

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
 Data File : BF121713.D
 Acq On : 28 Sep 2020 15:38
 Operator : JU/CG
 Sample : L4160-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 11976

Manual Integrations
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Quant Time: Sep 28 18:25:52 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 28 11:40:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	164481	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	641312	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	336838	20.00	ng	0.00
64) Phenanthrene-d10	11.32	188	622246	20.00	ng	0.00
76) Chrysene-d12	13.96	240	404982	20.00	ng	0.00
86) Perylene-d12	15.40	264	370841	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	887604	80.20	ng	0.00
7) Phenol-d6	6.43	99	1154866	79.53	ng	0.00
23) Nitrobenzene-d5	7.36	82	798754	66.87	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	366126	87.46	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	1404605	63.16	ng	0.00
79) Terphenyl-d14	12.90	244	1461692	73.12	ng	0.00
Target Compounds						
37) 2-Methylnaphthalene	8.79	142	46701	2.105	ng	98
49) Acenaphthylene	9.69	152	73639	2.255	ng	98
50) Dimethylphthalate	9.55	163	260845	10.684	ng	100
52) Acenaphthene	9.86	154	101777	4.935	ng	99
55) Dibenzofuran	10.03	168	191051	6.579	ng	95
58) Fluorene	10.37	166	362332	16.315	ng	98
71) Phenanthrene	11.35	178	2110152	62.242	ng	99
72) Anthracene	11.40	178	1566925	44.787	ng	100
73) Carbazole	11.55	167	386844	12.253	ng	99
75) Fluoranthene	12.54	202	3736642	103.249	ng	97
78) Pyrene	12.77	202	2848692	96.275	ng	98
81) Benzo(a)anthracene	13.94	228	910436	35.535	ng	98
83) Chrysene	13.98	228	782548	30.162	ng	98
84) Bis(2-ethylhexyl)phthalate	13.93	149	68100	4.260	ng	98
87) Indeno(1,2,3-cd)pyrene	16.82	276	180956	7.493	ng	97
88) Benzo(b)fluoranthene	14.99	252	564425m	22.767	ng	
89) Benzo(k)fluoranthene	15.01	252	231405m	10.193	ng	
90) Benzo(a)pyrene	15.34	252	329641	15.643	ng	98
91) Dibenzo(a,h)anthracene	16.83	278	49120m	2.443	ng	
92) Benzo(a,h,i)perylene	17.25	276	160852	8.140	ng	97

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

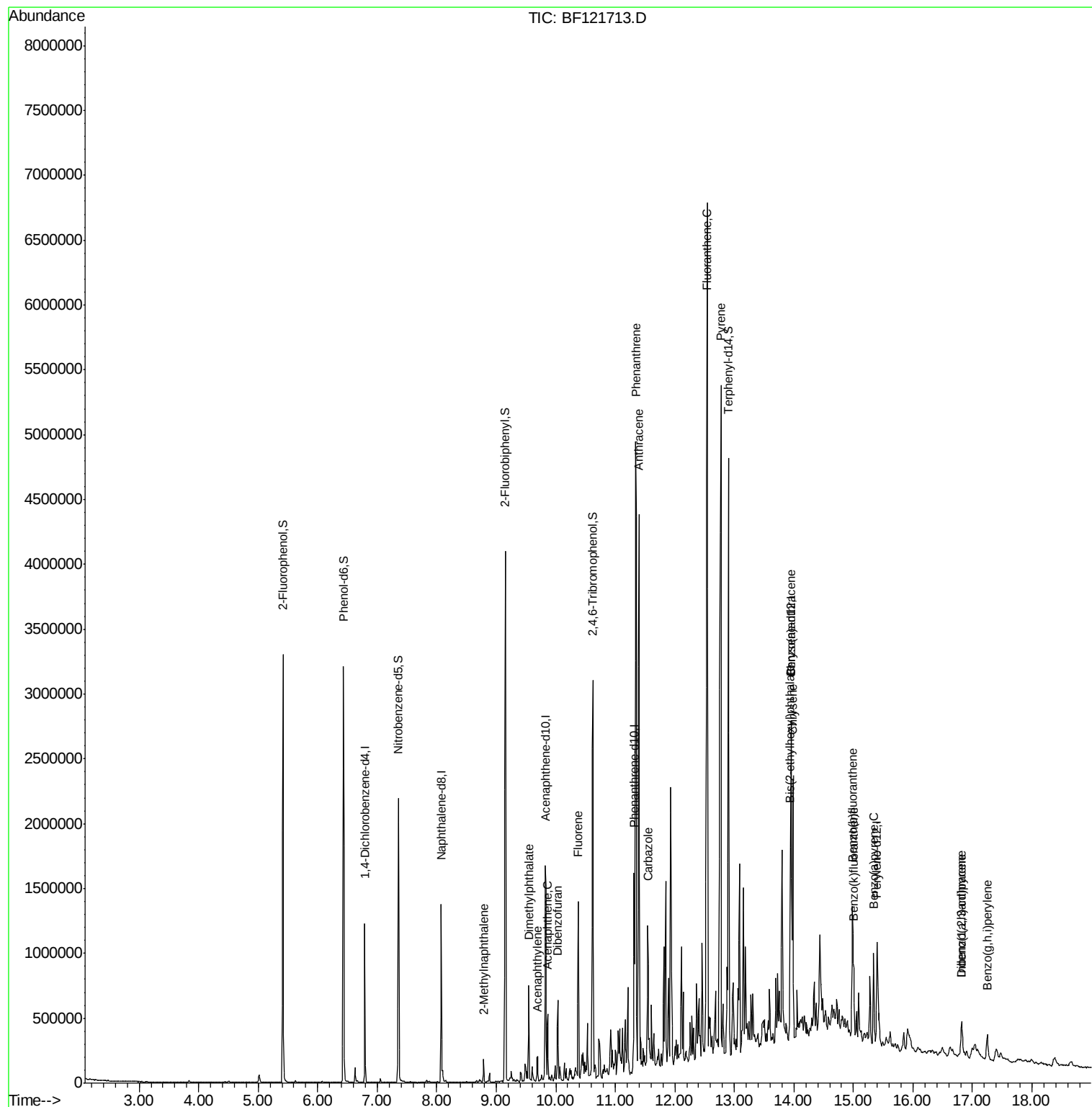
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092820\
Data File : BF121713.D
Acq On : 28 Sep 2020 15:38
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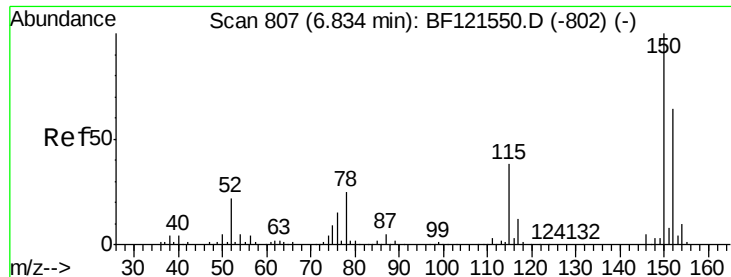
Instrument :
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Quant Time: Sep 28 18:25:52 2020
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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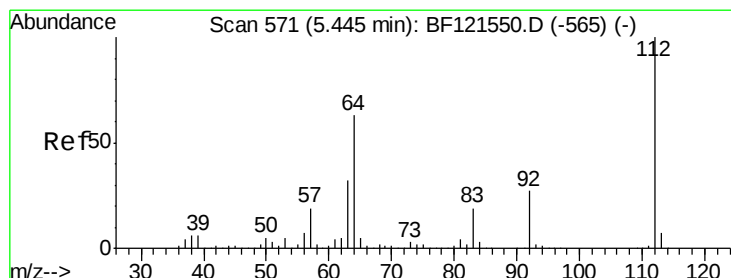
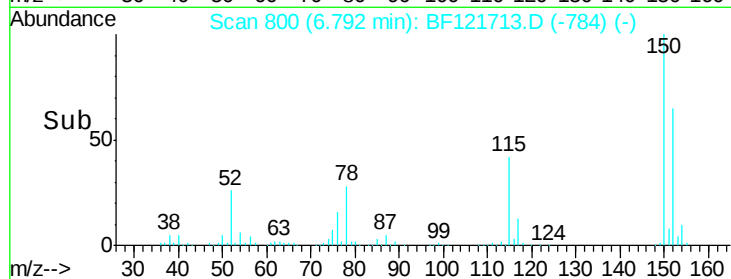
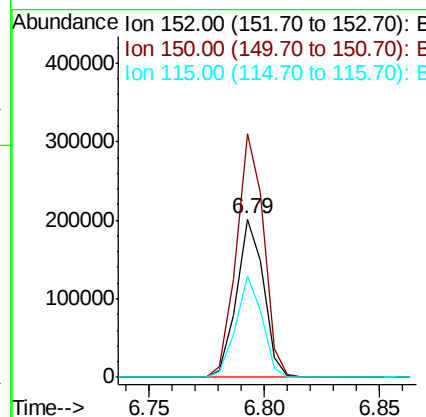
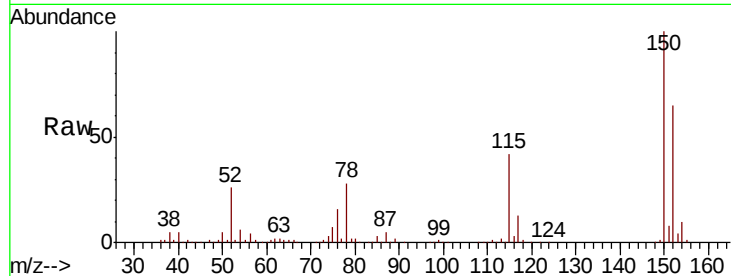
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.79 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Instrument :
 BNA_F
 ClientSampleId :
 11976

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.6	122.6	184.0
115	64.4	47.1	70.7

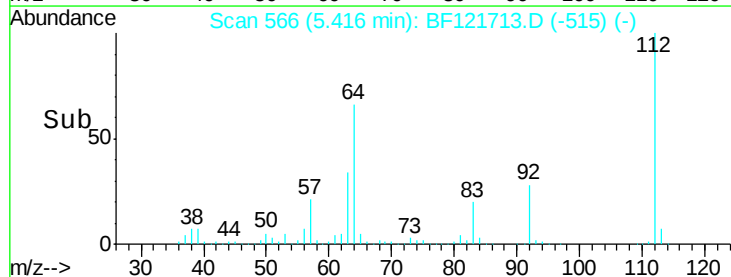
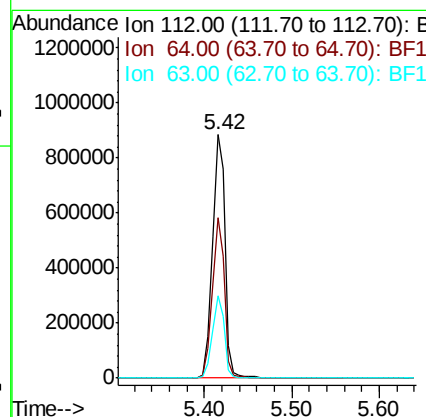
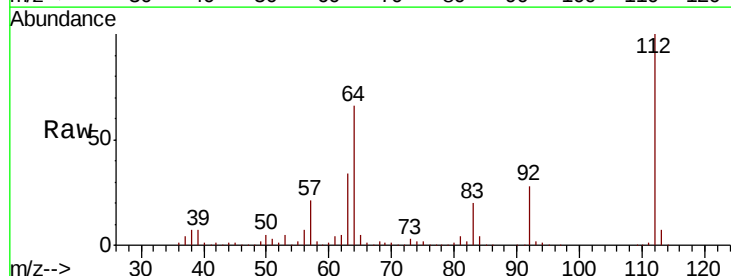
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#5
 2-Fluorophenol
 Concen: 80.197 ng
 RT: 5.42 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.6	49.5	74.3
63	33.9	25.4	38.0





#7

Phenol-d6

Concen: 79.535 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

Instrument :

BNA_F

ClientSampleId :

11976

Tot Ion: 99 Resp: 1154866

Ion Ratio Lower Upper

99 100

42 20.5 16.1 24.1

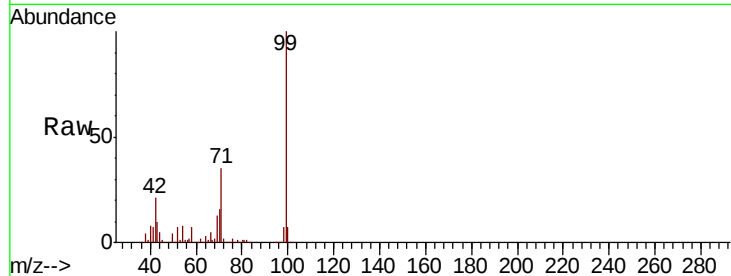
71 35.0 27.6 41.4

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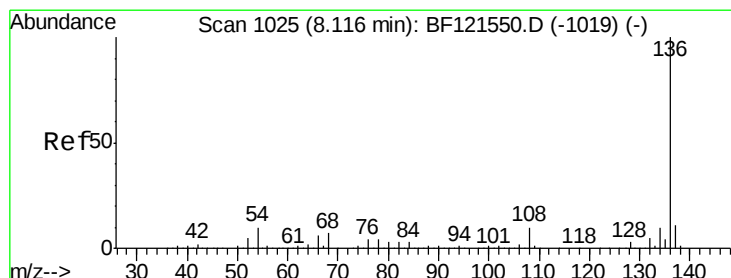
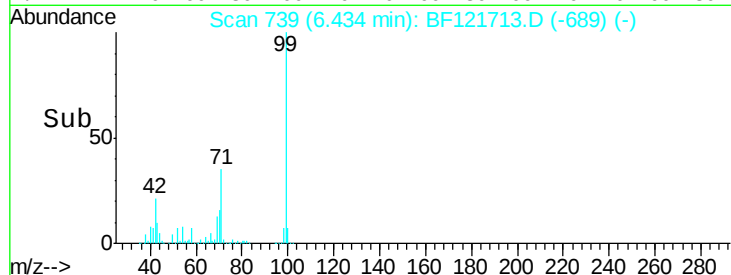
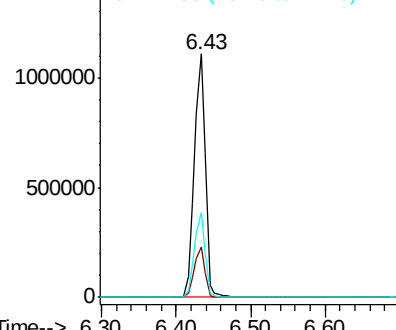
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Abundance Ion 99.00 (98.70 to 99.70): BF1
1500000 Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

Tgt Ion: 136 Resp: 641312

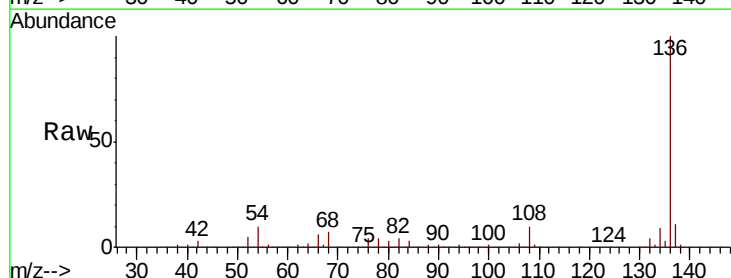
Ion Ratio Lower Upper

136 100

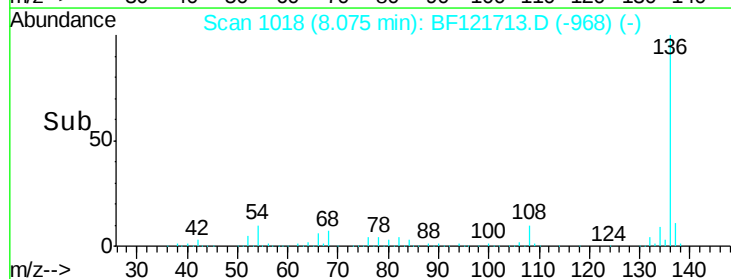
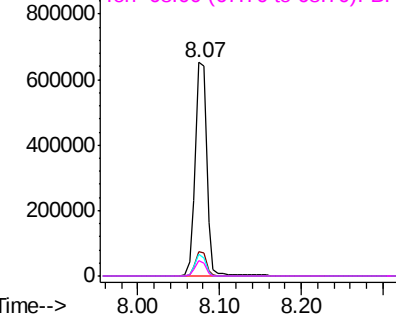
137 11.3 8.8 13.2

54 10.3 7.5 11.3

68 7.2 5.5 8.3



Abundance Ion 136.00 (135.70 to 136.70): E
1000000 Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





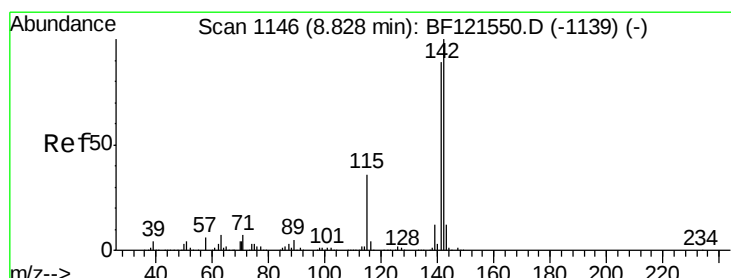
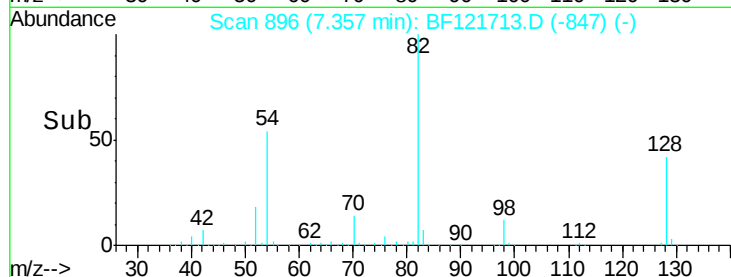
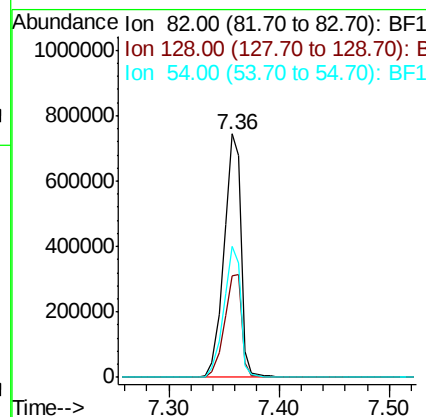
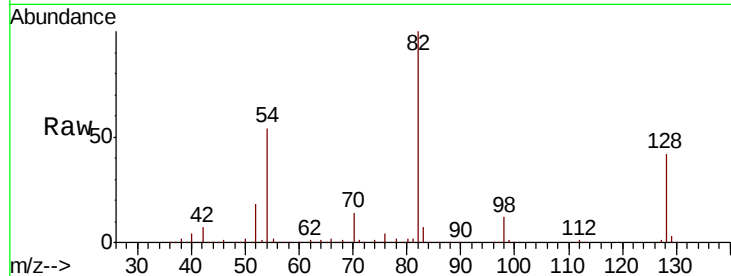
#23
 Nitrobenzene-d5
 Concen: 66.873 ng
 RT: 7.36 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Instrument :
 BNA_F
 ClientSampleId :
 11976

Tot Ion	82	Resp	798754
Ion Ratio	Lower	Upper	
82	100		
128	41.7	35.8	53.6
54	54.0	42.6	63.8

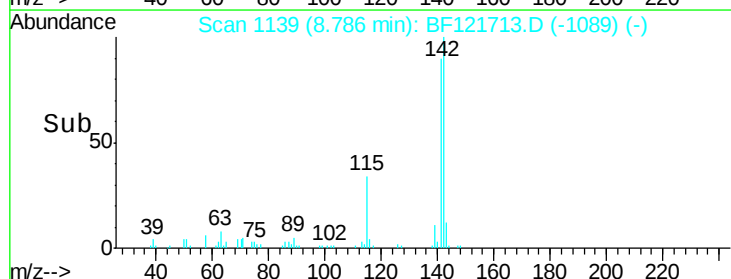
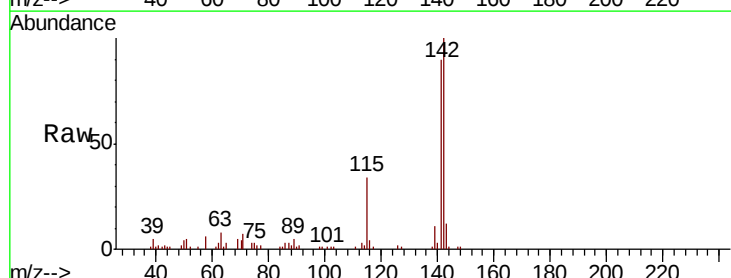
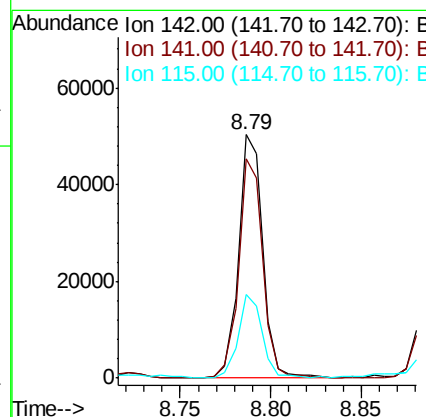
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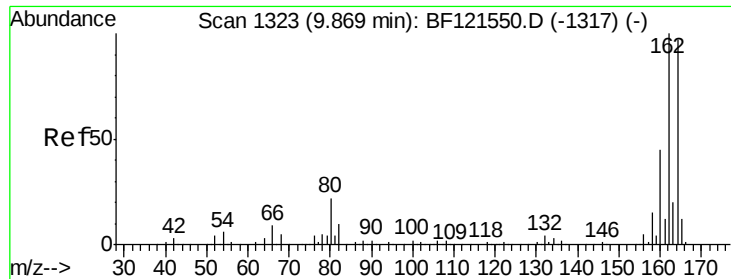
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#37
 2-Methylnaphthalene
 Concen: 2.105 ng
 RT: 8.79 min Scan# 1139
 Delta R.T. -0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Tgt Ion	142	Resp	46701
Ion Ratio	Lower	Upper	
142	100		
141	90.2	71.9	107.9
115	34.1	29.9	44.9





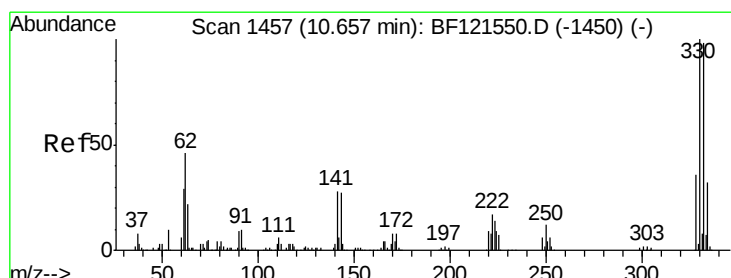
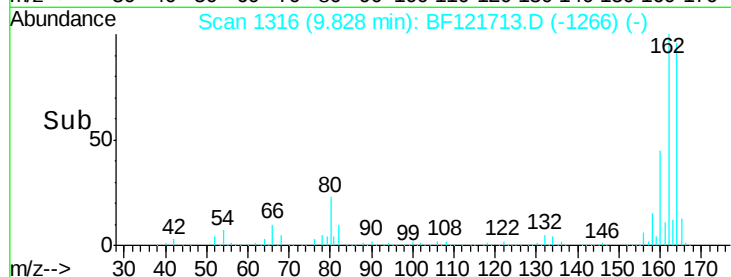
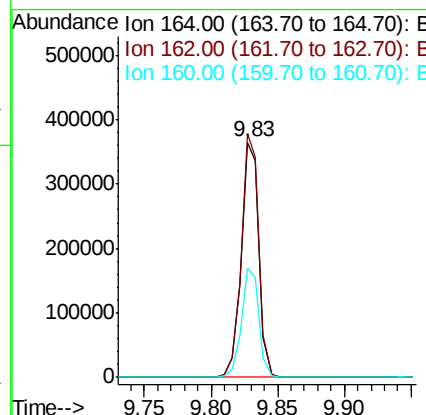
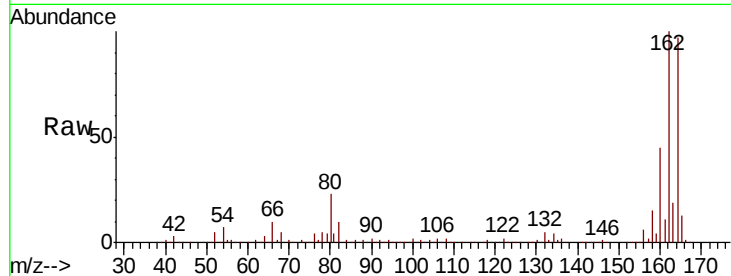
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	103.6	82.1	123.1	
160	46.7	36.8	55.2	

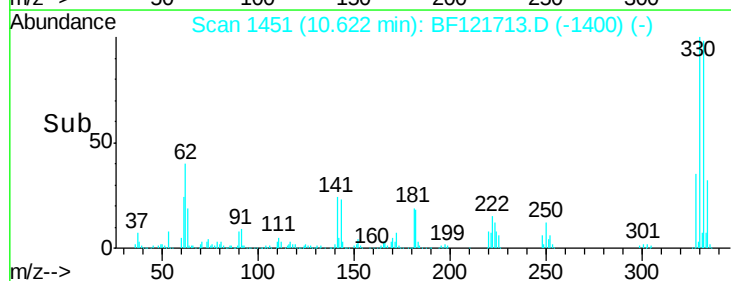
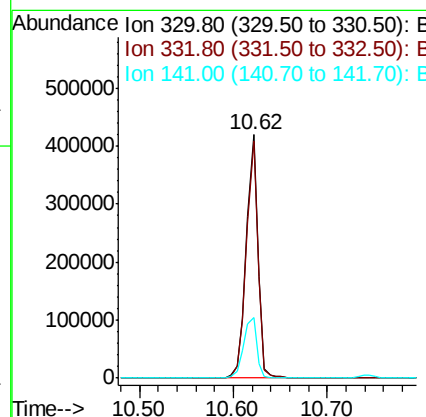
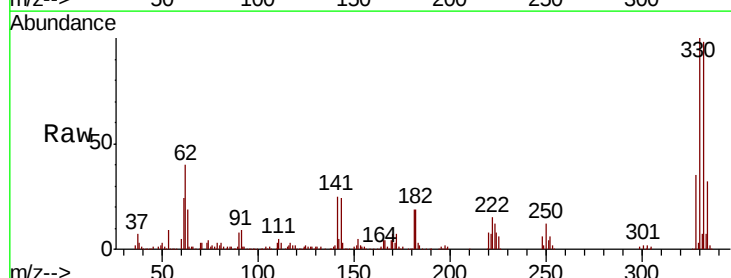
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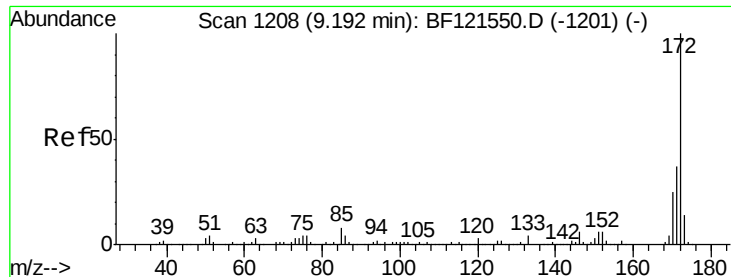
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#42
2,4,6-Tribromophenol
Concen: 87.455 ng
RT: 10.62 min Scan# 1451
Delta R.T. 0.00 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.5	76.0	114.0	
141	28.6	22.2	33.4	





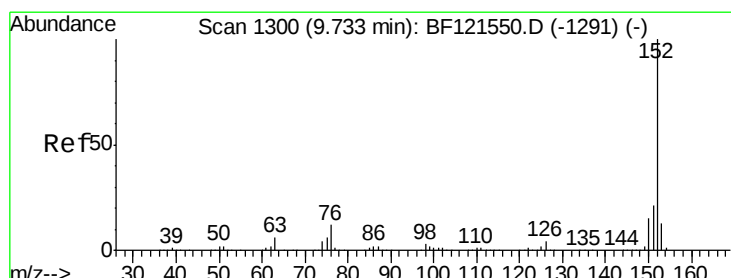
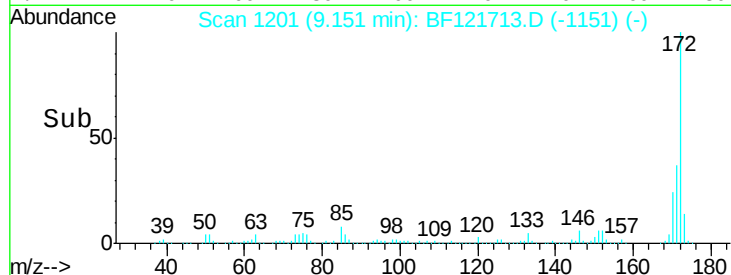
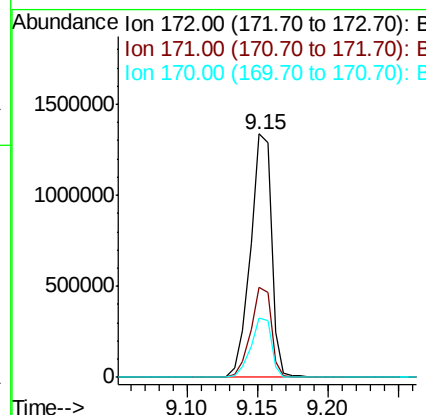
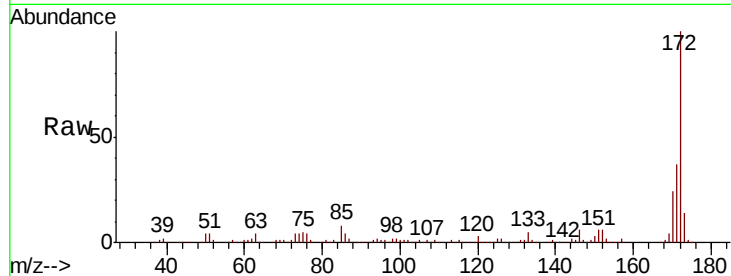
#45
2-Fluorobiphenyl
Concen: 63.156 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.0	43.6
170	24.4	19.5	29.3

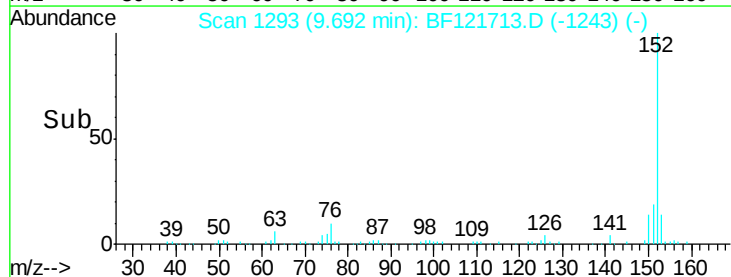
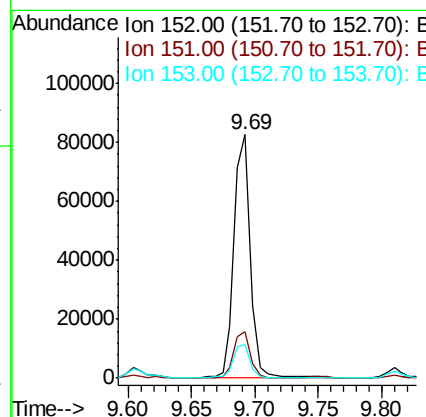
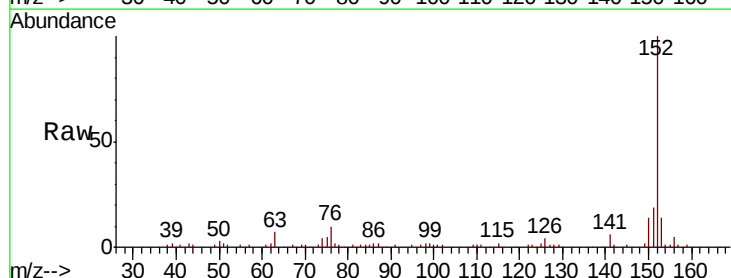
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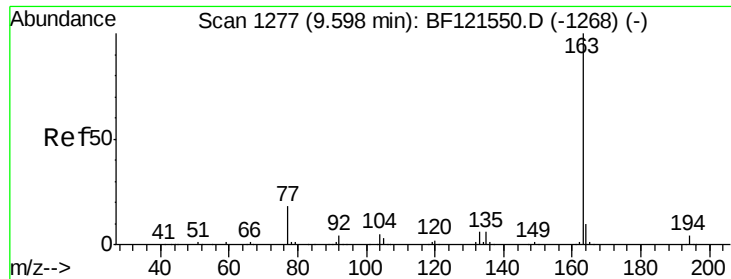
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#49
Acenaphthylene
Concen: 2.255 ng
RT: 9.69 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.5	24.7
153	13.8	10.6	16.0





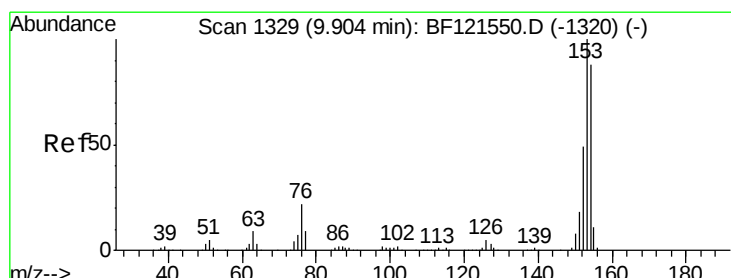
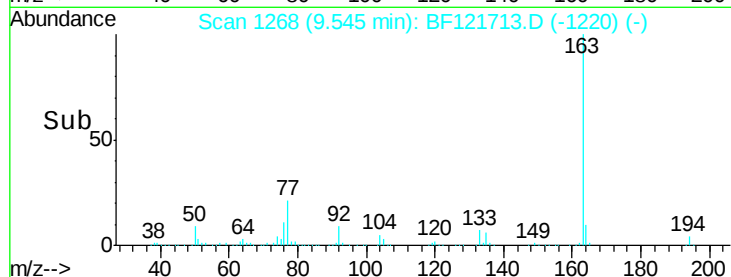
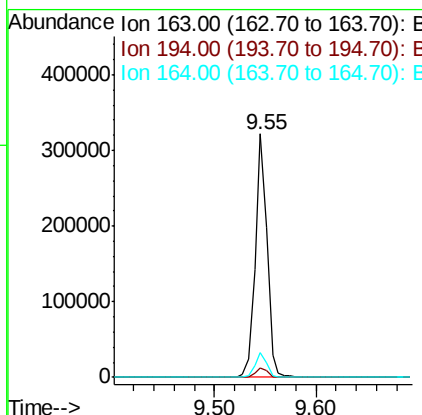
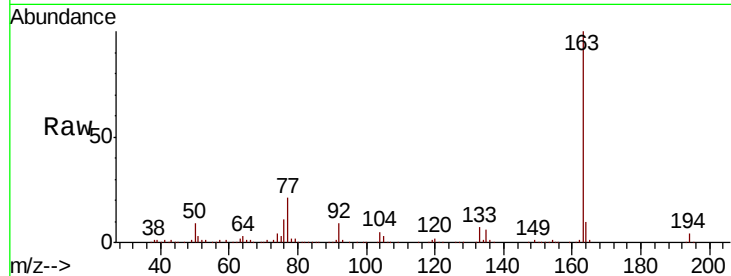
#50
Dimethylphthalate
Concen: 10.684 ng
RT: 9.55 min Scan# 1268
Delta R.T. -0.02 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
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ClientSampleId :
11976

Tot Ion	Ratio	Resp	Lower	Upper
163	100	260845		
194	4.0		3.4	5.0
164	10.1		8.2	12.2

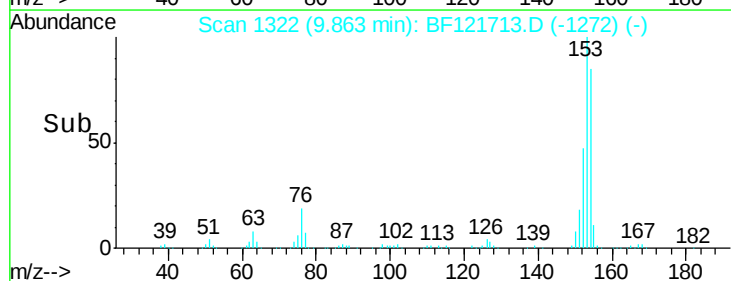
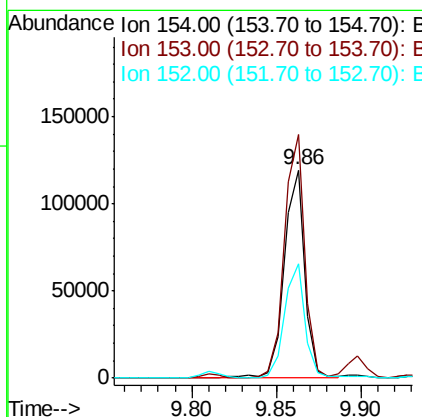
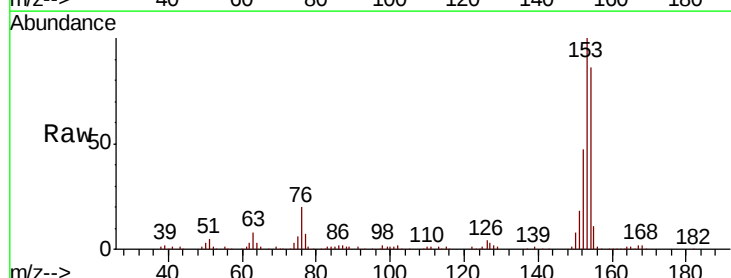
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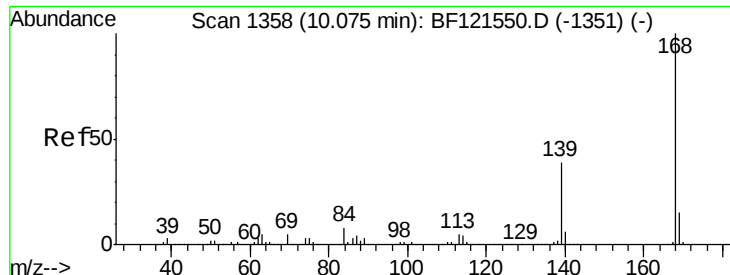
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#52
Acenaphthene
Concen: 4.935 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	101777		
153	116.8		91.7	137.5
152	54.9		44.0	66.0





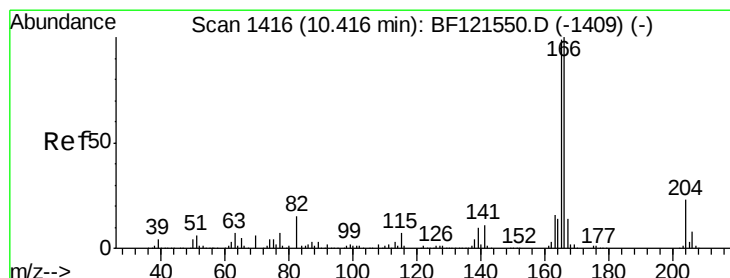
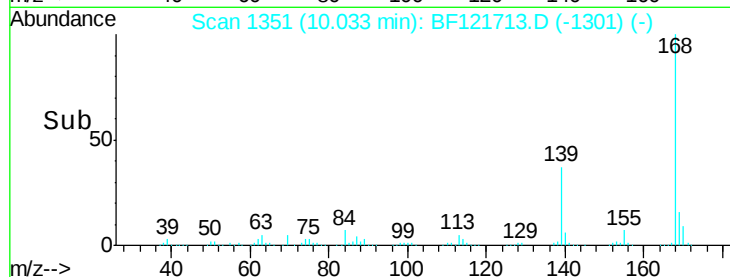
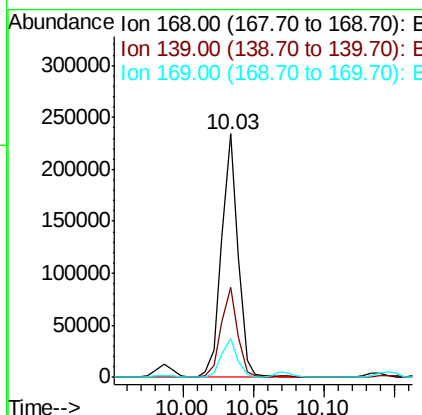
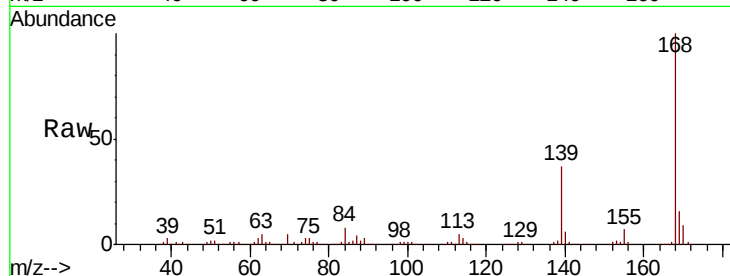
#55
Dibenzenofuran
Concen: 6.579 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.0	32.6	49.0
169	16.1	11.7	17.5

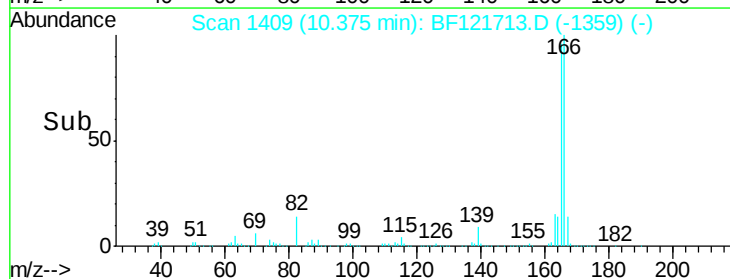
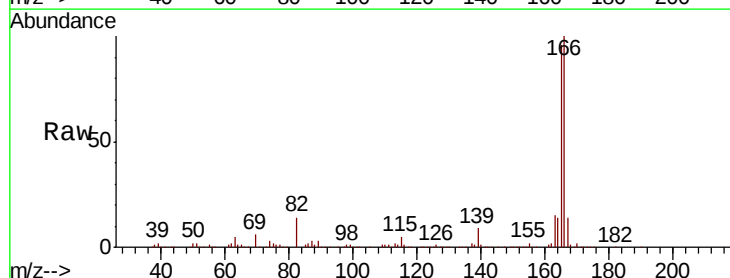
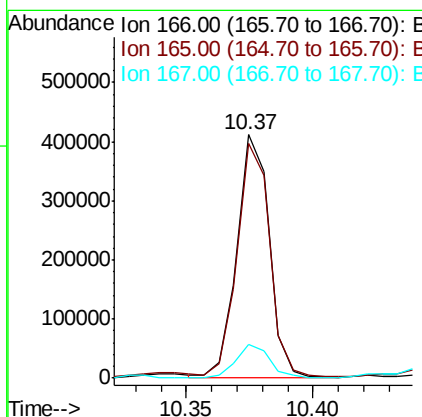
Manual Integrations
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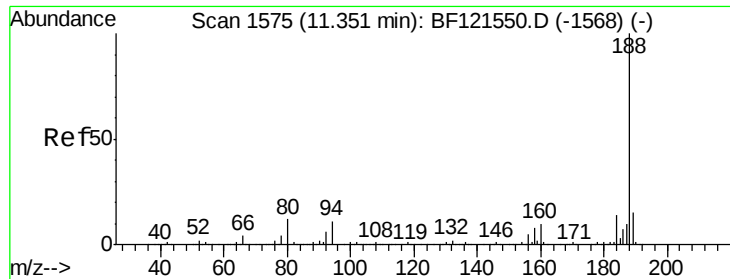
mohammad
9/29/2020 3:24:42 PM



#58
Fluorene
Concen: 16.315 ng
RT: 10.37 min Scan# 1409
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.5	78.8	118.2
167	13.9	11.0	16.4





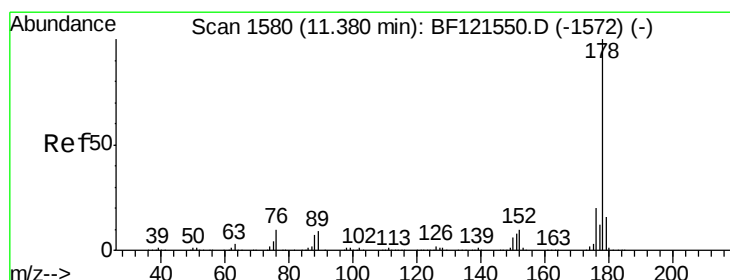
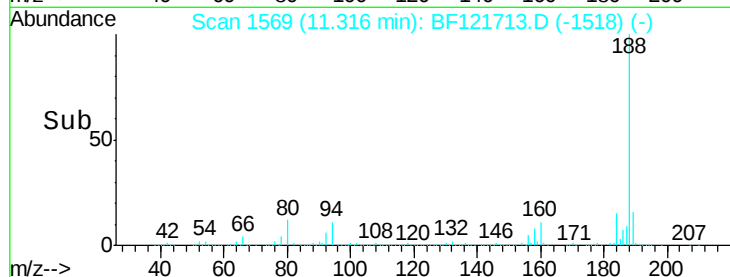
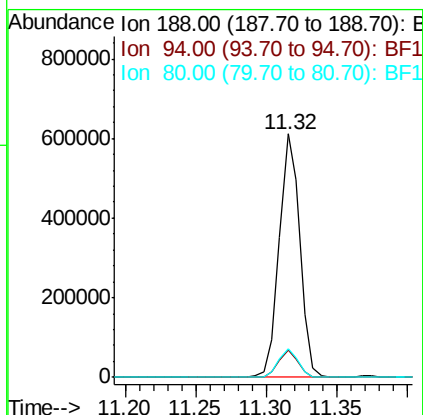
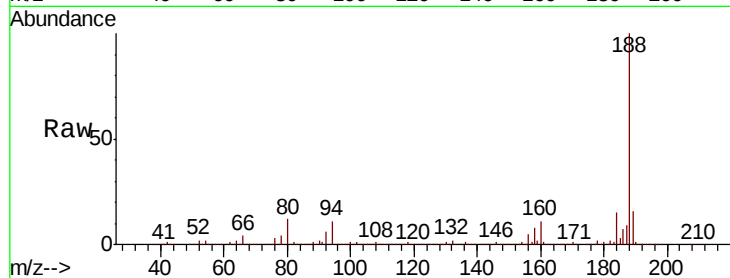
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.32 min Scan# 1569
Delta R.T. 0.00 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Resp	Lower	Upper
188	100	622246		
94	11.0		8.4	12.6
80	11.6		9.3	13.9

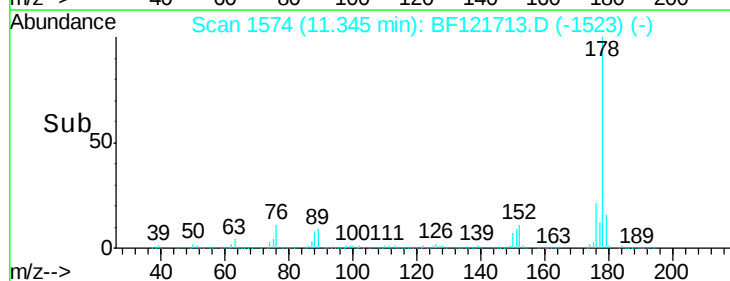
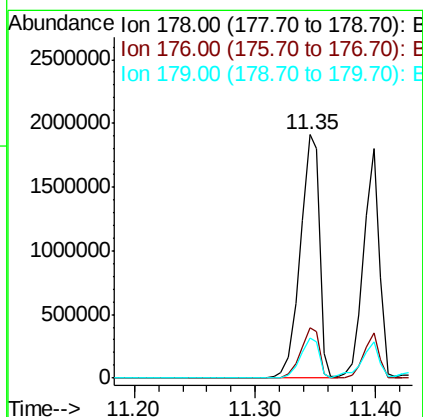
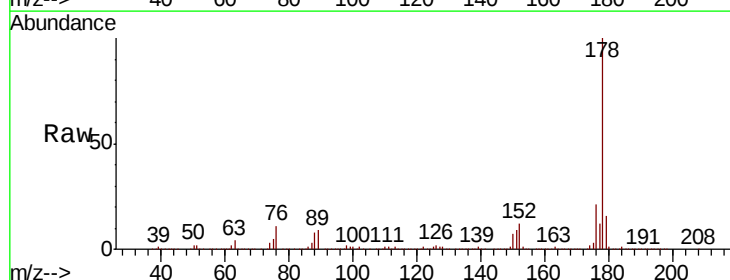
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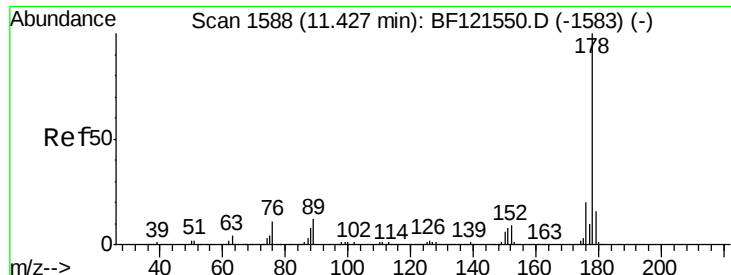
mohammad
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#71
Phenanthrene
Concen: 62.242 ng
RT: 11.35 min Scan# 1574
Delta R.T. 0.00 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	2110152		
176	20.7		16.2	24.4
179	16.3		12.5	18.7





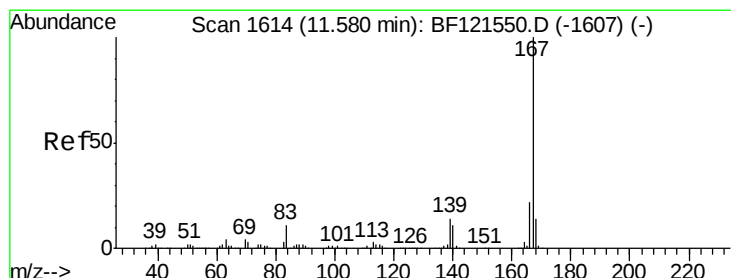
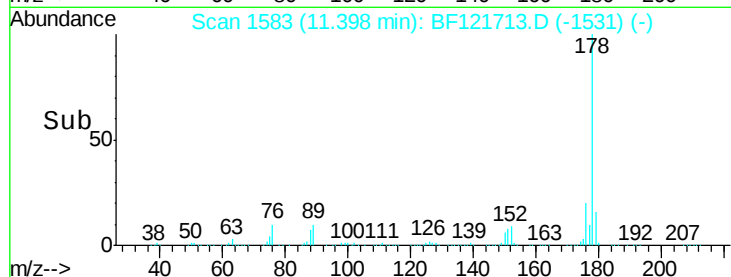
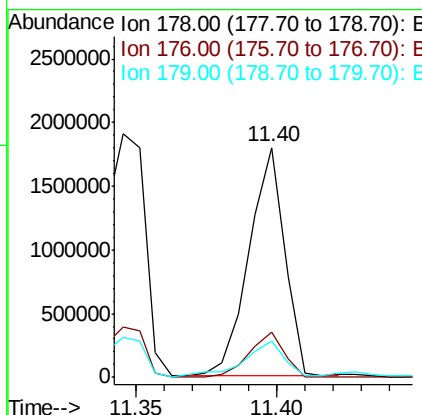
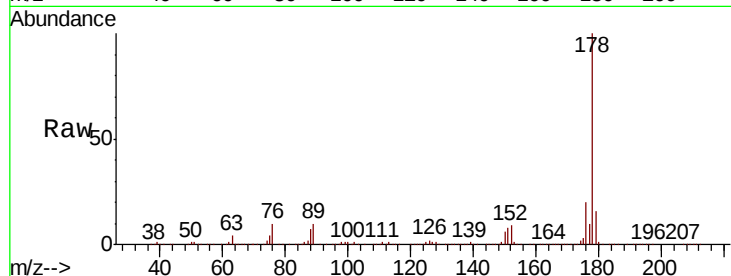
#72
 Anthracene
 Concen: 44.787 ng
 RT: 11.40 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Instrument :
 BNA_F
 ClientSampleId :
 11976

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	16.0	12.7	19.1

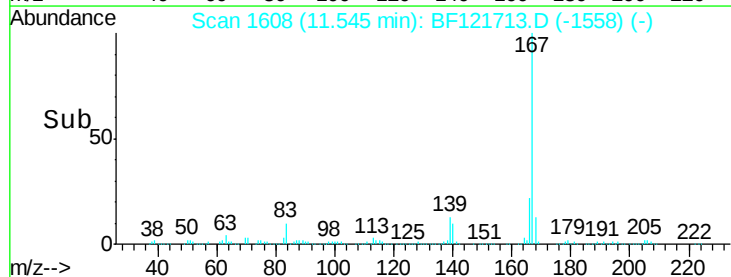
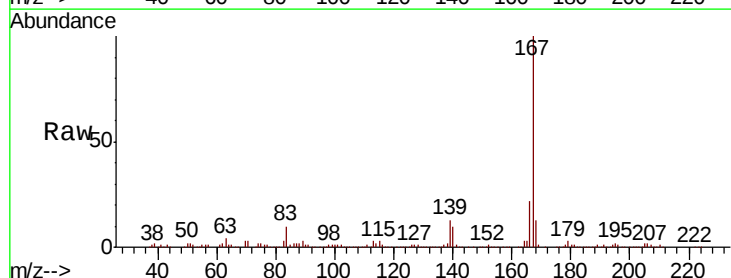
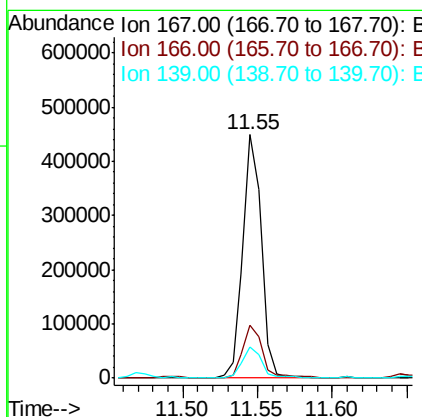
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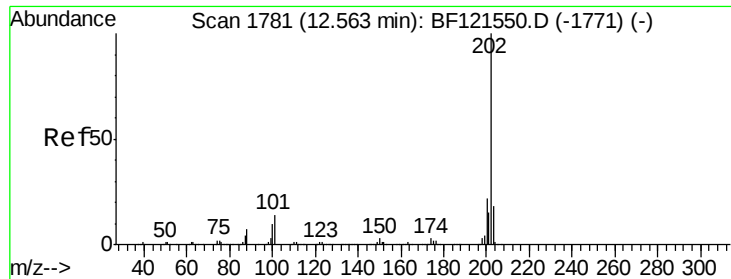
mohammad
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#73
 Carbazole
 Concen: 12.253 ng
 RT: 11.55 min Scan# 1608
 Delta R.T. -0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	12.9	10.7	16.1





#75

Fluoranthene

Concen: 103.249 ng

RT: 12.54 min Scan# 1778

Delta R.T. 0.02 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

Instrument :

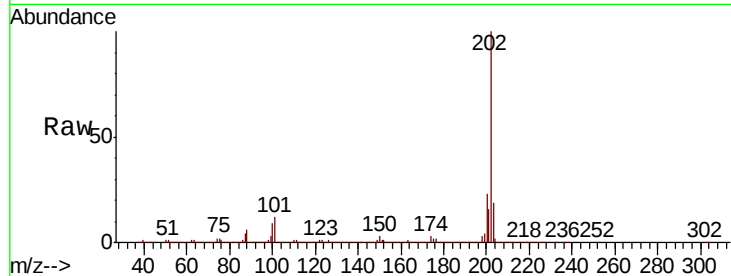
BNA_F

ClientSampleId :
11976

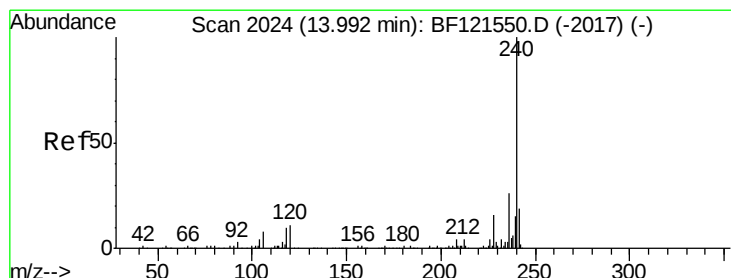
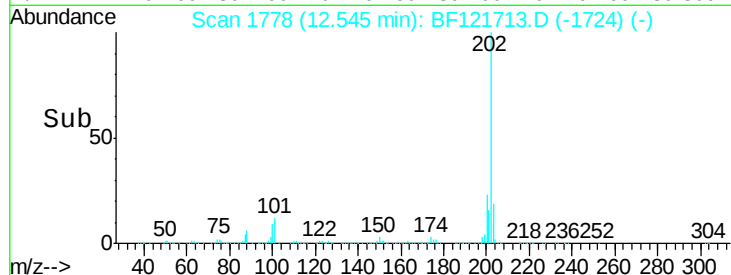
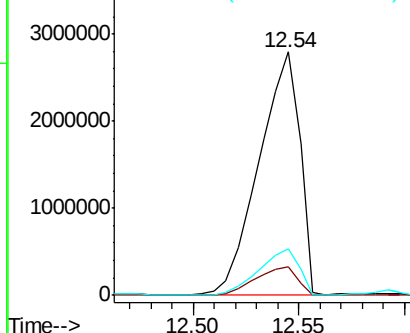
Tot Ion:	202	Resp:	3736642
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	33.7
203	19.1	0.0	38.5

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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

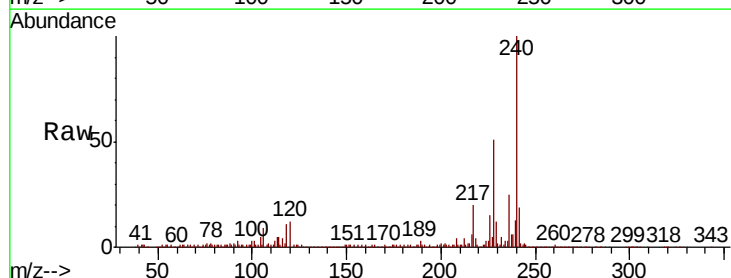
RT: 13.96 min Scan# 2018

Delta R.T. 0.00 min

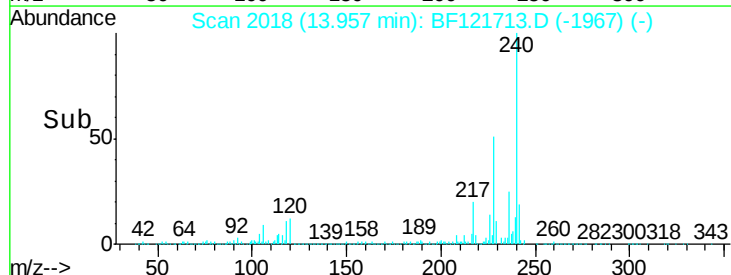
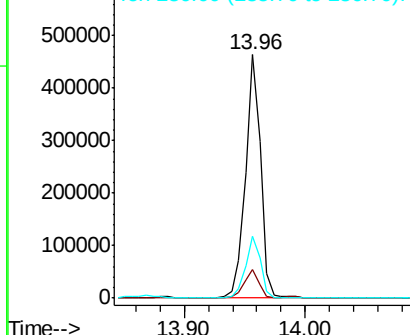
Lab File: BF121713.D

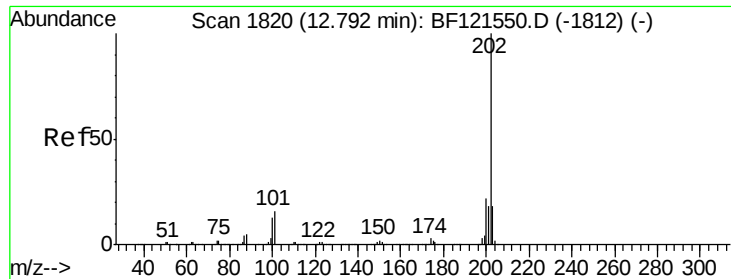
Acq: 28 Sep 2020 15:38

Tgt Ion:	240	Resp:	404982
Ion	Ratio	Lower	Upper
240	100		
120	11.9	9.1	13.7
236	25.2	20.6	30.8



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: 96.275 ng

RT: 12.77 min Scan# 1817

Delta R.T. 0.02 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

Instrument :

BNA_F

ClientSampled :

11976

Tot Ion:202 Resp: 2848692

Ion Ratio Lower Upper

202 100

200 22.9 17.8 26.8

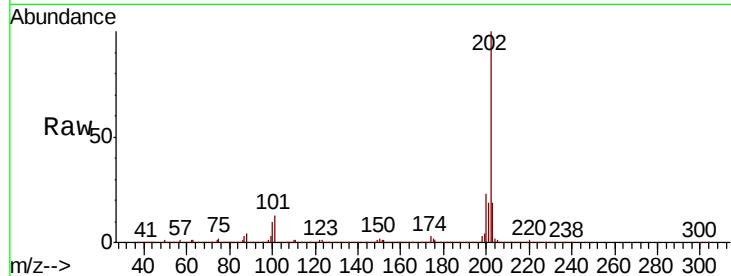
203 19.4 14.3 21.5

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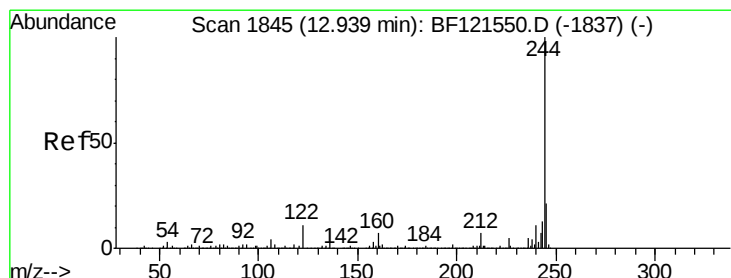
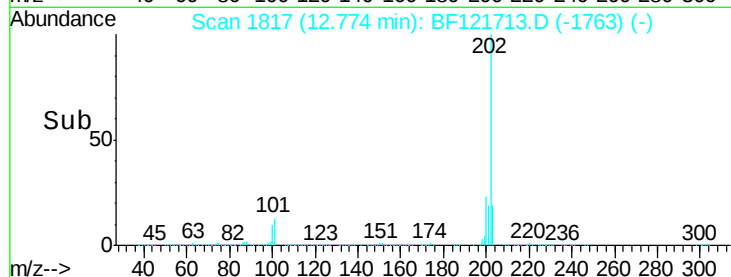
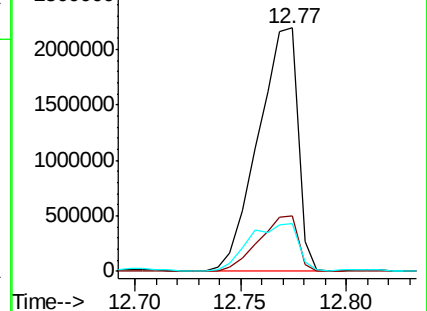
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 73.120 ng

RT: 12.90 min Scan# 1839

Delta R.T. 0.00 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

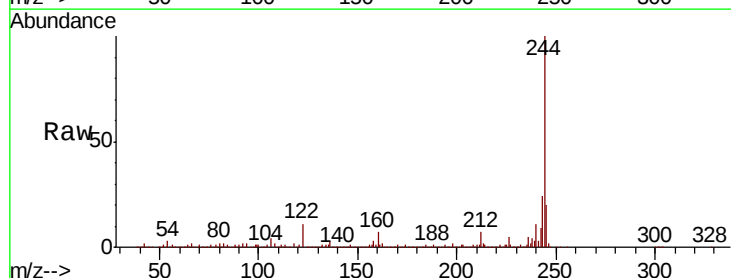
Tgt Ion:244 Resp: 1461692

Ion Ratio Lower Upper

244 100

212 7.1 5.6 8.4

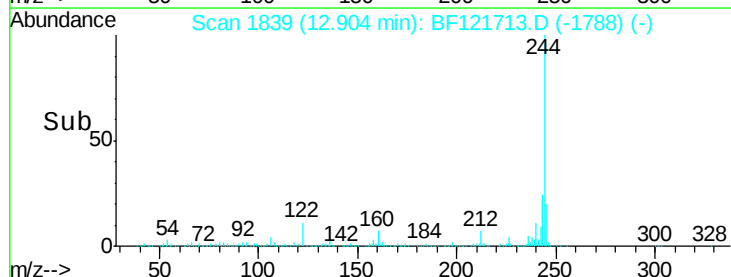
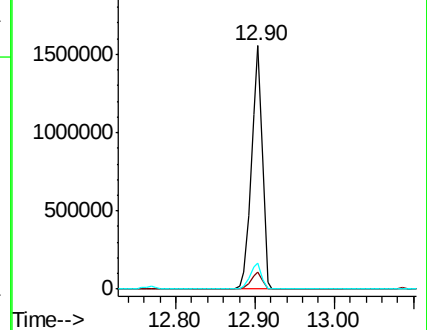
122 10.7 8.0 12.0

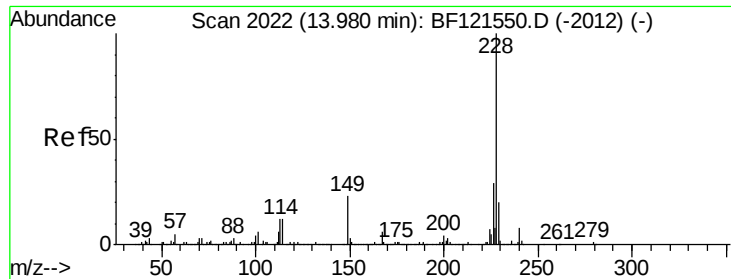


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





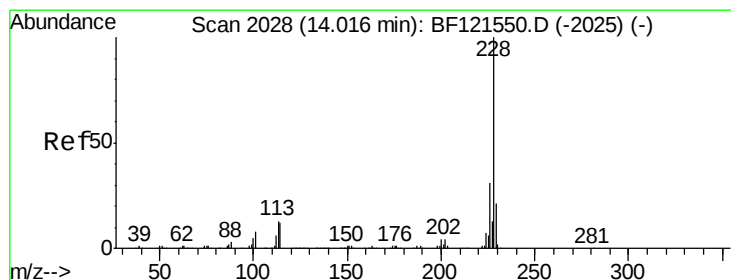
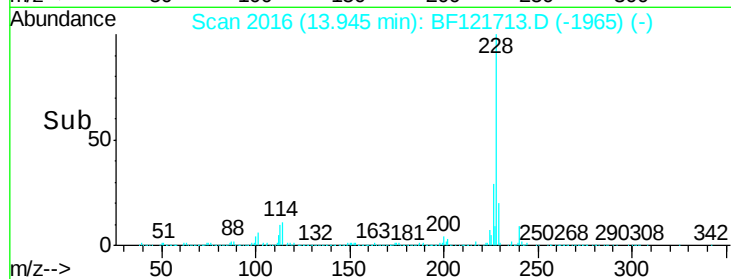
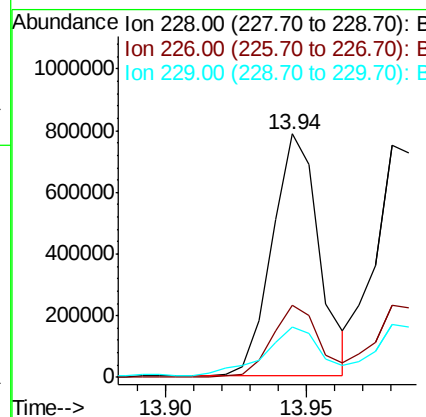
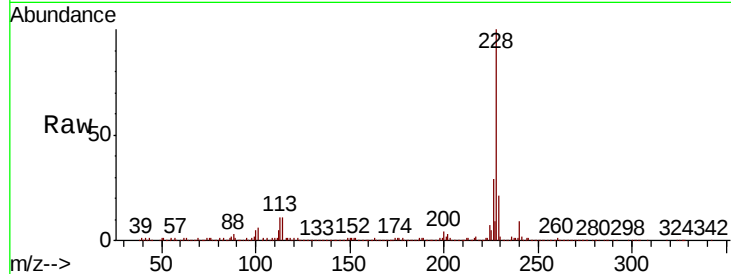
#81
Benzo(a)anthracene
Concen: 35.535 ng
RT: 13.94 min Scan# 2016
Delta R.T. 0.00 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.5	33.7
229	20.6	16.2	24.4

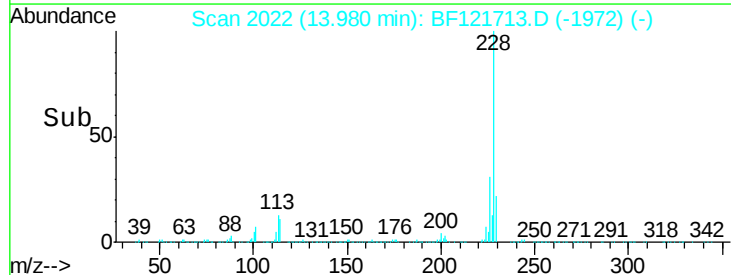
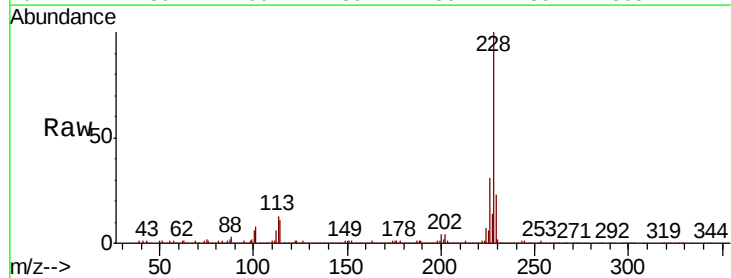
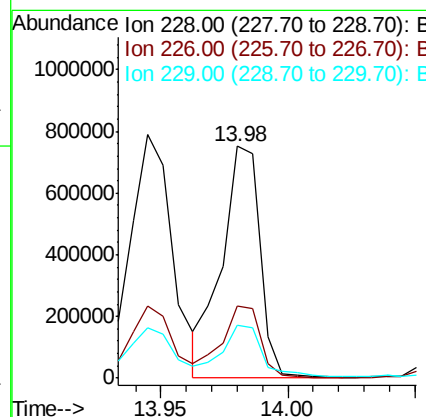
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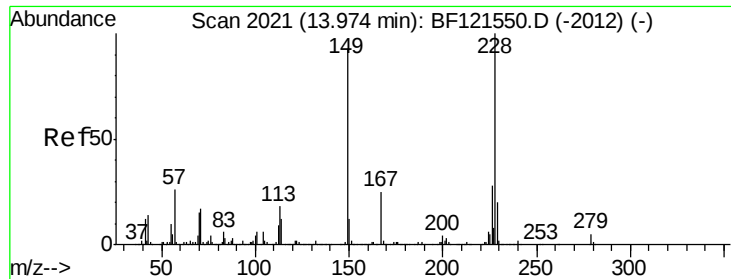
mohammad
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#83
Chrysene
Concen: 30.162 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.4
229	22.6	16.0	24.0





#84

Bis(2-ethylhexyl)phthalate

Concen: 4.260 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.00 min

Lab File: BF121713.D

Acq: 28 Sep 2020 15:38

Instrument :

BNA_F

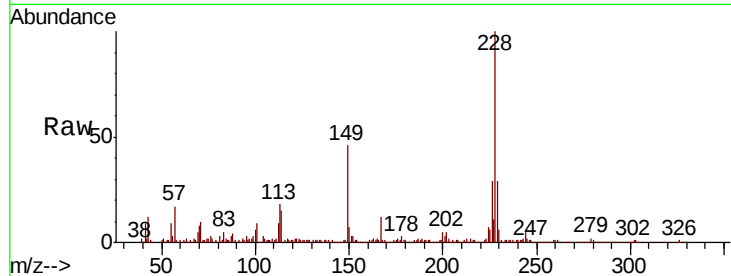
ClientSampleId :

11976

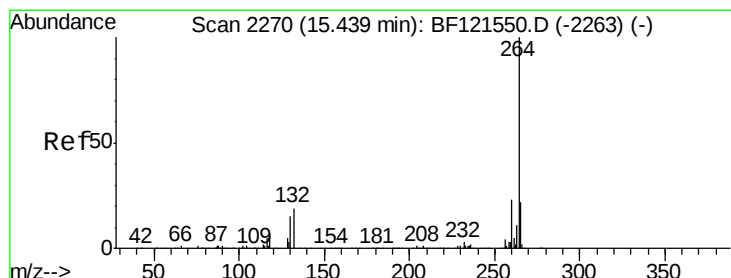
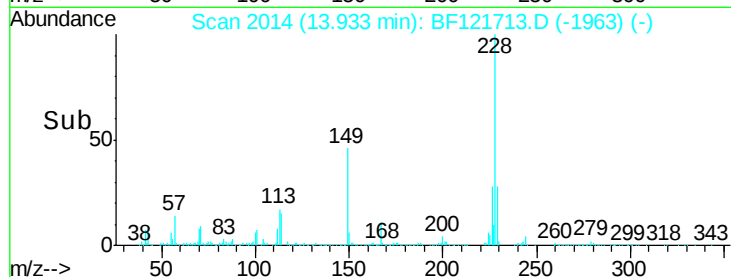
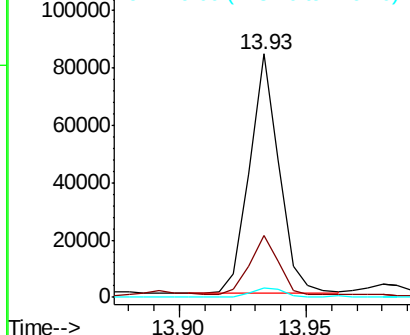
Tot Ion:	149	Resp:	68100
Ion Ratio	Lower	Upper	
149	100		
167	25.4	21.0	31.4
279	4.1	3.5	5.3

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#86

Perylene-d12

Concen: 20.000 ng

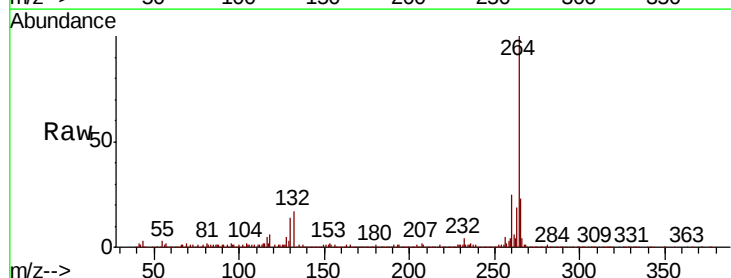
RT: 15.40 min Scan# 2264

Delta R.T. 0.01 min

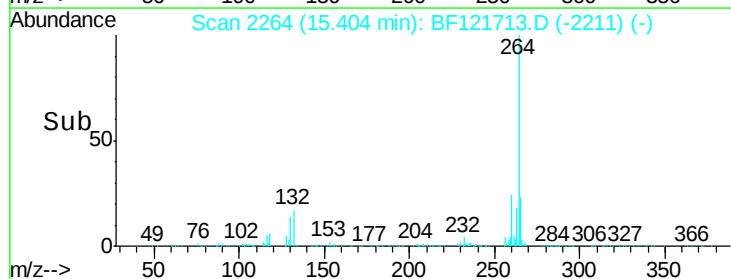
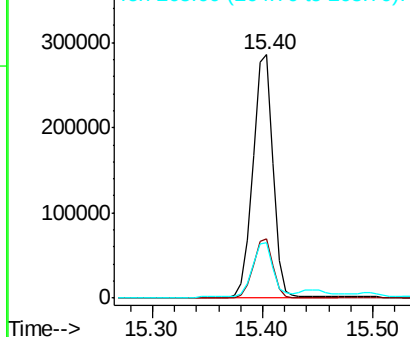
Lab File: BF121713.D

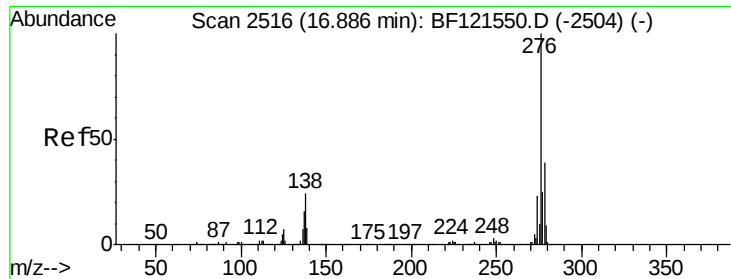
Acq: 28 Sep 2020 15:38

Tgt Ion:	264	Resp:	370841
Ion Ratio	Lower	Upper	
264	100		
260	24.6	18.4	27.6
265	22.8	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





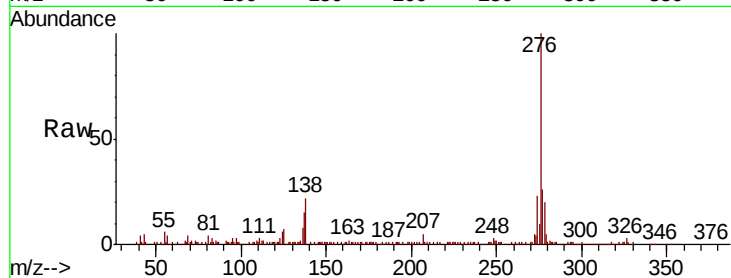
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 7.493 ng
 RT: 16.82 min Scan# 2504
 Delta R.T. -0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Instrument :
 BNA_F
 ClientSampleId :
 11976

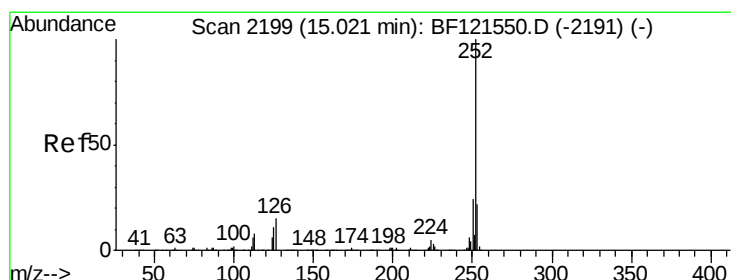
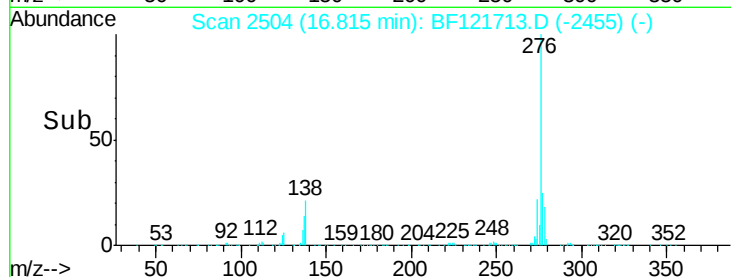
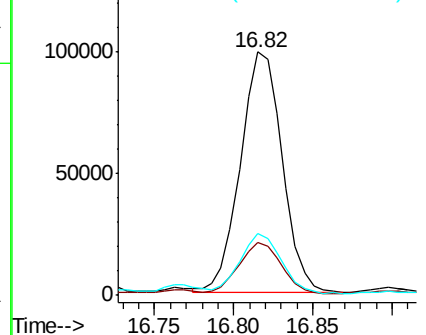
Tot Ion:	276	Resp:	180956
Ion Ratio	Lower	Upper	
276	100		
138	21.7	19.5	29.3
277	24.7	20.2	30.4

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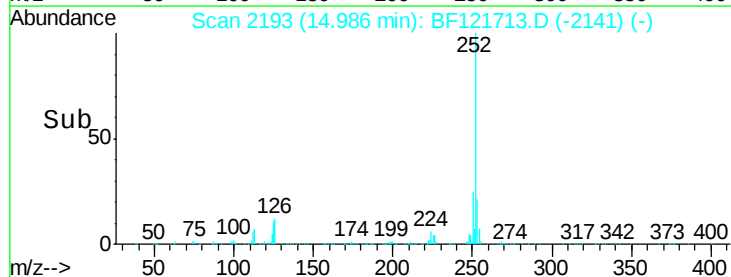
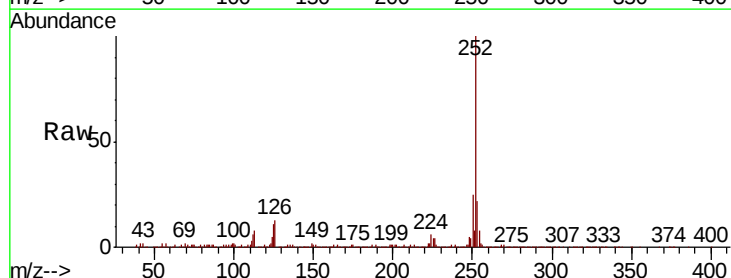
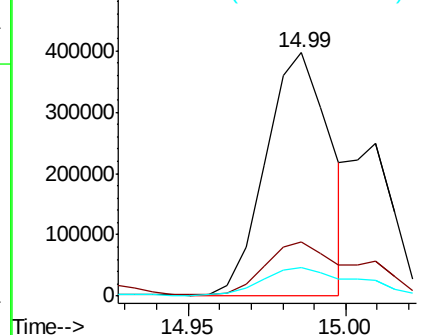
Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

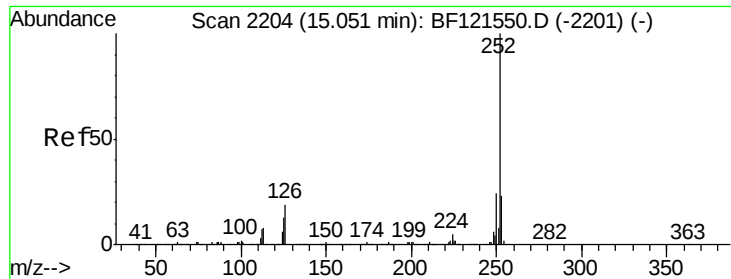


#88
 Benzo(b)fluoranthene
 Concen: 22.767 ng m
 RT: 14.99 min Scan# 2193
 Delta R.T. 0.01 min
 Lab File: BF121713.D
 Acq: 28 Sep 2020 15:38

Tgt Ion:	252	Resp:	564425
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.8	26.6
125	11.5	8.6	13.0

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





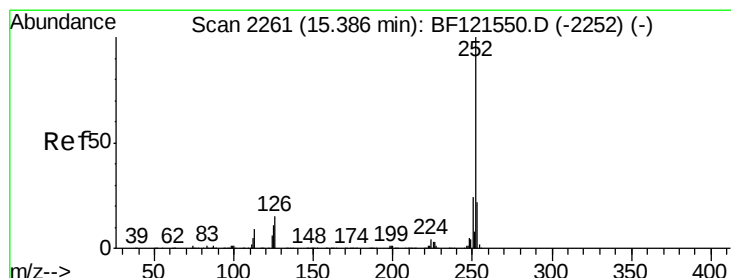
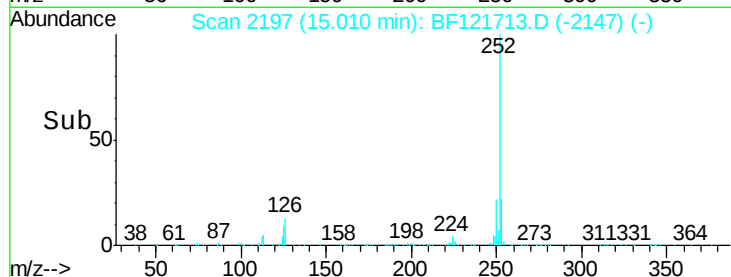
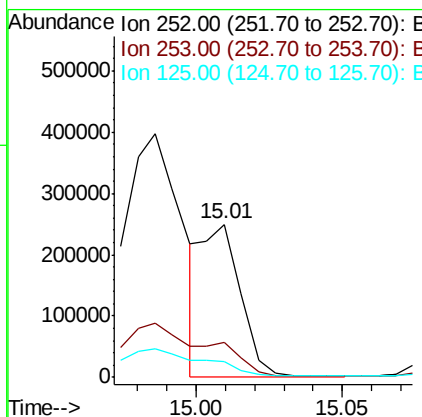
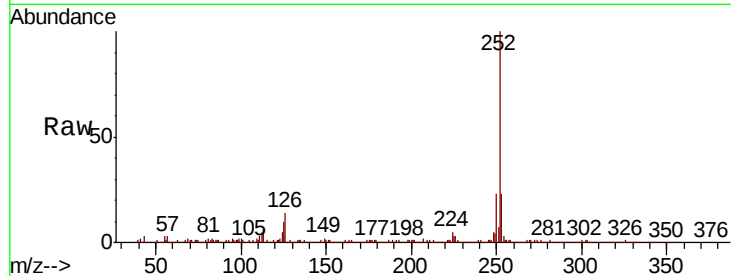
#89
Benzo(k)fluoranthene
Concen: 10.193 ng m
RT: 15.01 min Scan# 2197
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	10.1	7.1	10.7

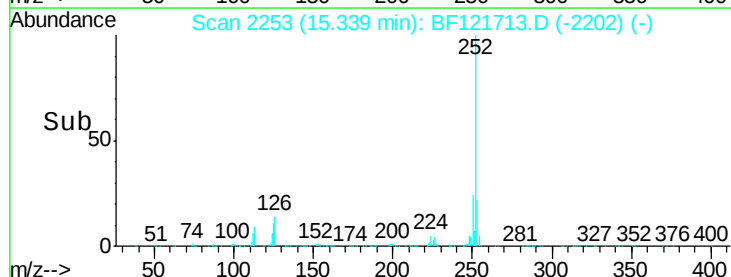
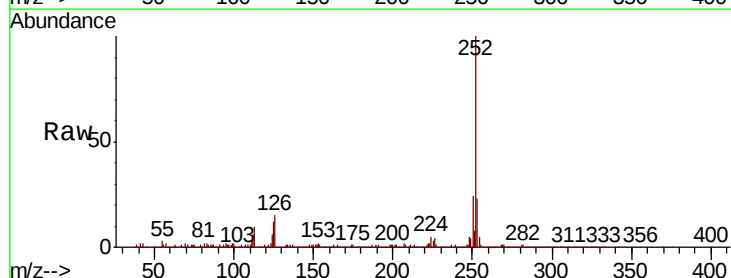
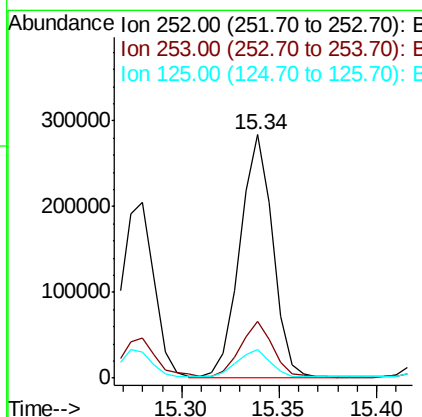
Manual Integrations
APPROVED

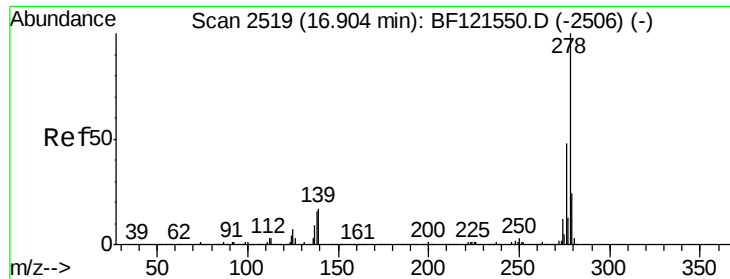
mohammad
9/29/2020 3:24:42 PM



#90
Benzo(a)pyrene
Concen: 15.643 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.00 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.2
125	11.6	9.2	13.8





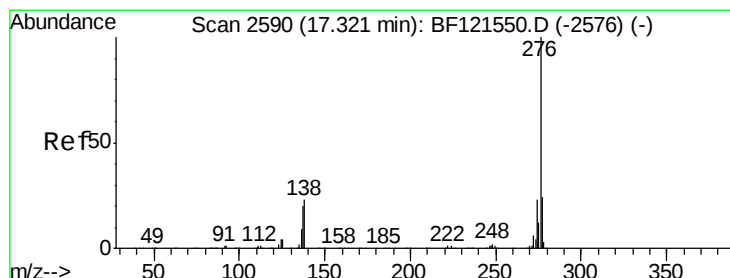
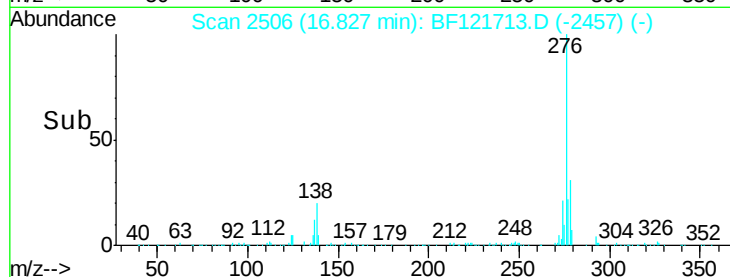
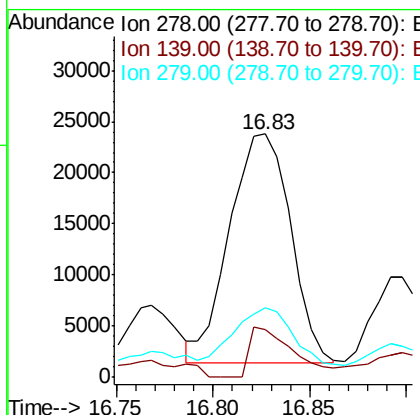
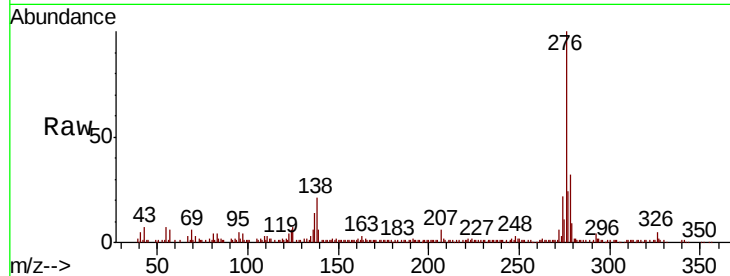
#91
Dibenzo(a,h)anthracene
Concen: 2.443 ng m
RT: 16.83 min Scan# 2506
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Instrument :
BNA_F
ClientSampleId :
11976

Tot Ion	Ion	Ratio	Lower	Upper
278	100			
139	19.5	13.0	19.4#	
279	28.5	19.3	28.9	

Manual Integrations
APPROVED

mohammad
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#92
Benzo(g,h,i)perylene
Concen: 8.140 ng
RT: 17.25 min Scan# 2578
Delta R.T. -0.01 min
Lab File: BF121713.D
Acq: 28 Sep 2020 15:38

Tgt Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.0	18.8	28.2	
138	23.3	16.6	25.0	

