13/2020 10:28:58 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.43 min Scan# 2268
Delta R.T. 0.00 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	25.7	17.2	25.8





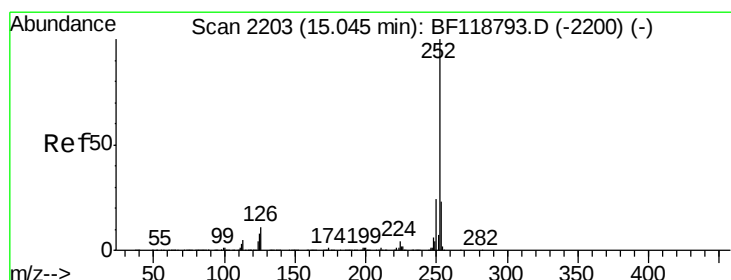
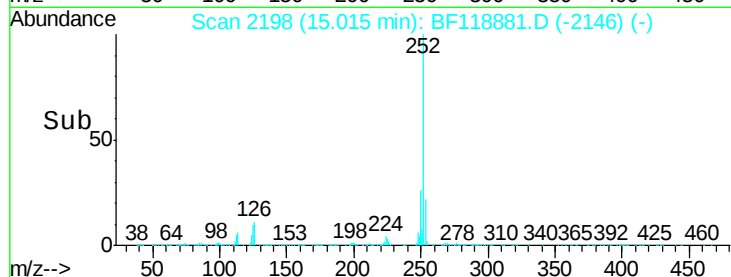
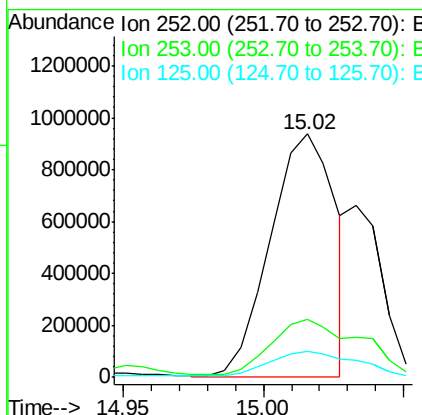
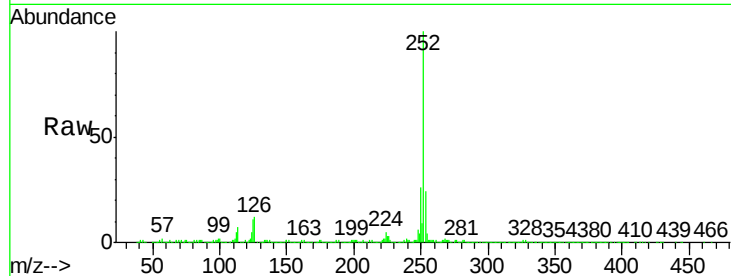
#88
Benzo(b)fluoranthene
Concen: 49.821 ng m
RT: 15.02 min Scan# 2198
Delta R.T. 0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.4	27.6
125	10.8	8.1	12.1

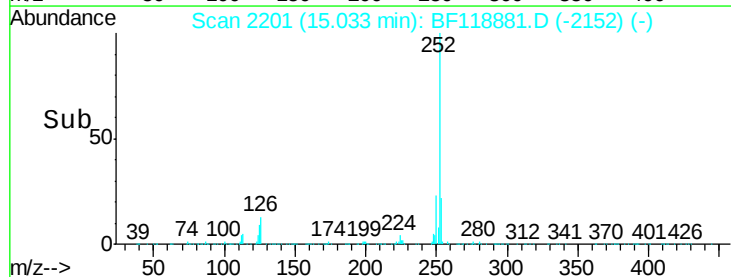
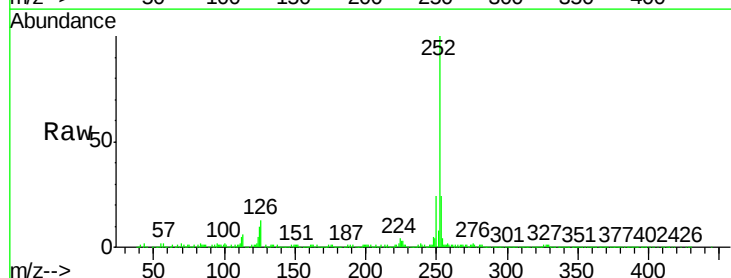
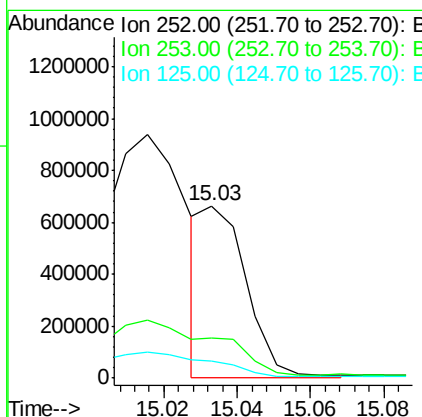
Manual Integrations
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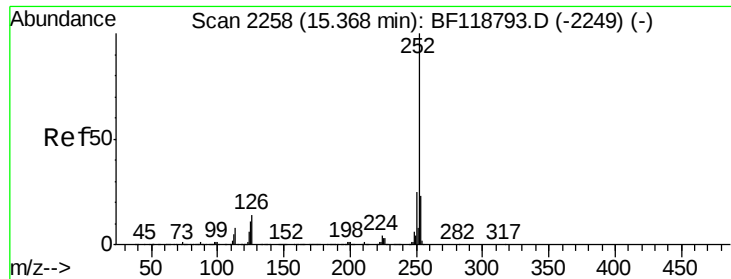
mohammad
2/13/2020 10:28:58 AM



#89
Benzo(k)fluoranthene
Concen: 20.831 ng m
RT: 15.03 min Scan# 2201
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.4
125	9.9	7.0	10.6





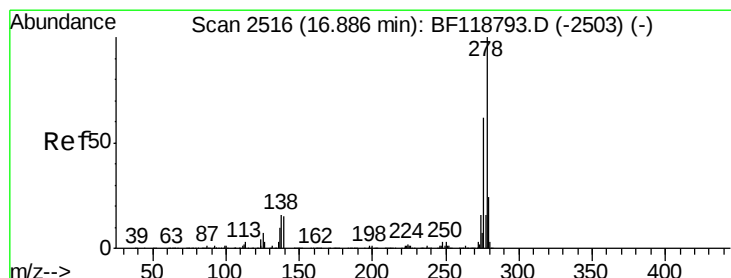
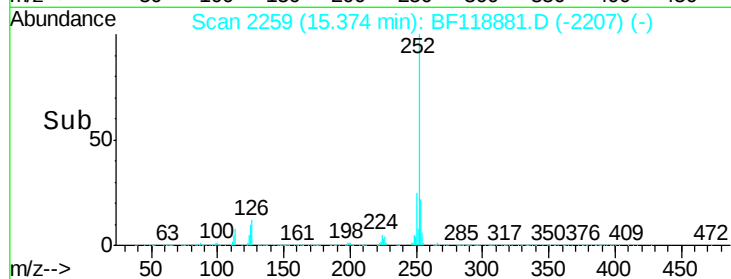
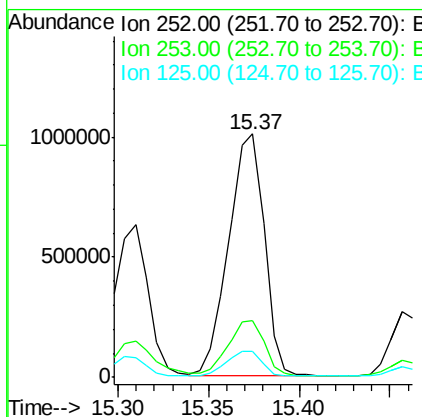
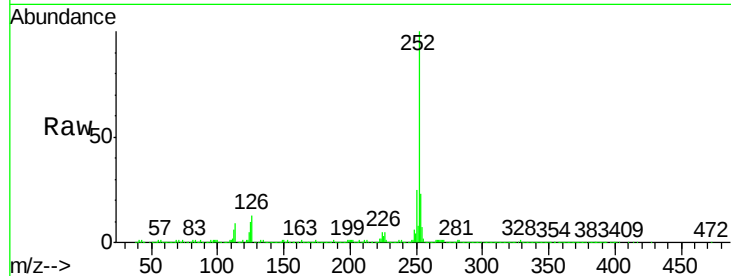
#90
Benzo(a)pyrene
Concen: 52.575 ng
RT: 15.37 min Scan# 2259
Delta R.T. 0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Instrument :
BNA_F
ClientSampleId :
TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	10.4	8.7	13.1

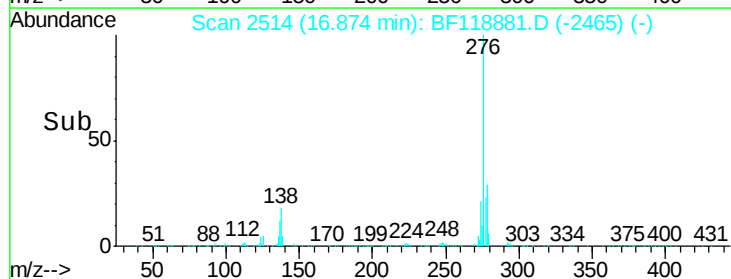
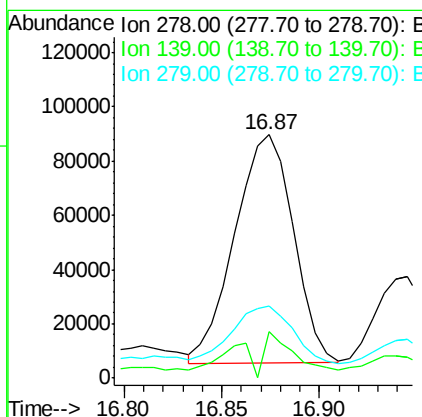
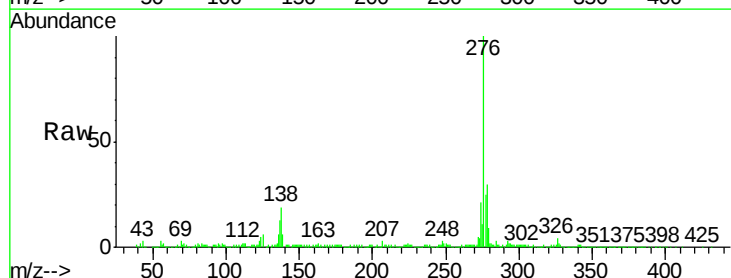
Manual Integrations
APPROVED

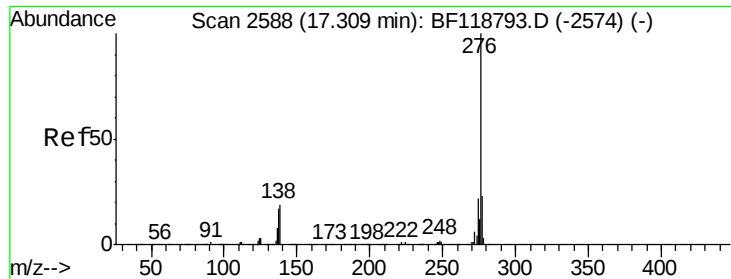
mohammad
2/13/2020 10:28:58 AM



#91
Dibenzo(a,h)anthracene
Concen: 7.519 ng
RT: 16.87 min Scan# 2514
Delta R.T. -0.01 min
Lab File: BF118881.D
Acq: 10 Feb 2020 21:14

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.1	12.3	18.5#
279	29.4	19.1	28.7#





#92
 Benzo(a,h,i)perylene
 Concen: 25.582 ng
 RT: 17.31 min Scan# 2588
 Delta R.T. 0.00 min
 Lab File: BF118881.D
 Acq: 10 Feb 2020 21:14

Instrument :
 BNA_F
 ClientSampleId :
 TP10-EP1-2.5

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.7	28.1
138	18.9	15.4	23.2

Manual Integrations
 APPROVED

mohammad
 2/13/2020 10:28:58 AM

