

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
 Data File : BF121504.D
 Acq On : 1 Sep 2020 19:08
 Operator : JU/CG
 Sample : L3848-23
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 LINDEN-BH-01-C

Manual Integrations
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Quant Time: Sep 02 02:00:23 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 28 09:25:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	295521	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	1124868	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	561459	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	953150	20.00	ng	0.00
76) Chrysene-d12	14.03	240	567467	20.00	ng	0.00
86) Perylene-d12	15.52	264	705697	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1343386	76.27	ng	0.00
7) Phenol-d6	6.48	99	1762265	71.59	ng	-0.01
23) Nitrobenzene-d5	7.42	82	1135917	69.04	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	482569	85.09	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	2050321	58.92	ng	-0.01
79) Terphenyl-d14	12.97	244	1616434	59.96	ng	0.00
Target Compounds						
49) Acenaphthylene	9.76	152	238406	4.564	ng	96
50) Dimethylphthalate	9.61	163	194772	5.050	ng	98
52) Acenaphthene	9.93	154	140288	4.253	ng	98
55) Dibenzofuran	10.10	168	101678	2.122	ng	# 96
58) Fluorene	10.45	166	178734	4.949	ng	100
71) Phenanthrene	11.42	178	2674654	54.681	ng	99
72) Anthracene	11.46	178	784567	16.308	ng	96
73) Carbazole	11.61	167	194235	4.187	ng	98
75) Fluoranthene	12.61	202	4072268	77.248	ng	98
78) Pyrene	12.84	202	4164426	102.756	ng	98
81) Benzo(a)anthracene	14.03	228	2336810	67.458	ng	97
83) Chrysene	14.06	228	2134368	61.585	ng	98
87) Indeno(1,2,3-cd)pyrene	17.00	276	1367116	31.486	ng	98
88) Benzo(b)fluoranthene	15.09	252	2731363m	59.500	ng	
89) Benzo(k)fluoranthene	15.11	252	814793m	19.083	ng	
90) Benzo(a)pyrene	15.46	252	2167180	52.502	ng	96
91) Dibenzo(a,h)anthracene	17.00	278	361370	10.167	ng	92
92) Benzo(g,h,i)perylene	17.44	276	1253125	36.600	ng	97

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

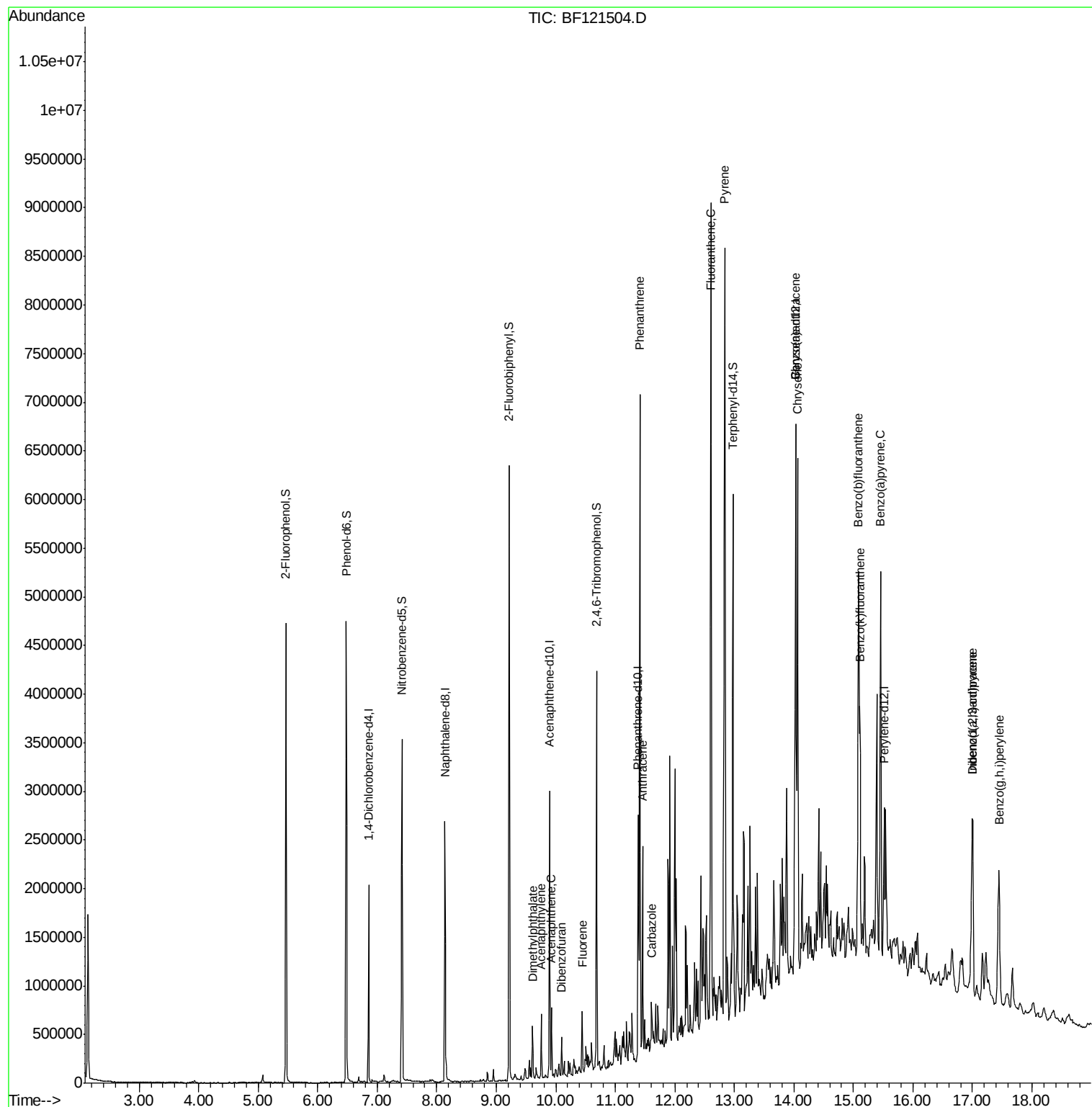
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
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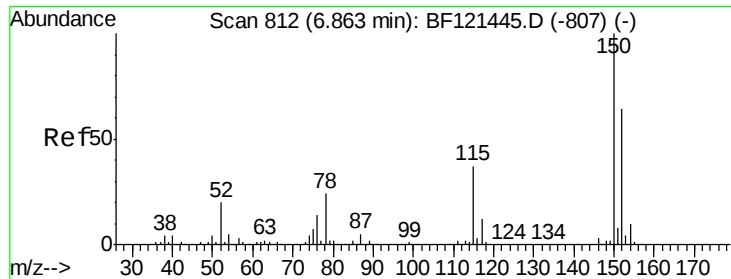
Instrument :
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ClientSampleId :
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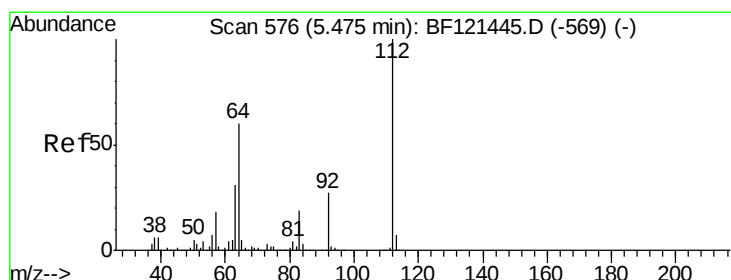
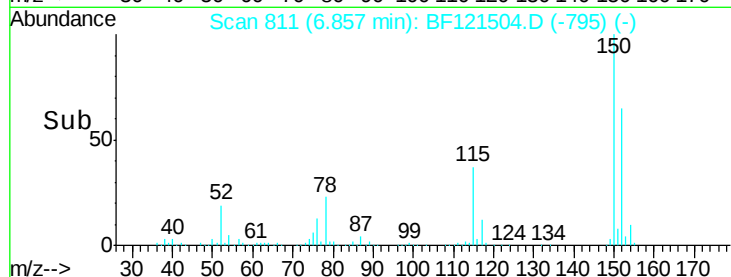
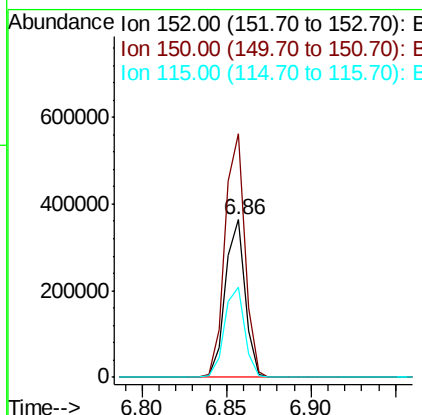
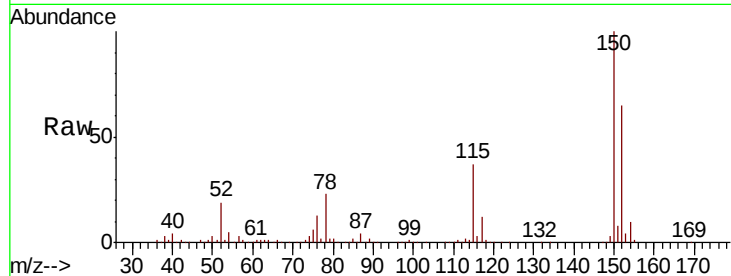
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.86 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	125.8	188.6
115	56.8	46.6	69.8

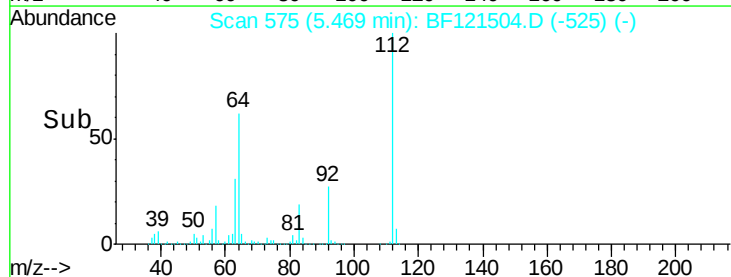
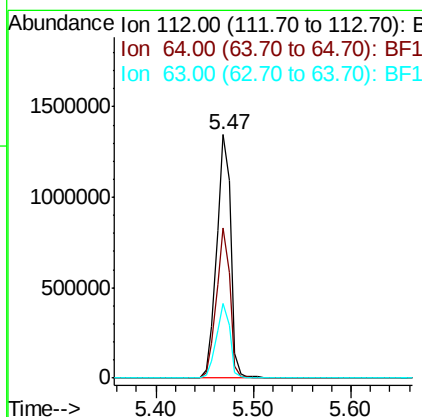
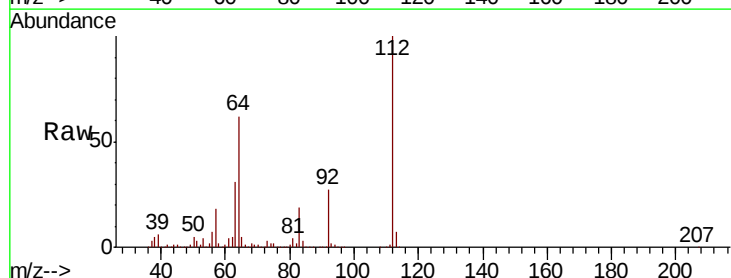
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#5
 2-Fluorophenol
 Concen: 76.267 ng
 RT: 5.47 min Scan# 575
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.6	48.2	72.2
63	30.9	24.8	37.2





#7

Phenol-d6

Concen: 71.592 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF121504.D

Acq: 1 Sep 2020 19:08

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-C

Tot Ion: 99 Resp: 1762265

Ion Ratio Lower Upper

99 100

42 17.1 13.5 20.3

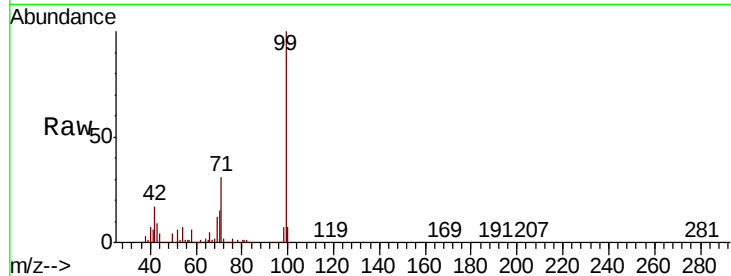
71 31.4 24.6 37.0

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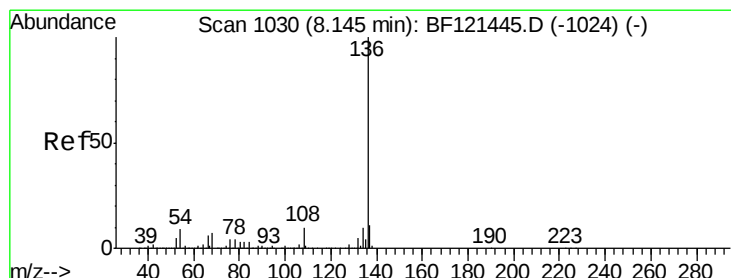
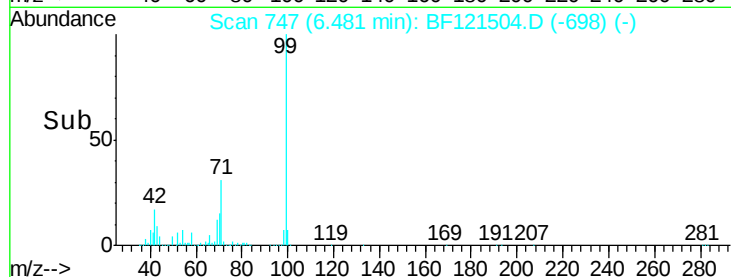
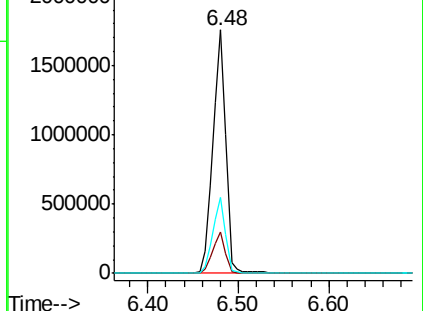
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF121504.D

Acq: 1 Sep 2020 19:08

Tgt Ion: 136 Resp: 1124868

Ion Ratio Lower Upper

136 100

137 11.2 9.1 13.7

54 8.3 7.0 10.4

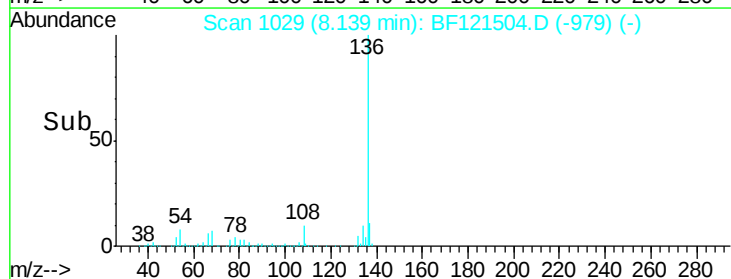
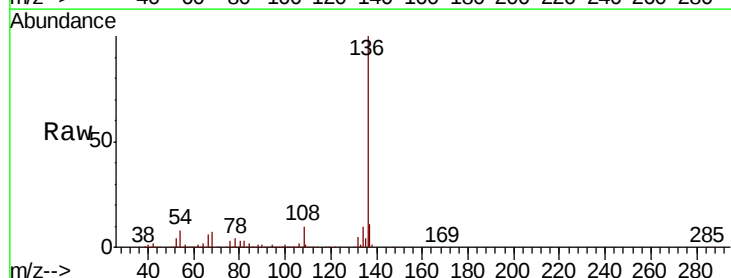
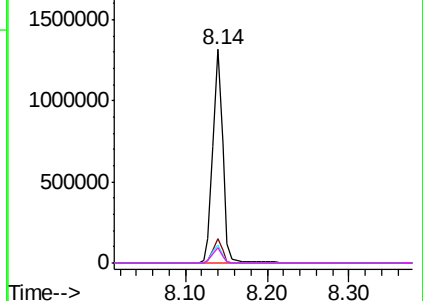
68 7.1 5.5 8.3

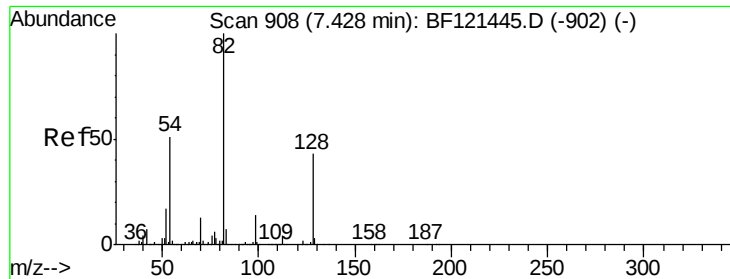
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





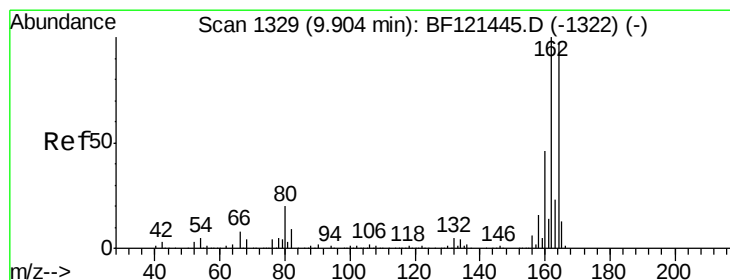
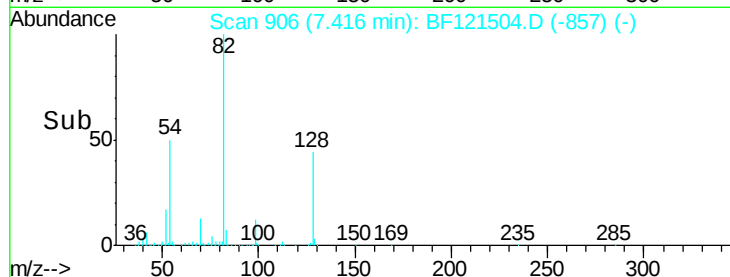
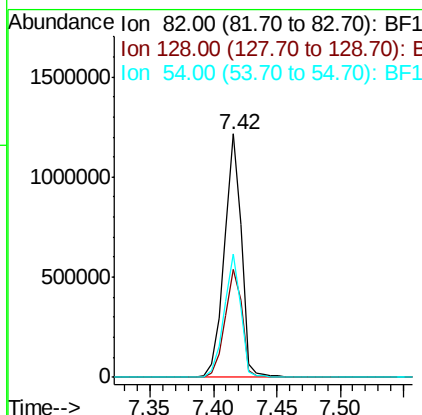
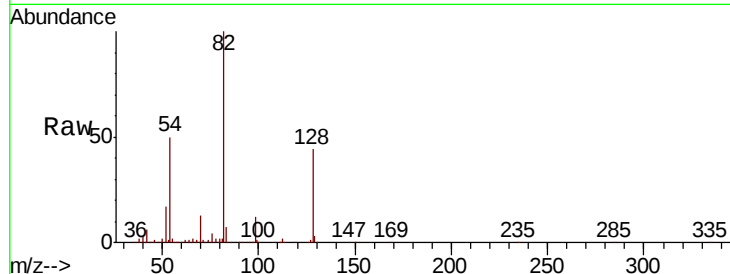
#23
 Nitrobenzene-d5
 Concen: 69.037 ng
 RT: 7.42 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	82	Resp	1135917
Ion Ratio	100	Lower	Upper
82	100		
128	44.3	34.1	51.1
54	50.4	41.0	61.6

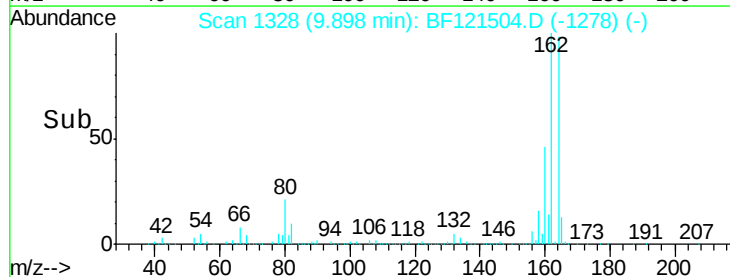
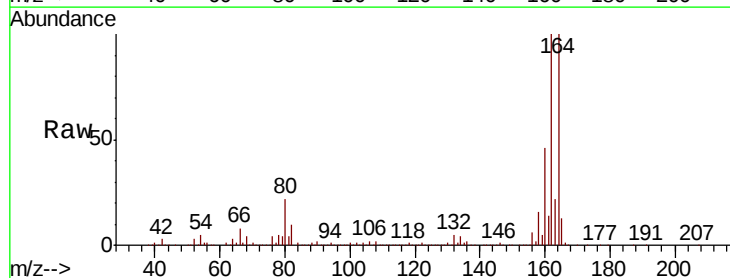
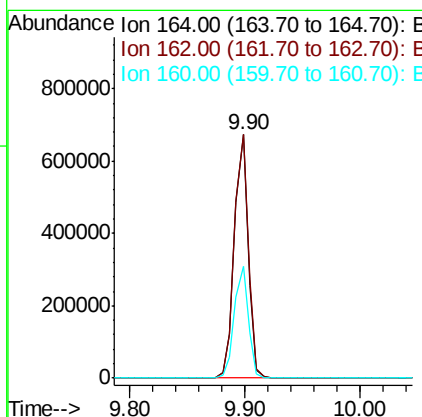
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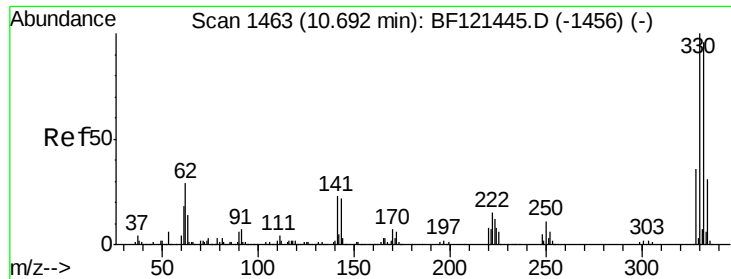
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#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	164	Resp	561459
Ion Ratio	100	Lower	Upper
164	100		
162	100.1	82.4	123.6
160	46.1	37.6	56.4





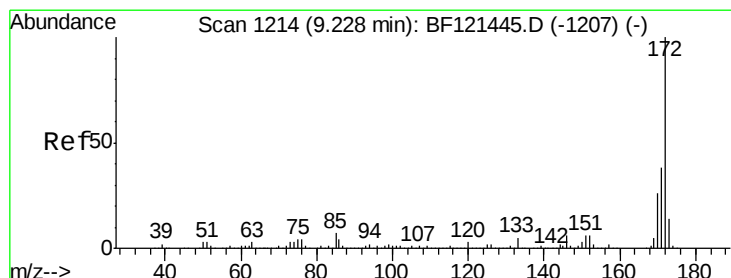
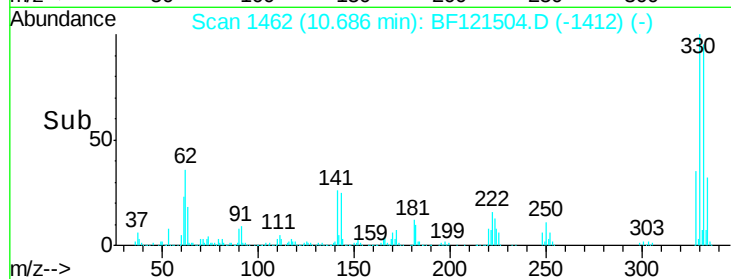
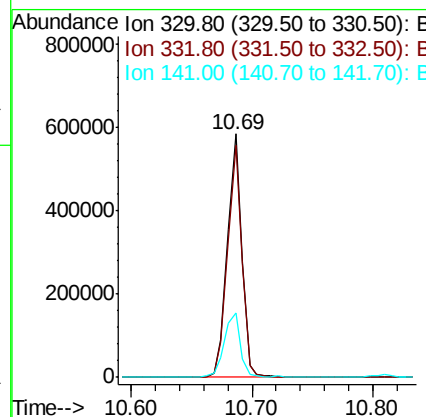
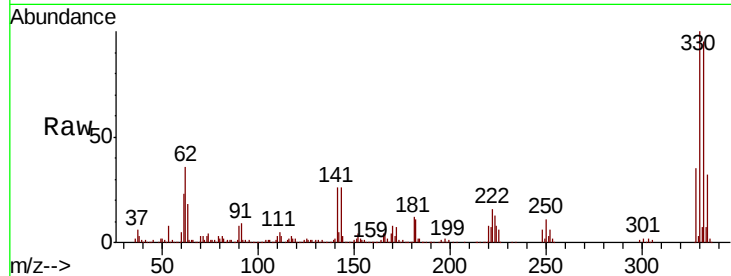
#42
 2,4,6-Tribromophenol
 Concen: 85.094 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.2	114.2
141	29.1	24.6	36.8

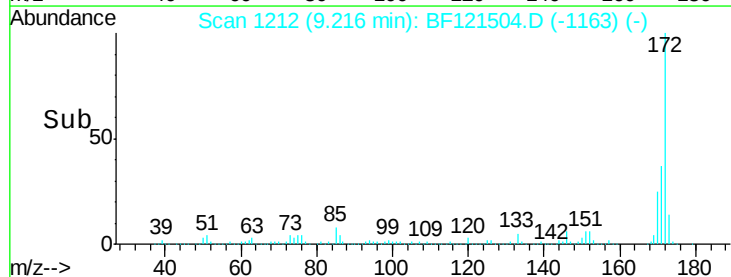
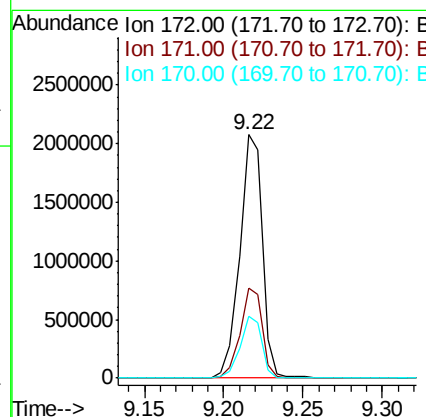
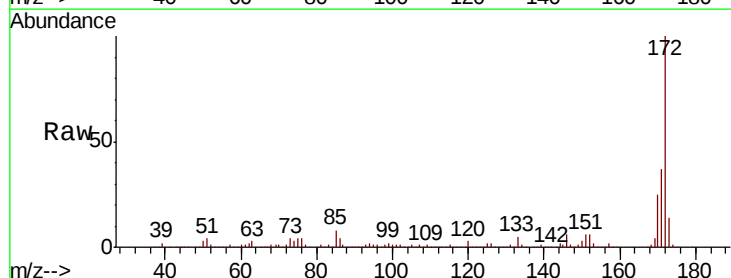
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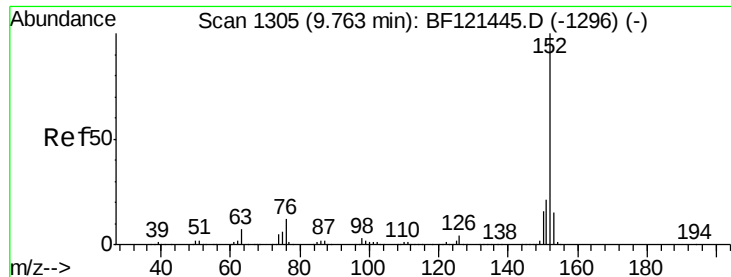
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#45
 2-Fluorobiphenyl
 Concen: 58.922 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	30.6	45.8
170	25.2	20.6	31.0





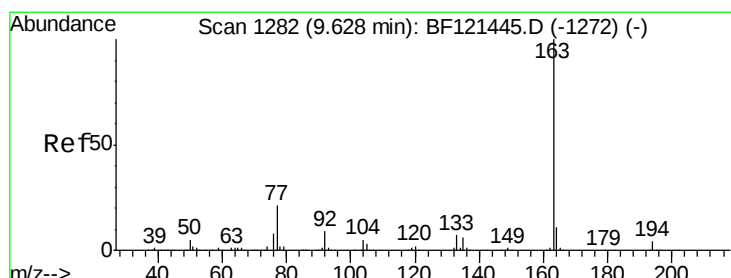
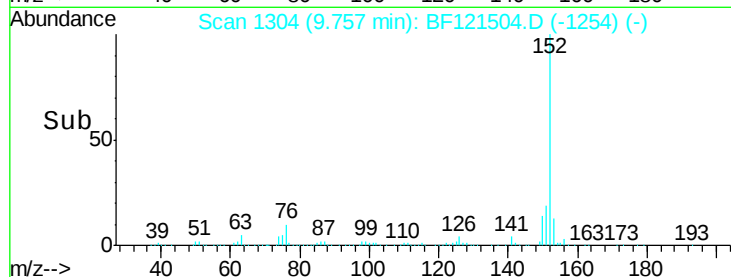
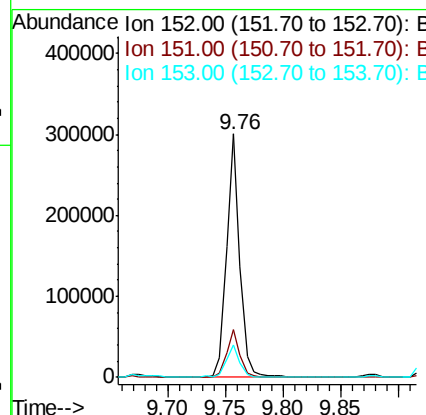
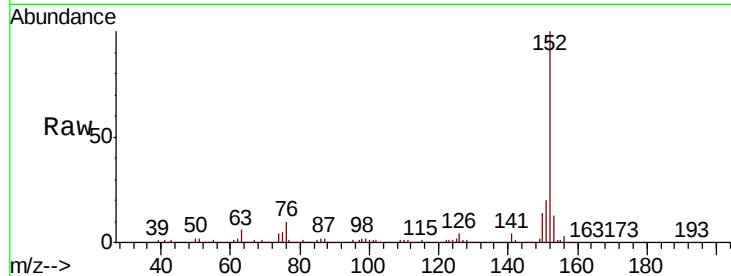
#49
Acenaphthylene
Concen: 4.564 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-C

Tot Ion	Ratio	Resp	Lower	Upper
152	100	238406		
151	19.6		17.2	25.8
153	13.4		11.6	17.4

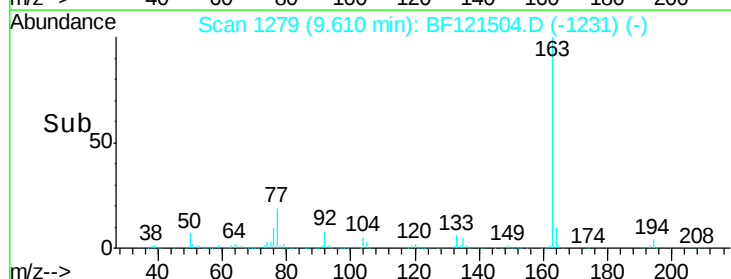
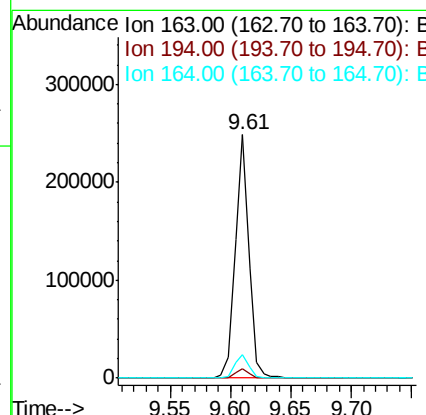
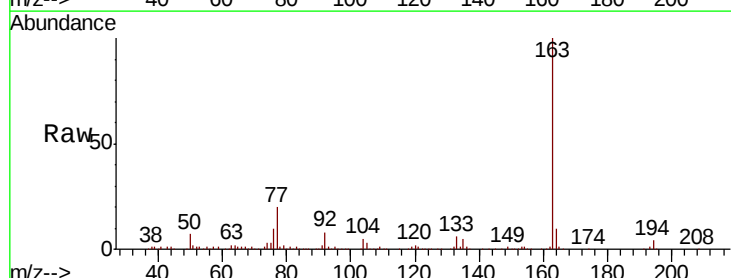
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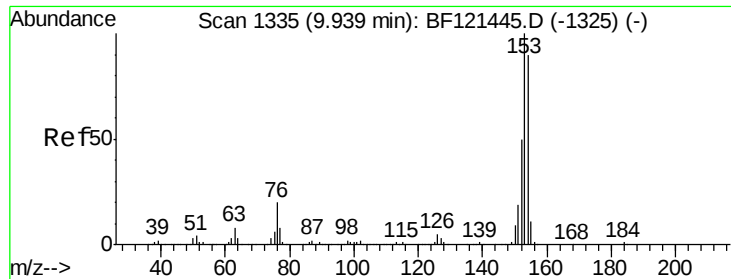
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#50
Dimethylphthalate
Concen: 5.050 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	194772		
194	4.1		3.3	4.9
164	9.8		8.6	12.8





#52

Acenaphthene

Concen: 4.253 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF121504.D

Acq: 1 Sep 2020 19:08

Instrument :

BNA_F

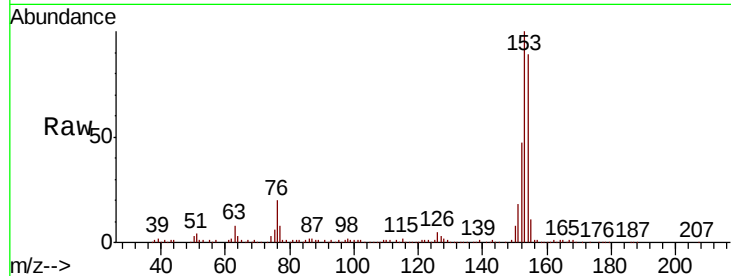
ClientSampleId :

LINDEN-BH-01-C

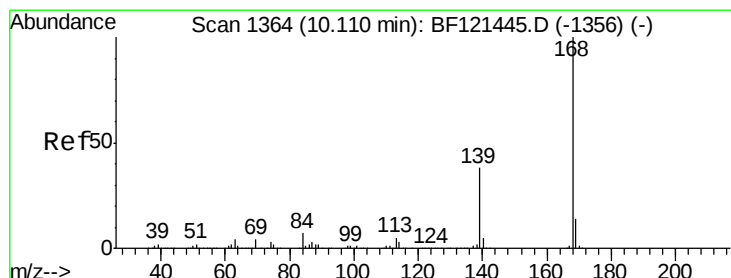
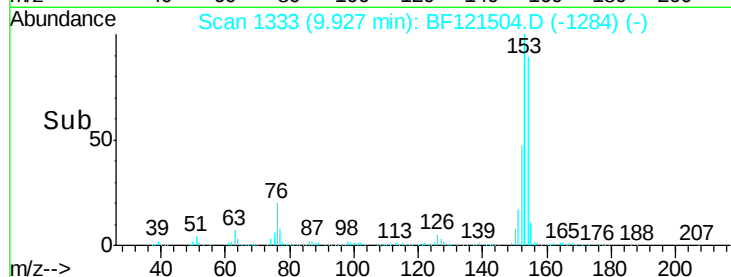
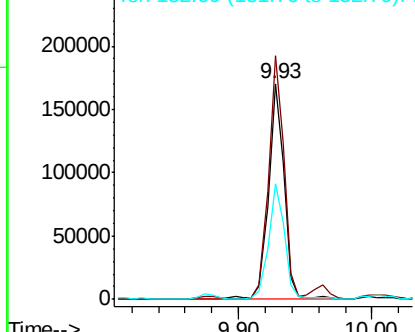
Tot Ion:	154	Resp:	140288
Ion Ratio	Lower	Upper	
154	100		
153	112.8	88.9	133.3
152	53.5	44.1	66.1

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 2.122 ng

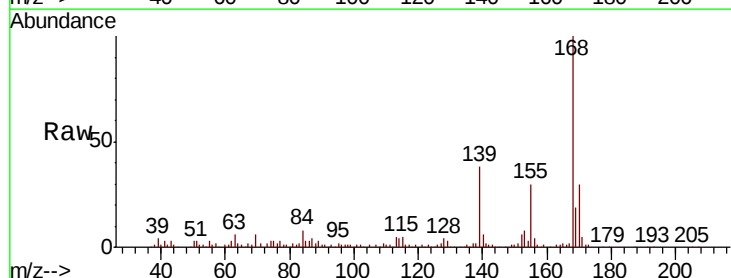
RT: 10.10 min Scan# 1362

Delta R.T. -0.01 min

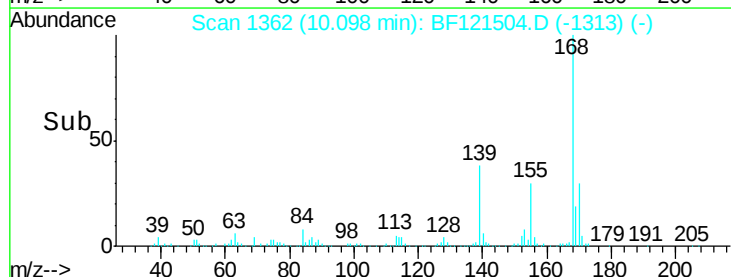
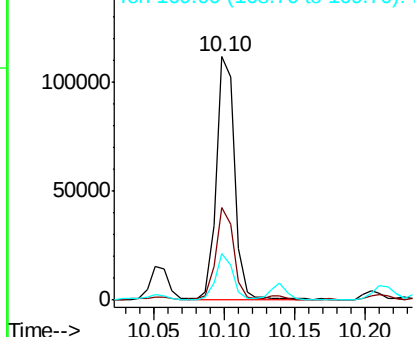
Lab File: BF121504.D

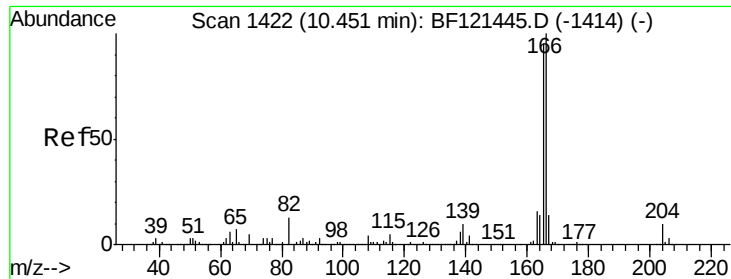
Acq: 1 Sep 2020 19:08

Tgt Ion:	168	Resp:	101678
Ion Ratio	Lower	Upper	
168	100		
139	38.0	30.1	45.1
169	18.8	11.2	16.8#



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





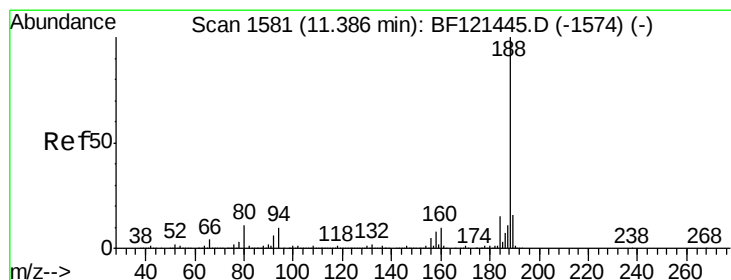
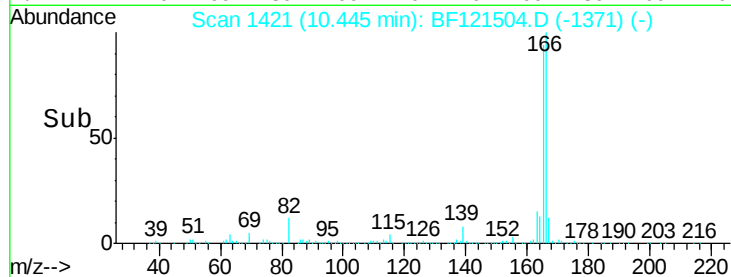
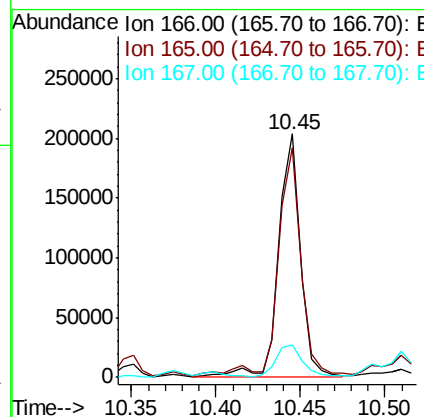
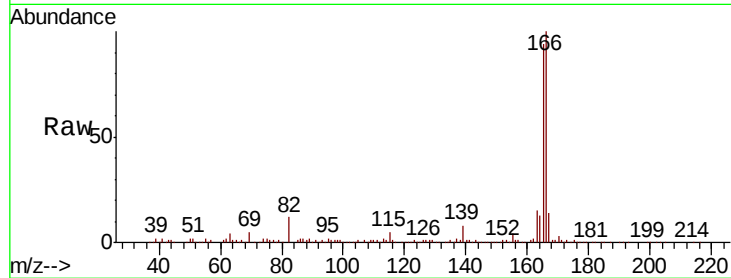
#58
 Fluorene
 Concen: 4.949 ng
 RT: 10.45 min Scan# 1421
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		178734		
165	94.4	75.7	113.5		
167	13.6	11.1	16.7		

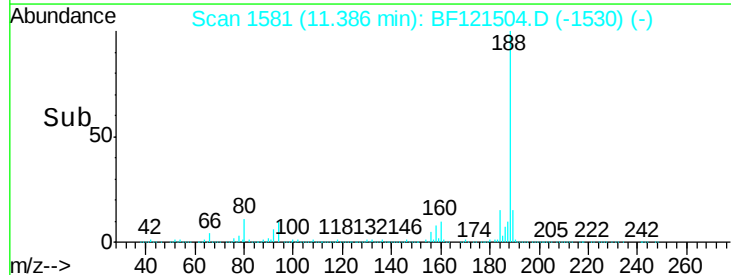
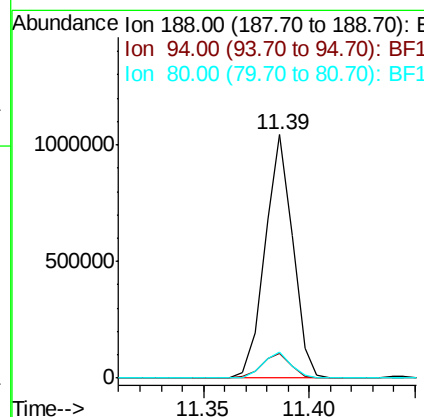
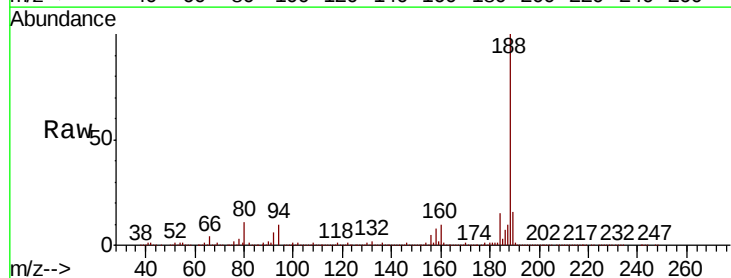
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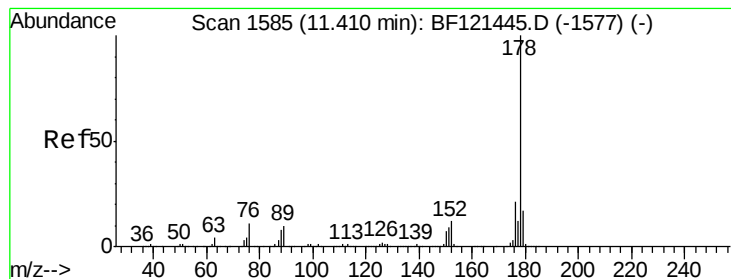
mohammad
 9/2/2020 1:57:23 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		953150		
94	10.3	8.3	12.5		
80	10.7	8.6	13.0		





#71

Phenanthrene

Concen: 54.681 ng

RT: 11.42 min Scan# 1586

Delta R.T. 0.01 min

Lab File: BF121504.D

Acq: 1 Sep 2020 19:08

Instrument :

BNA_F

ClientSampleId :

LINDEN-BH-01-C

Tot Ion:178 Resp: 2674654

Ion Ratio Lower Upper

178 100

176 21.4 16.9 25.3

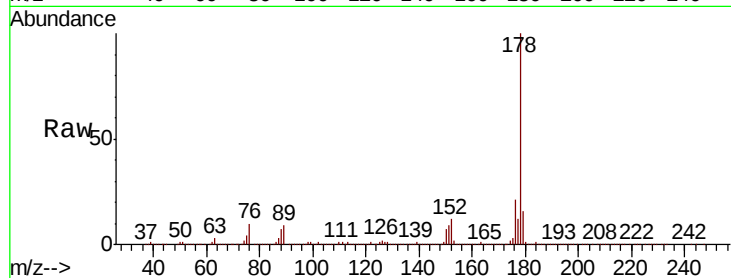
179 16.5 13.4 20.0

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mohammad

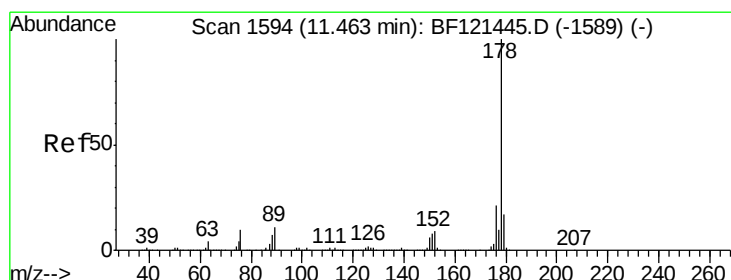
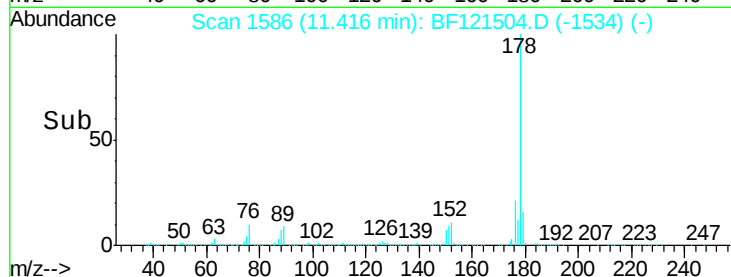
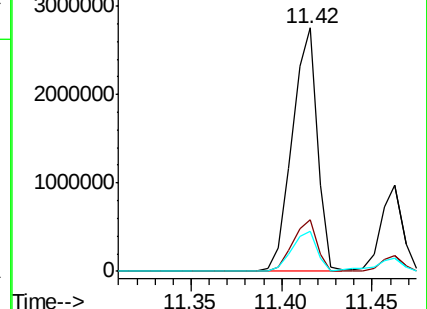
9/2/2020 1:57:23 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 16.308 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF121504.D

Acq: 1 Sep 2020 19:08

Tgt Ion:178 Resp: 784567

Ion Ratio Lower Upper

178 100

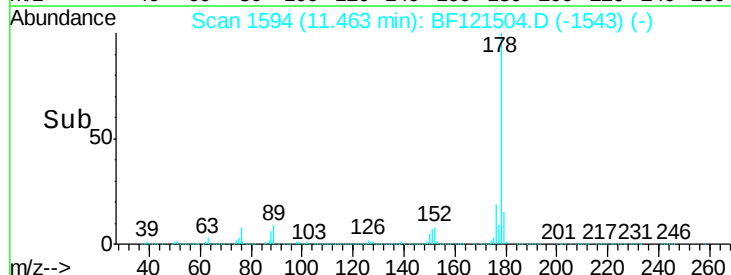
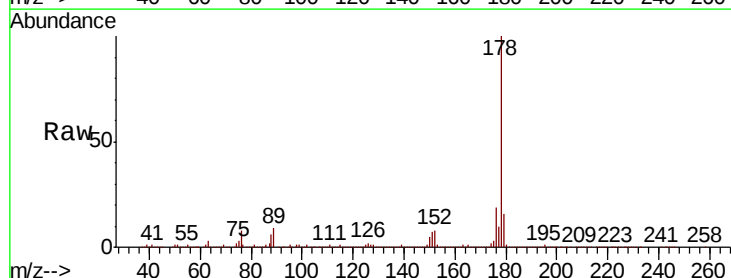
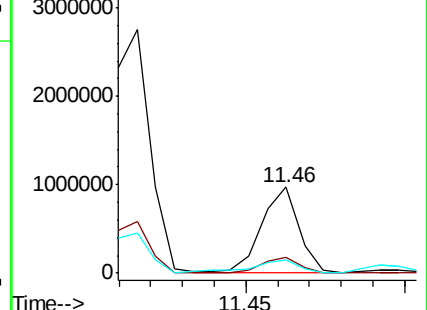
176 18.7 16.7 25.1

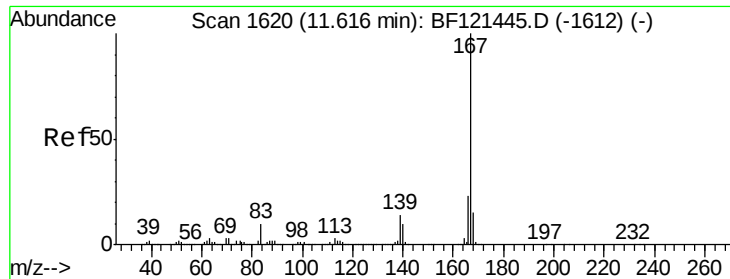
179 15.7 13.4 20.2

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





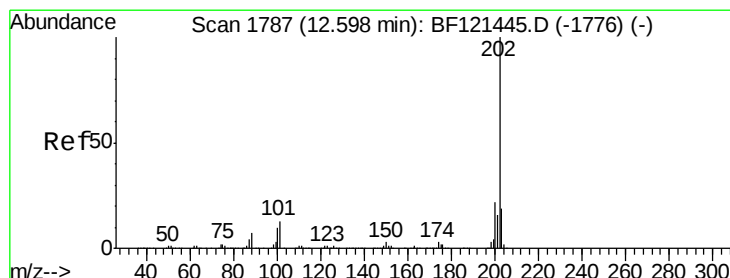
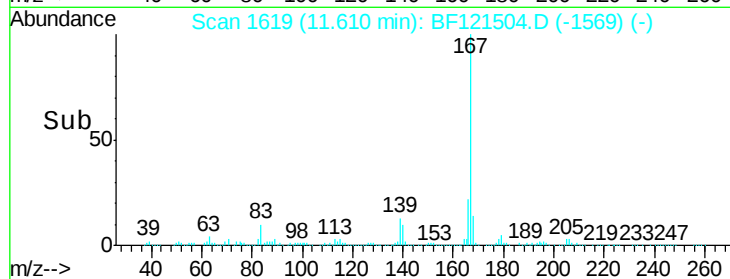
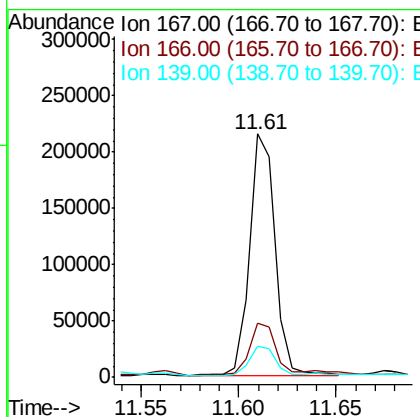
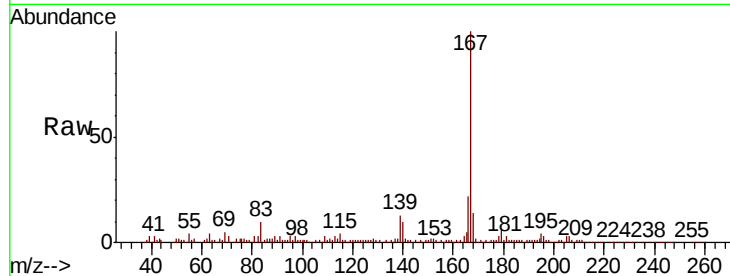
#73
 Carbazole
 Concen: 4.187 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. -0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100				
166	22.3		18.4	27.6	
139	13.1		11.0	16.6	

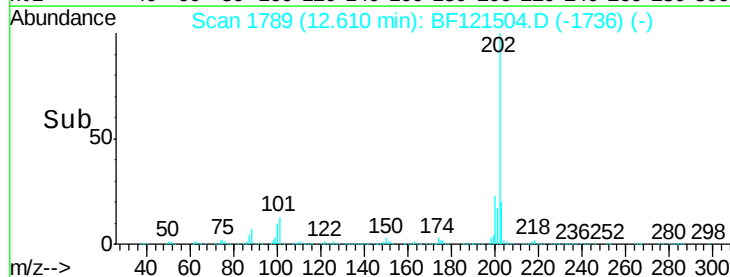
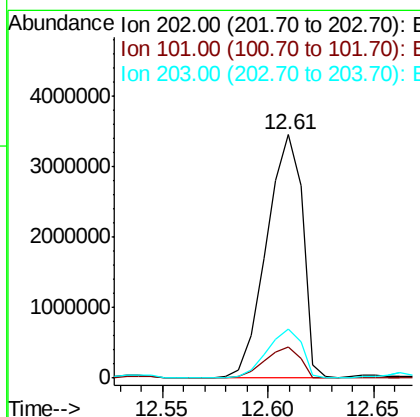
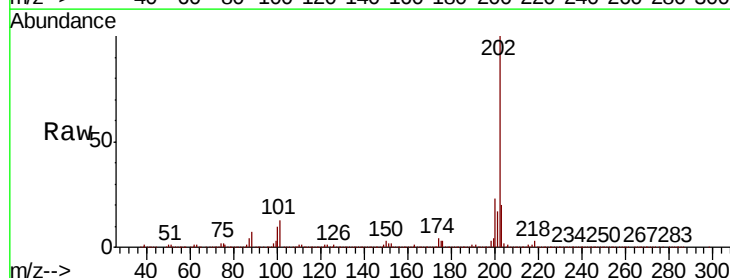
Manual Integrations
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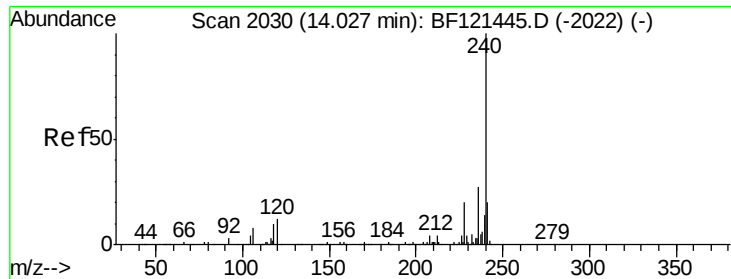
mohammad
 9/2/2020 1:57:23 PM



#75
 Fluoranthene
 Concen: 77.248 ng
 RT: 12.61 min Scan# 1789
 Delta R.T. 0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	12.9		0.0	33.3	
203	20.3		0.0	39.1	





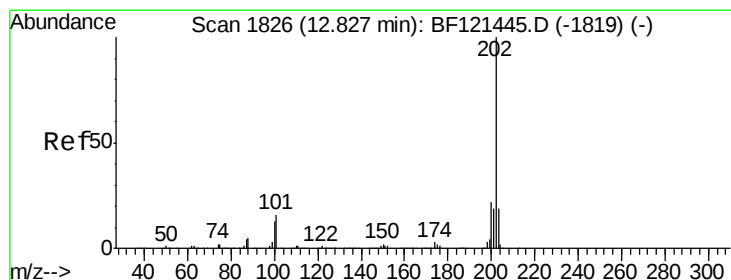
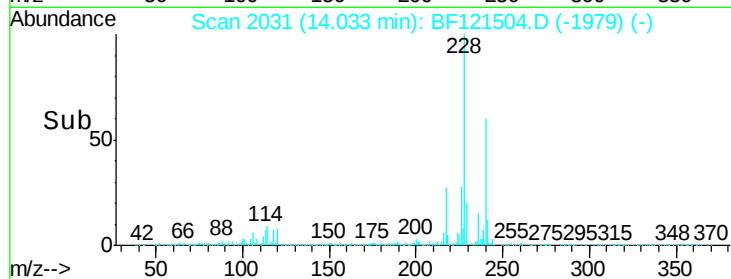
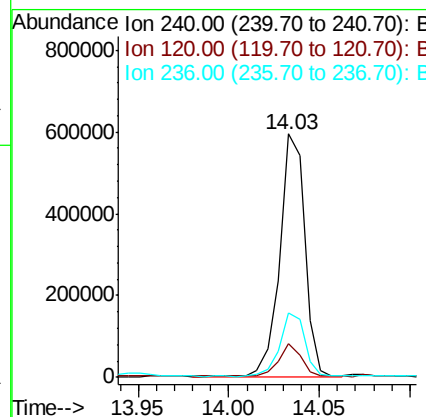
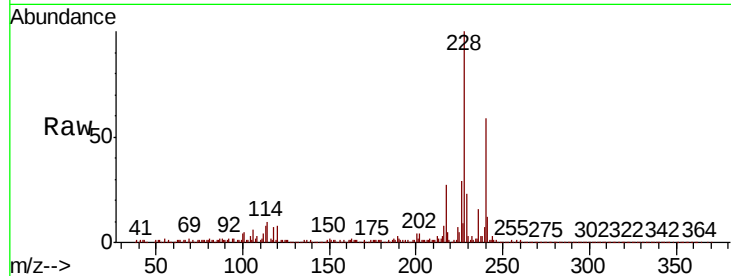
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. 0.01 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	9.5	14.3
236	26.2	21.8	32.6

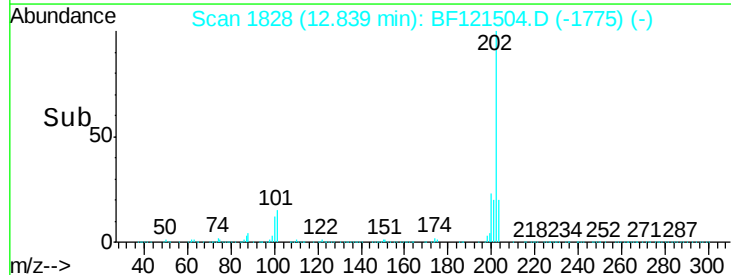
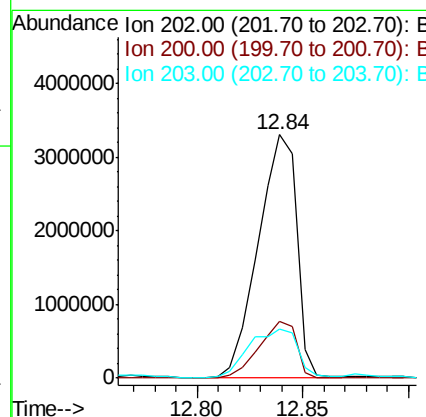
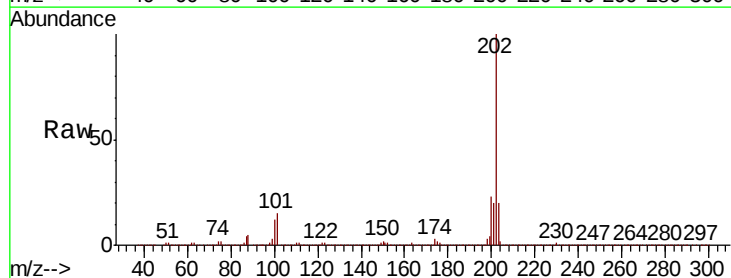
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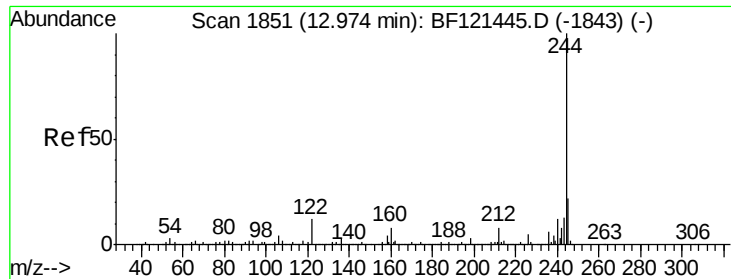
mohammad
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#78
Pyrene
Concen: 102.756 ng
RT: 12.84 min Scan# 1828
Delta R.T. 0.01 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.1	18.0	27.0
203	20.3	15.3	22.9





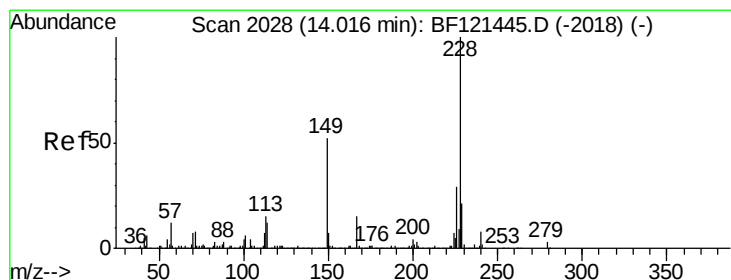
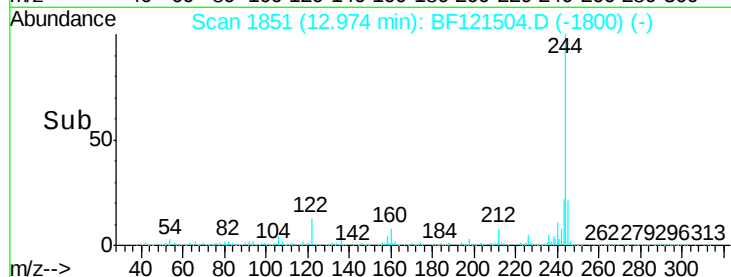
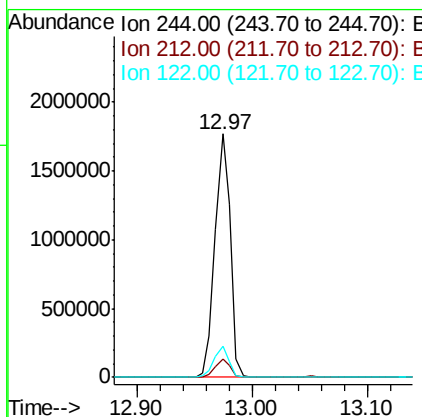
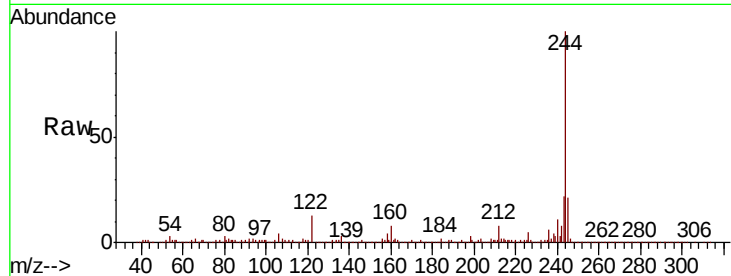
#79
 Terphenyl-d14
 Concen: 59.960 ng
 RT: 12.97 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion:244 Resp: 1616434
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.3 9.5
 122 12.7 9.5 14.3

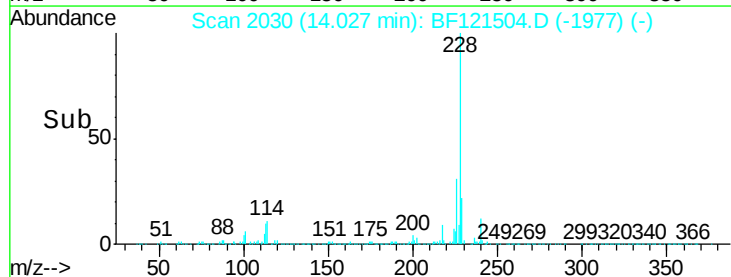
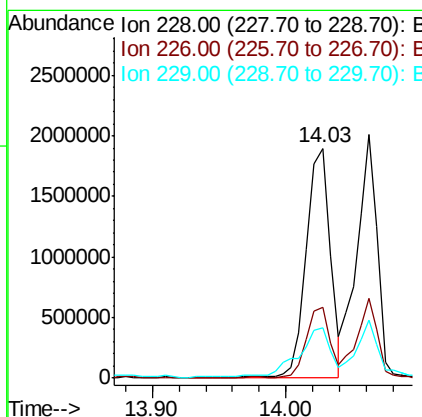
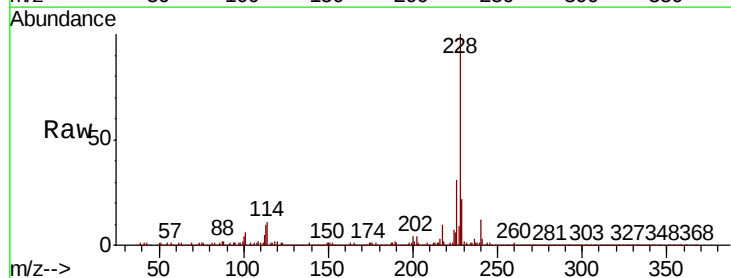
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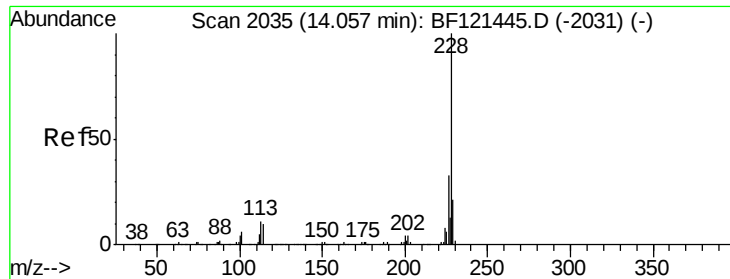
mohammad
 9/2/2020 1:57:23 PM



#81
 Benzo(a)anthracene
 Concen: 67.458 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. 0.01 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion:228 Resp: 2336810
 Ion Ratio Lower Upper
 228 100
 226 30.7 23.0 34.4
 229 22.1 16.6 24.8





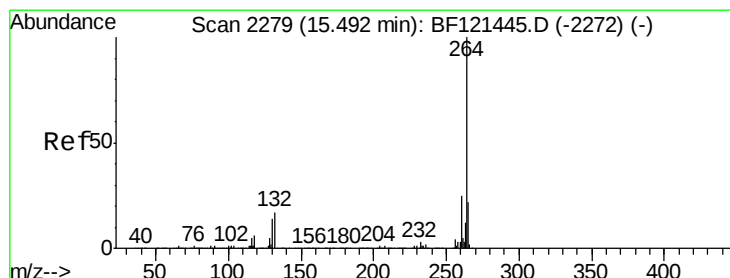
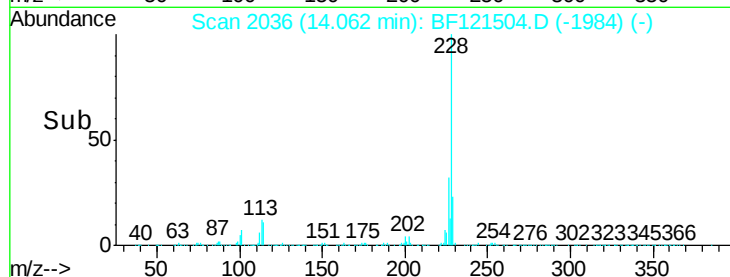
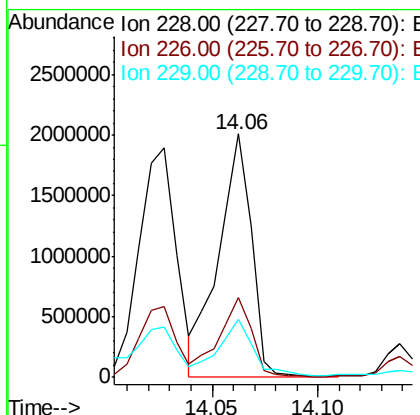
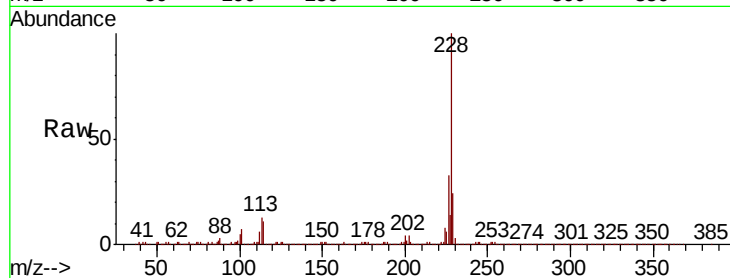
#83
Chrysene
Concen: 61.585 ng
RT: 14.06 min Scan# 2036
Delta R.T. 0.01 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.6	26.2	39.2
229	23.6	16.6	25.0

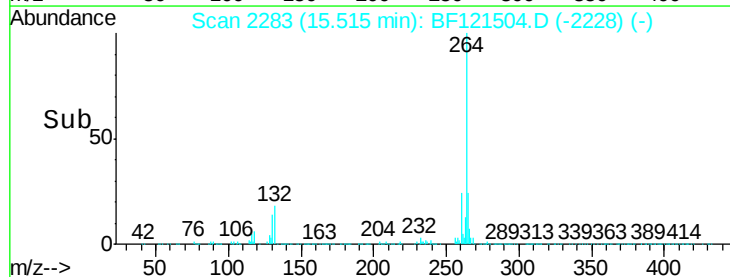
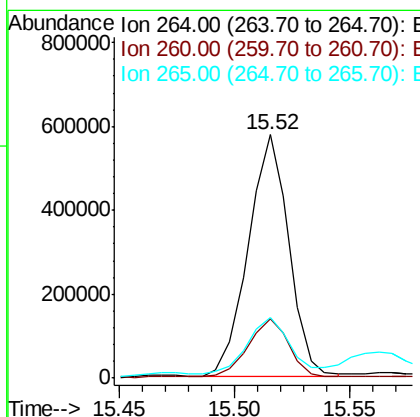
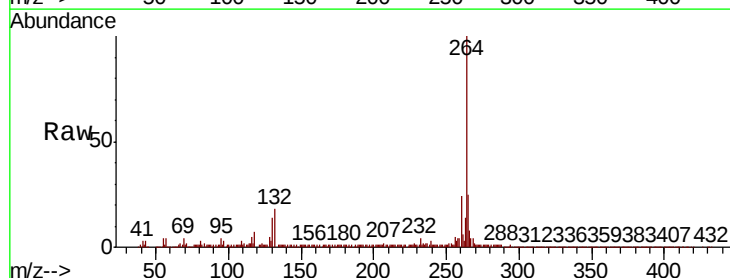
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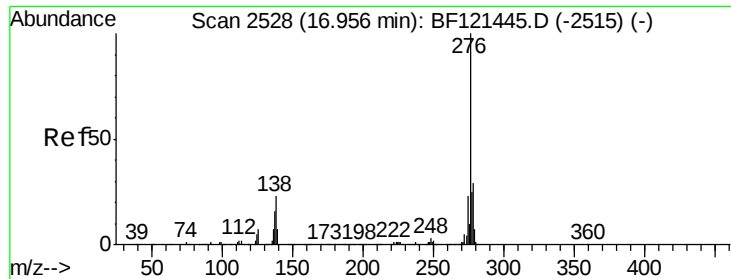
mohammad
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.52 min Scan# 2283
Delta R.T. 0.02 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.6	29.4
265	25.0	17.8	26.6





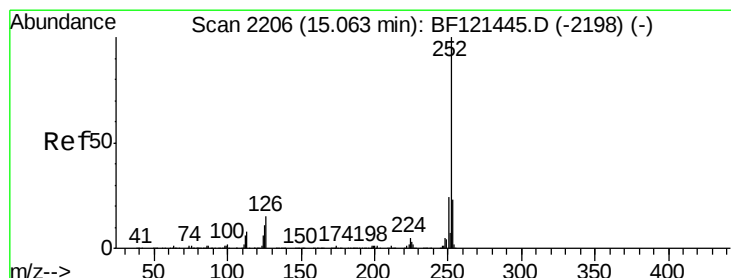
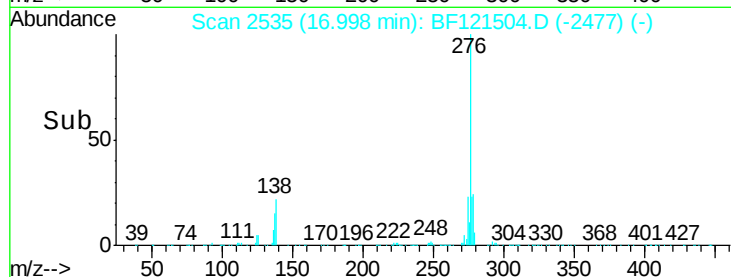
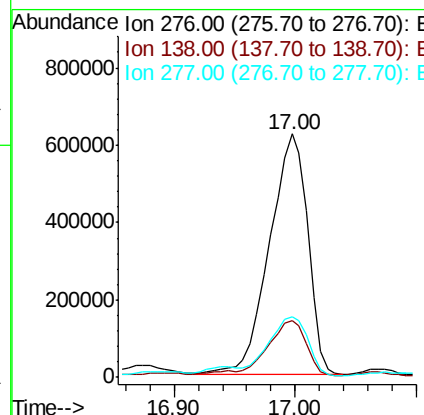
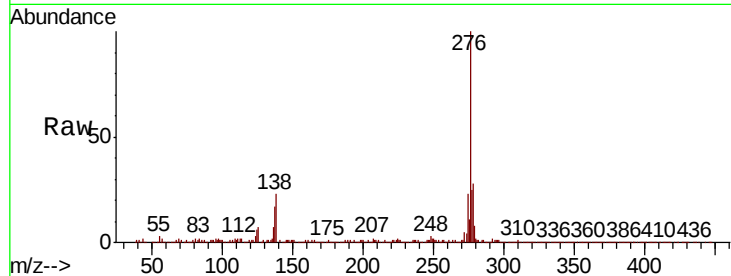
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 31.486 ng
 RT: 17.00 min Scan# 2535
 Delta R.T. 0.04 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
276	100		
138	23.6	20.6	31.0
277	25.3	20.5	30.7

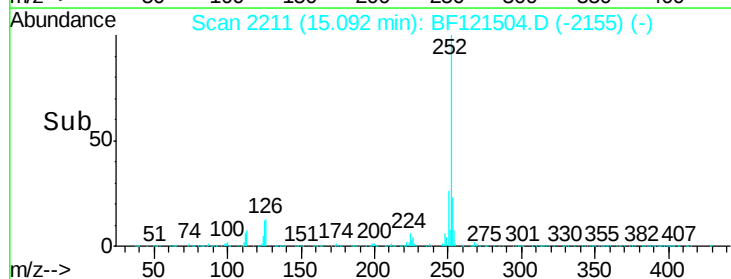
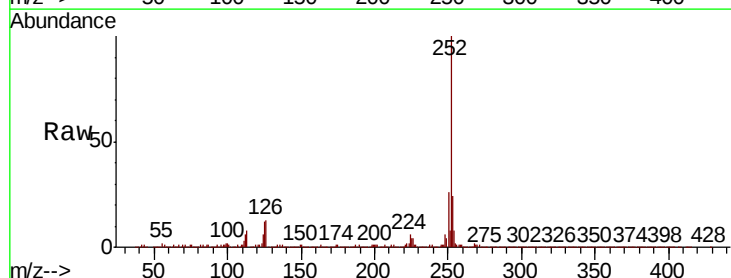
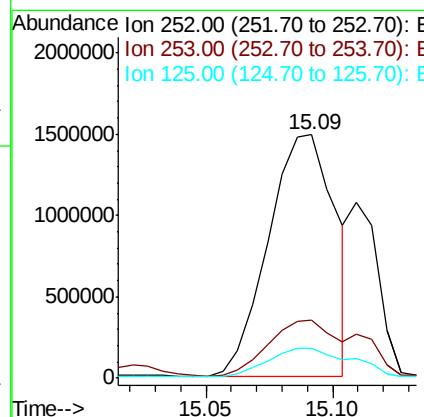
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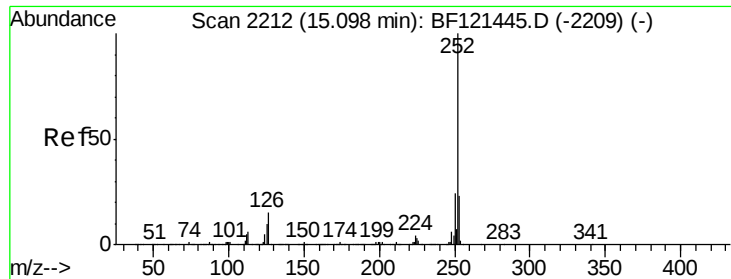
mohammad
 9/2/2020 1:57:23 PM



#88
 Benzo(b)fluoranthene
 Concen: 59.500 ng m
 RT: 15.09 min Scan# 2211
 Delta R.T. 0.03 min
 Lab File: BF121504.D
 Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.3	27.5
125	12.2	9.2	13.8





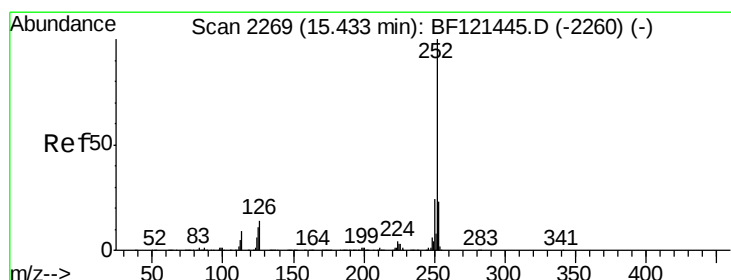
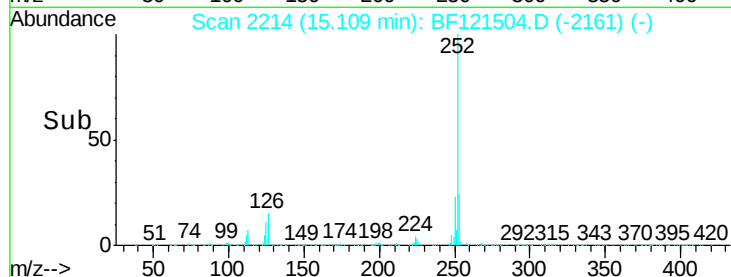
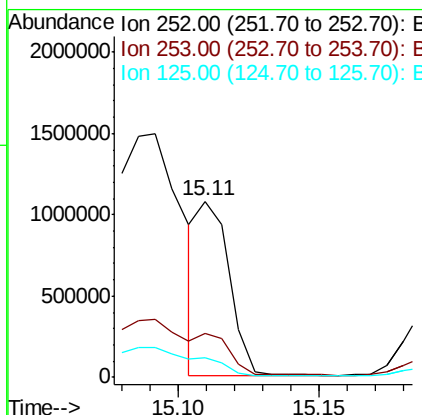
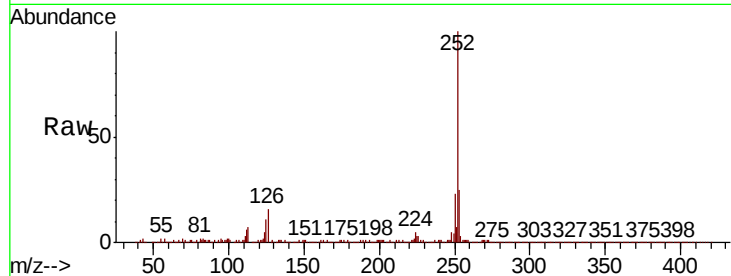
#89
Benzo(k)fluoranthene
Concen: 19.083 ng m
RT: 15.11 min Scan# 2214
Delta R.T. 0.01 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.3	27.5
125	11.3	8.5	12.7

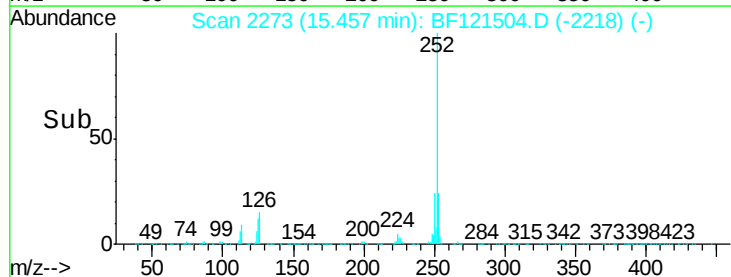
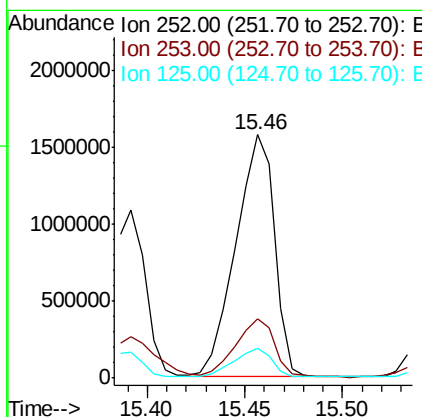
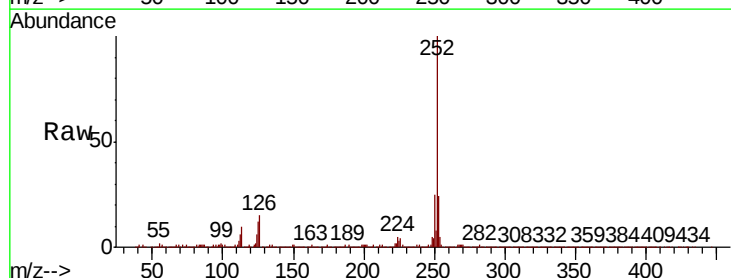
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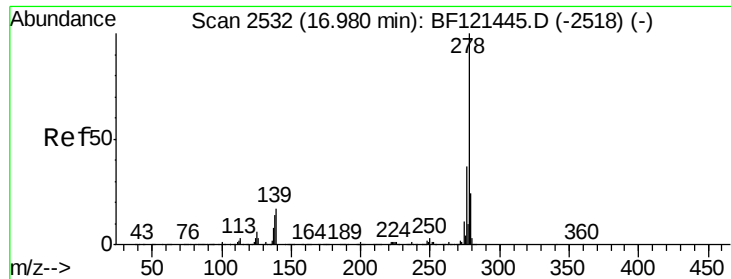
mohammad
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#90
Benzo(a)pyrene
Concen: 52.502 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.02 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.0	27.0
125	12.2	9.0	13.4





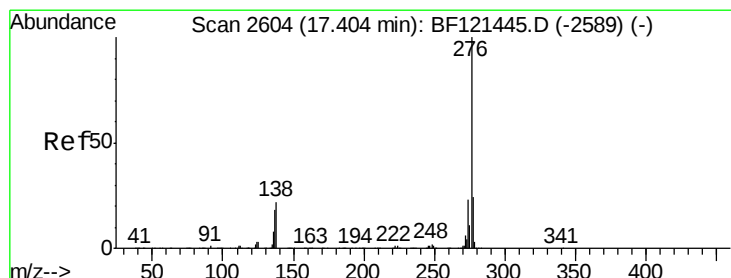
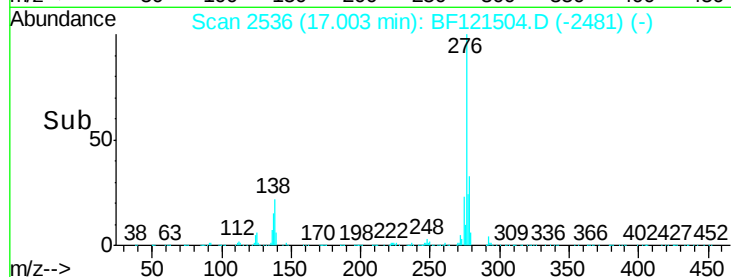
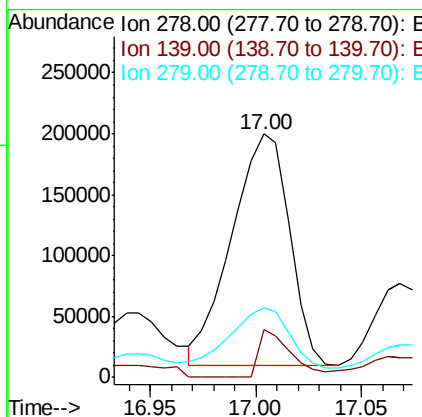
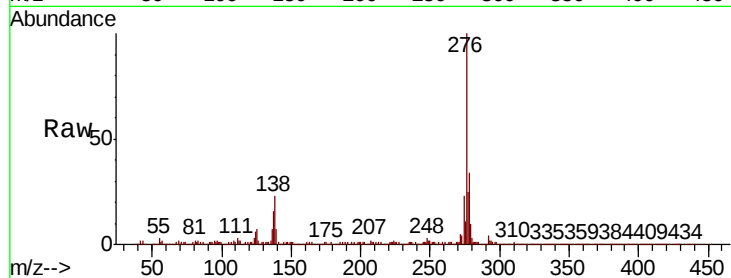
#91
Dibenzo(a,h)anthracene
Concen: 10.167 ng
RT: 17.00 min Scan# 2536
Delta R.T. 0.02 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Instrument :
BNA_F
ClientSampleId :
LINDEN-BH-01-C

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.8	13.3	19.9
279	28.7	19.4	29.0

Manual Integrations
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#92
Benzo(g,h,i)perylene
Concen: 36.600 ng
RT: 17.44 min Scan# 2611
Delta R.T. 0.04 min
Lab File: BF121504.D
Acq: 1 Sep 2020 19:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.9	28.3
138	23.5	17.4	26.0

