

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
 Data File : BF121512.D
 Acq On : 1 Sep 2020 23:17
 Operator : JU/CG
 Sample : L3847-09DL 25X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Manual Integrations
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Quant Time: Sep 02 04:02:54 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	277362	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	1070512	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	494908	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	840977	20.00	ng	0.00
76) Chrysene-d12	14.03	240	637344	20.00	ng	0.00
86) Perylene-d12	15.51	264	752091	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	25300	1.53	ng	-0.01
7) Phenol-d6	6.47	99	37575	1.63	ng	-0.02
23) Nitrobenzene-d5	7.42	82	21361	1.36	ng	-0.01
42) 2,4,6-Tribromophenol	10.69	330	8274	1.66	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	55375	1.81	ng	-0.01
79) Terphenyl-d14	12.97	244	47674	1.57	ng	0.00
Target Compounds						
58) Fluorene	10.45	166	97897	3.075	ng	98
71) Phenanthrene	11.41	178	1303261	30.198	ng	99
72) Anthracene	11.46	178	280826	6.616	ng	95
75) Fluoranthene	12.60	202	1562321	33.589	ng	98
78) Pyrene	12.83	202	1534513	33.712	ng	98
81) Benzo(a)anthracene	14.02	228	704892	18.118	ng	97
83) Chrysene	14.06	228	703193	18.066	ng	97
87) Indeno(1,2,3-cd)pyrene	16.97	276	279452	6.039	ng	95
88) Benzo(b)fluoranthene	15.07	252	796772m	16.286	ng	
89) Benzo(k)fluoranthene	15.10	252	272167m	5.981	ng	
90) Benzo(a)pyrene	15.44	252	626643	14.244	ng	98
91) Dibenzo(a,h)anthracene	16.98	278	78374	2.069	ng	# 88
92) Benzo(a,h,i)perylene	17.42	276	250203	6.857	ng	99

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

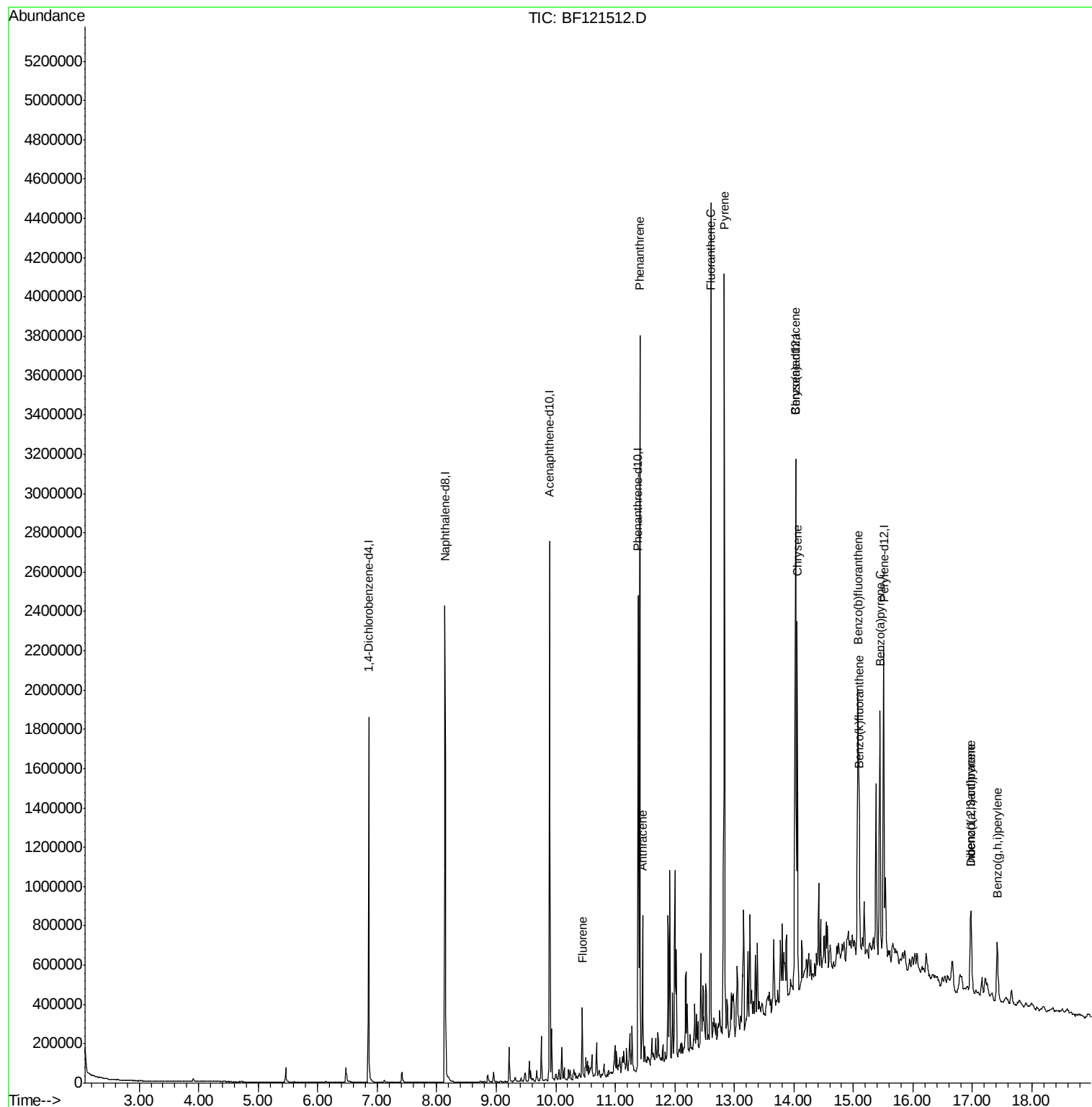
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090120\
Data File : BF121512.D
Acq On : 1 Sep 2020 23:17
Operator : JU/CG
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Misc :
ALS Vial : 19 Sample Multiplier: 1

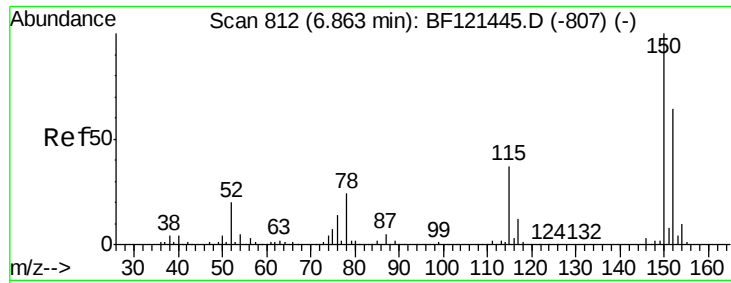
Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

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#1

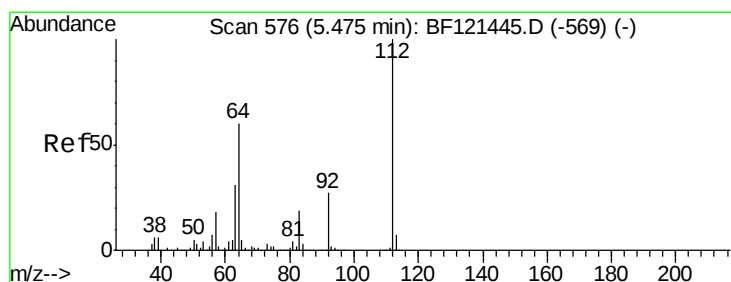
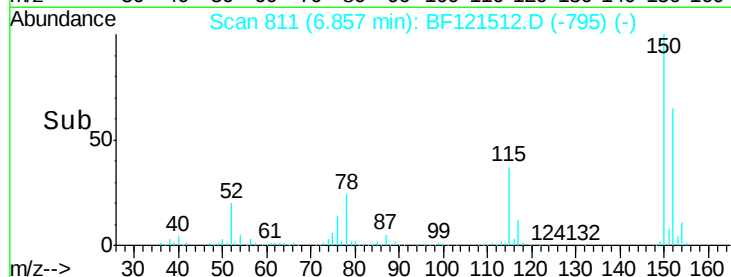
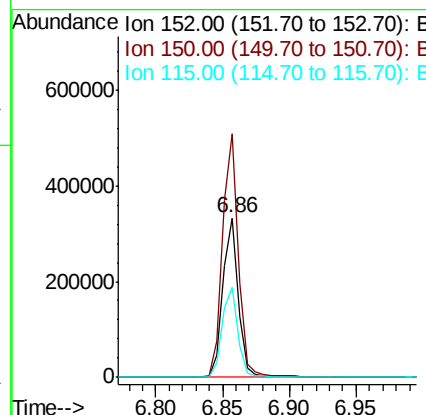
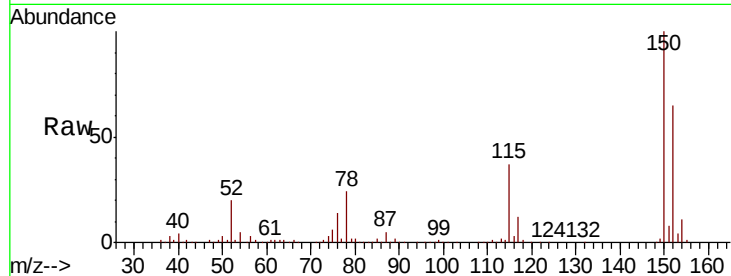
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.8	125.8	188.6
115	56.6	46.6	69.8

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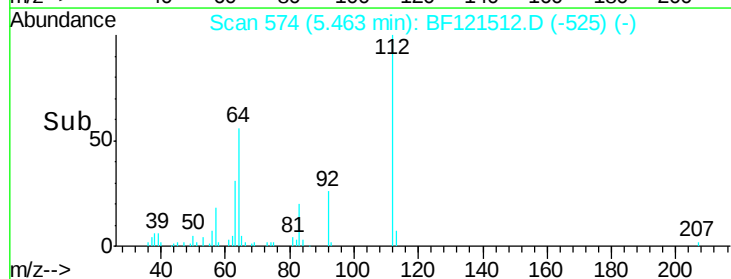
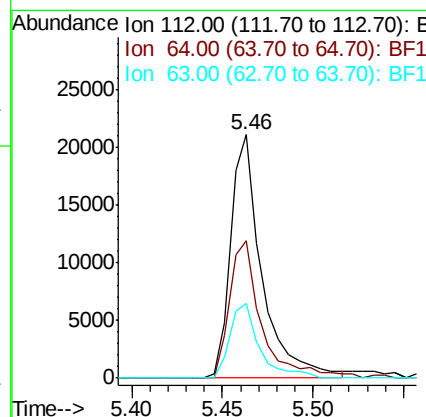
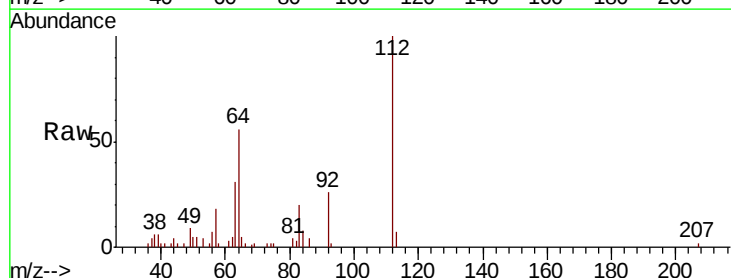
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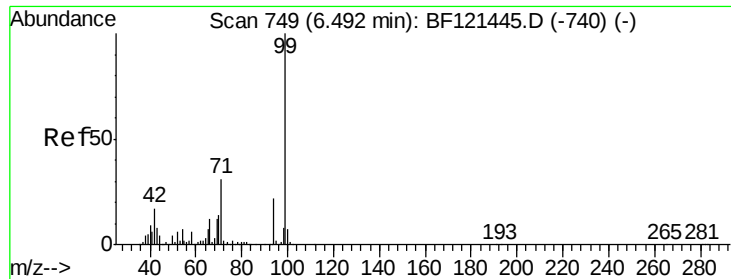


#5

2-Fluorophenol
Concen: 1.530 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.5	48.2	72.2
63	30.8	24.8	37.2





#7

Phenol-d6

Concen: 1.626 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Instrument :

BNA_F

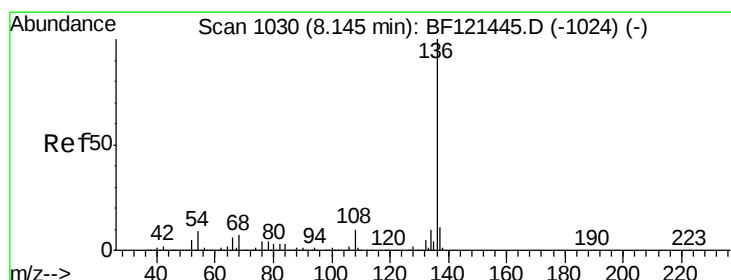
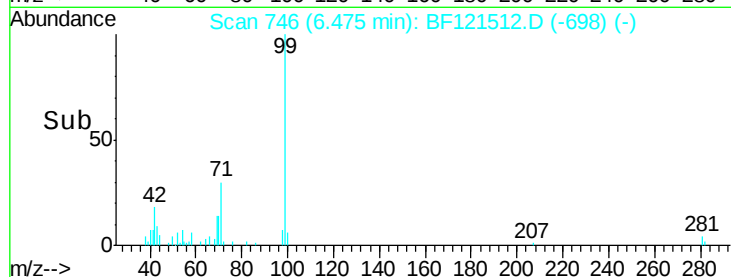
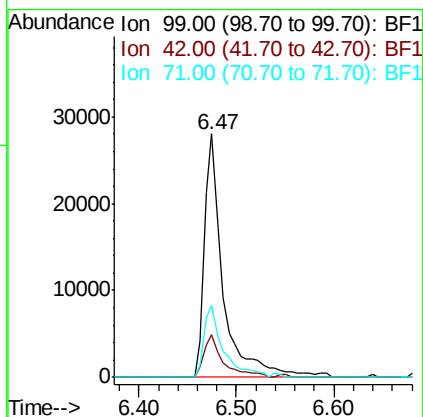
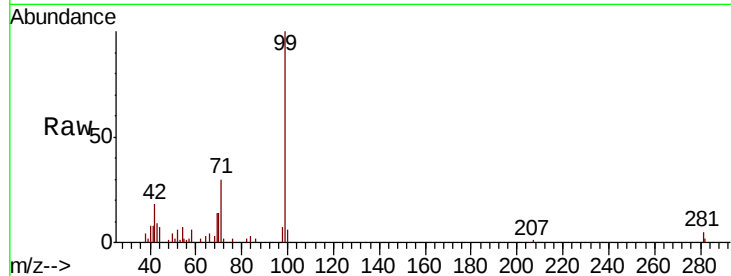
ClientSampleId :

LINDEN-JOP-BH-09-BDL

Tot Ion:	99	Resp:	37575
Ion Ratio	Lower	Upper	
99	100		
42	17.7	13.5	20.3
71	29.6	24.6	37.0

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#21

Naphthalene-d8

Concen: 20.000 ng

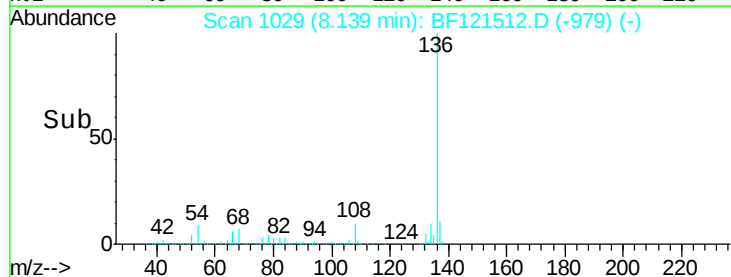
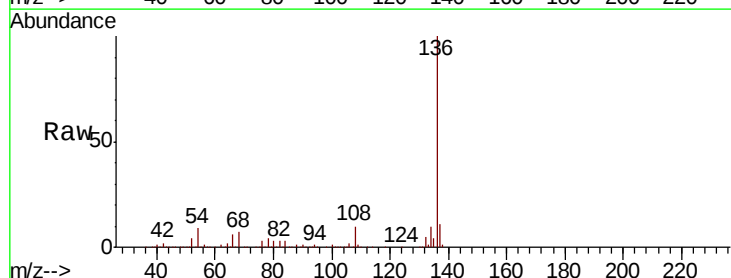
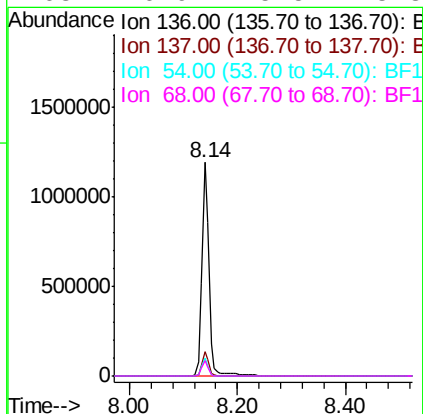
RT: 8.14 min Scan# 1029

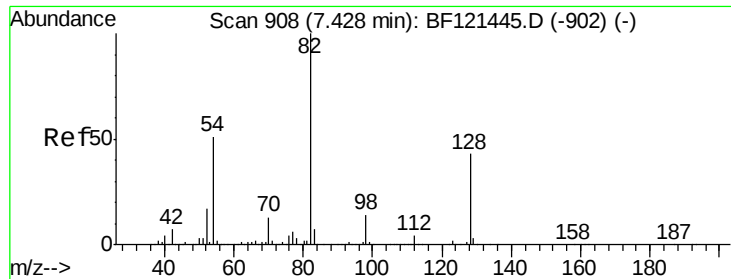
Delta R.T. -0.01 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Tgt Ion:	136	Resp:	1070512
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.1	13.7
54	8.6	7.0	10.4
68	6.9	5.5	8.3





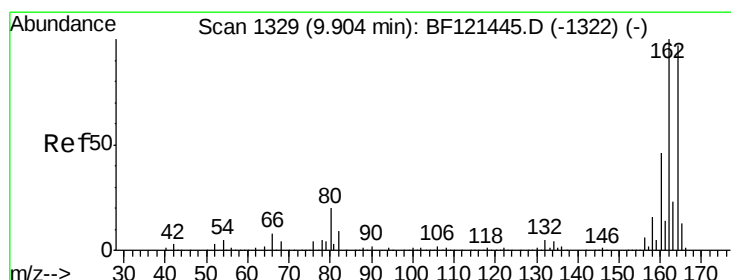
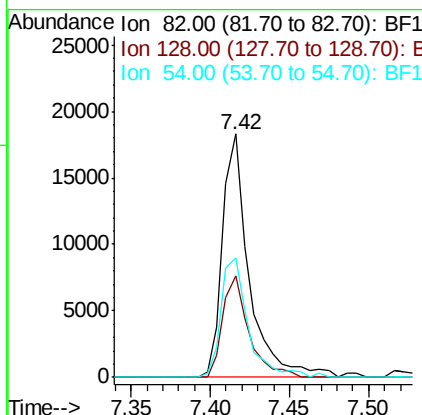
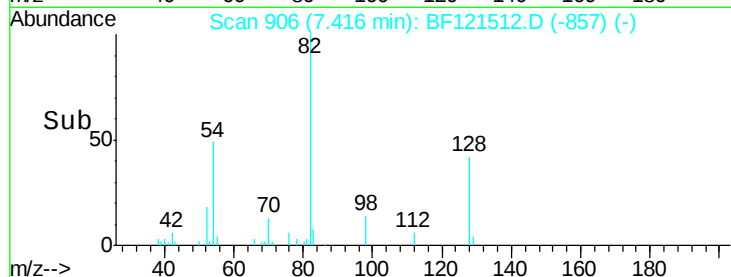
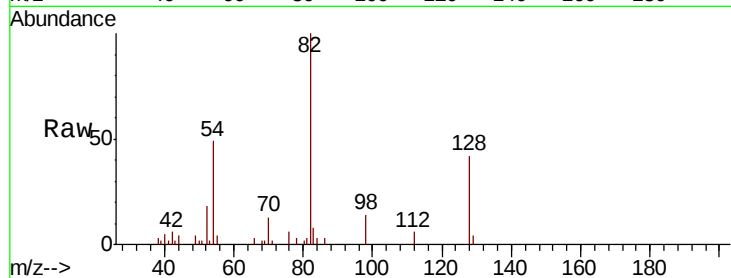
#23
Nitrobenzene-d5
Concen: 1.364 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.6	34.1	51.1
54	48.8	41.0	61.6

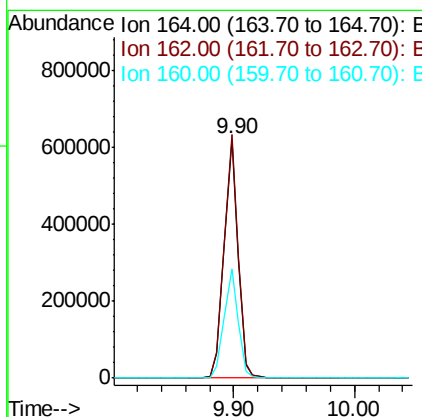
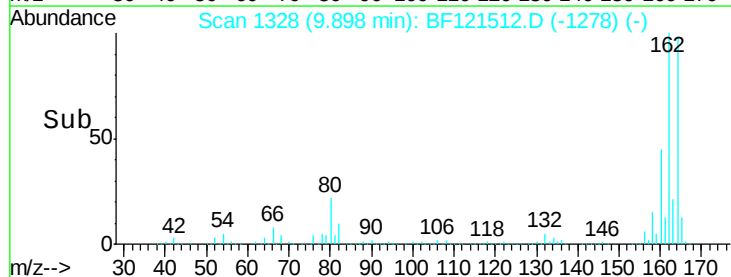
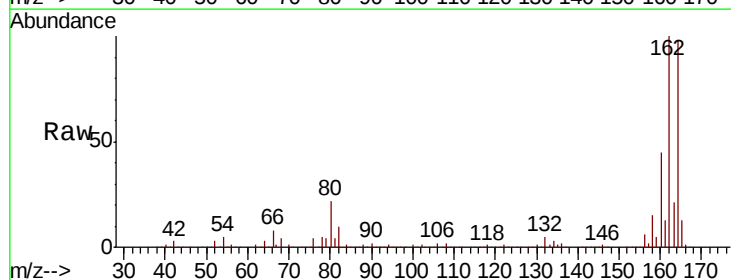
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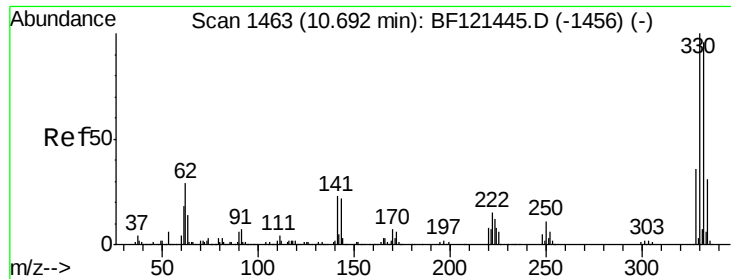
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.4	123.6
160	45.8	37.6	56.4





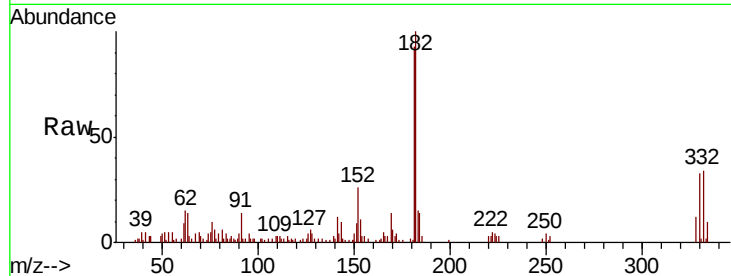
#42
 2,4,6-Tribromophenol
 Concen: 1.655 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.2	114.2
141	34.9	24.6	36.8

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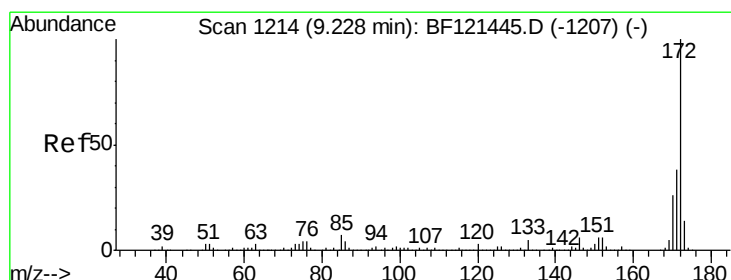
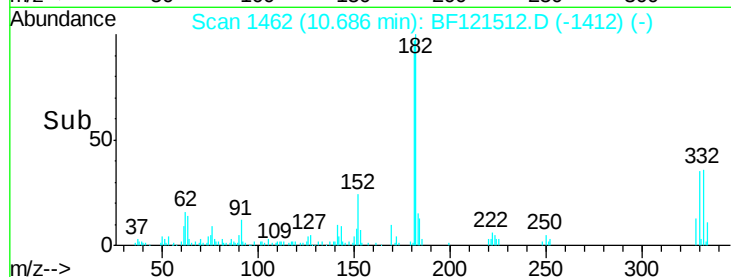
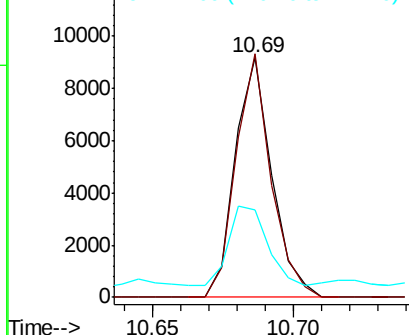


Abundance

Ion 329.80 (329.50 to 330.50): E

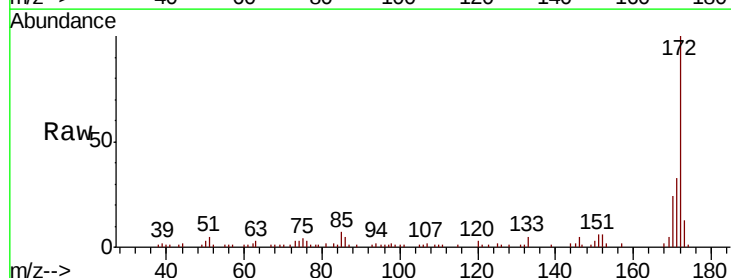
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 1.805 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
172	100		
171	32.9	30.6	45.8
170	23.7	20.6	31.0

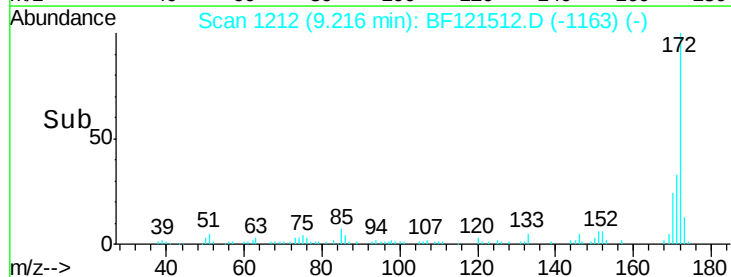
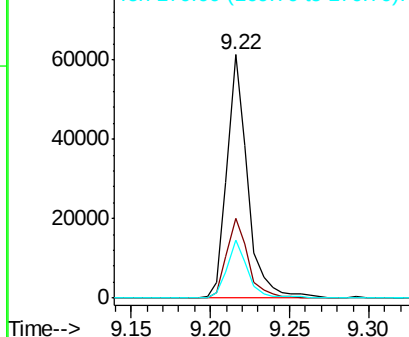


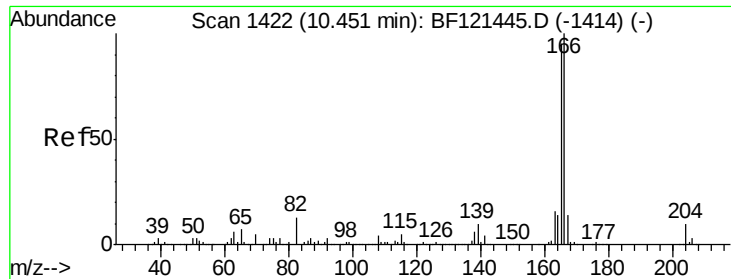
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





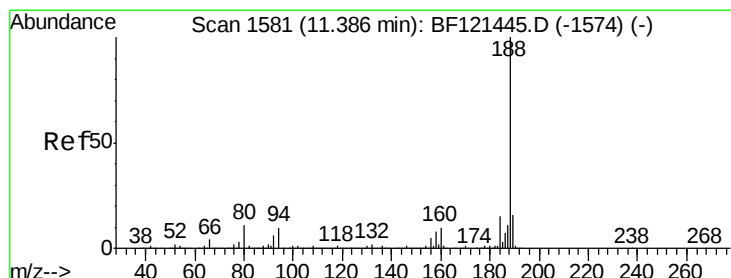
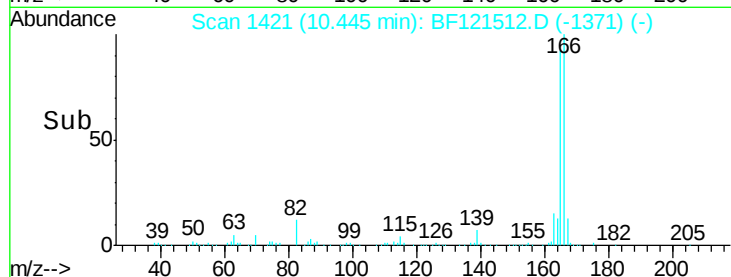
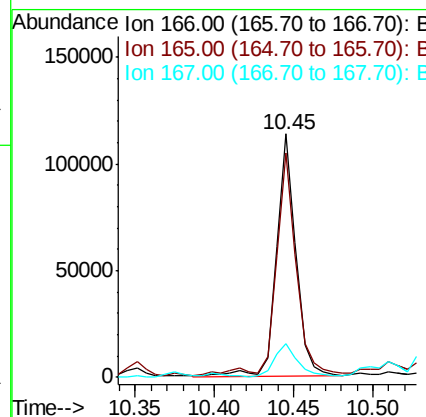
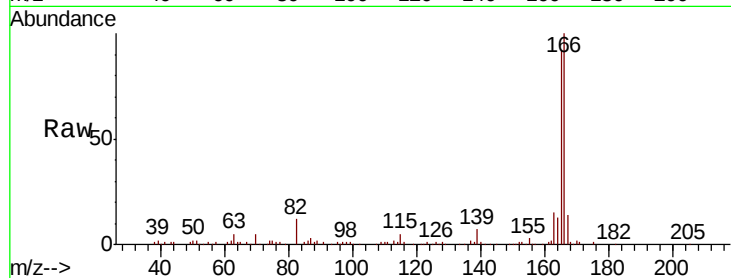
#58
 Fluorene
 Concen: 3.075 ng
 RT: 10.45 min Scan# 1421
 Delta R.T. -0.01 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
166	100		
165	92.2	75.7	113.5
167	14.0	11.1	16.7

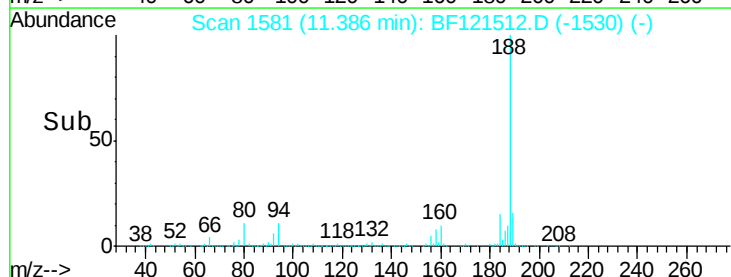
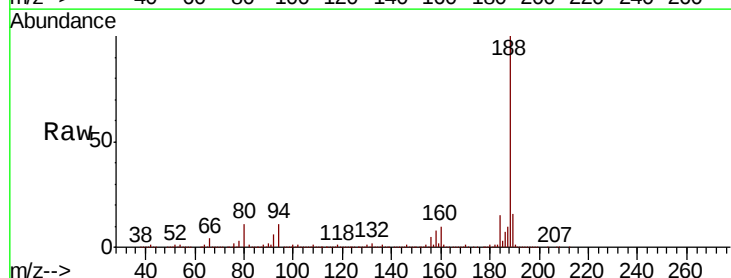
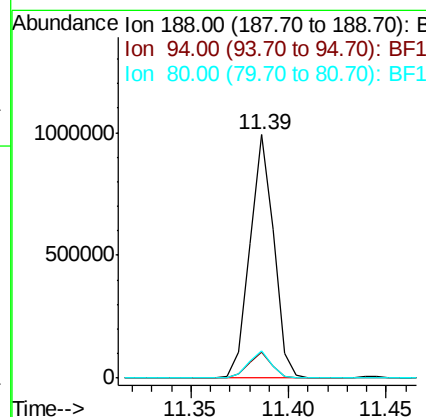
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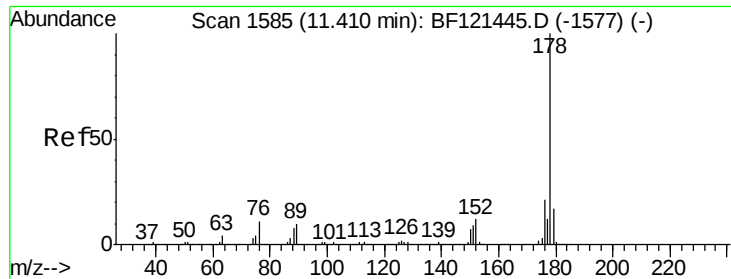
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.3	12.5
80	11.2	8.6	13.0





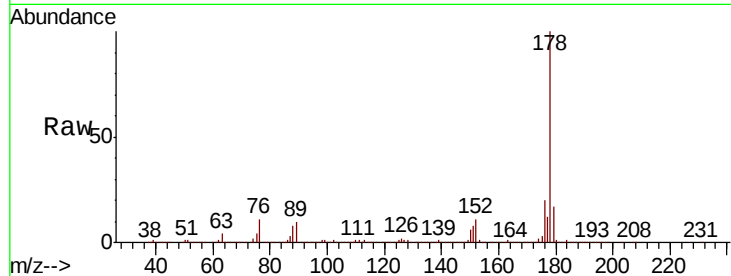
#71
Phenanthrene
Concen: 30.198 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

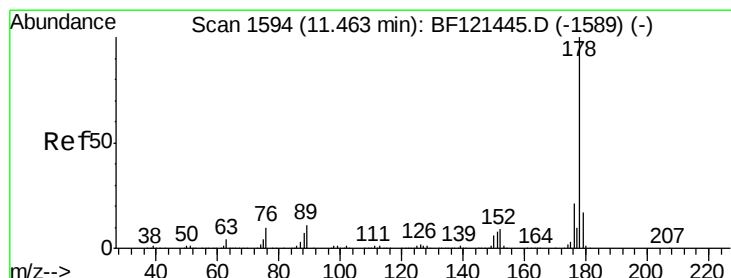
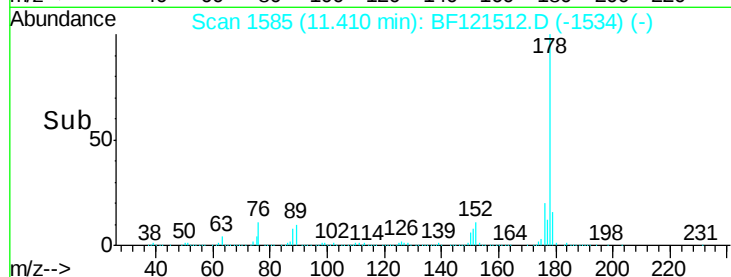
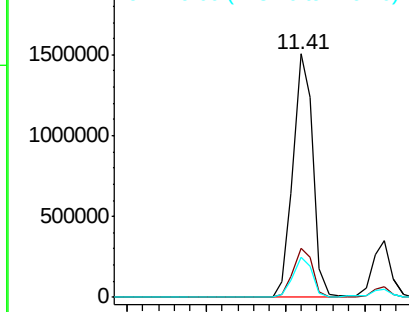
Tot Ion:178 Resp: 1303261
Ion Ratio Lower Upper
178 100
176 20.4 16.9 25.3
179 16.5 13.4 20.0

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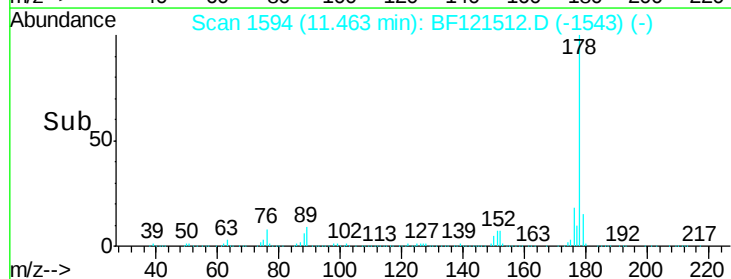
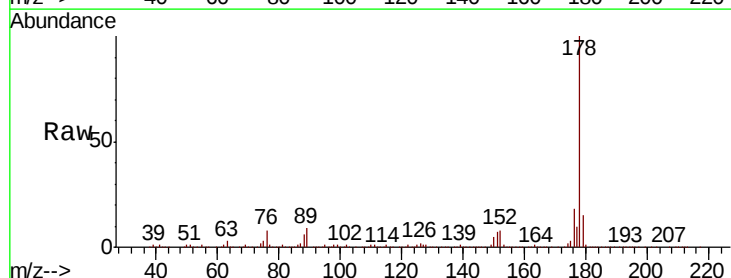
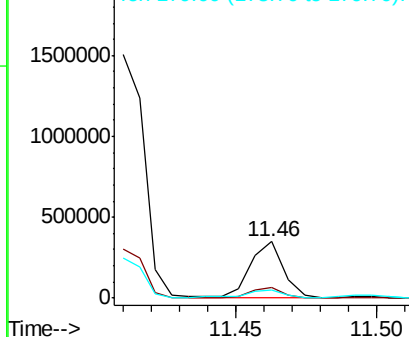
Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

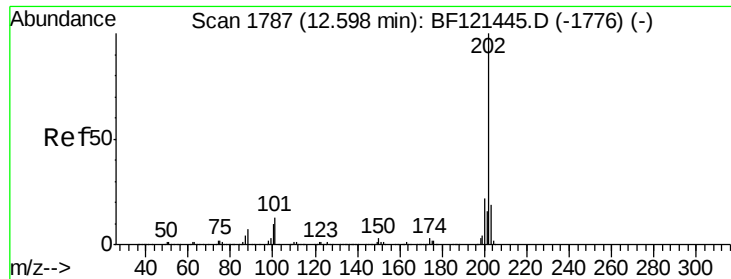


#72
Anthracene
Concen: 6.616 ng
RT: 11.46 min Scan# 1594
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion:178 Resp: 280826
Ion Ratio Lower Upper
178 100
176 18.1 16.7 25.1
179 15.3 13.4 20.2

Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 33.589 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF121512.D

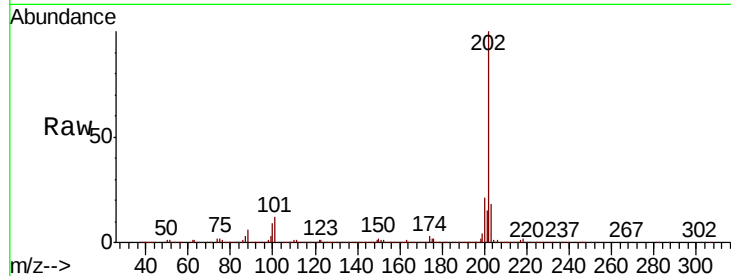
Acq: 1 Sep 2020 23:17

Instrument :

BNA_F

ClientSampleId :

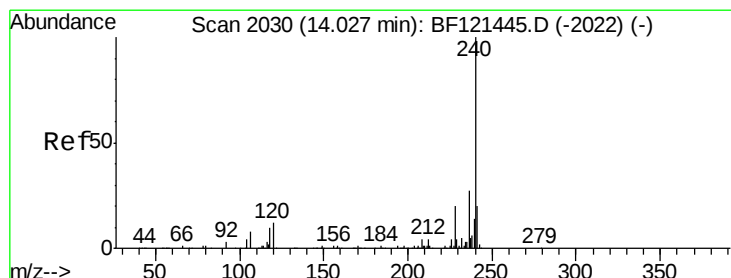
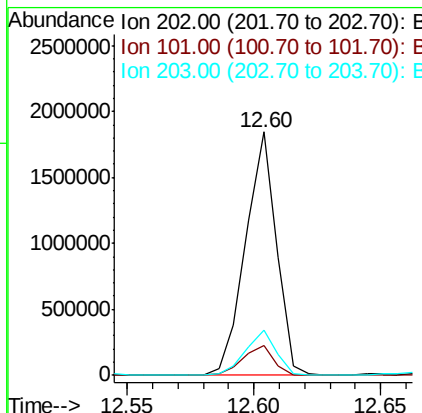
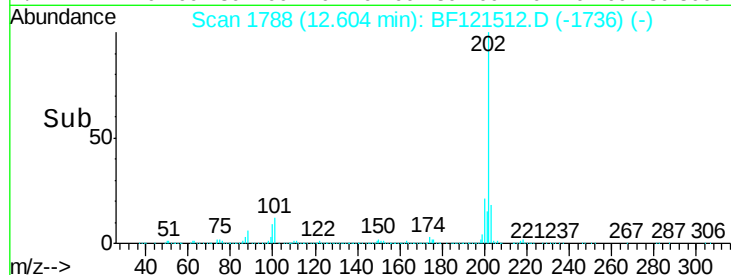
LINDEN-JOP-BH-09-BDL



Tot Ion	Ratio	Resp	Lower	Upper
202	100	1562321		
101	12.3		0.0	33.3
203	18.5		0.0	39.1

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#76

Chrysene-d12

Concen: 20.000 ng

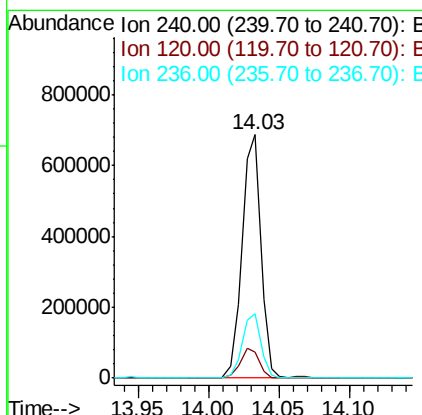
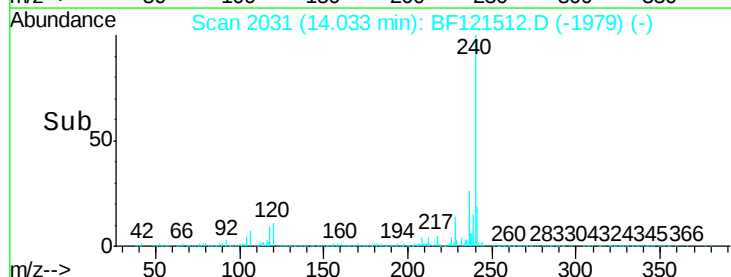
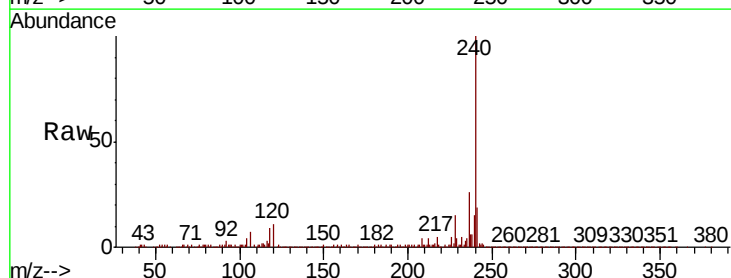
RT: 14.03 min Scan# 2031

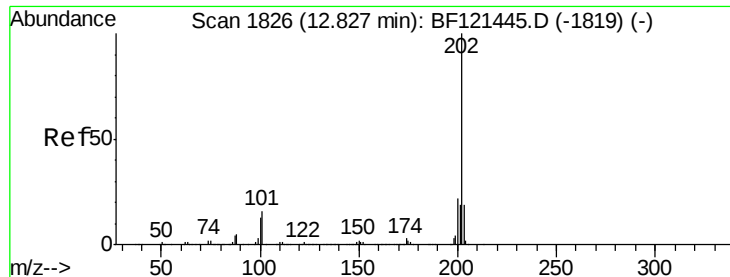
Delta R.T. 0.01 min

Lab File: BF121512.D

Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	637344		
120	10.7		9.5	14.3
236	26.2		21.8	32.6





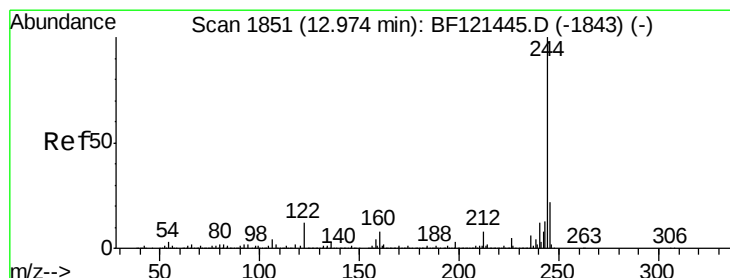
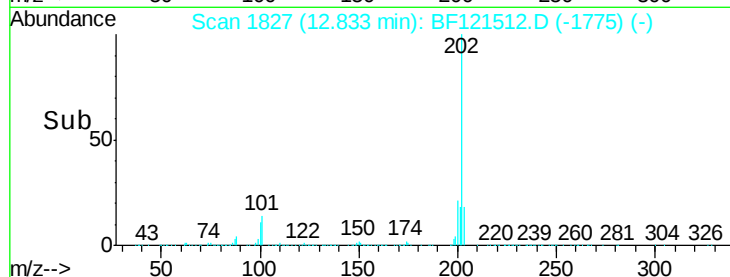
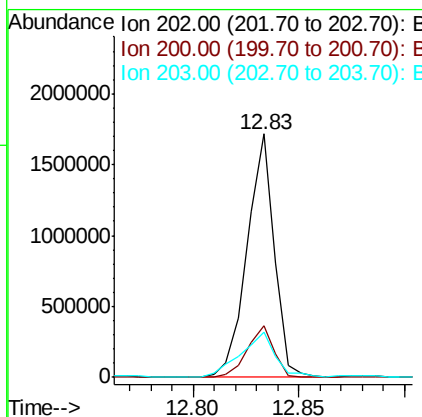
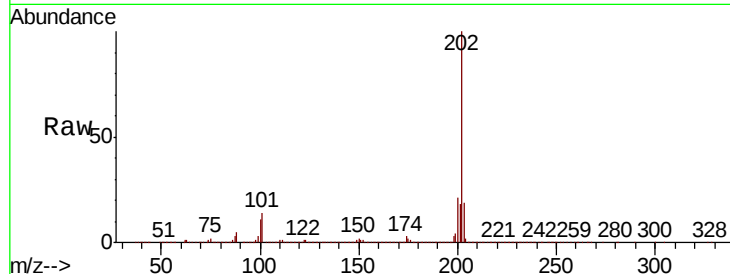
#78
Pvrene
Concen: 33.712 ng
RT: 12.83 min Scan# 1827
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.4	18.0	27.0
203	18.6	15.3	22.9

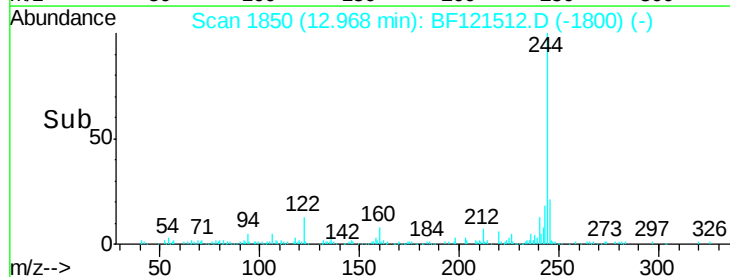
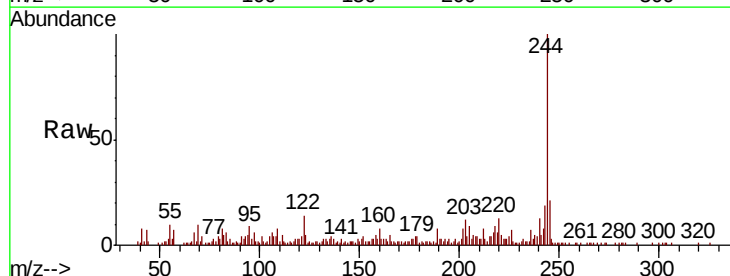
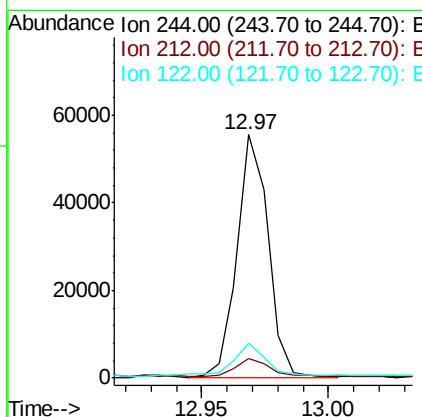
Manual Integrations
APPROVED

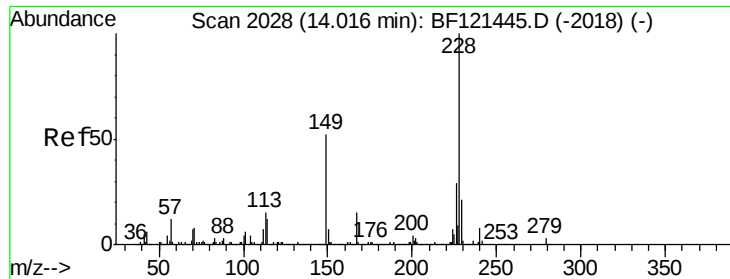
mohammad
9/2/2020 1:57:45 PM



#79
Terphenyl-d14
Concen: 1.575 ng
RT: 12.97 min Scan# 1850
Delta R.T. -0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.3	9.5
122	14.2	9.5	14.3





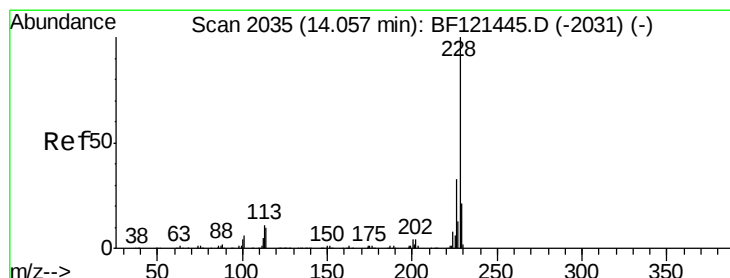
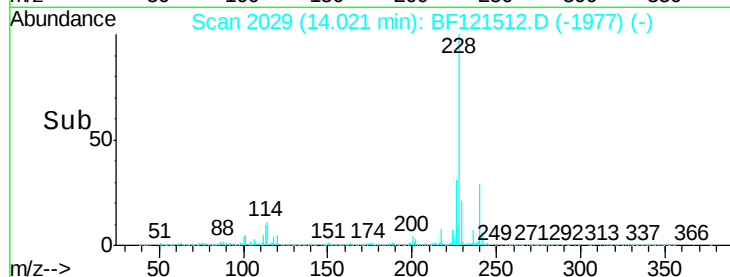
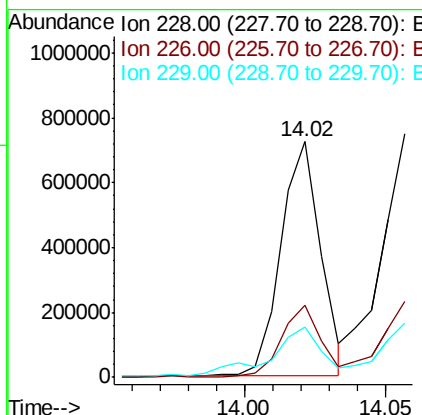
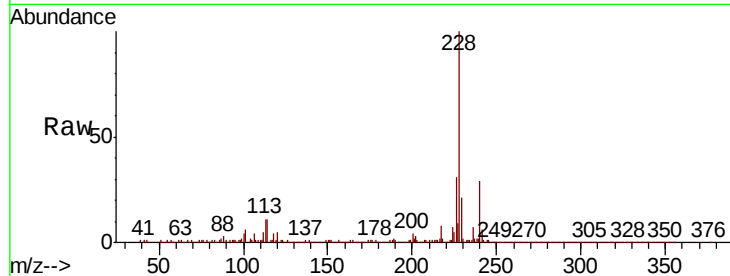
#81
Benzo(a)anthracene
Concen: 18.118 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.0	34.4
229	21.4	16.6	24.8

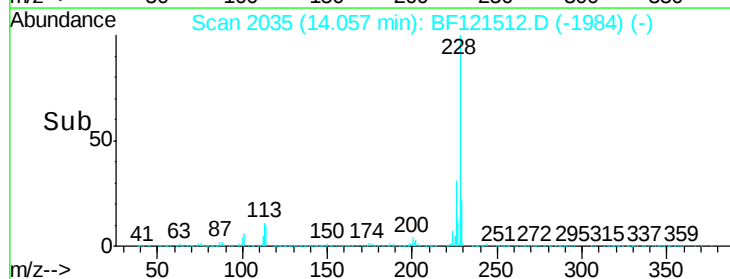
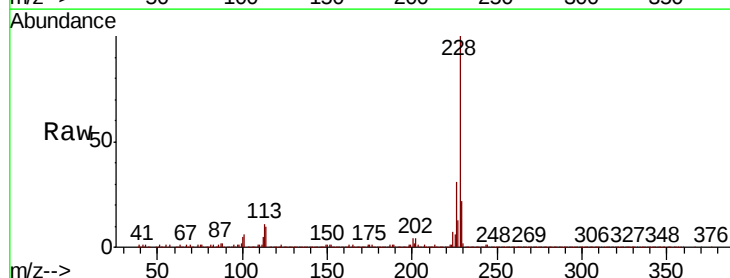
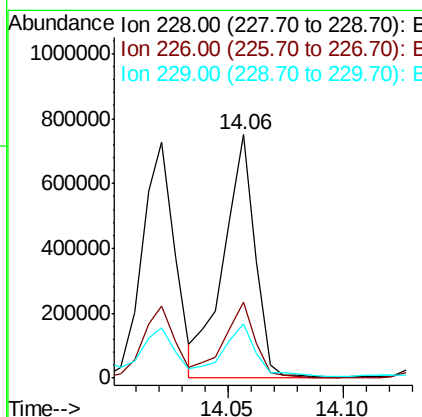
Manual Integrations
APPROVED

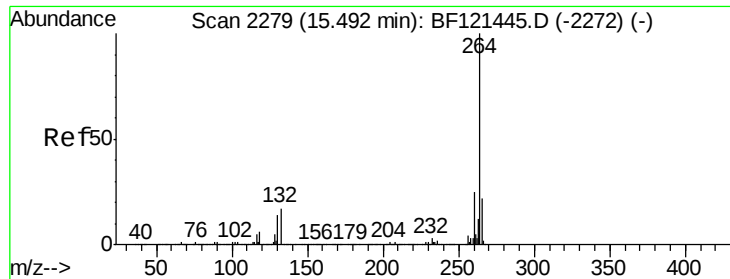
mohammad
9/2/2020 1:57:45 PM



#83
Chrysene
Concen: 18.066 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	26.2	39.2
229	22.4	16.6	25.0





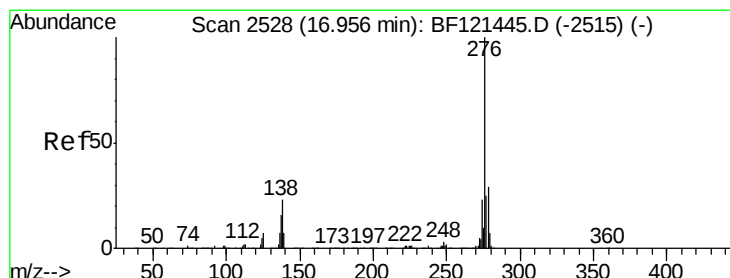
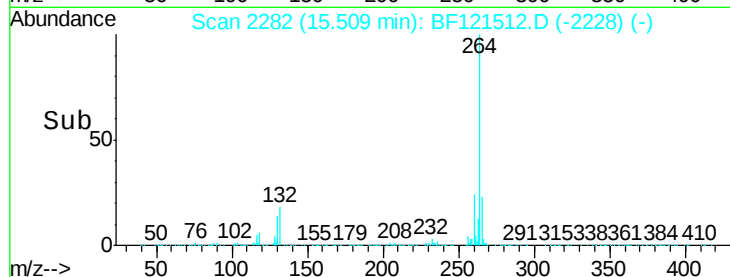
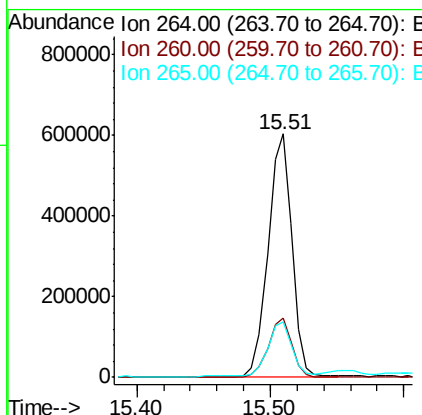
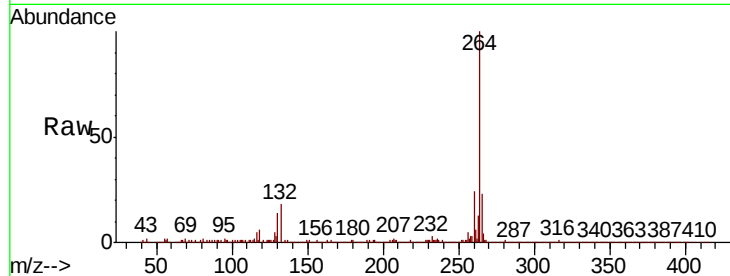
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.51 min Scan# 2282
Delta R.T. 0.02 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	23.0	17.8	26.6

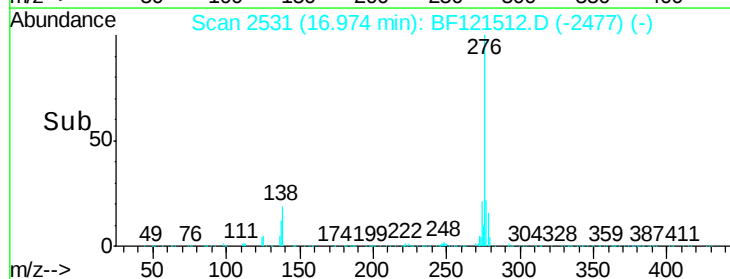
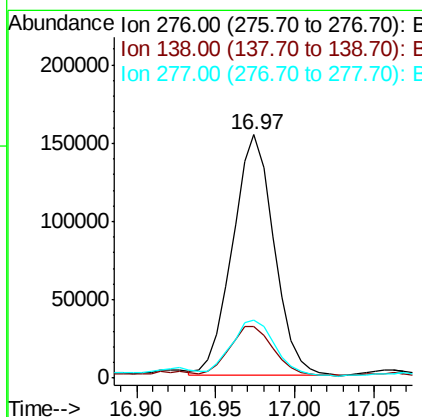
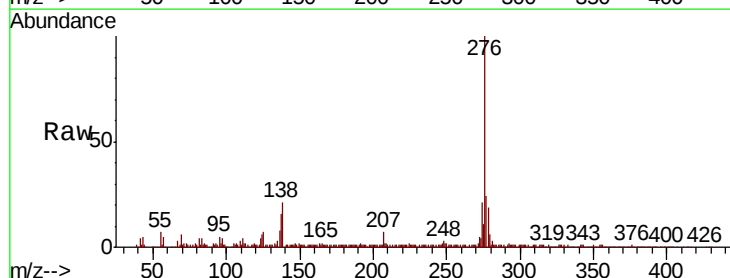
Manual Integrations
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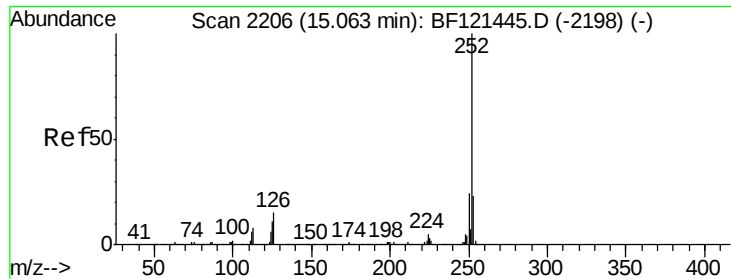
mohammad
9/2/2020 1:57:45 PM



#87
Indeno(1,2,3-cd)pyrene
Concen: 6.039 ng
RT: 16.97 min Scan# 2531
Delta R.T. 0.02 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.9	20.6	31.0
277	24.5	20.5	30.7





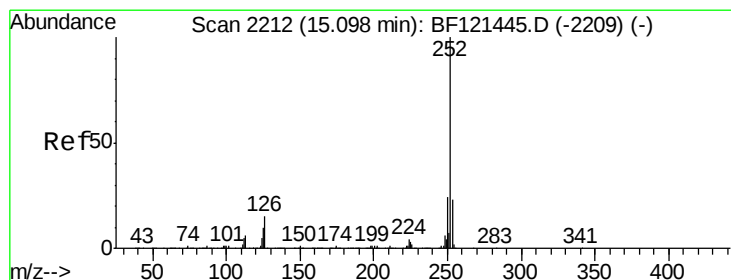
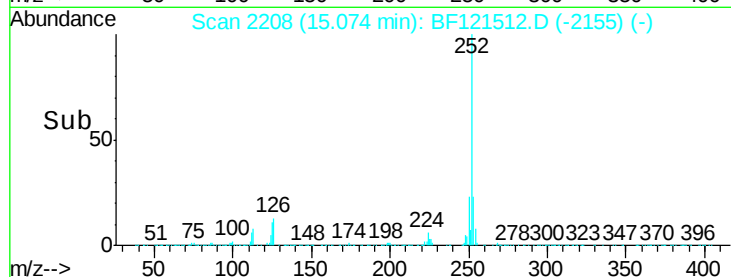
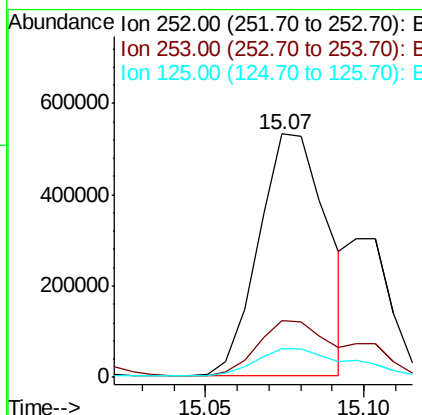
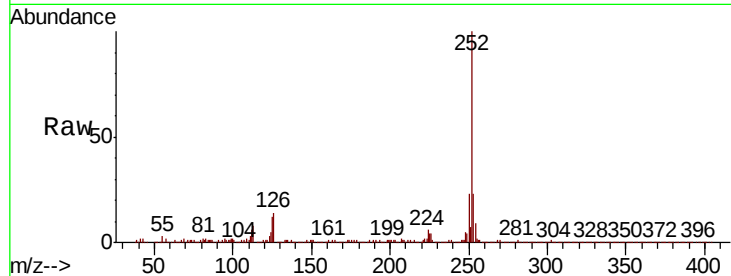
#88
Benzo(b)fluoranthene
Concen: 16.286 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.3	27.5
125	11.6	9.2	13.8

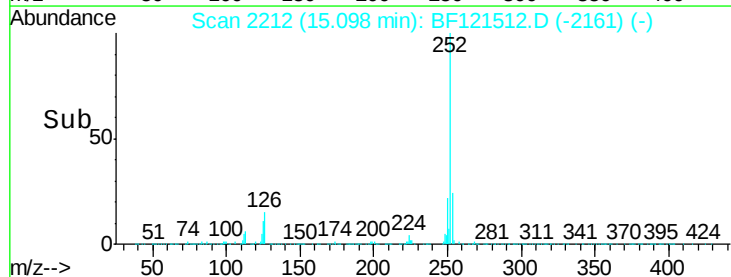
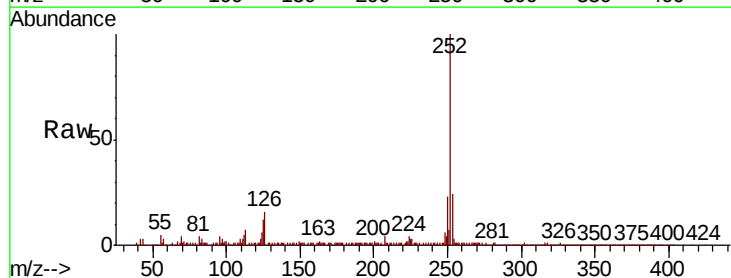
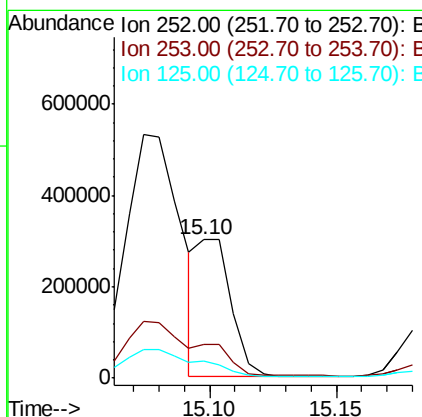
Manual Integrations
APPROVED

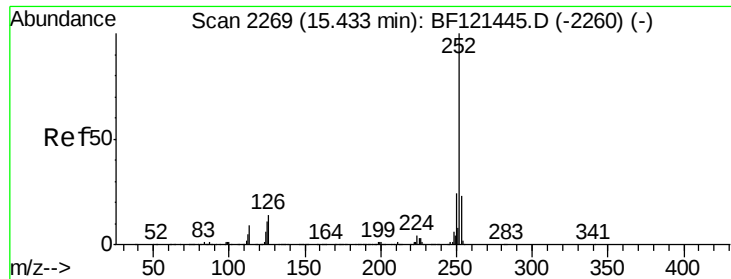
mohammad
9/2/2020 1:57:45 PM



#89
Benzo(k)fluoranthene
Concen: 5.981 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.3	27.5
125	11.9	8.5	12.7





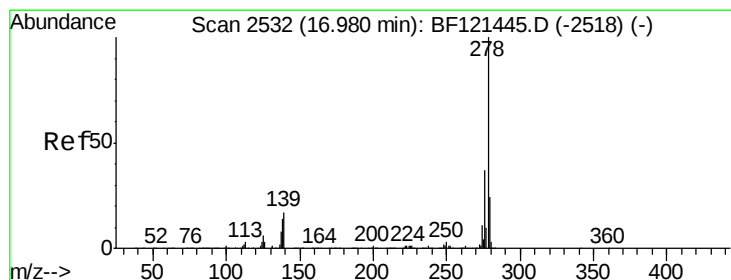
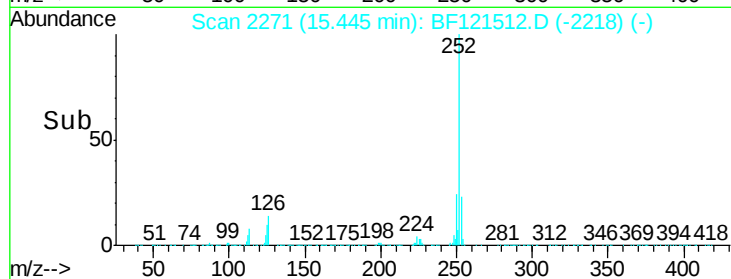
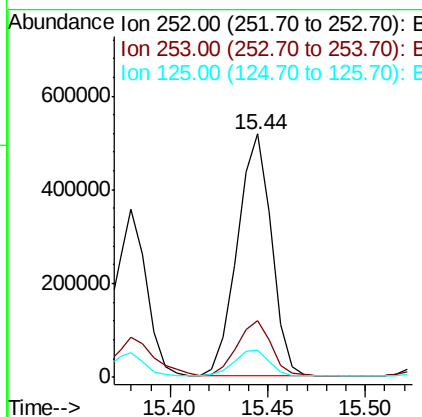
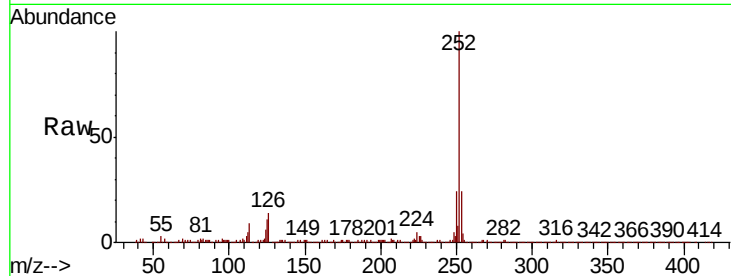
#90
Benzo(a)pyrene
Concen: 14.244 ng
RT: 15.44 min Scan# 2271
Delta R.T. 0.01 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Instrument :
BNA_F
ClientSampleId :
LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.0	27.0
125	11.1	9.0	13.4

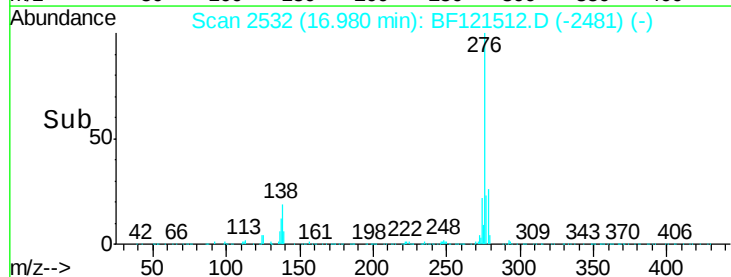
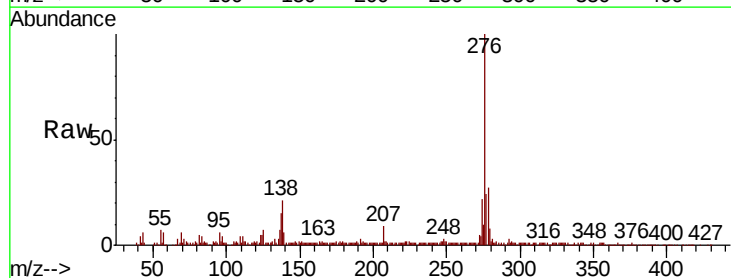
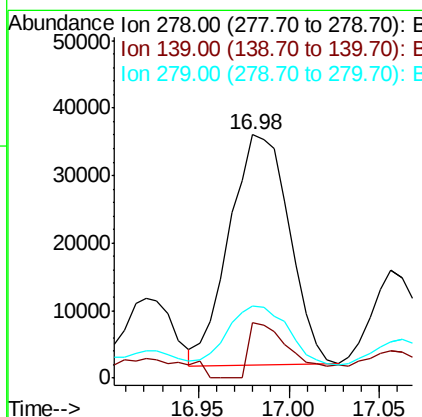
Manual Integrations
APPROVED

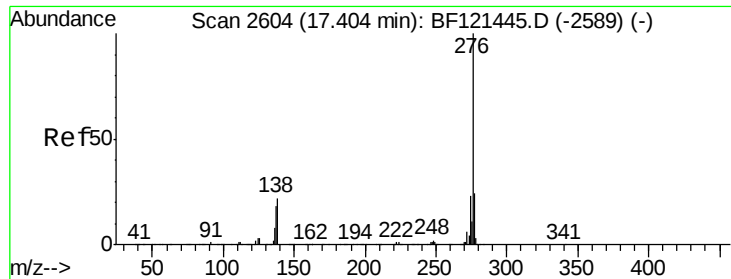
mohammad
9/2/2020 1:57:45 PM



#91
Dibenzo(a,h)anthracene
Concen: 2.069 ng
RT: 16.98 min Scan# 2532
Delta R.T. -0.00 min
Lab File: BF121512.D
Acq: 1 Sep 2020 23:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.7	13.3	19.9#
279	29.7	19.4	29.0#





#92
 Benzo(a,h,i)perylene
 Concen: 6.857 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.02 min
 Lab File: BF121512.D
 Acq: 1 Sep 2020 23:17

Instrument :
 BNA_F
 ClientSampleId :
 LINDEN-JOP-BH-09-BDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	21.0	17.4	26.0

Manual Integrations
 APPROVED

mohammad
 9/2/2020 1:57:45 PM

