

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100920\
 Data File : BF121905.D
 Acq On : 9 Oct 2020 14:38
 Operator : JU/CG
 Sample : L4332-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SHELL-L15-L14

Manual Integrations
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mohammad
 10/12/2020 11:33:59 AM

Quant Time: Oct 09 15:14:00 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	100218	20.00	ng	-0.01
21) Naphthalene-d8	8.04	136	383107	20.00	ng	-0.02
39) Acenaphthene-d10	9.79	164	186817	20.00	ng	-0.02
64) Phenanthrene-d10	11.28	188	314217	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	232853	20.00	ng	-0.01
86) Perylene-d12	15.36	264	250241	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	595645	88.33	ng	0.00
7) Phenol-d6	6.40	99	755423	85.39	ng	-0.02
23) Nitrobenzene-d5	7.32	82	499269	69.97	ng	-0.02
42) 2,4,6-Tribromophenol	10.59	330	195684	84.28	ng	-0.02
45) 2-Fluorobiphenyl	9.12	172	693765	56.24	ng	-0.02
79) Terphenyl-d14	12.86	244	516858	44.97	ng	-0.02
Target Compounds						
31) Naphthalene	8.06	128	186332	9.214	ng	99
37) 2-Methylnaphthalene	8.75	142	109033	8.227	ng	98
38) 1-Methylnaphthalene	8.85	142	102499	8.310	ng	99
50) Dimethylphthalate	9.51	163	163977	12.110	ng	100
52) Acenaphthene	9.82	154	59818	5.230	ng	100
58) Fluorene	10.34	166	102265	8.302	ng	99
71) Phenanthrene	11.30	178	627034	36.626	ng	99
72) Anthracene	11.36	178	147340	8.340	ng	98
75) Fluoranthene	12.49	202	524658	28.709	ng	100
78) Pyrene	12.72	202	624518	36.708	ng	99
81) Benzo(a)anthracene	13.91	228	256556	17.416	ng	97
83) Chrysene	13.94	228	269974	18.098	ng	98
87) Indeno(1,2,3-cd)pyrene	16.77	276	133277	8.178	ng	95
88) Benzo(b)fluoranthene	14.94	252	260251m	15.557	ng	
89) Benzo(k)fluoranthene	14.97	252	74469m	4.861	ng	
90) Benzo(a)pyrene	15.30	252	234504	16.491	ng	98
91) Dibenzo(a,h)anthracene	16.77	278	37566m	2.769	ng	
92) Benzo(g,h,i)perylene	17.20	276	139045	10.427	ng	99

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

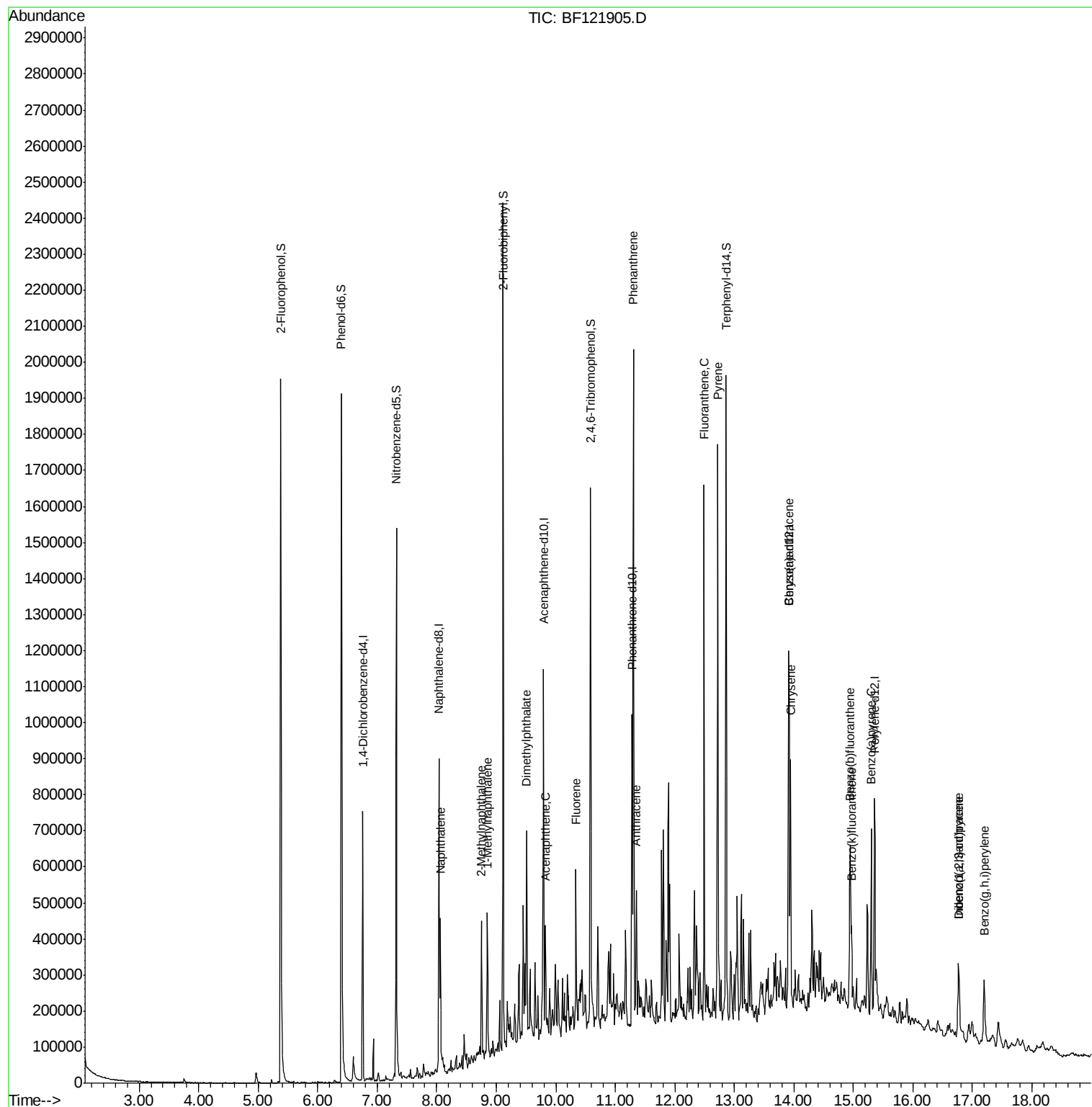
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100920\
Data File : BF121905.D
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Operator : JU/CG
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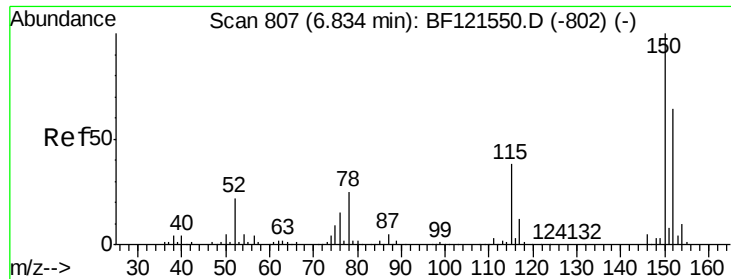
Instrument :
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ClientSampleId :
SHELL-L15-L14

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Quant Time: Oct 09 15:14:00 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 01 14:29:14 2020
Response via : Initial Calibration





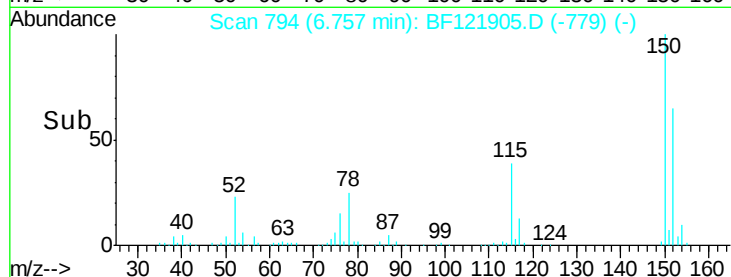
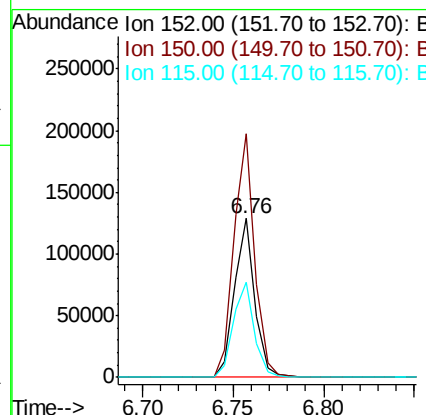
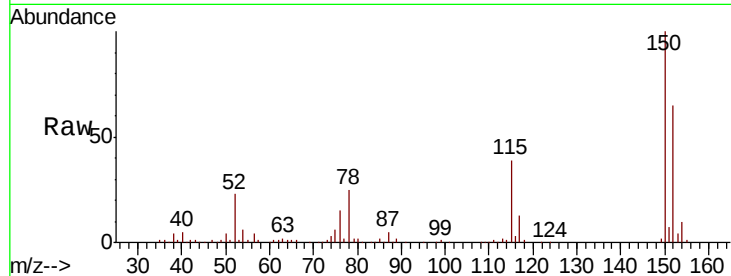
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.76 min Scan# 794
 Delta R.T. -0.01 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Instrument :
 BNA_F
 ClientSampleId :
 SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.5	125.3	187.9
115	59.8	51.9	77.9

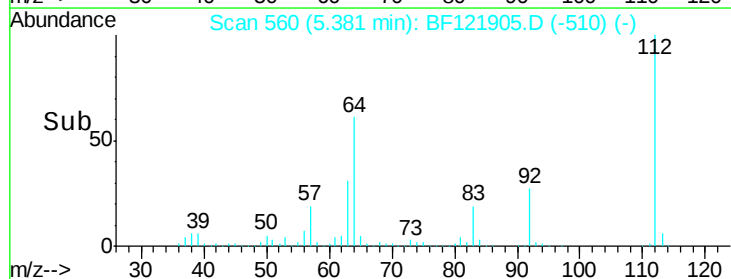
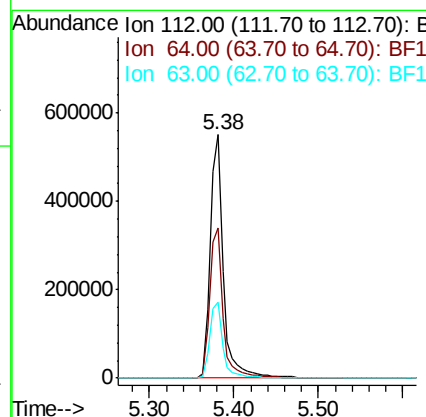
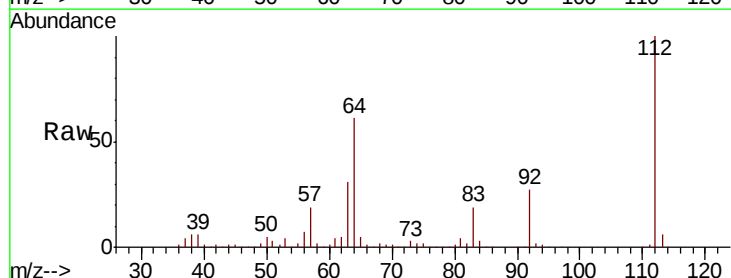
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#5
 2-Fluorophenol
 Concen: 88.328 ng
 RT: 5.38 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	50.4	75.6
63	31.3	25.8	38.6





#7

Phenol-d6

Concen: 85.386 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.02 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Instrument :

BNA_F

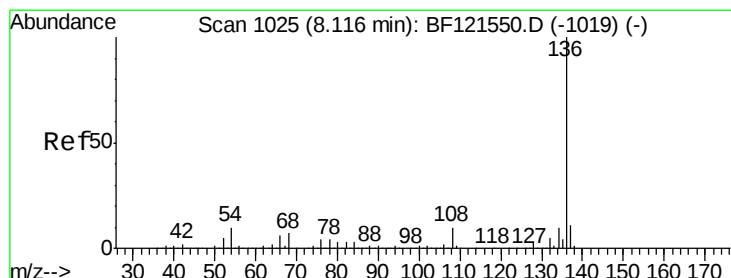
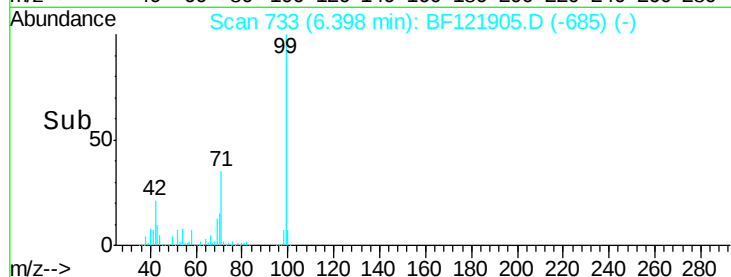
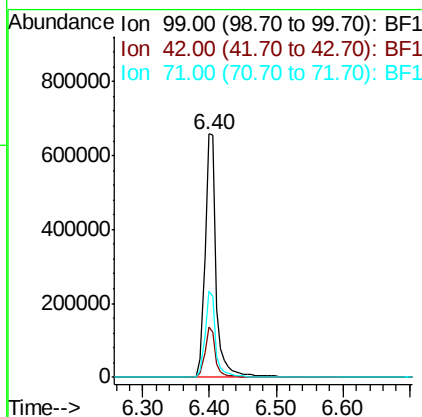
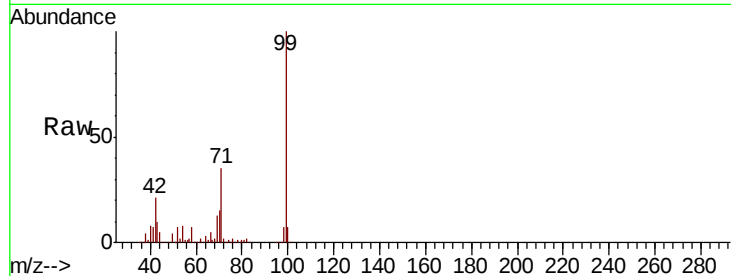
ClientSampleId :

SHELL-L15-L14

Tot Ion:	99	Resp:	755423
Ion Ratio	Lower	Upper	
99	100		
42	20.7	15.9	23.9
71	35.4	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

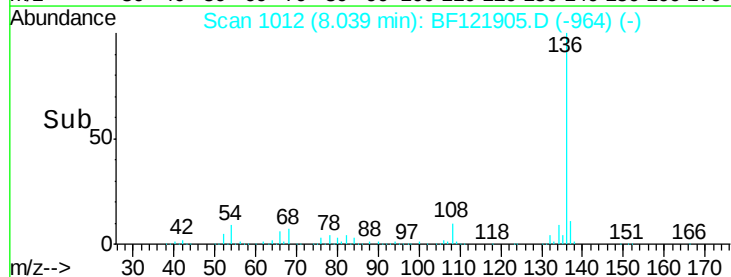
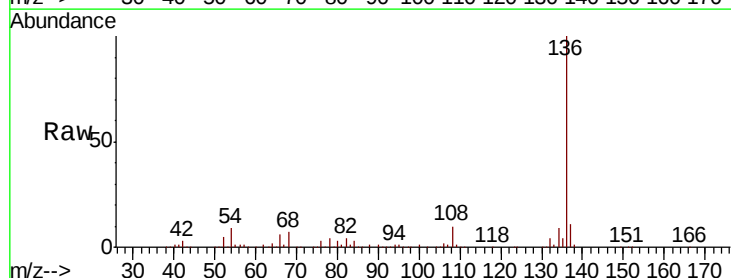
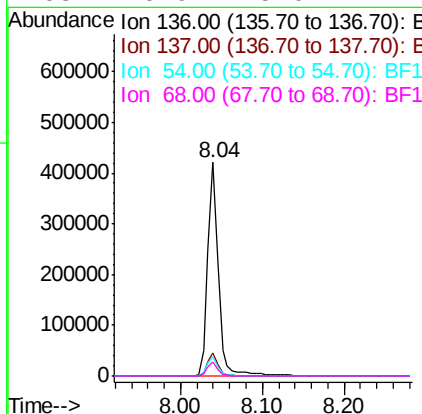
RT: 8.04 min Scan# 1012

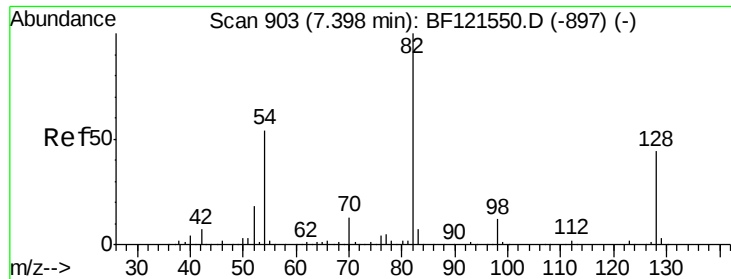
Delta R.T. -0.02 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Tgt Ion:	136	Resp:	383107
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.6	13.0
54	9.3	7.1	10.7
68	6.9	5.0	7.4





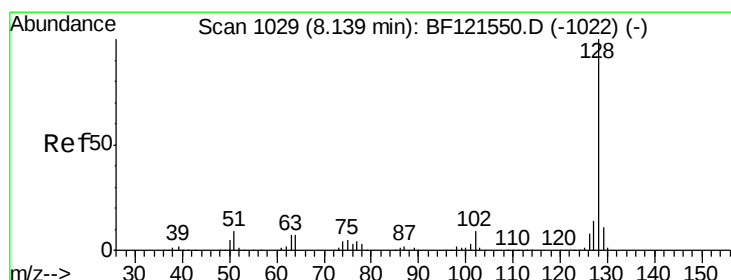
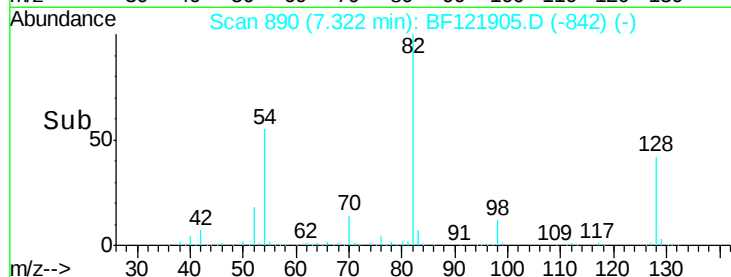
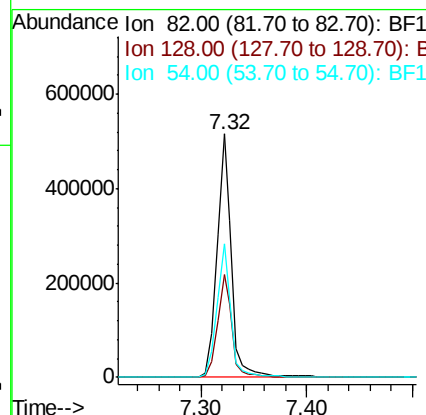
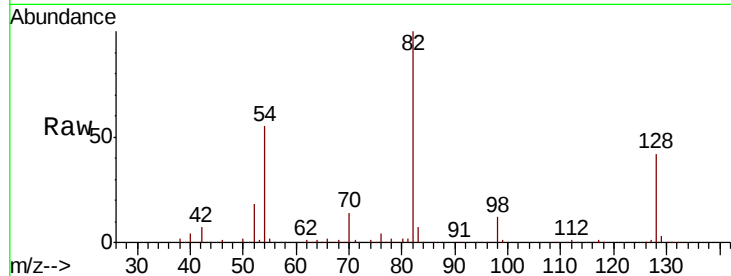
#23
 Nitrobenzene-d5
 Concen: 69.972 ng
 RT: 7.32 min Scan# 890
 Delta R.T. -0.02 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Instrument :
 BNA_F
 ClientSampleId :
 SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.2	35.0	52.4
54	54.7	43.9	65.9

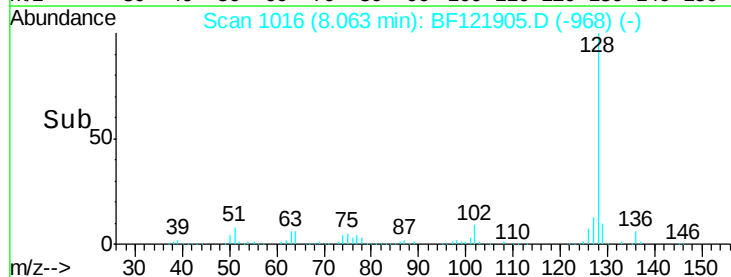
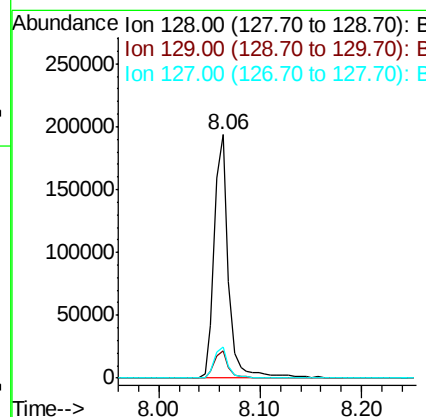
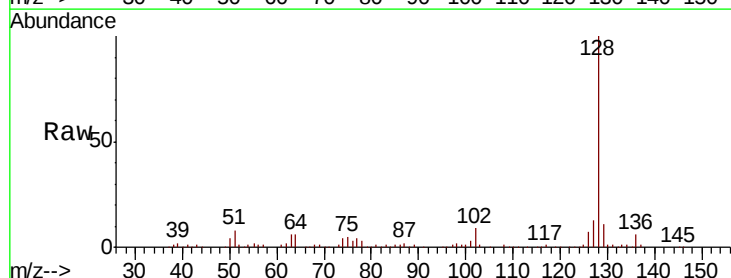
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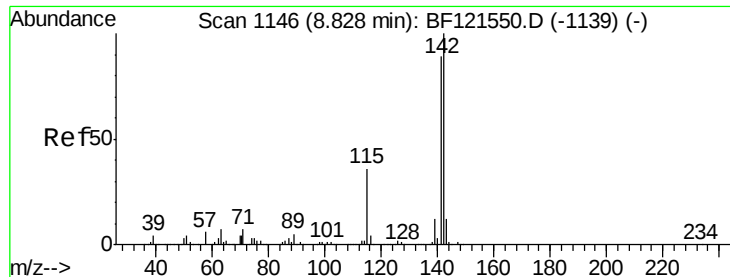
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#31
 Naphthalene
 Concen: 9.214 ng
 RT: 8.06 min Scan# 1016
 Delta R.T. -0.02 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.0	10.8	16.2





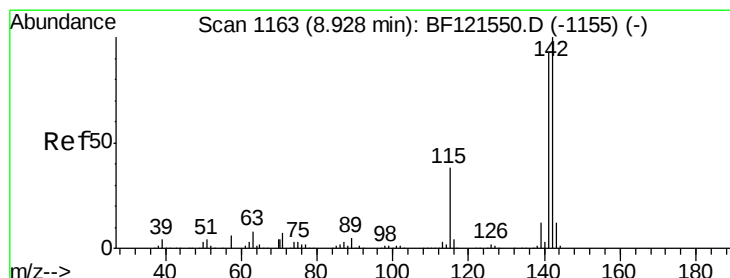
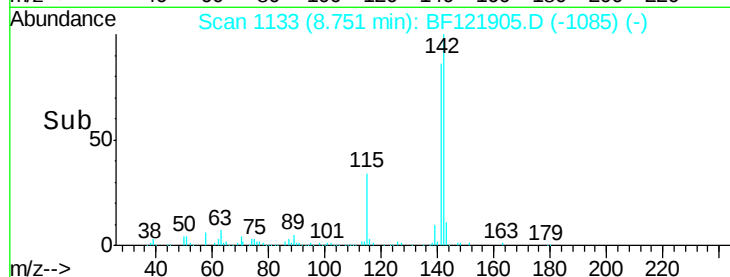
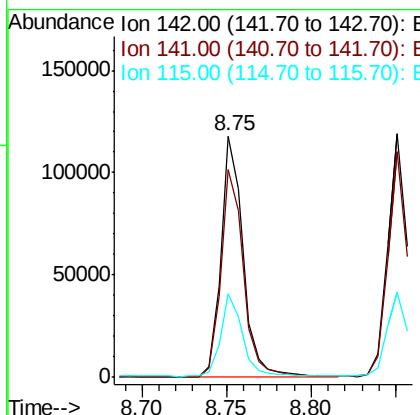
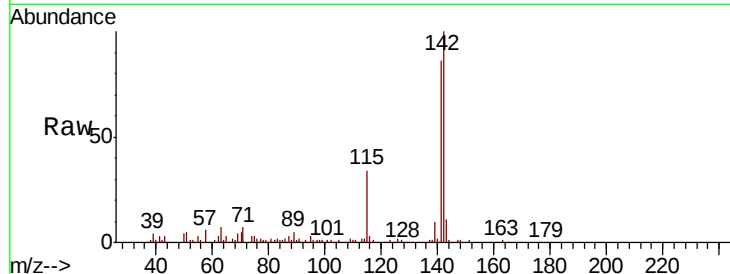
#37
2-Methylnaphthalene
Concen: 8.227 ng
RT: 8.75 min Scan# 1133
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
142	100		
141	85.8	70.2	105.4
115	34.4	28.6	43.0

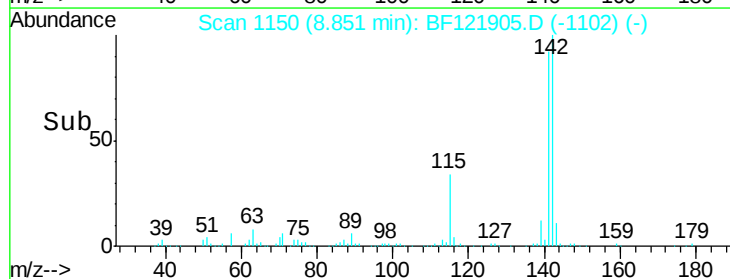
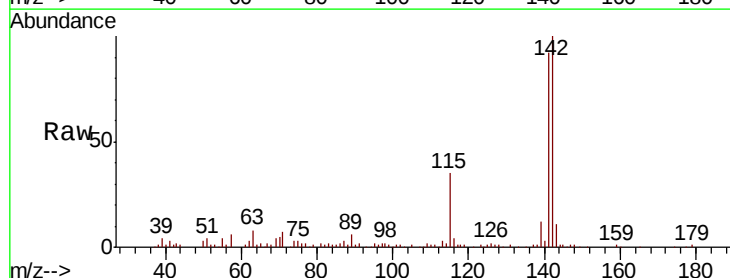
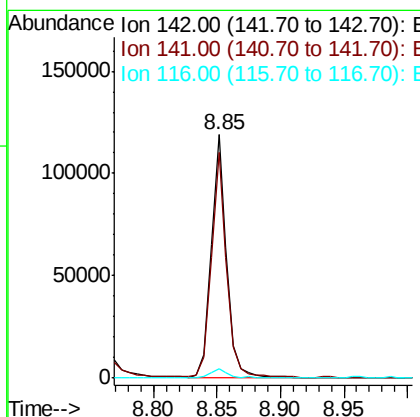
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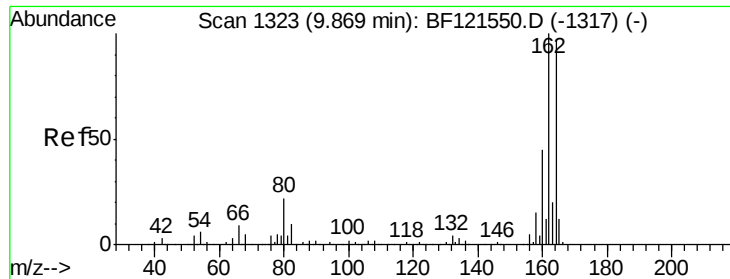
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#38
1-Methylnaphthalene
Concen: 8.310 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.5	74.5	111.7
116	3.9	3.2	4.8





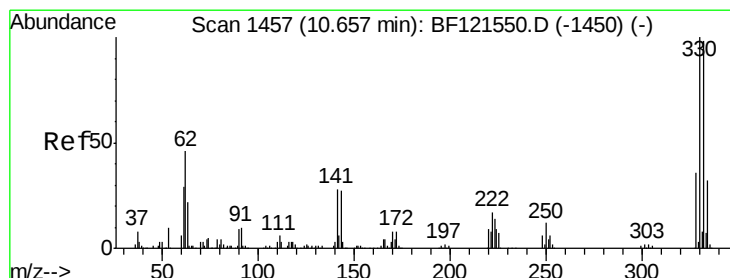
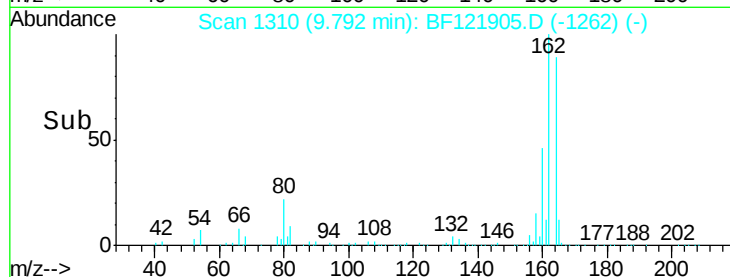
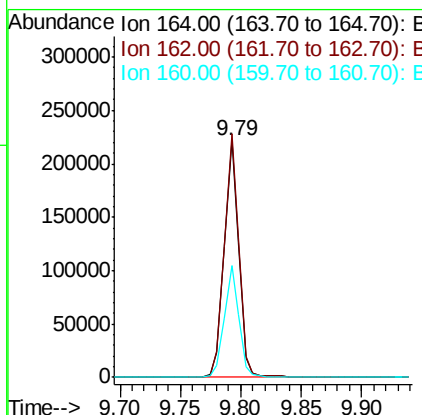
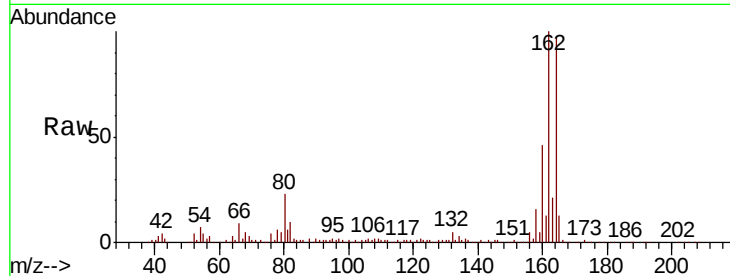
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.79 min Scan# 1310
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.7	83.2	124.8	
160	47.4	37.5	56.3	

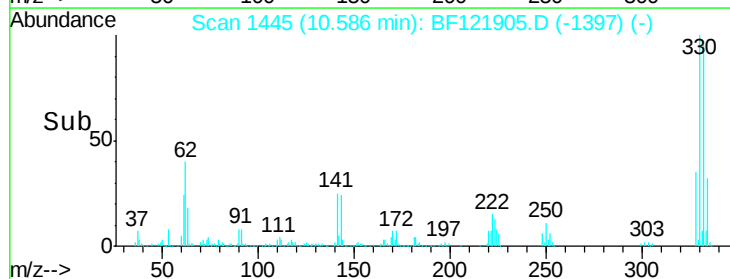
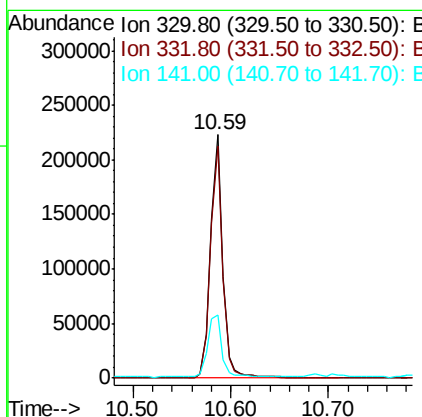
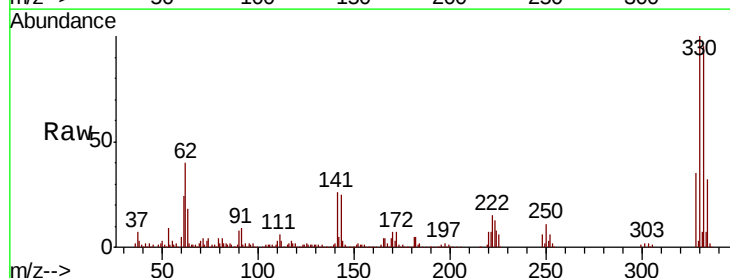
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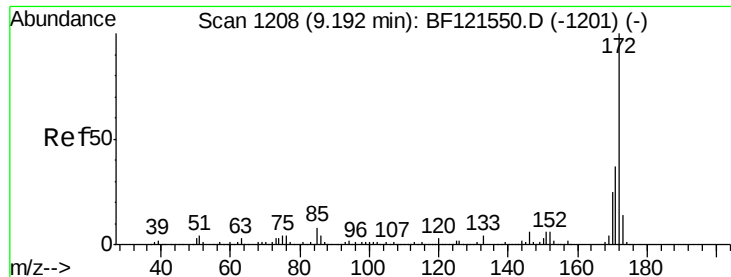
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#42
2,4,6-Tribromophenol
Concen: 84.278 ng
RT: 10.59 min Scan# 1445
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	77.3	115.9	
141	30.1	22.3	33.5	





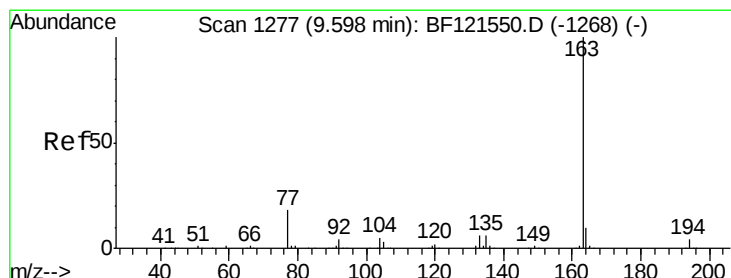
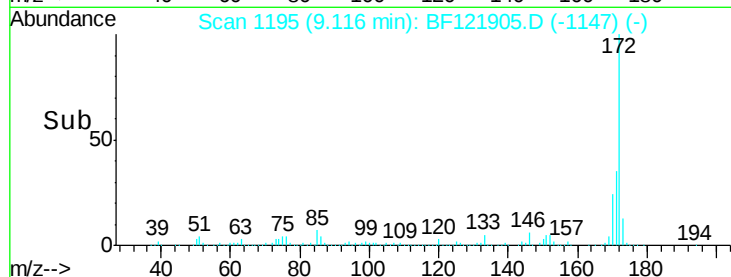
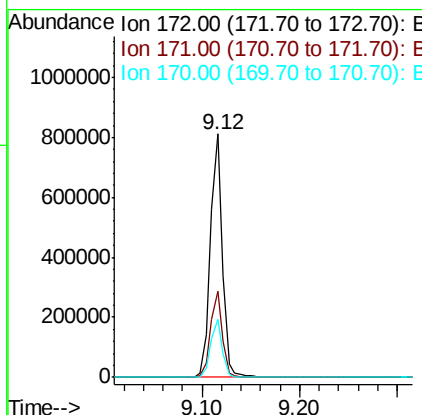
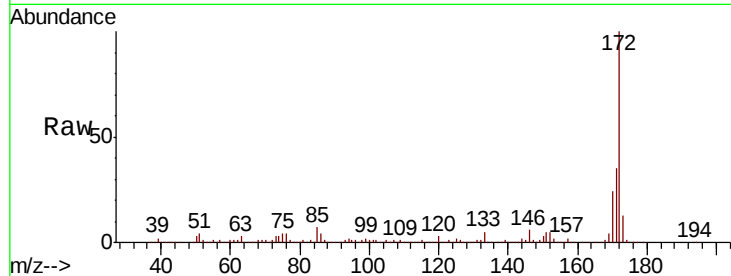
#45
2-Fluorobiphenyl
Concen: 56.244 ng
RT: 9.12 min Scan# 1195
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.1	43.7
170	23.8	19.8	29.6

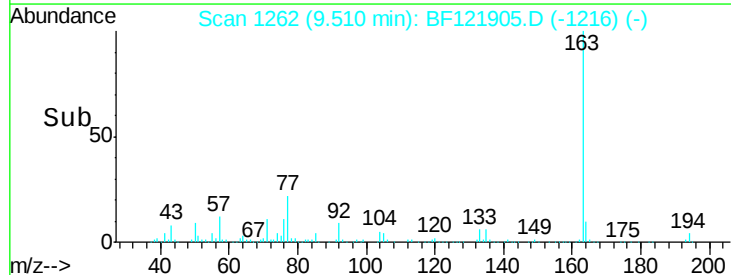
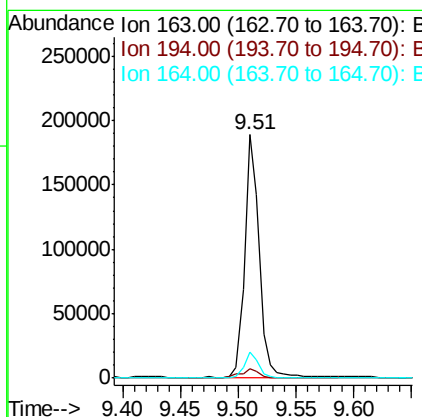
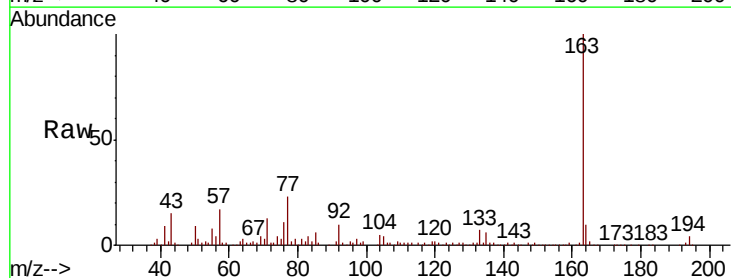
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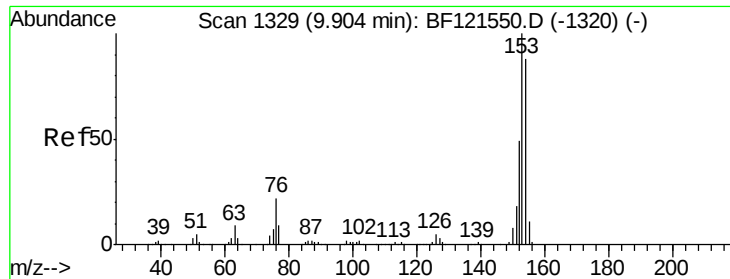
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#50
Dimethylphthalate
Concen: 12.110 ng
RT: 9.51 min Scan# 1262
Delta R.T. -0.03 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.4	8.2	12.4





#52

Acenaphthene

Concen: 5.230 ng

RT: 9.82 min Scan# 1315

Delta R.T. -0.02 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Instrument :

BNA_F

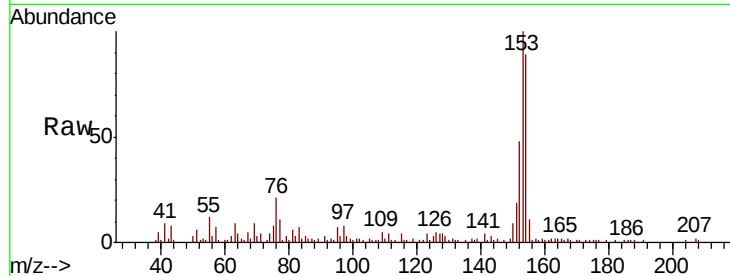
ClientSampleId :

SHELL-L15-L14

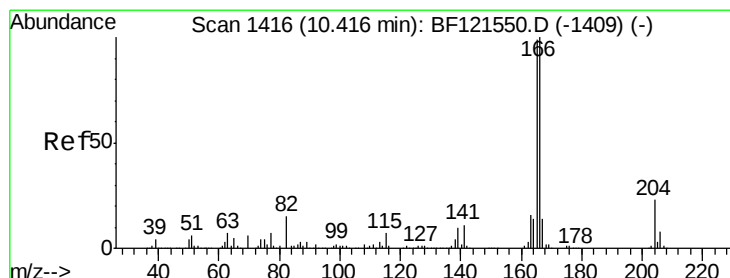
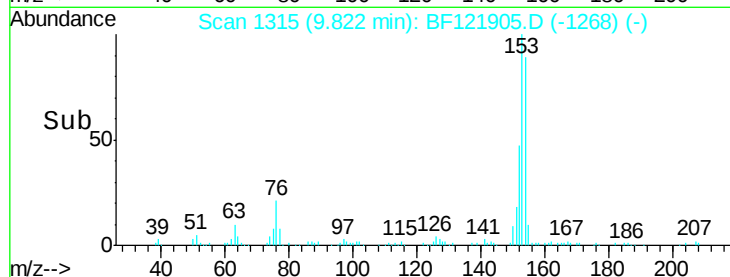
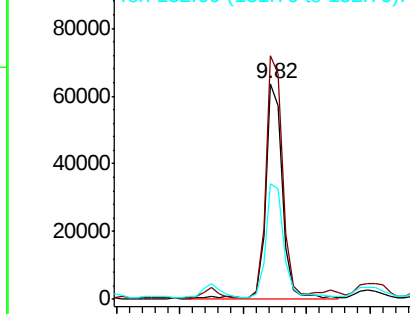
Tot Ion:	154	Resp:	59818
Ion Ratio	Lower	Upper	
154	100		
153	112.7	89.8	134.8
152	53.7	43.2	64.8

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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



#58

Fluorene

Concen: 8.302 ng

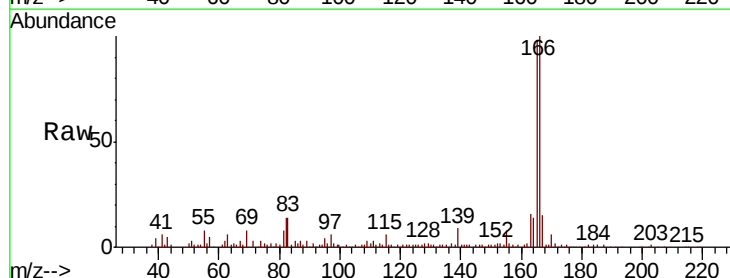
RT: 10.34 min Scan# 1403

Delta R.T. -0.02 min

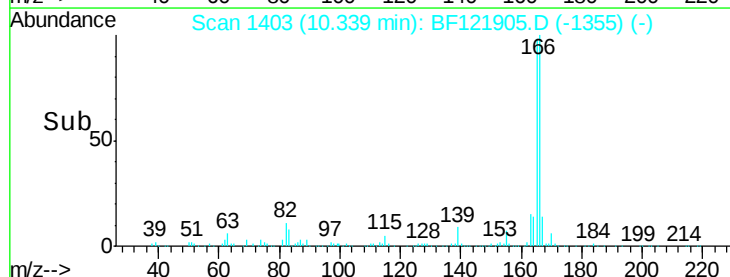
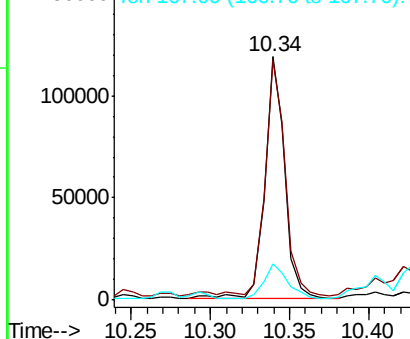
Lab File: BF121905.D

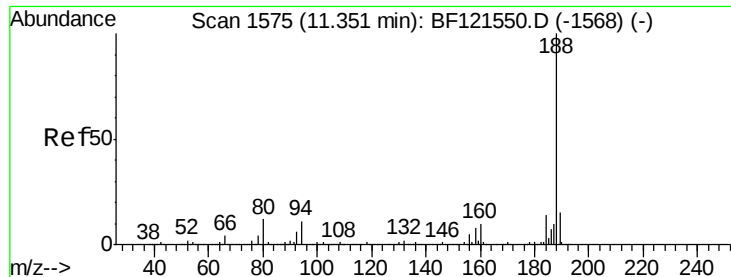
Acq: 9 Oct 2020 14:38

Tgt Ion:	166	Resp:	102265
Ion Ratio	Lower	Upper	
166	100		
165	98.4	79.1	118.7
167	14.8	11.0	16.6



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Instrument :

BNA_F

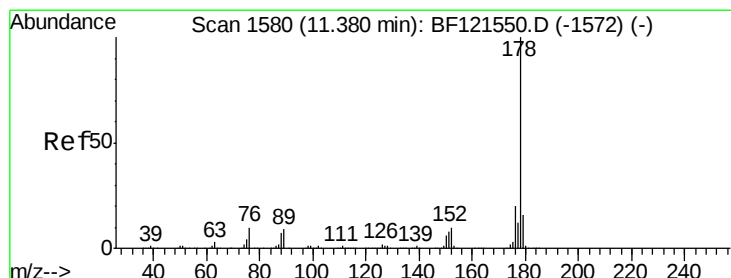
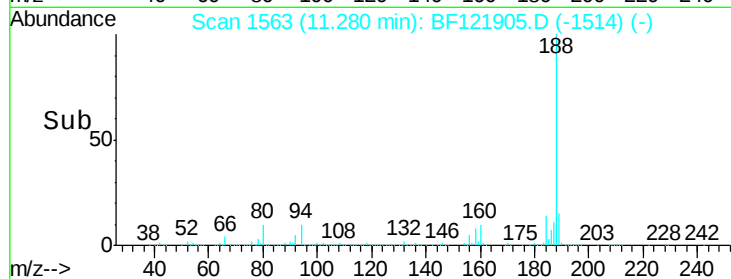
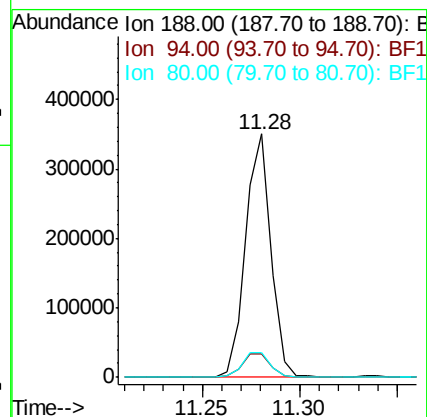
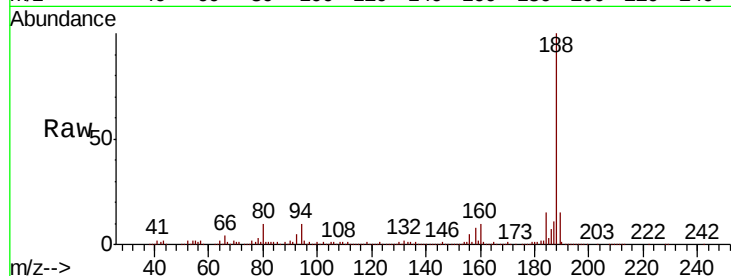
ClientSampleId :

SHELL-L15-L14

Tot Ion:	188	Resp:	314217
Ion Ratio	Lower	Upper	
188	100		
94	9.7	8.3	12.5
80	10.3	9.1	13.7

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#71

Phenanthrene

Concen: 36.626 ng

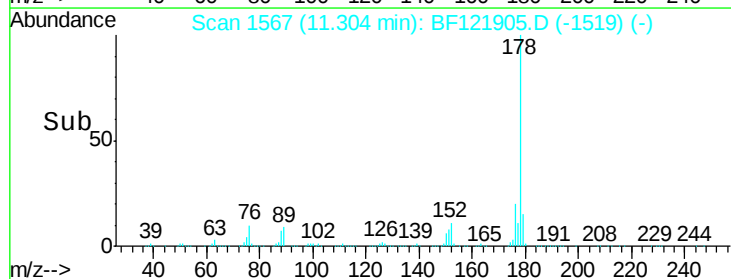
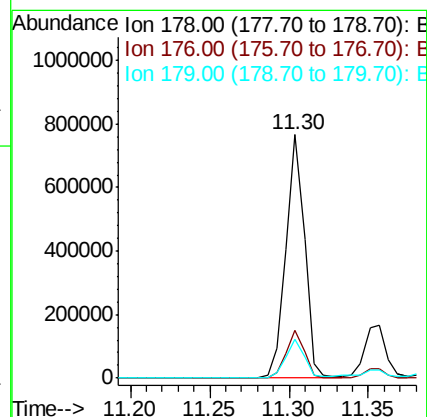
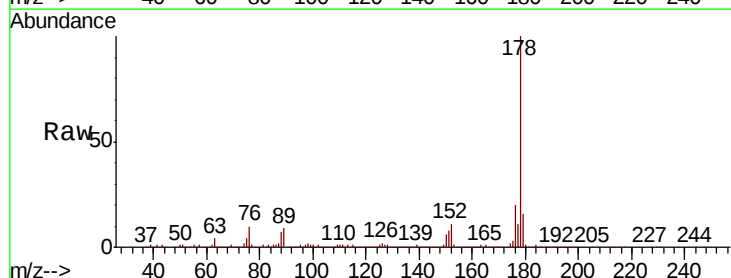
RT: 11.30 min Scan# 1567

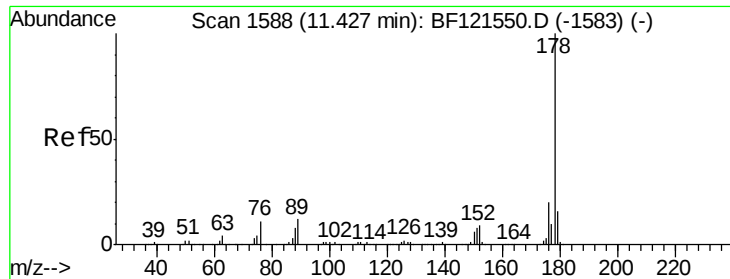
Delta R.T. -0.02 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Tgt Ion:	178	Resp:	627034
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	15.8	12.2	18.4





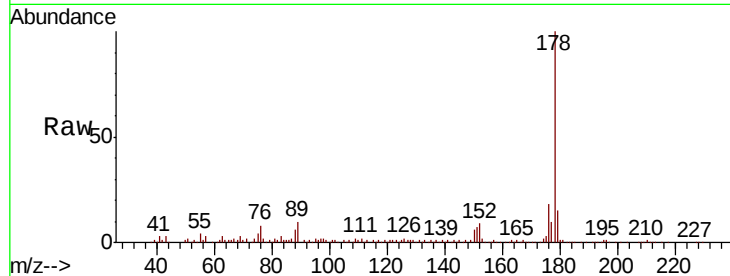
#72
 Anthracene
 Concen: 8.340 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Instrument :
 BNA_F
 ClientSampleId :
 SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.7	23.5
179	15.3	12.7	19.1

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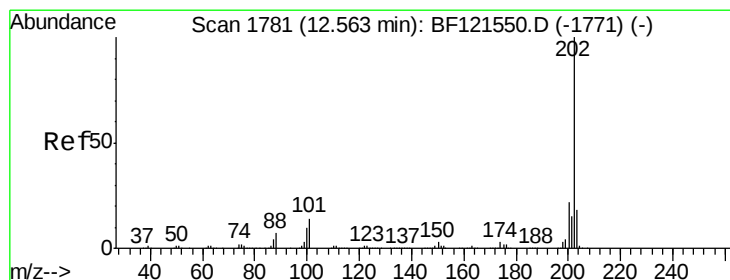
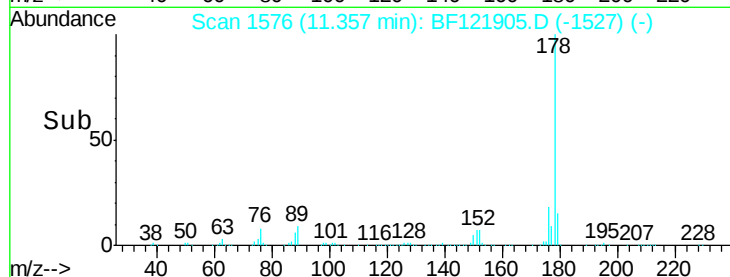
Abundance

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

Time-->



#75
 Fluoranthene
 Concen: 28.709 ng
 RT: 12.49 min Scan# 1769
 Delta R.T. -0.01 min
 Lab File: BF121905.D
 Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.3	0.0	33.4
203	18.1	0.0	37.9

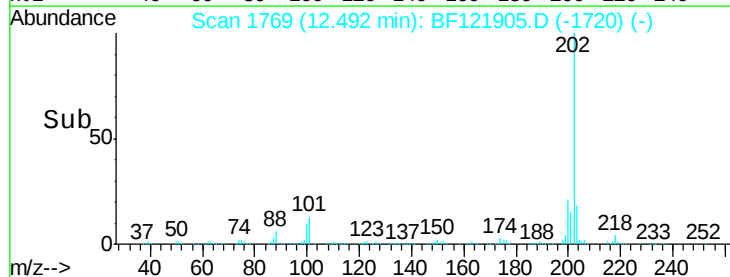
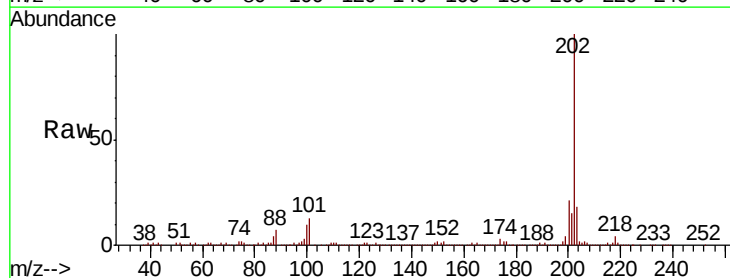
Abundance

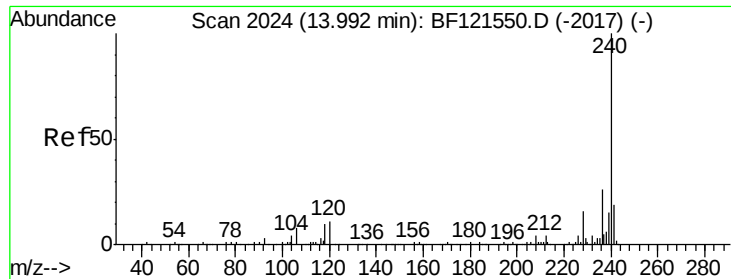
Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

Time-->





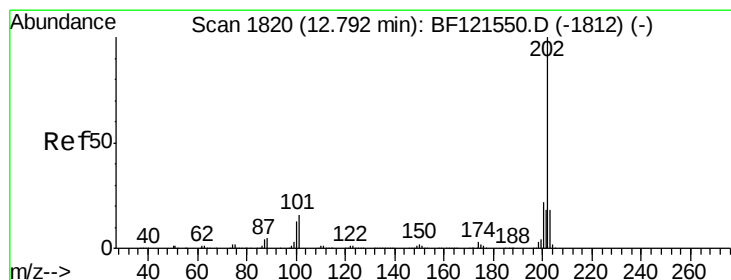
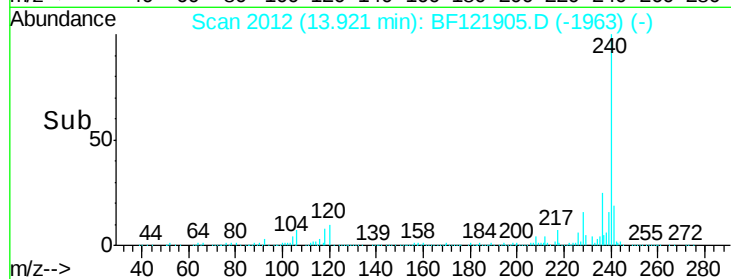
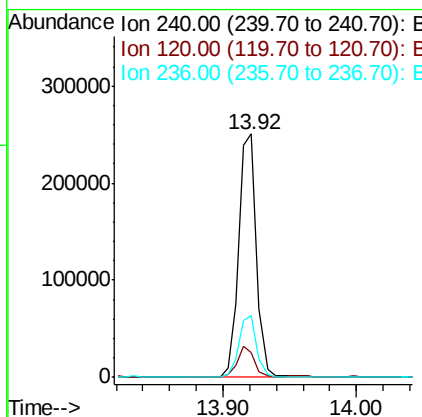
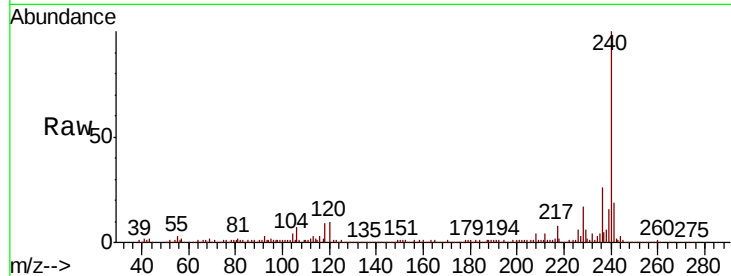
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.0	9.2	13.8
236	25.5	20.9	31.3

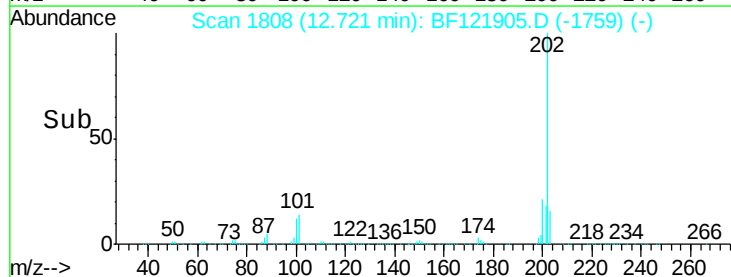
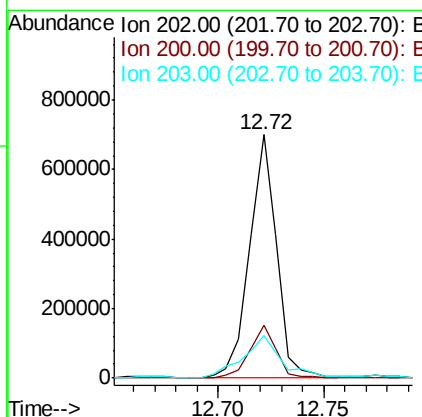
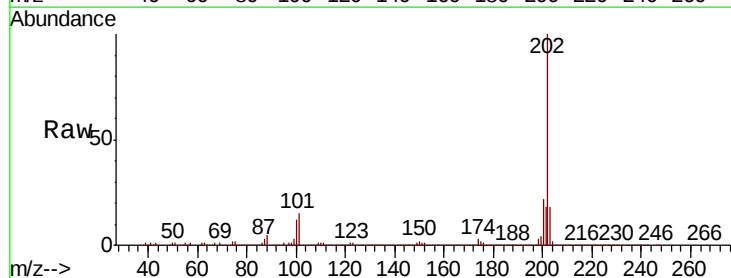
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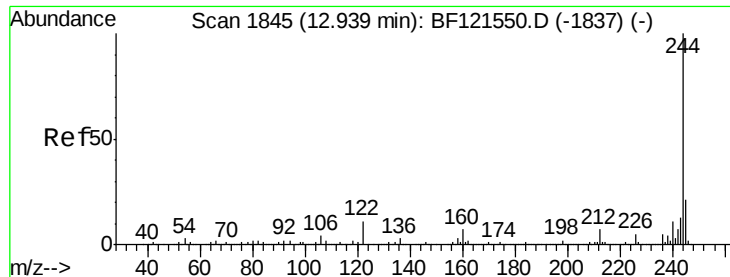
mohammad
10/12/2020 11:33:59 AM



#78
Pyrene
Concen: 36.708 ng
RT: 12.72 min Scan# 1808
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	17.7	14.6	21.8





#79

Terphenyl-d14

Concen: 44.968 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Instrument :

BNA_F

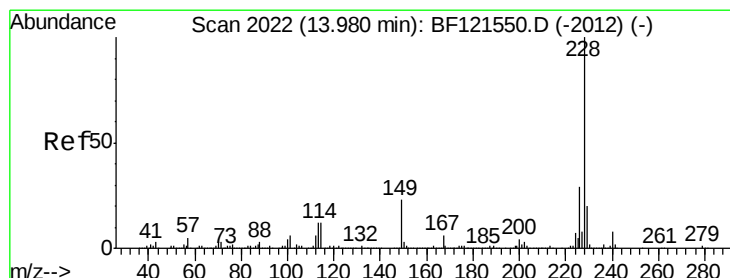
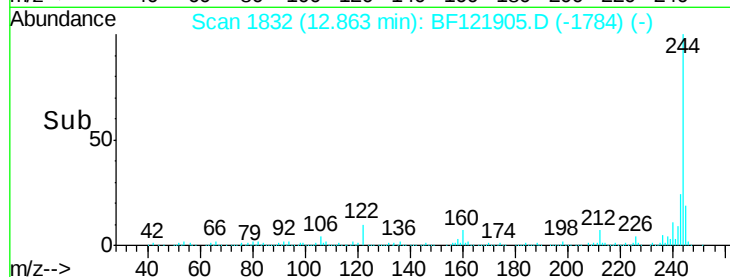
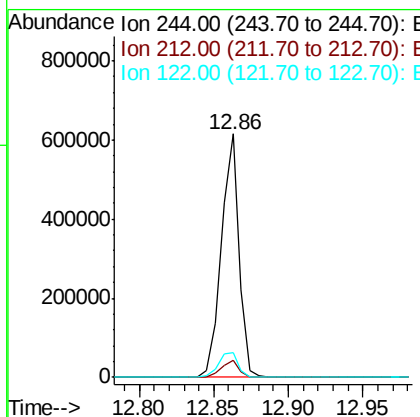
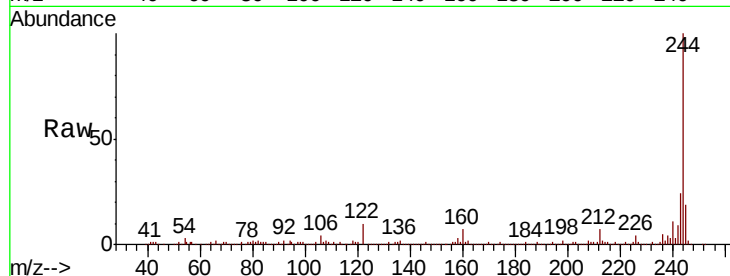
ClientSampleId :

SHELL-L15-L14

Tot Ion:	244	Resp:	516858
Ion Ratio		Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.4	8.1	12.1

Manual Integrations
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#81

Benzo(a)anthracene

Concen: 17.416 ng

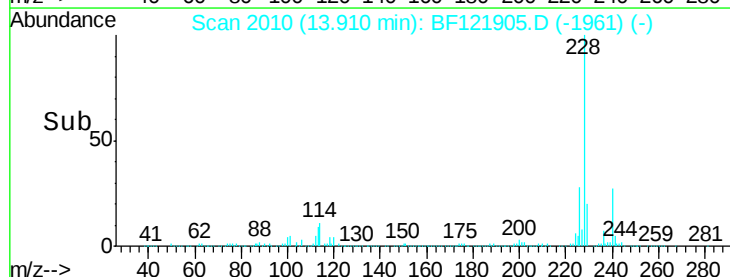
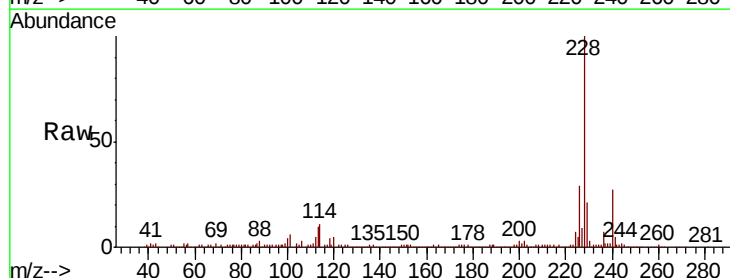
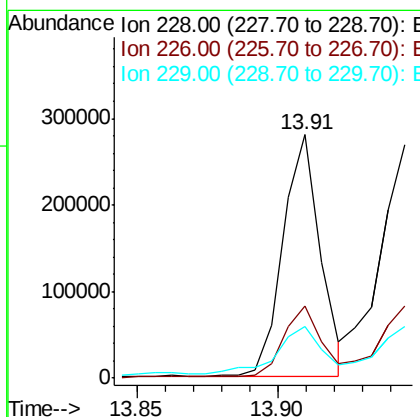
RT: 13.91 min Scan# 2010

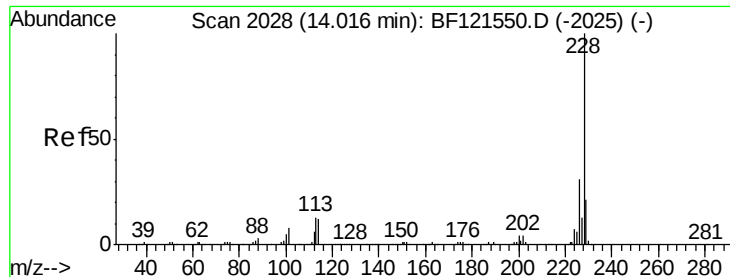
Delta R.T. -0.01 min

Lab File: BF121905.D

Acq: 9 Oct 2020 14:38

Tgt Ion:	228	Resp:	256556
Ion Ratio		Lower	Upper
228	100		
226	29.4	22.3	33.5
229	21.4	16.2	24.4





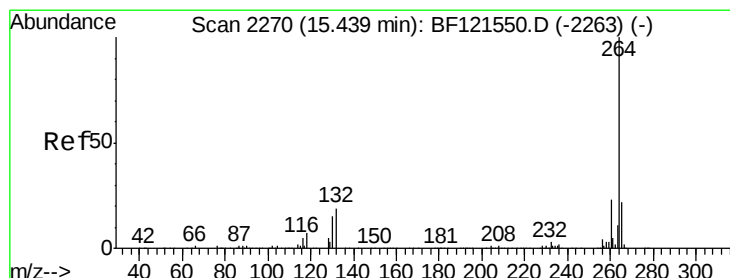
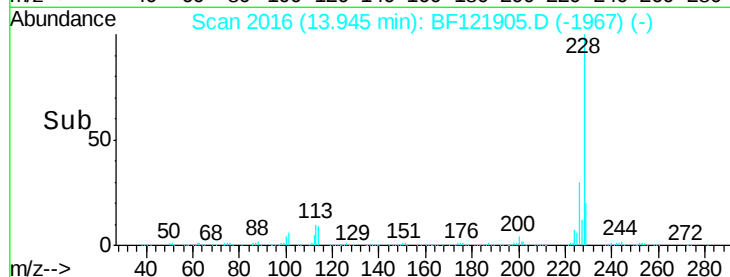
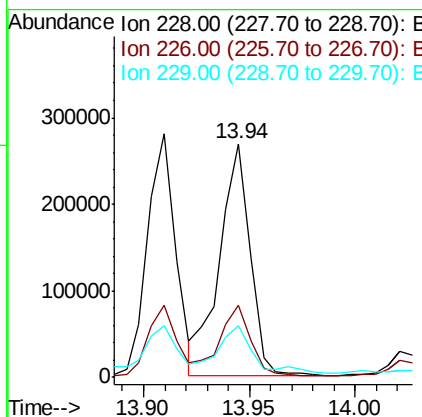
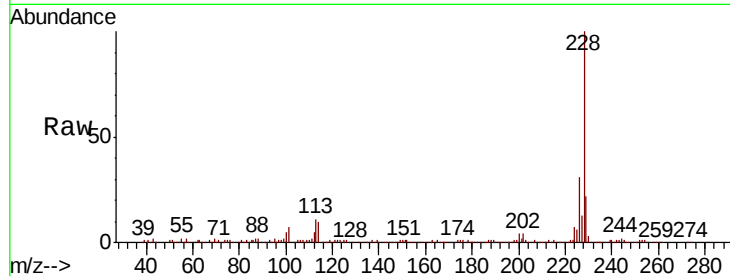
#83
Chrysene
Concen: 18.098 ng
RT: 13.94 min Scan# 2016
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	22.3	15.9	23.9

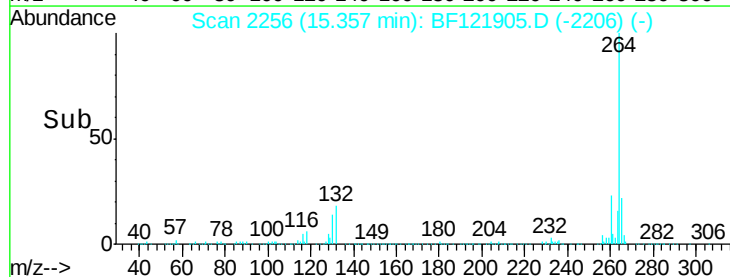
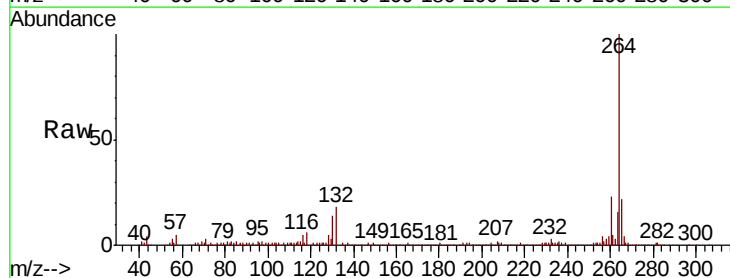
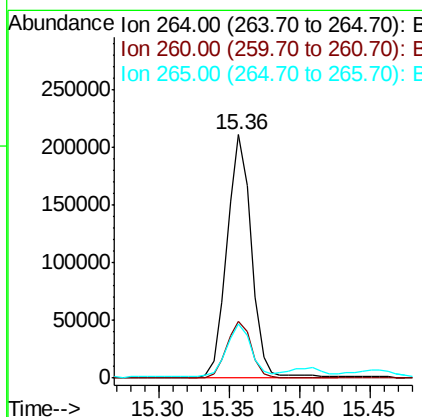
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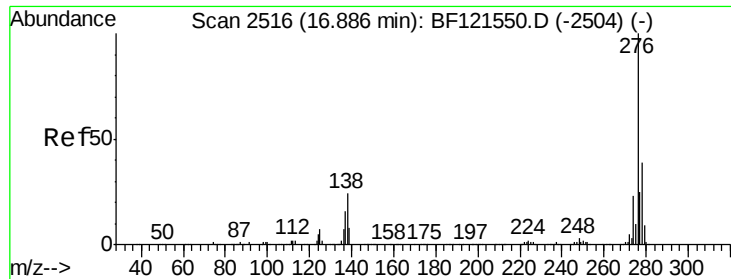
mohammad
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#86
Perylene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	22.4	17.3	25.9





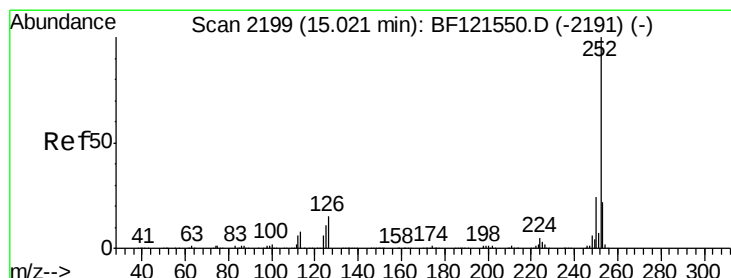
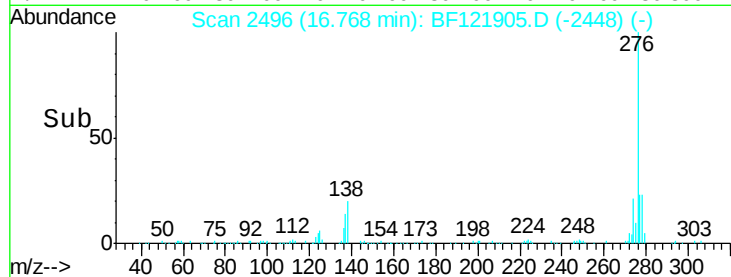
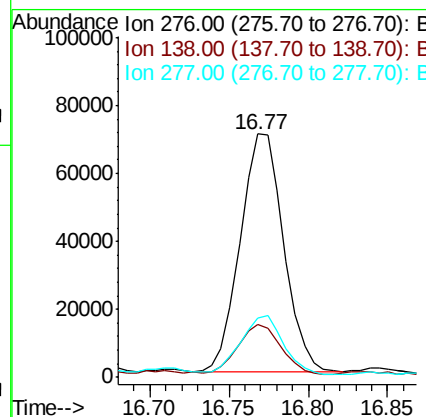
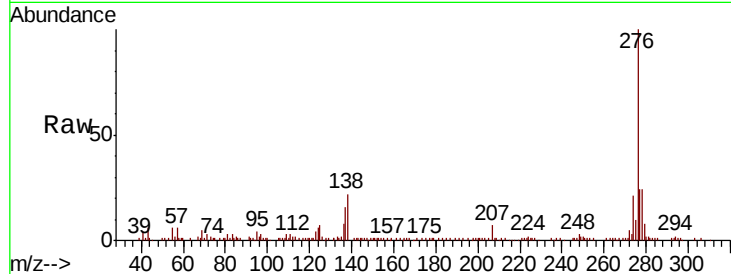
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.178 ng
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.9	29.9
277	24.8	20.4	30.6

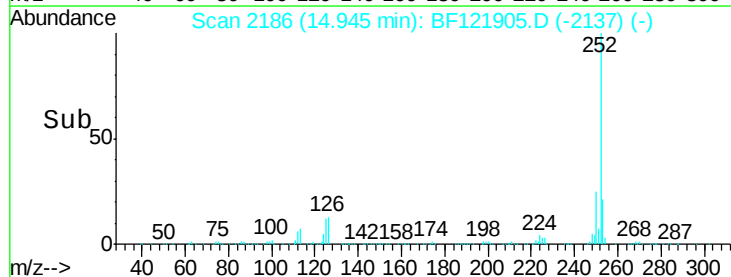
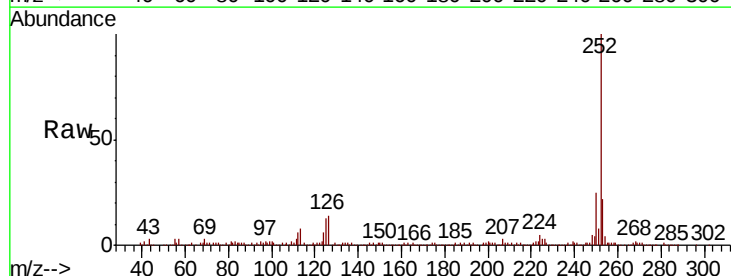
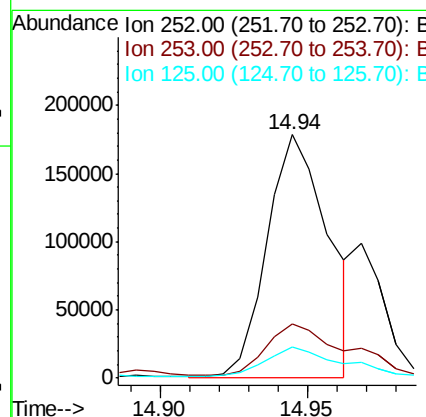
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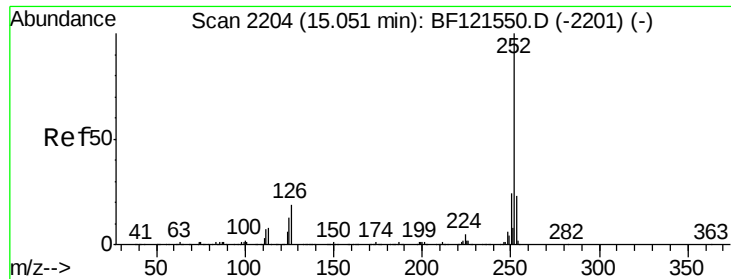
mohammad
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#88
Benzo(b)fluoranthene
Concen: 15.557 ng m
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.2	27.2
125	12.8	8.0	12.0#





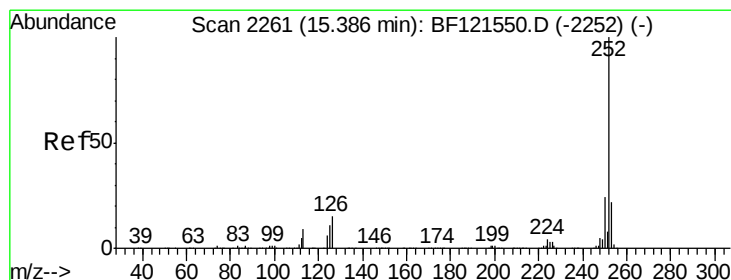
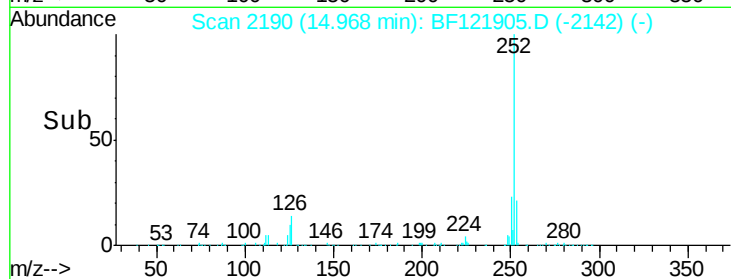
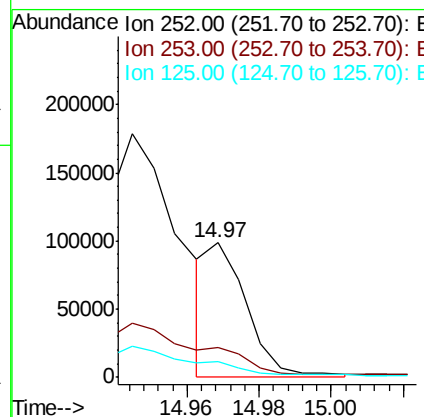
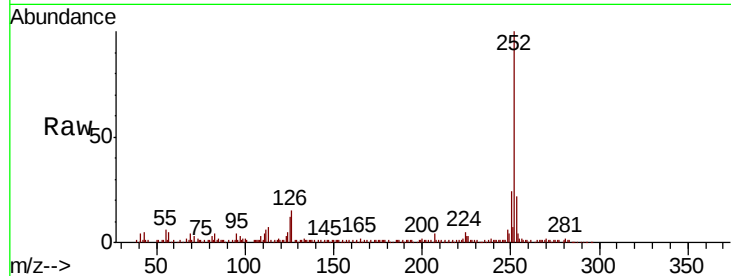
#89
Benzo(k)fluoranthene
Concen: 4.861 ng m
RT: 14.97 min Scan# 2190
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.6
125	11.9	7.7	11.5

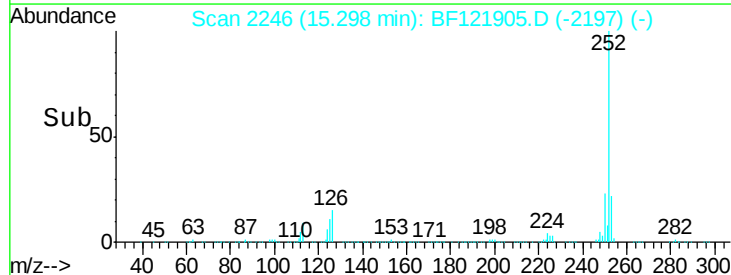
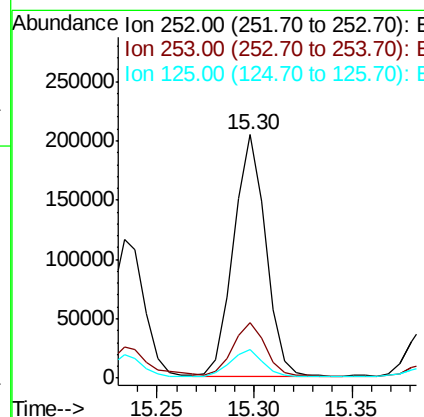
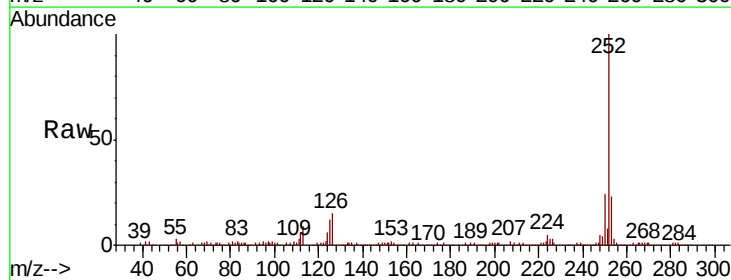
Manual Integrations
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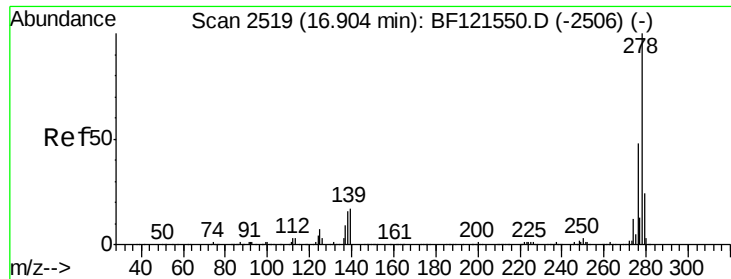
mohammad
10/12/2020 11:33:59 AM



#90
Benzo(a)pyrene
Concen: 16.491 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	11.7	8.6	13.0





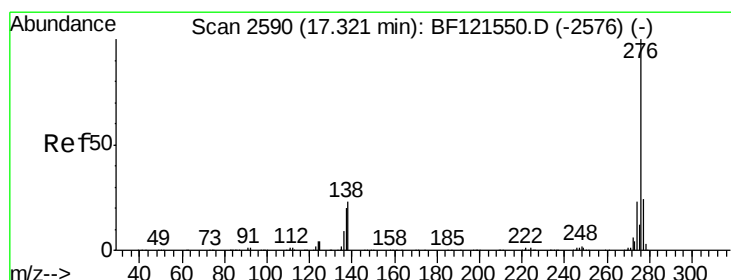
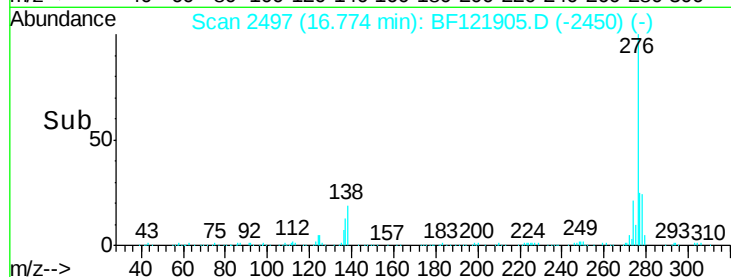
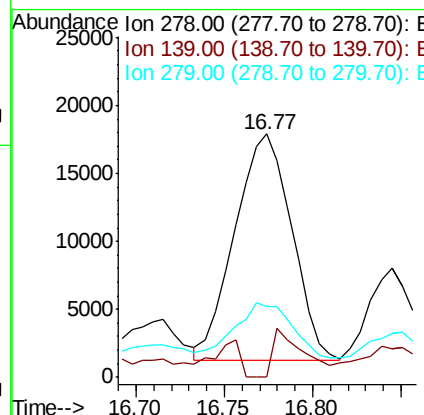
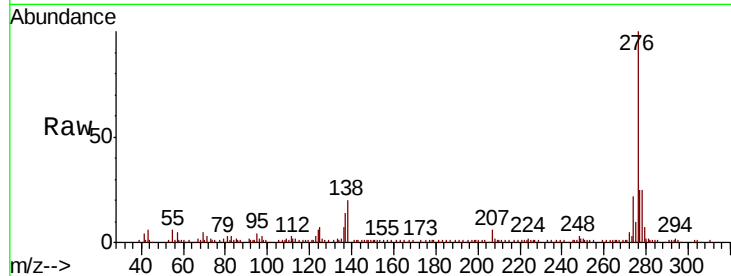
#91
Dibenzo(a,h)anthracene
Concen: 2.769 ng m
RT: 16.77 min Scan# 2497
Delta R.T. -0.02 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Instrument :
BNA_F
ClientSampleId :
SHELL-L15-L14

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.0	19.4#
279	28.9	19.0	28.4#

Manual Integrations
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mohammad
10/12/2020 11:33:59 AM



#92
Benzo(g,h,i)perylene
Concen: 10.427 ng
RT: 17.20 min Scan# 2569
Delta R.T. -0.01 min
Lab File: BF121905.D
Acq: 9 Oct 2020 14:38

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.4	29.2
138	21.8	17.8	26.6

