

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
 Data File : BF121761.D
 Acq On : 1 Oct 2020 2:42
 Operator : JU/CG
 Sample : L4193-06
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)

Manual Integrations
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 10/1/2020 1:32:42 PM

Quant Time: Oct 01 08:40:00 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 29 11:12:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	160123	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	607022	20.00	ng	-0.01
39) Acenaphthene-d10	9.82	164	294328	20.00	ng	-0.01
64) Phenanthrene-d10	11.30	188	472246	20.00	ng	-0.01
76) Chrysene-d12	13.94	240	307562	20.00	ng	0.00
86) Perylene-d12	15.39	264	345784	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	892218	82.81	ng	0.00
7) Phenol-d6	6.42	99	1134075	80.23	ng	-0.01
23) Nitrobenzene-d5	7.34	82	792125	70.06	ng	-0.02
42) 2,4,6-Tribromophenol	10.60	330	266244	72.78	ng	-0.01
45) 2-Fluorobiphenyl	9.14	172	1298293	66.81	ng	-0.01
79) Terphenyl-d14	12.89	244	1012103	66.67	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.08	128	172245	5.375	ng	98
37) 2-Methylnaphthalene	8.77	142	48503	2.310	ng	99
49) Acenaphthylene	9.67	152	76729	2.689	ng	97
50) Dimethylphthalate	9.53	163	137241	6.433	ng	99
52) Acenaphthene	9.85	154	128821	7.149	ng	100
55) Dibenzofuran	10.02	168	115657	4.558	ng	# 97
58) Fluorene	10.36	166	165169	8.511	ng	99
71) Phenanthrene	11.33	178	1928028	74.933	ng	99
72) Anthracene	11.37	178	709219	26.710	ng	99
73) Carbazole	11.53	167	126724	5.289	ng	98
75) Fluoranthene	12.53	202	2944565	107.206	ng	99
78) Pyrene	12.76	202	2765904	123.085	ng	97
81) Benzo(a)anthracene	13.94	228	1682308	86.459	ng	97
83) Chrysene	13.97	228	1467914	74.500	ng	97
87) Indeno(1,2,3-cd)pyrene	16.82	276	954972	42.408	ng	96
88) Benzo(b)fluoranthene	14.98	252	1976557m	85.506	ng	
89) Benzo(k)fluoranthene	15.00	252	476846m	22.526	ng	
90) Benzo(a)pyrene	15.34	252	1422506	72.394	ng	97
91) Dibenzo(a,h)anthracene	16.83	278	269341	14.369	ng	95
92) Benzo(a,h,i)perylene	17.26	276	871805	47.314	ng	99

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

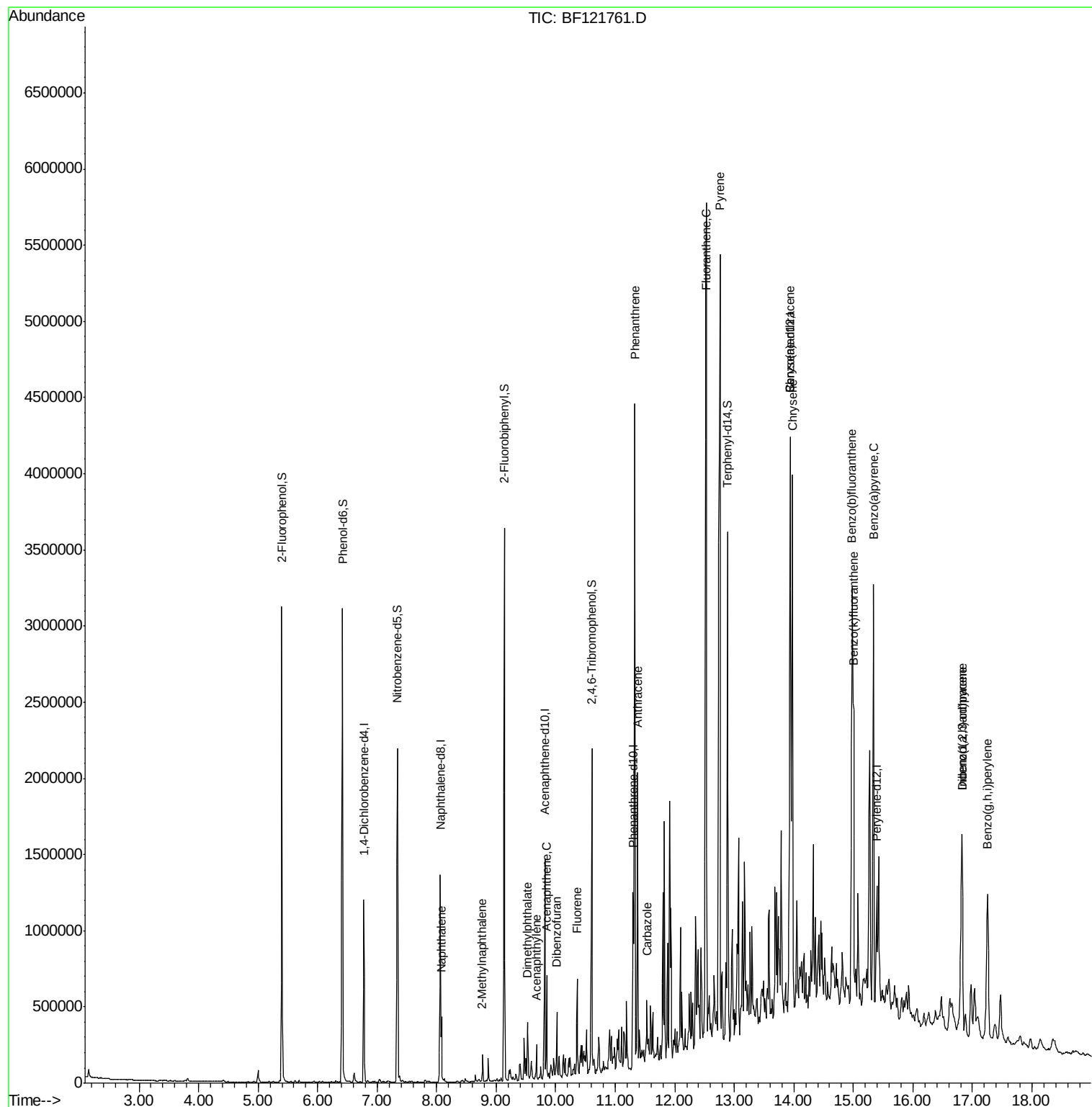
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

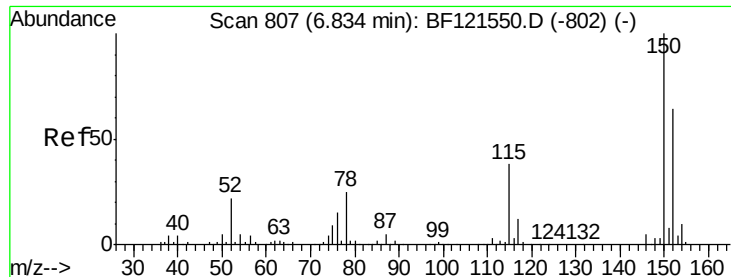
Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

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Quant Time: Oct 01 08:40:00 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 29 11:12:14 2020
Response via : Initial Calibration





#1

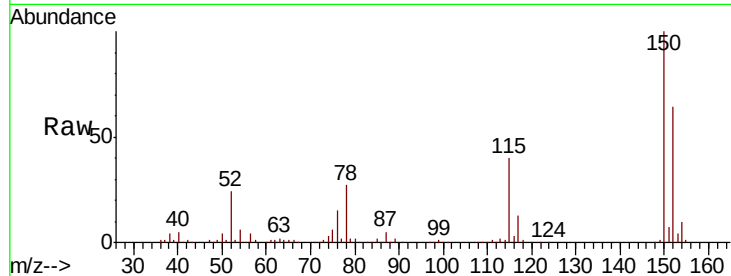
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.6	125.8	188.8
115	62.5	49.6	74.4

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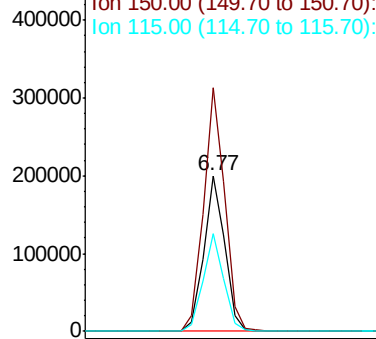


Abundance

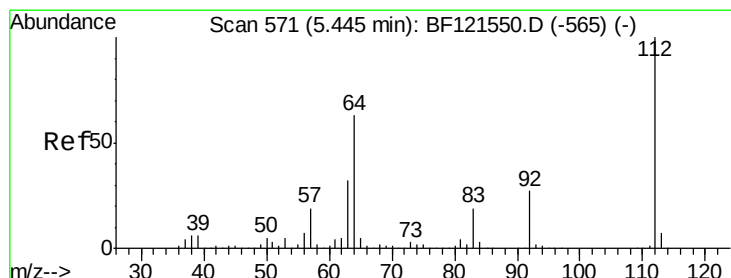
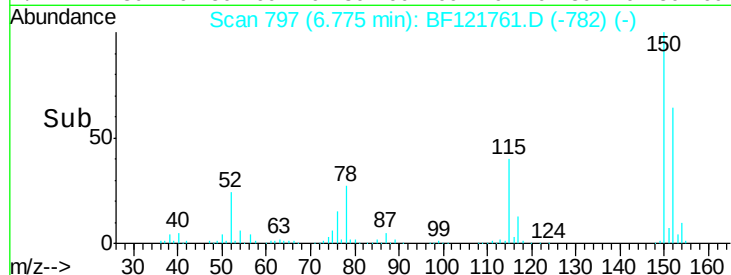
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



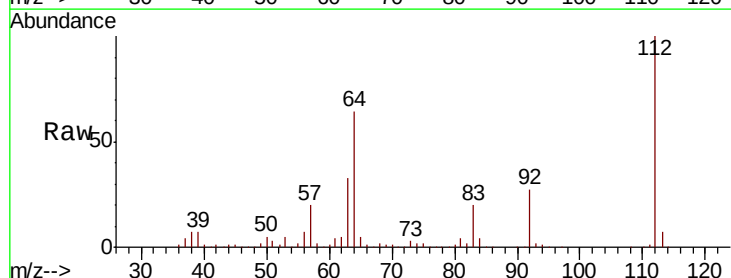
Time-->



#5

2-Fluorophenol
Concen: 82.808 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.4	51.2	76.8
63	32.8	25.9	38.9

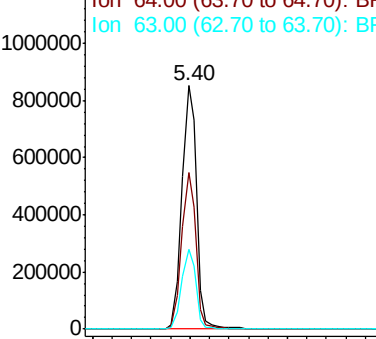


Abundance

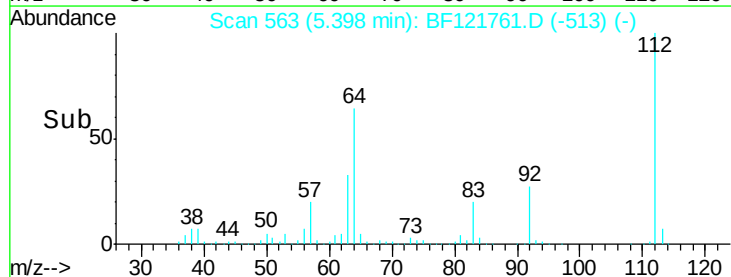
Ion 112.00 (111.70 to 112.70): E

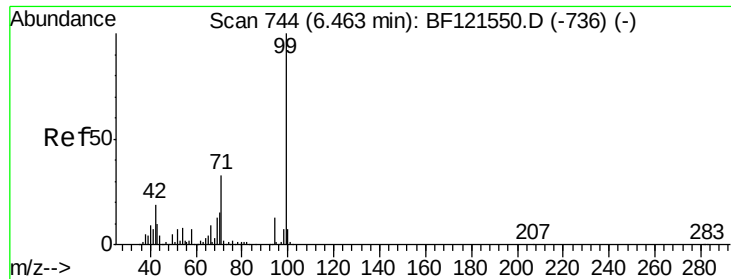
Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



Time-->





#7

Phenol-d6

Concen: 80.229 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Instrument :

BNA_F

ClientSampled :

B-14(11-13)

Tot Ion: 99 Resp: 1134075

Ion Ratio Lower Upper

99 100

42 20.4 16.5 24.7

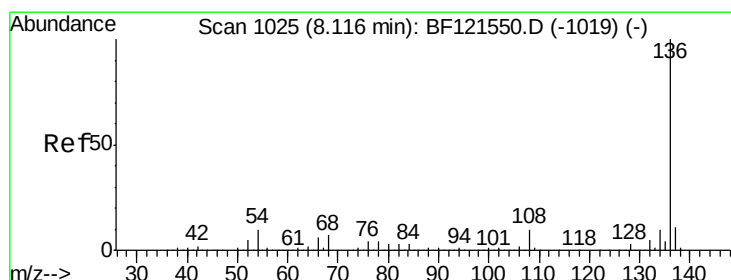
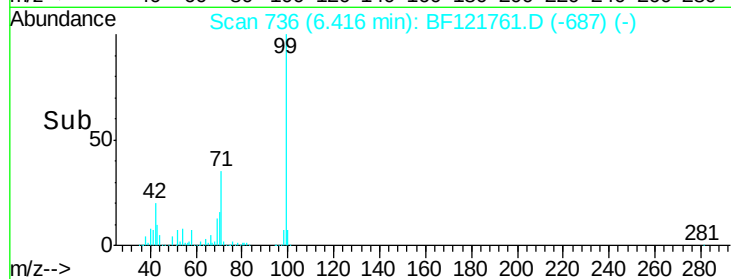
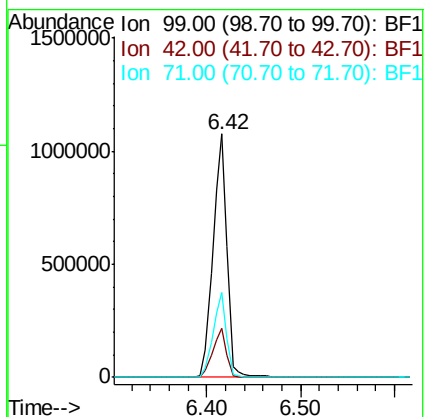
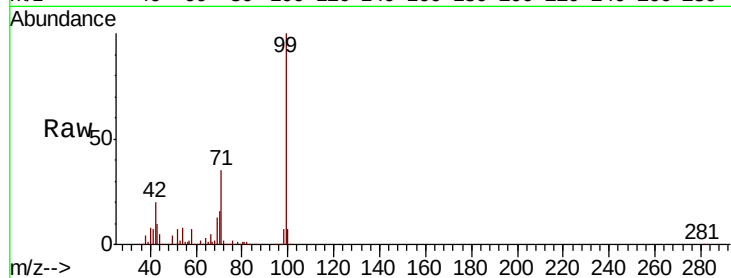
71 35.0 27.8 41.6

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Tgt Ion: 136 Resp: 607022

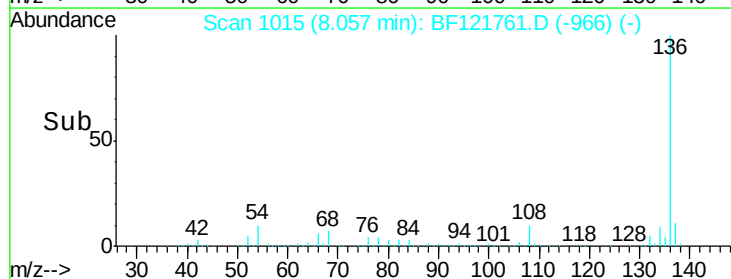
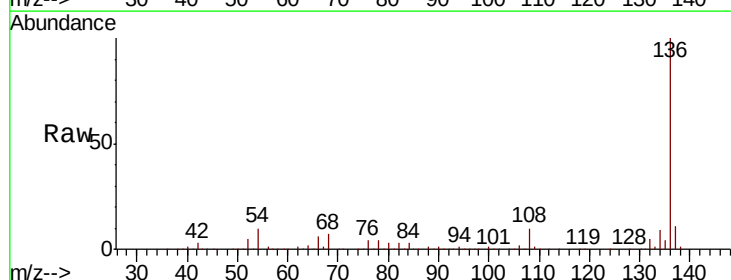
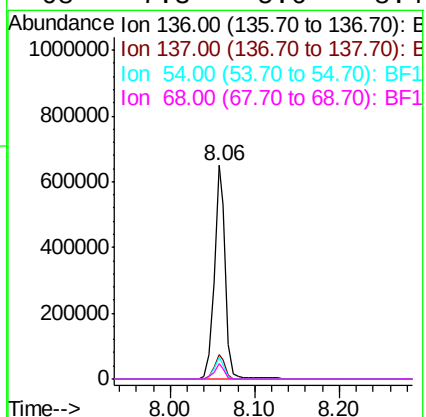
Ion Ratio Lower Upper

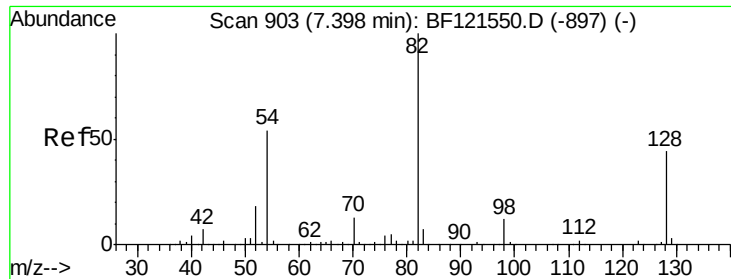
136 100

137 11.3 9.1 13.7

54 10.1 7.8 11.8

68 7.3 5.6 8.4





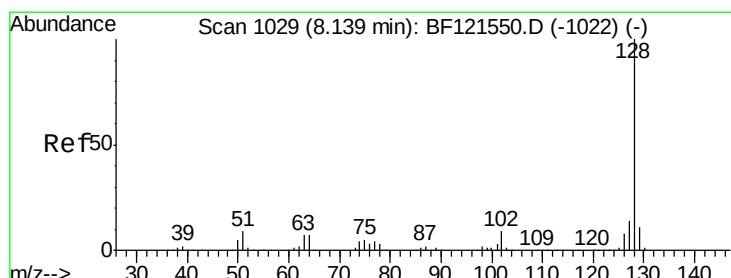
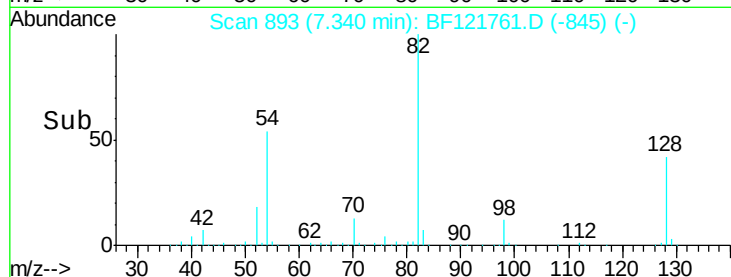
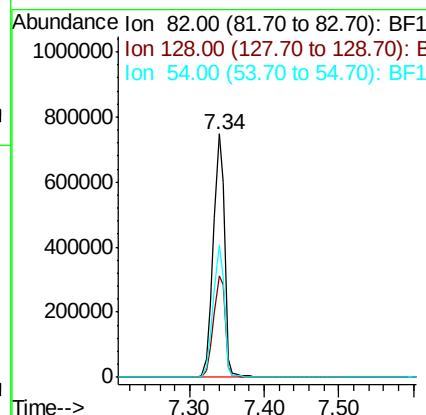
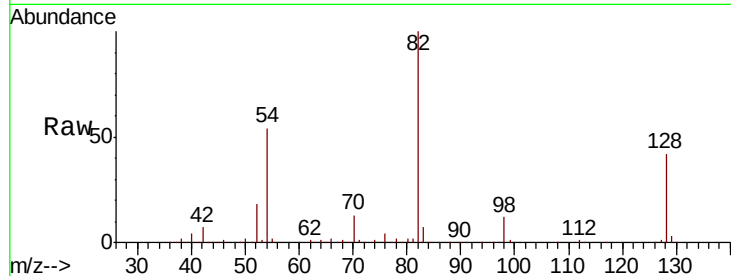
#23
Nitrobenzene-d5
Concen: 70.064 ng
RT: 7.34 min Scan# 893
Delta R.T. -0.02 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampled :
B-14(11-13)

Tot Ion	Ratio	Resp	Lower	Upper
82	100	792125		
128	41.9	35.0	52.4	
54	54.1	42.5	63.7	

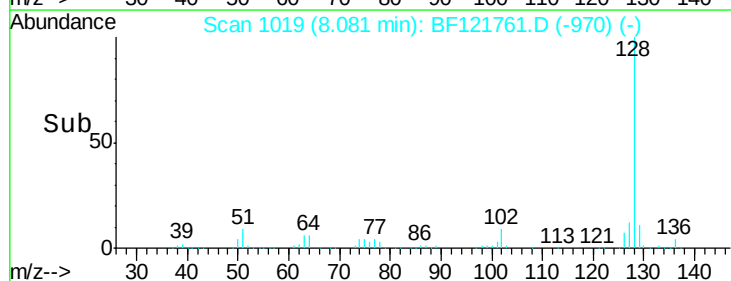
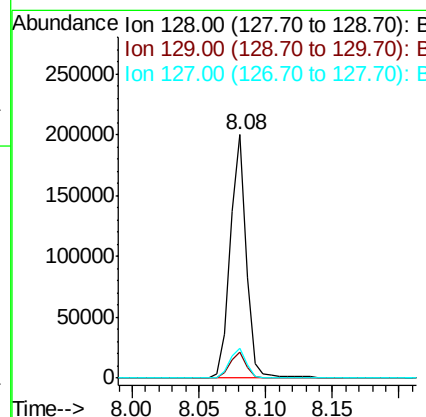
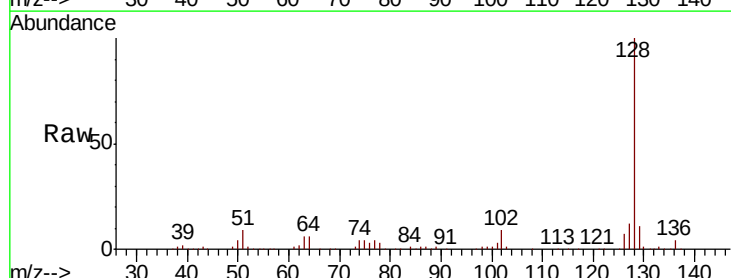
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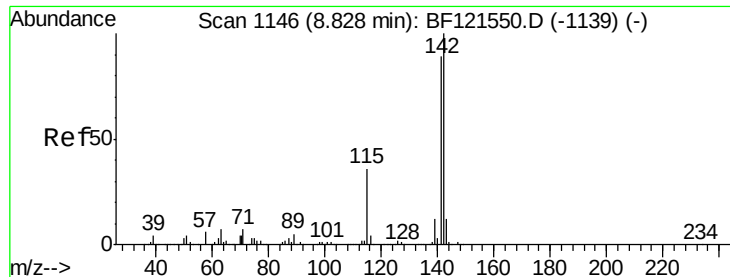
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#31
Naphthalene
Concen: 5.375 ng
RT: 8.08 min Scan# 1019
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	172245		
129	10.8	9.2	13.8	
127	12.4	10.9	16.3	





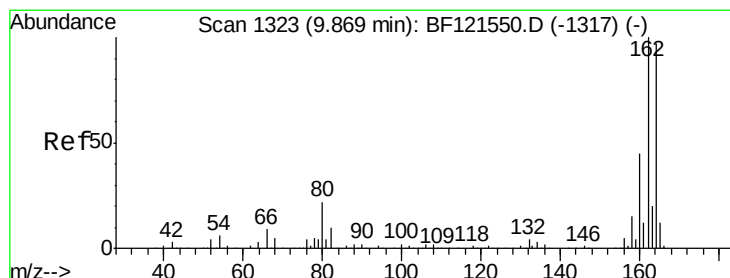
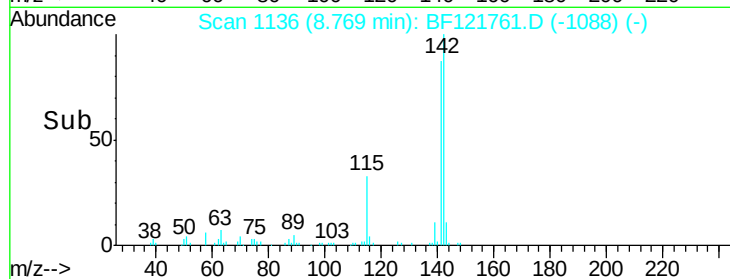
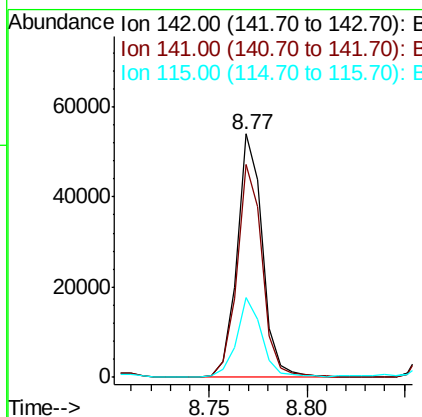
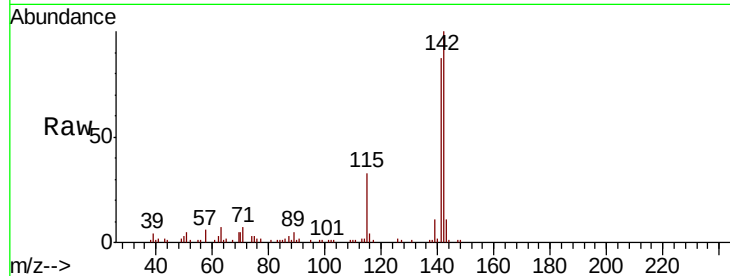
#37
2-Methylnaphthalene
Concen: 2.310 ng
RT: 8.77 min Scan# 1136
Delta R.T. -0.02 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.1	105.1
115	32.9	28.0	42.0

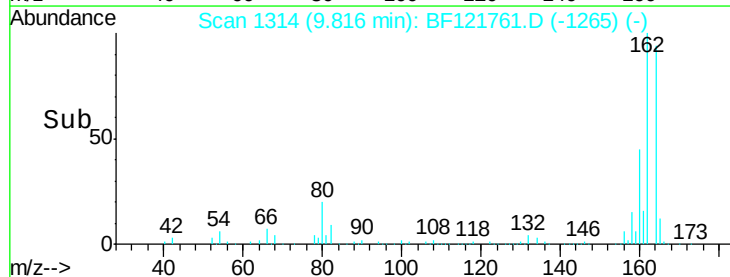
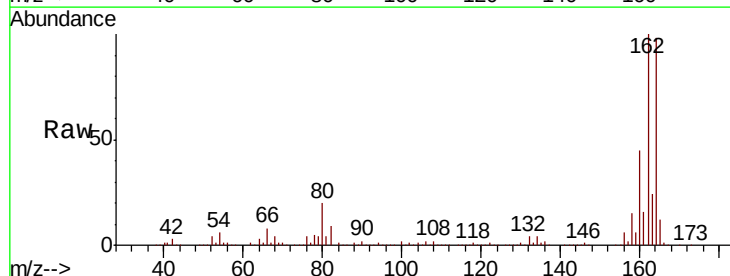
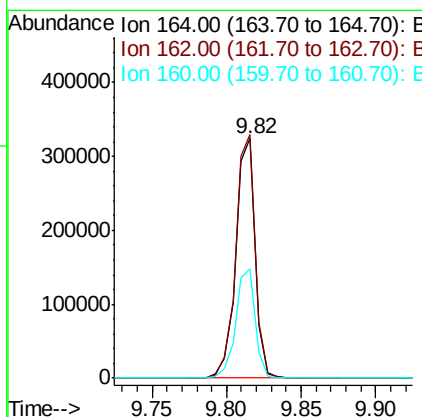
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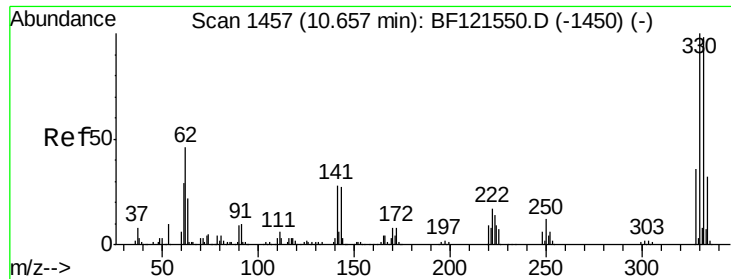
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.6	121.0
160	45.8	36.9	55.3





#42

2,4,6-Tribromophenol

Concen: 72.782 ng

RT: 10.60 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Instrument :

BNA_F

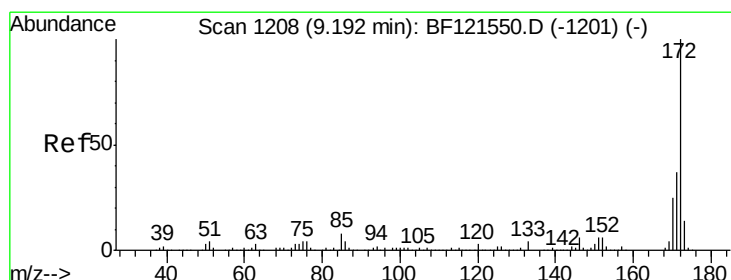
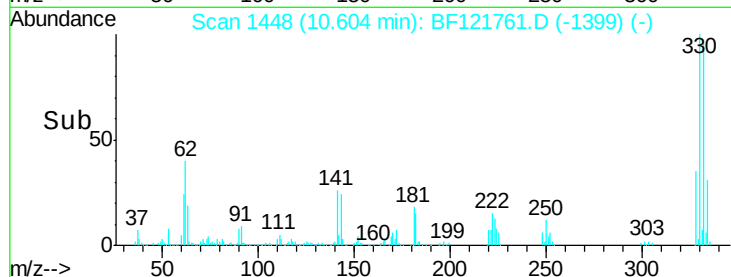
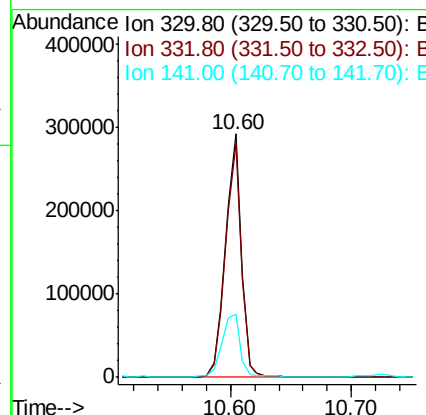
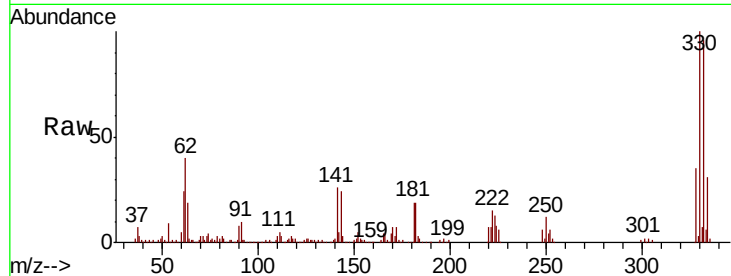
ClientSampled :

B-14(11-13)

Tot Ion:	330	Resp:	266244
Ion Ratio	Lower	Upper	
330	100		
332	96.1	77.6	116.4
141	30.0	22.9	34.3

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#45

2-Fluorobiphenyl

Concen: 66.807 ng

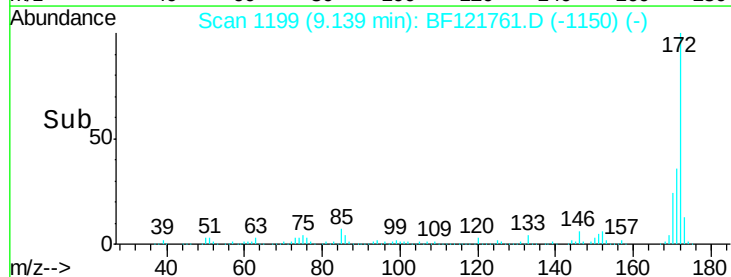
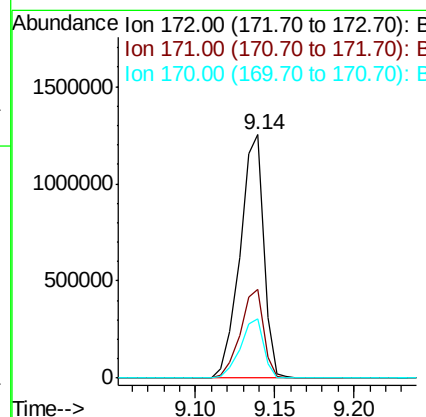
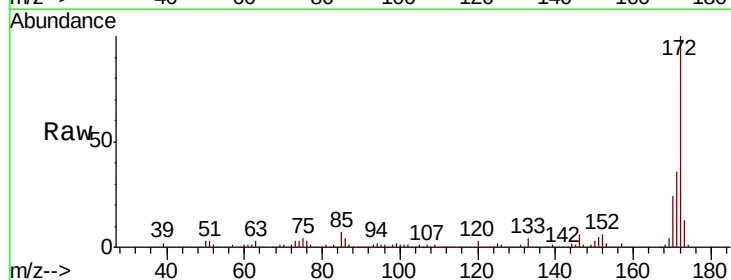
RT: 9.14 min Scan# 1199

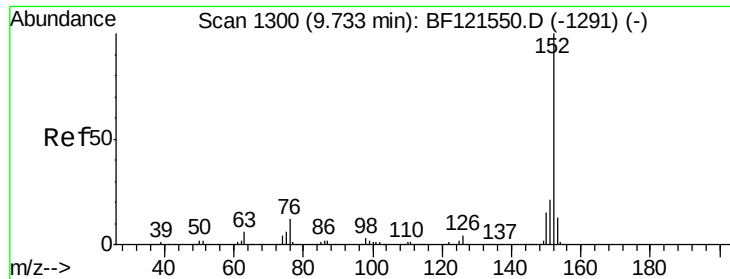
Delta R.T. -0.01 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Tgt Ion:	172	Resp:	1298293
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.2	43.8
170	24.2	19.7	29.5





#49

Acenaphthylene

Concen: 2.689 ng

RT: 9.67 min Scan# 1290

Delta R.T. -0.01 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Instrument :

BNA_F

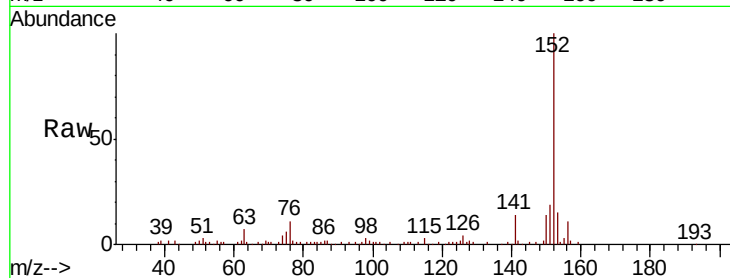
ClientSampleId :

B-14(11-13)

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.4	24.6
153	14.8	10.9	16.3

Manual Integrations
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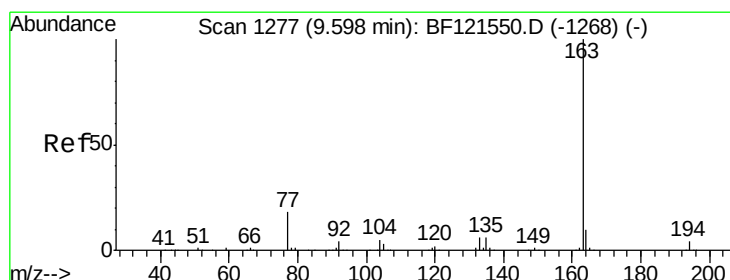
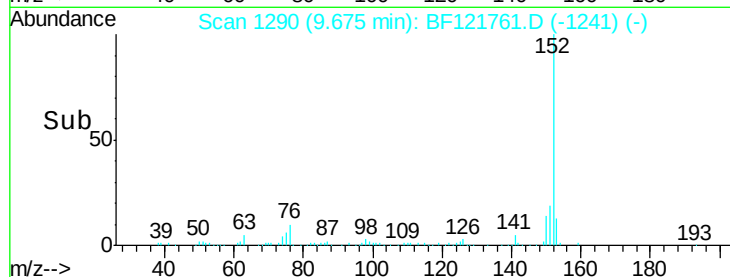
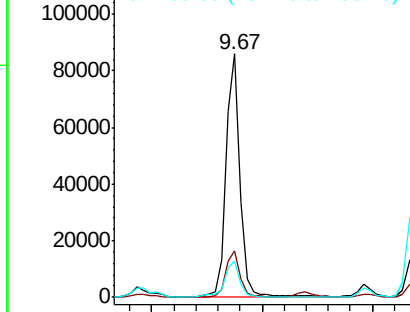


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 6.433 ng

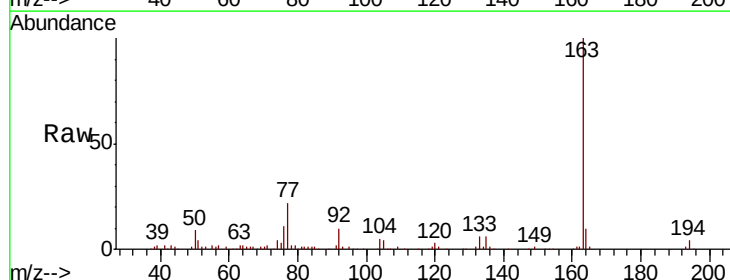
RT: 9.53 min Scan# 1265

Delta R.T. -0.02 min

Lab File: BF121761.D

Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.0	8.5	12.7

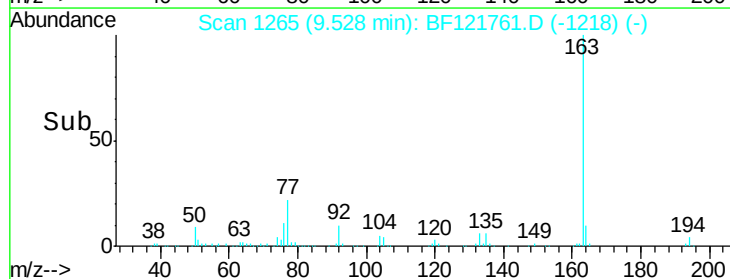
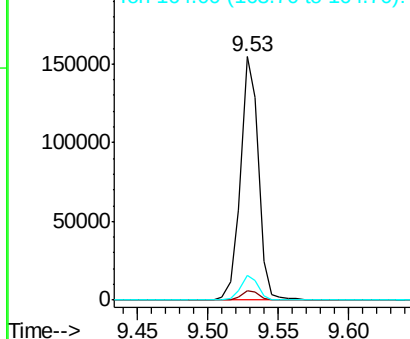


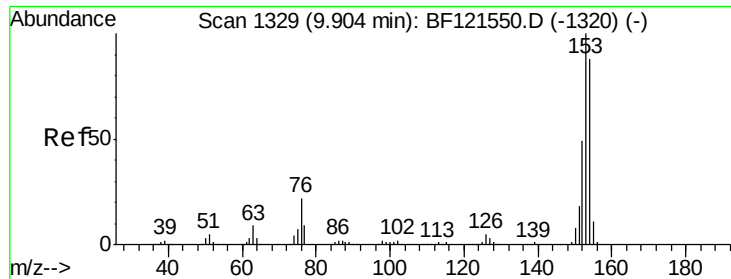
Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





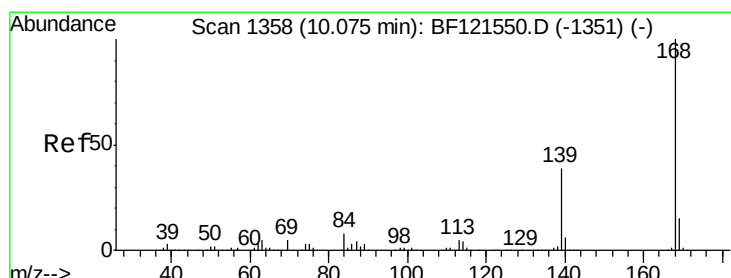
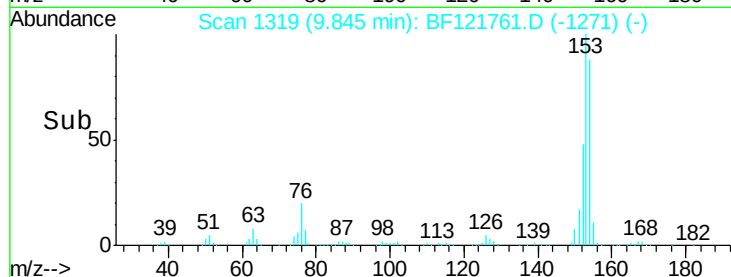
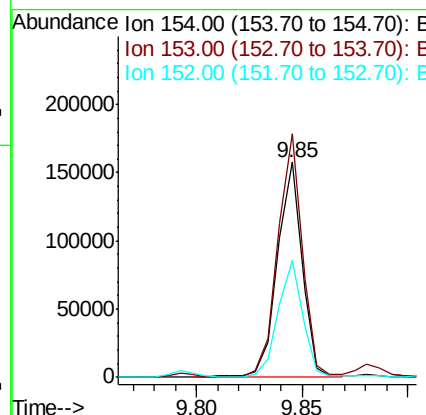
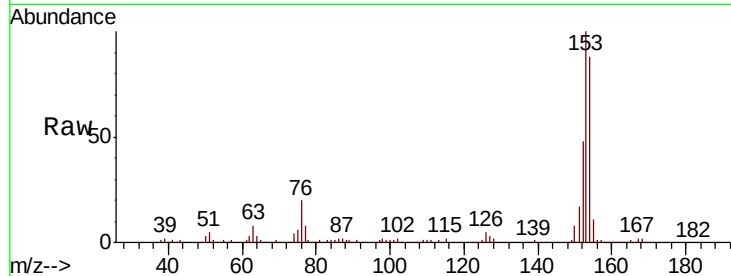
#52
Acenaphthene
Concen: 7.149 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.02 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
154	100		
153	113.1	90.7	136.1
152	54.4	43.9	65.9

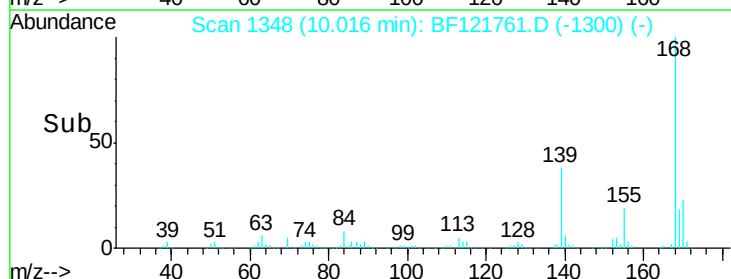
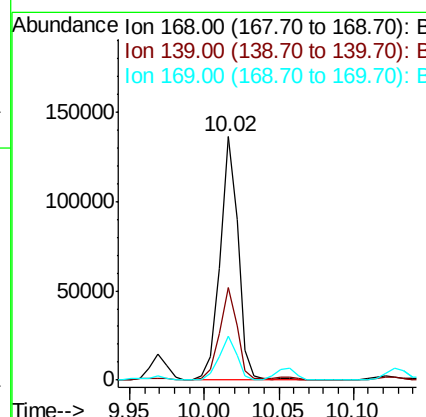
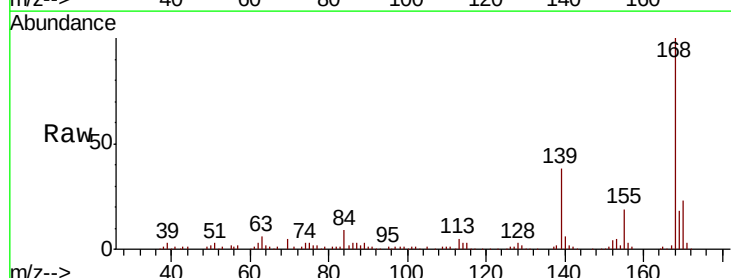
Manual Integrations
APPROVED

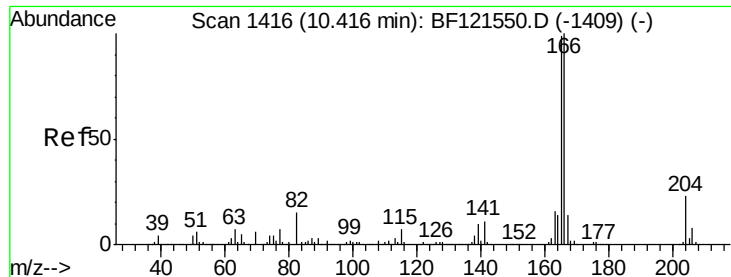
mohammad
10/1/2020 1:32:42 PM



#55
Dibenzofuran
Concen: 4.558 ng
RT: 10.02 min Scan# 1348
Delta R.T. -0.02 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
168	100		
139	38.0	30.3	45.5
169	18.0	11.2	16.8#





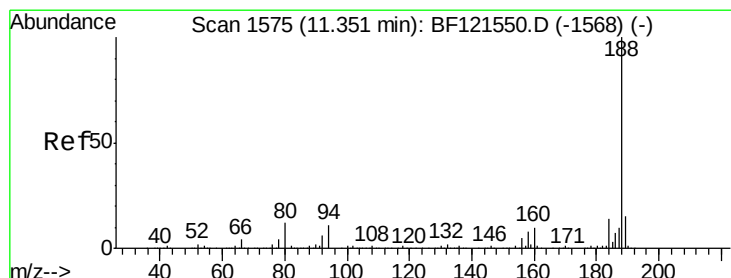
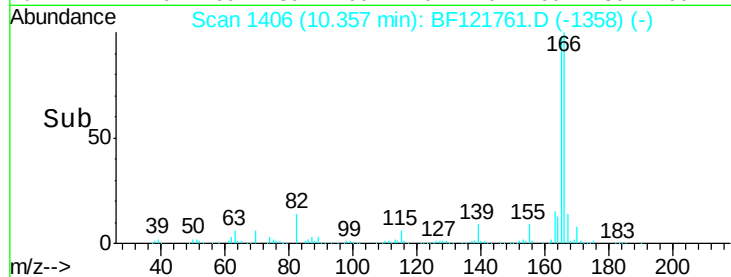
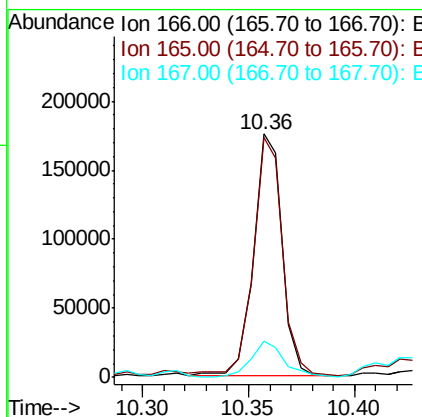
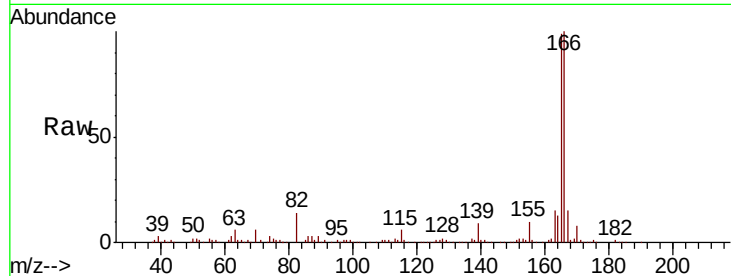
#58
Fluorene
 Concen: 8.511 ng
 RT: 10.36 min Scan# 1406
 Delta R.T. -0.02 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	165169		
165	98.5	79.2	118.8	
167	15.1	10.6	16.0	

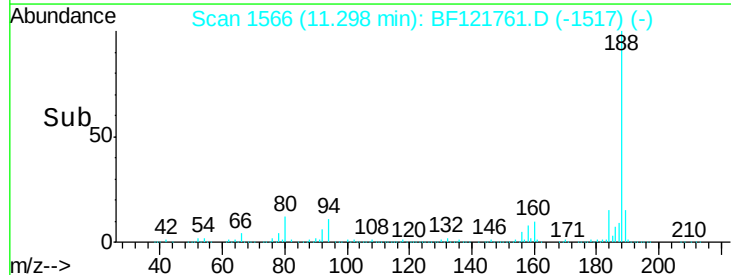
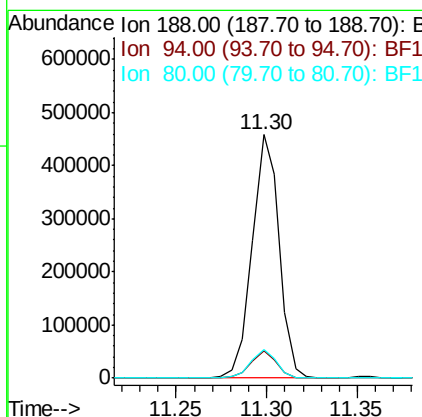
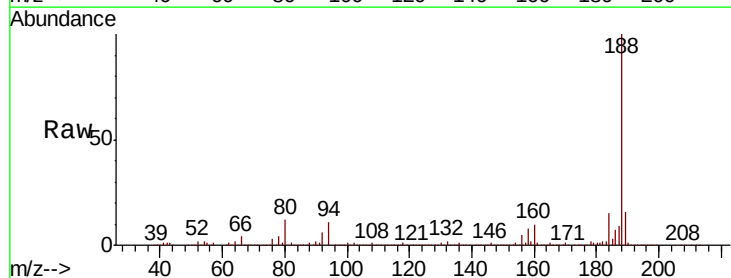
Manual Integrations
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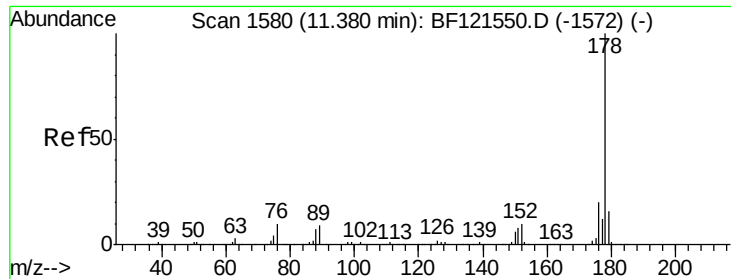
mohammad
 10/1/2020 1:32:42 PM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	472246		
94	11.2	8.2	12.2	
80	11.7	8.9	13.3	





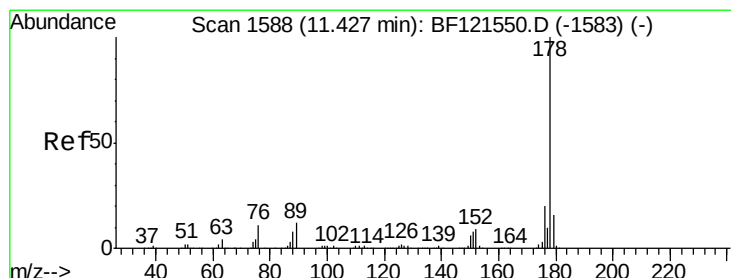
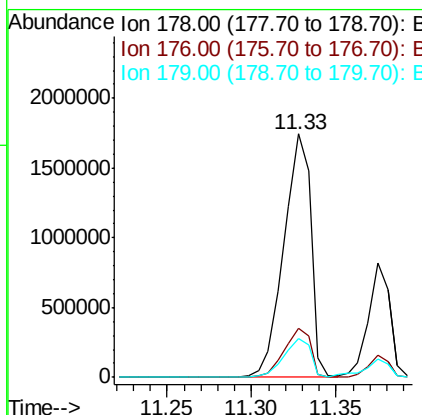
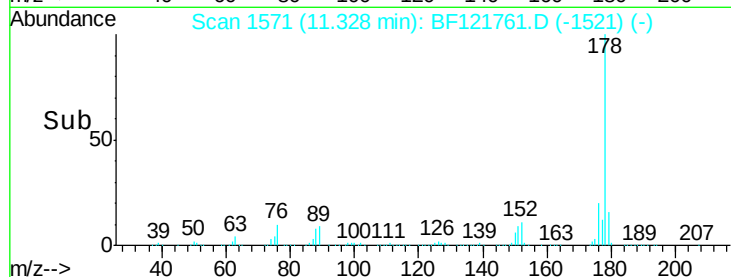
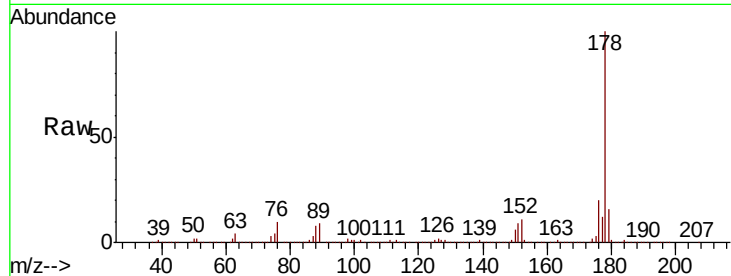
#71
Phenanthrene
Concen: 74.933 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.0	24.0
179	16.2	12.6	19.0

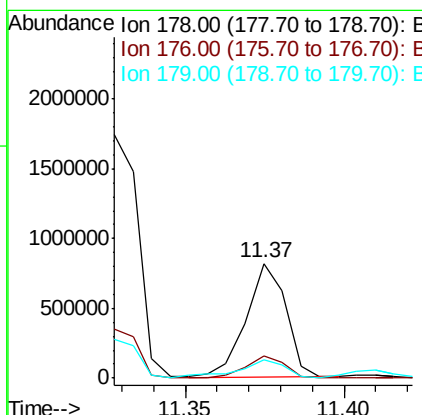
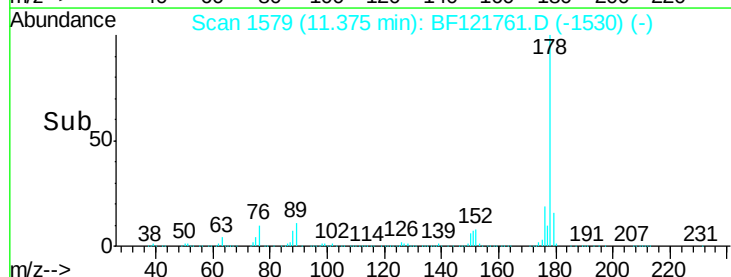
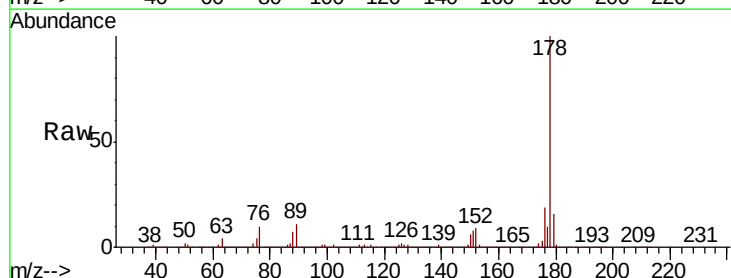
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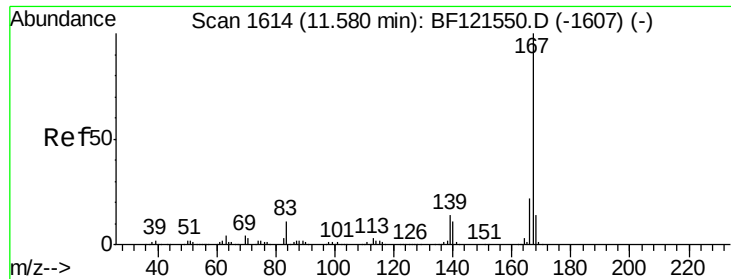
mohammad
10/1/2020 1:32:42 PM



#72
Anthracene
Concen: 26.710 ng
RT: 11.37 min Scan# 1579
Delta R.T. -0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	15.7	12.6	19.0





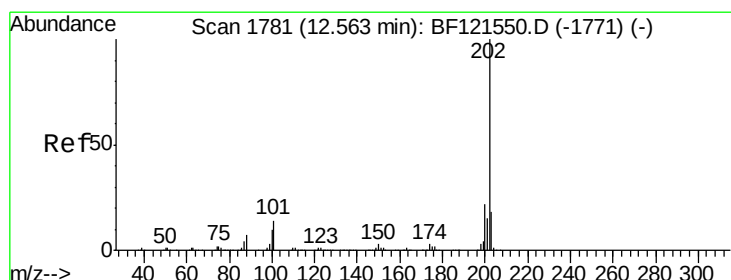
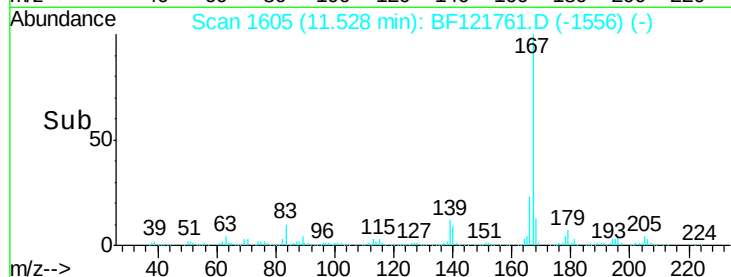
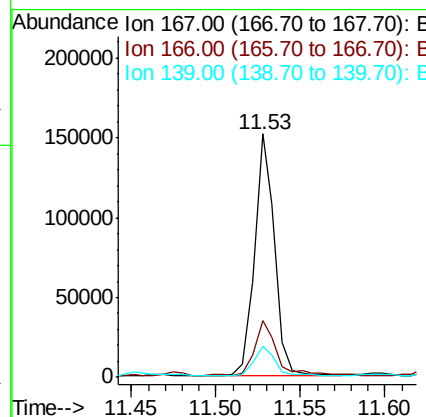
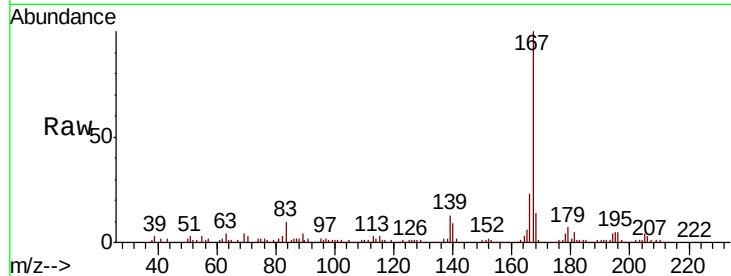
#73
 Carbazole
 Concen: 5.289 ng
 RT: 11.53 min Scan# 1605
 Delta R.T. -0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.3	17.7	26.5
139	12.7	10.9	16.3

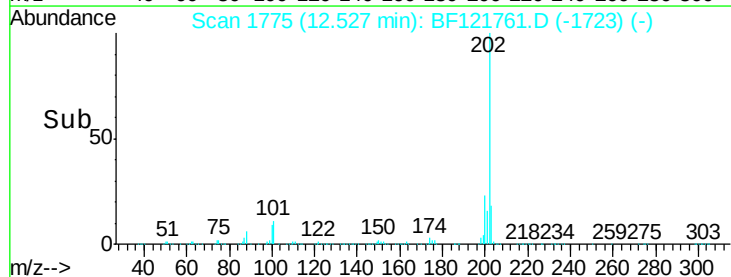
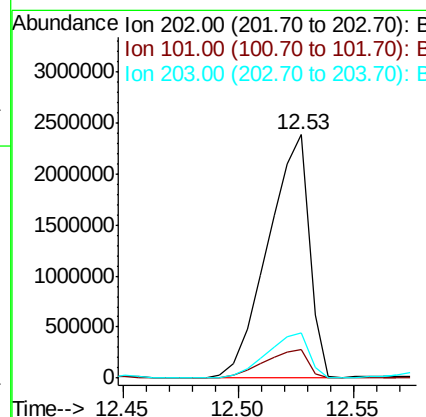
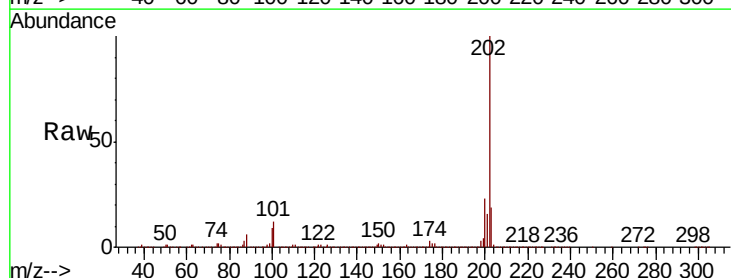
Manual Integrations
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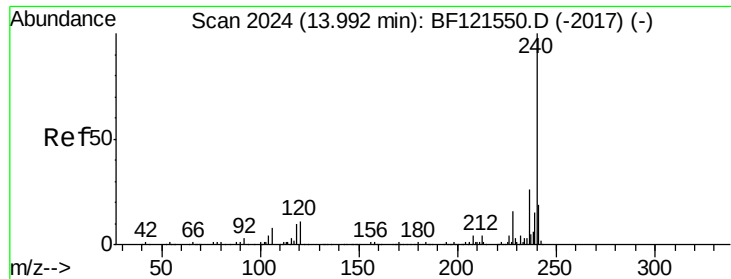
mohammad
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#75
 Fluoranthene
 Concen: 107.206 ng
 RT: 12.53 min Scan# 1775
 Delta R.T. 0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.0
203	18.5	0.0	38.0





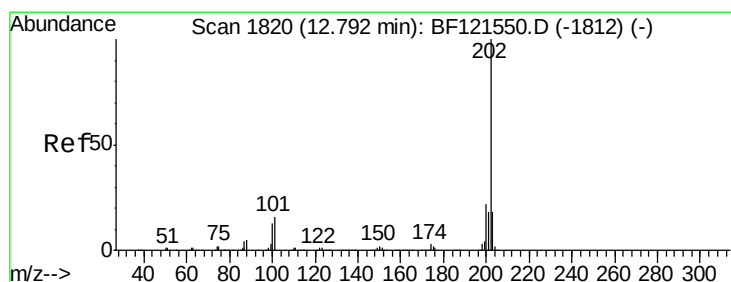
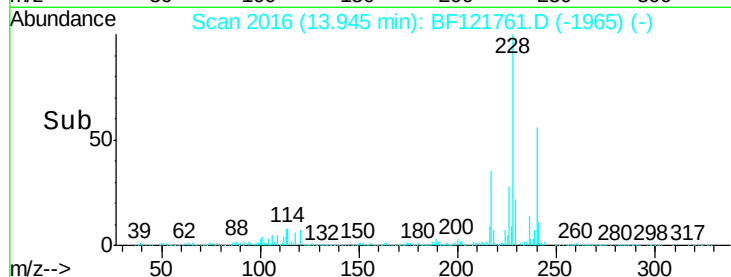
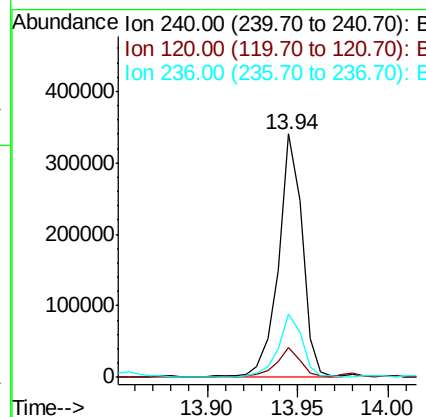
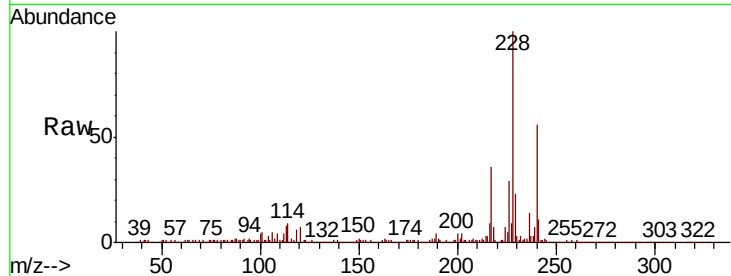
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.00 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.2	10.2	15.4
236	25.8	20.4	30.6

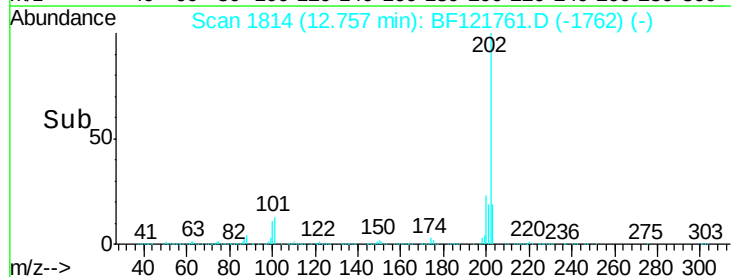
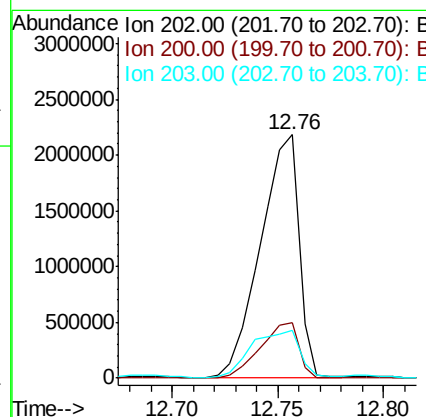
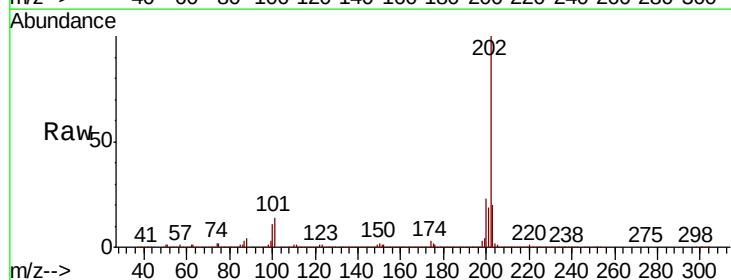
Manual Integrations
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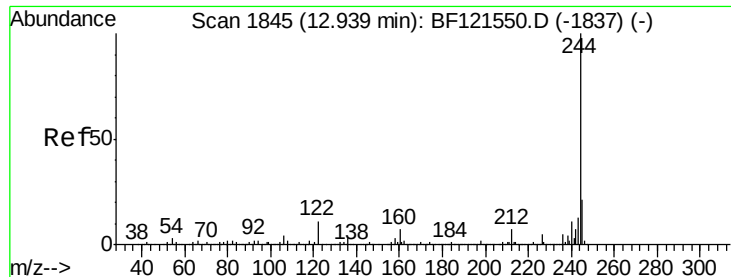
mohammad
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#78
Pyrene
Concen: 123.085 ng
RT: 12.76 min Scan# 1814
Delta R.T. 0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.0	17.4	26.2
203	19.8	14.5	21.7





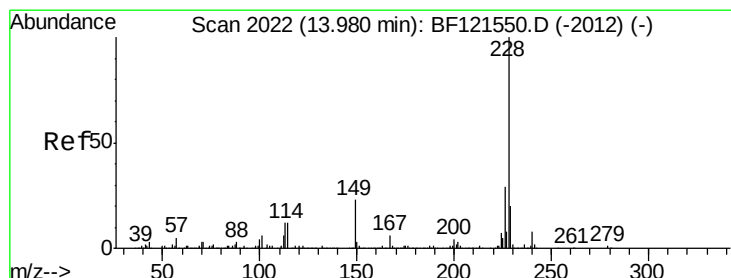
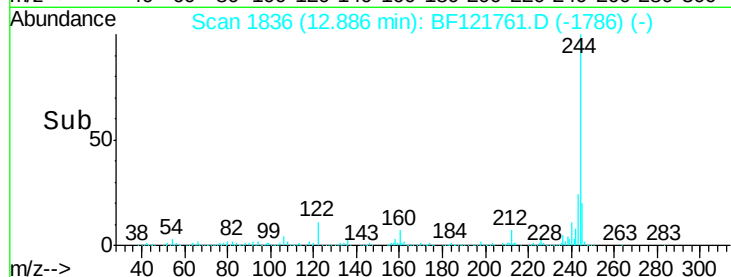
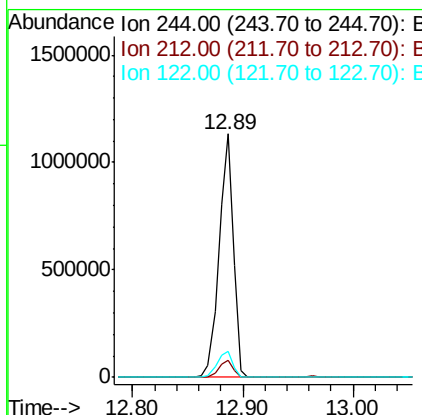
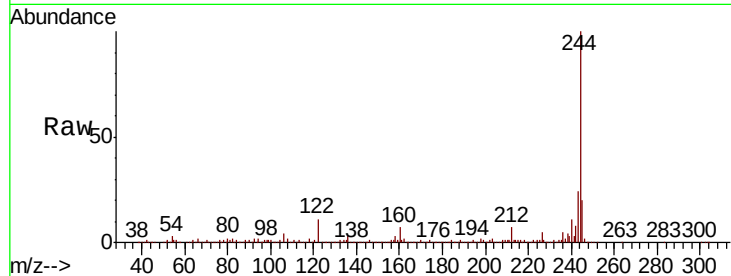
#79
 Terphenyl-d14
 Concen: 66.667 ng
 RT: 12.89 min Scan# 1836
 Delta R.T. -0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Instrument :
 BNA_F
 ClientSampled :
 B-14(11-13)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.7	9.0	13.4

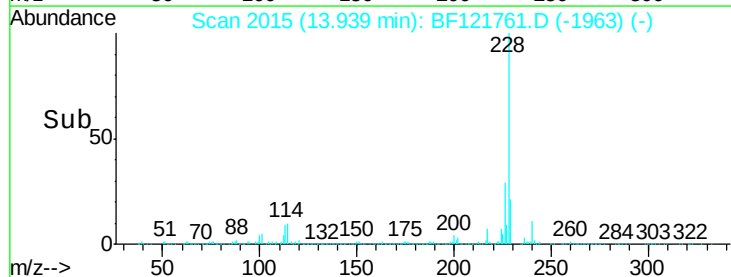
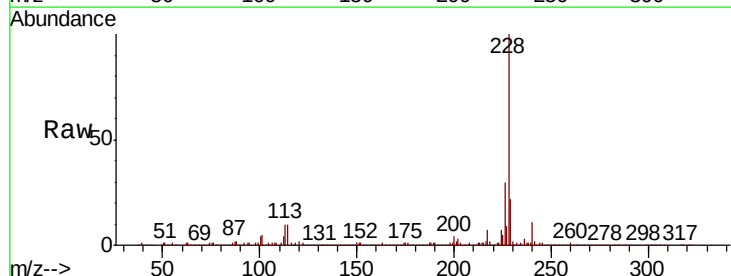
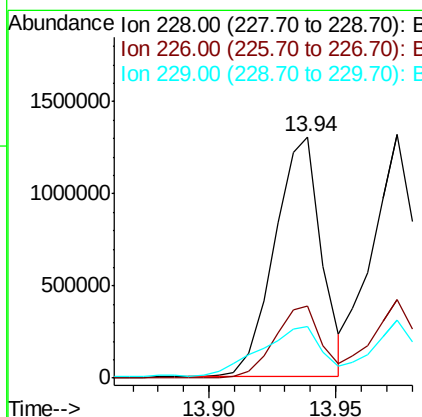
Manual Integrations
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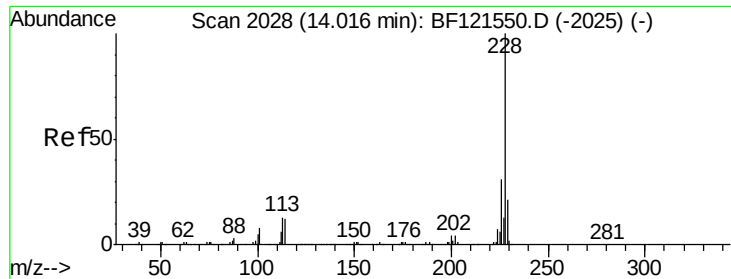
mohammad
 10/1/2020 1:32:42 PM



#81
 Benzo(a)anthracene
 Concen: 86.459 ng
 RT: 13.94 min Scan# 2015
 Delta R.T. 0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.2	33.2
229	21.5	16.2	24.4





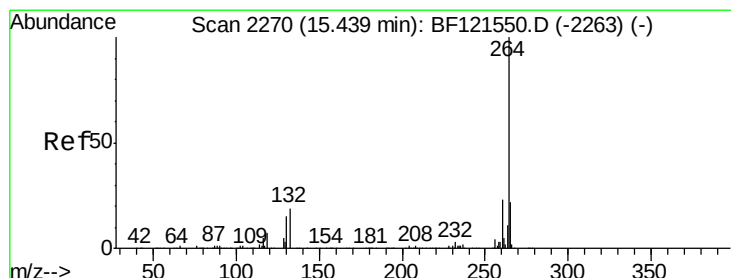
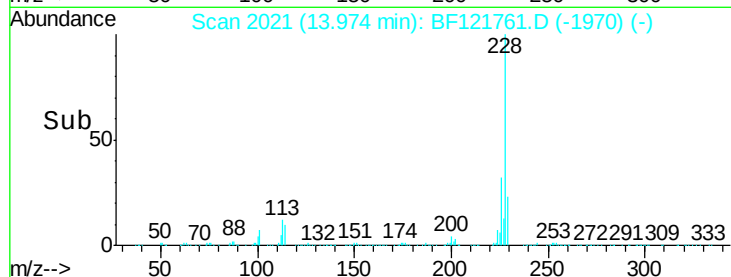
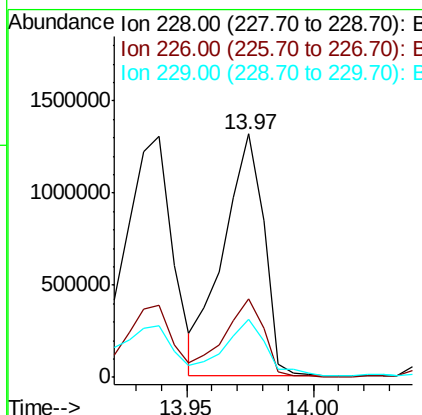
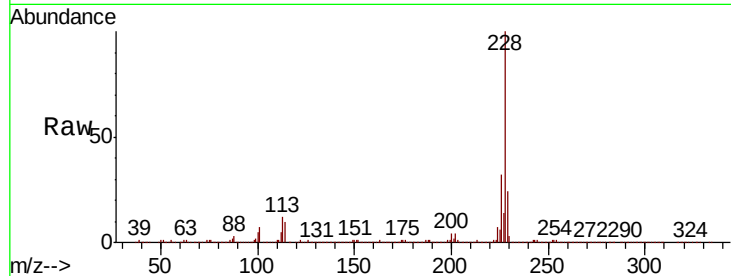
#83
Chrysene
Concen: 74.500 ng
RT: 13.97 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.4	38.0
229	23.6	16.4	24.6

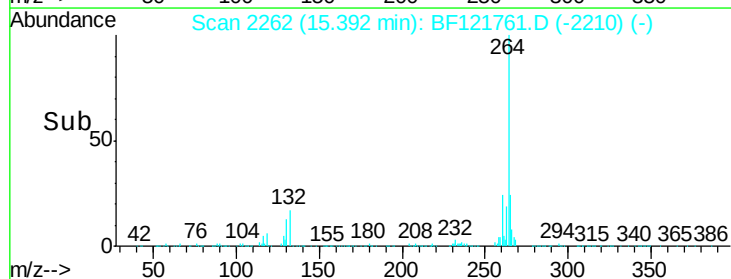
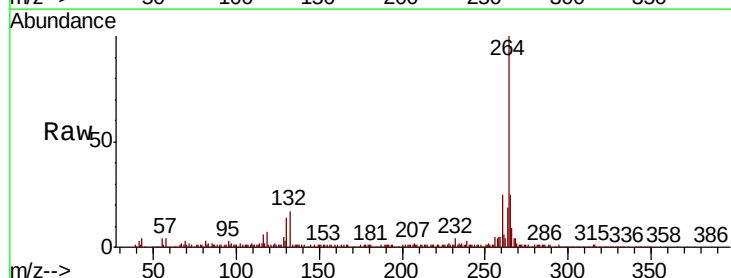
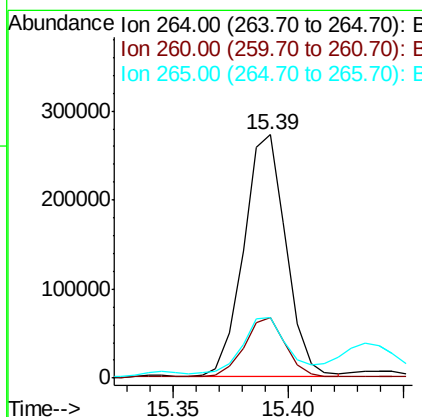
Manual Integrations
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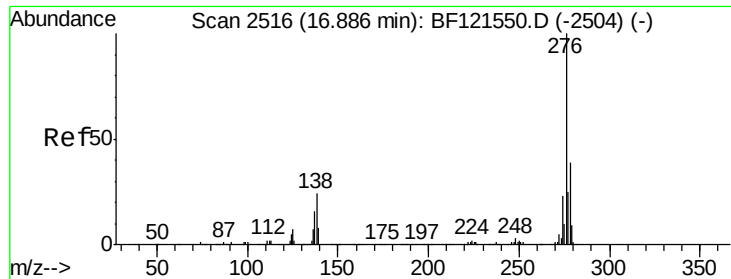
mohammad
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2262
Delta R.T. 0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.0	28.6
265	24.9	17.3	25.9





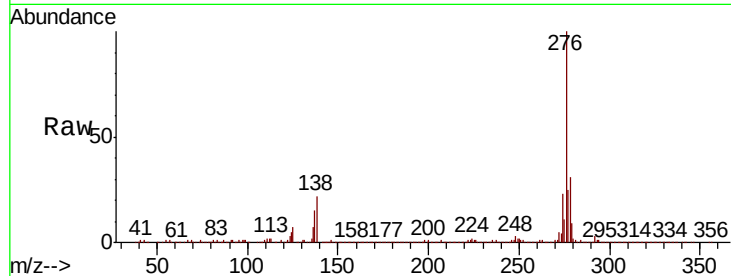
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 42.408 ng
 RT: 16.82 min Scan# 2505
 Delta R.T. 0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Instrument :
 BNA_F
 ClientSampleId :
 B-14(11-13)

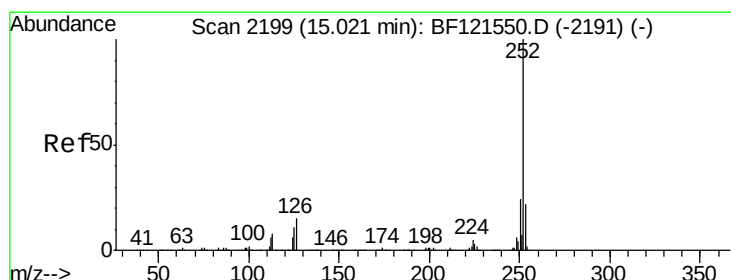
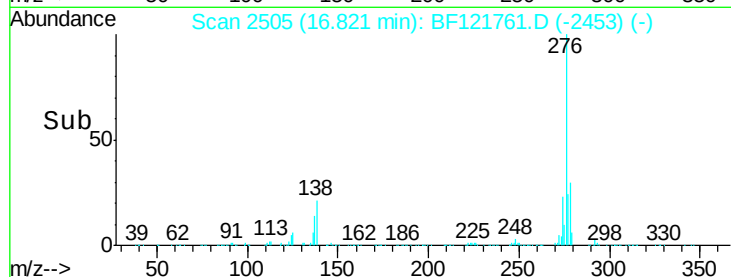
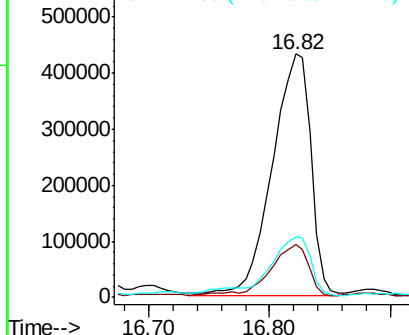
Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	19.4	29.0
277	26.7	20.4	30.6

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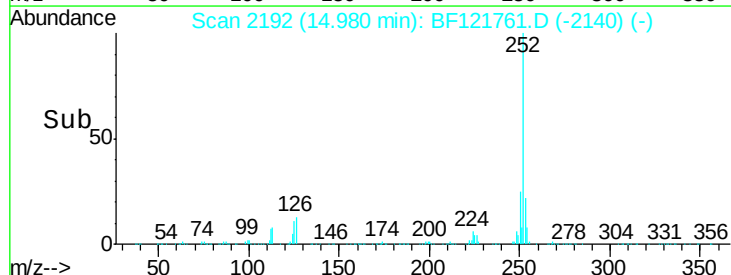
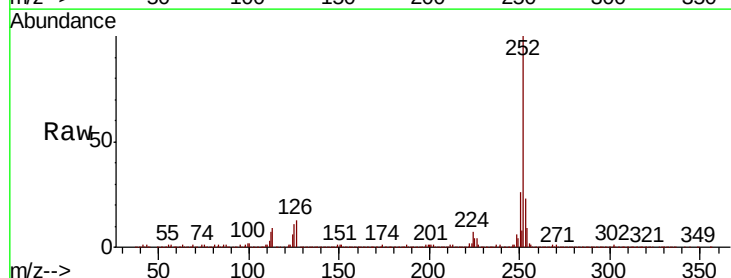
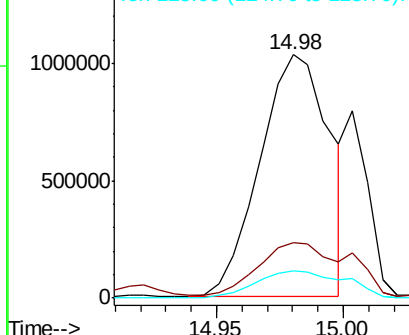
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

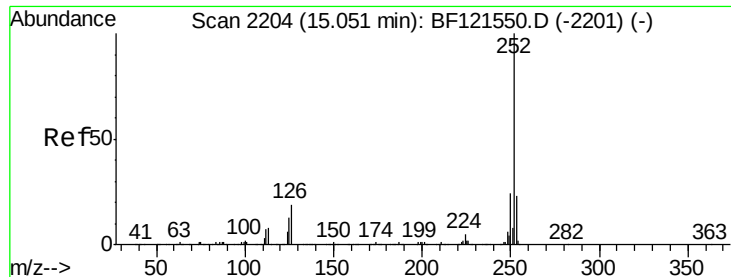


#88
 Benzo(b)fluoranthene
 Concen: 85.506 ng m
 RT: 14.98 min Scan# 2192
 Delta R.T. 0.01 min
 Lab File: BF121761.D
 Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.2
125	11.2	8.0	12.0

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





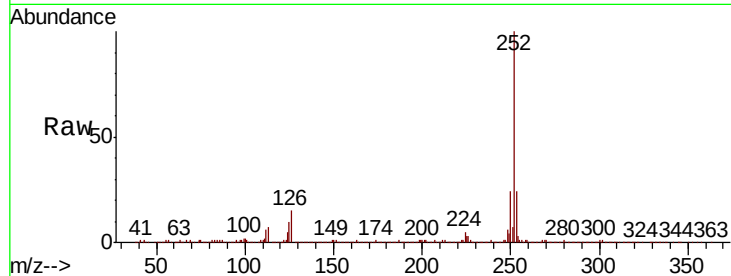
#89
Benzo(k)fluoranthene
Concen: 22.526 ng m
RT: 15.00 min Scan# 2196
Delta R.T. 0.00 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampled :
B-14(11-13)

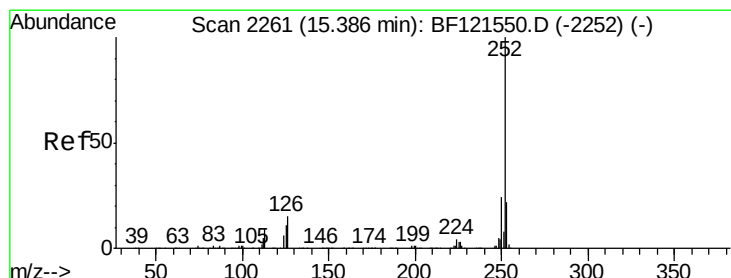
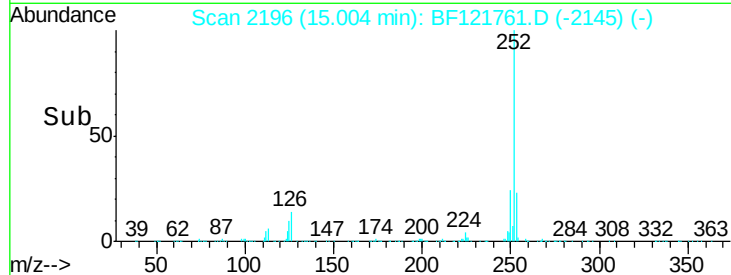
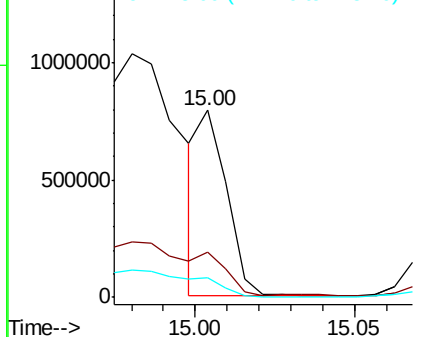
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	10.4	7.8	11.6

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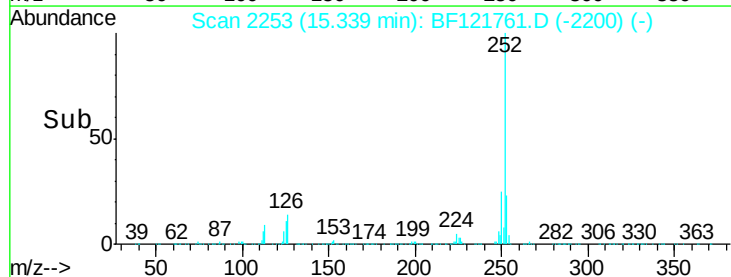
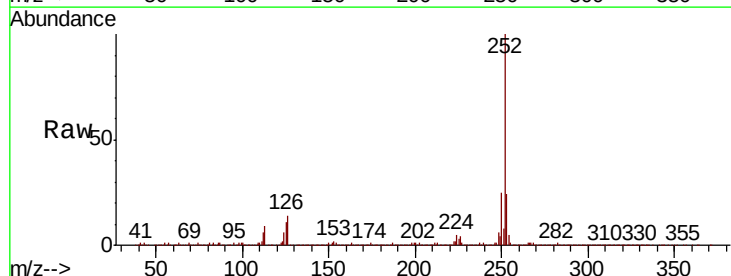
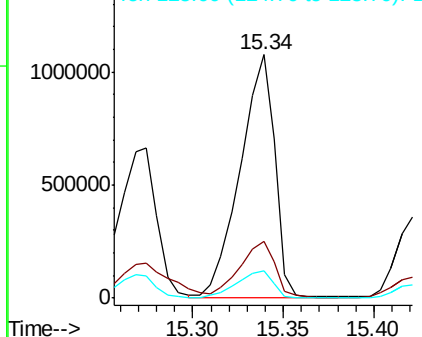
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

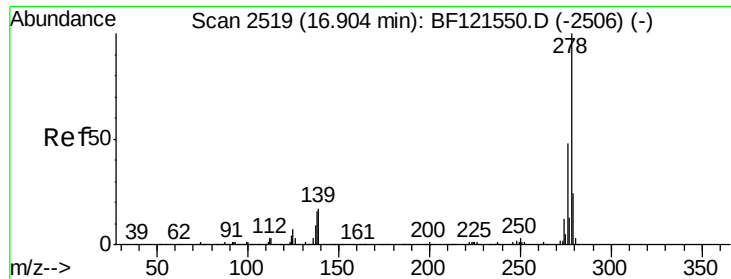


#90
Benzo(a)pyrene
Concen: 72.394 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	11.0	9.2	13.8

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





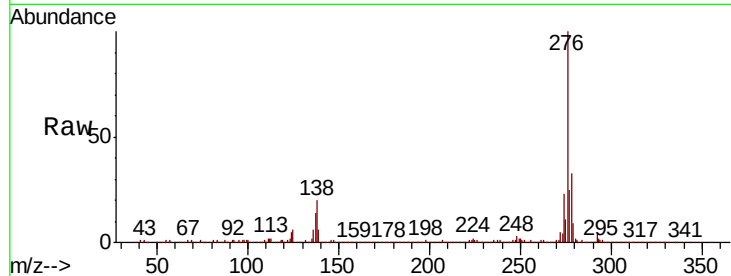
#91
Dibenzo(a,h)anthracene
Concen: 14.369 ng
RT: 16.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Instrument :
BNA_F
ClientSampleId :
B-14(11-13)

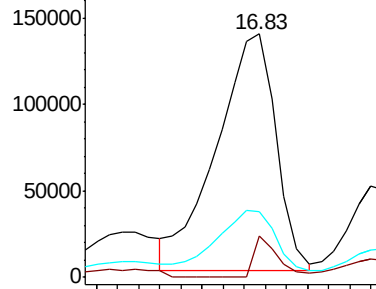
Tot Ion	Ratio	Lower	Upper
278	100		
139	17.2	12.5	18.7
279	26.9	19.2	28.8

Manual Integrations
APPROVED

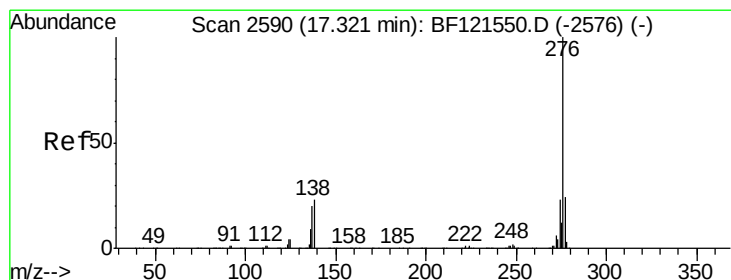
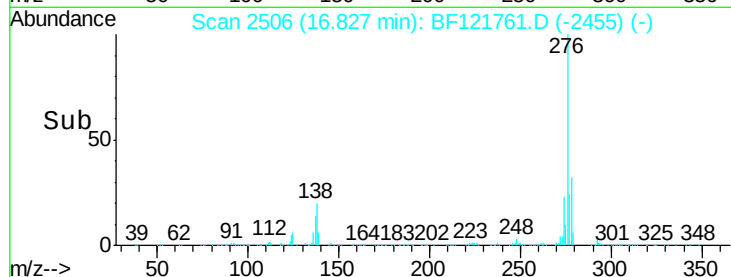
mohammad
10/1/2020 1:32:42 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

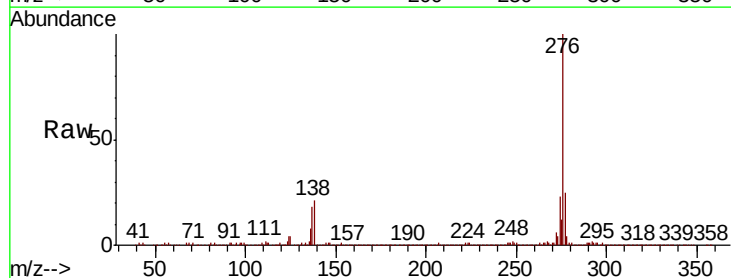


Time--> 16.75 16.80 16.85

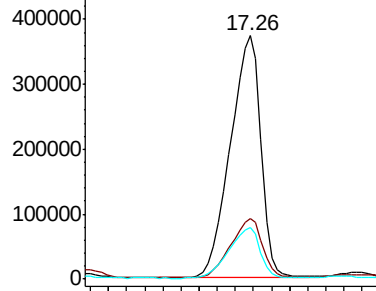


#92
Benzo(g,h,i)perylene
Concen: 47.314 ng
RT: 17.26 min Scan# 2579
Delta R.T. 0.01 min
Lab File: BF121761.D
Acq: 1 Oct 2020 2:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.2	28.8
138	21.5	16.7	25.1



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



Time--> 17.10 17.20 17.30

