

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013019\
 Data File : BF112326.D
 Acq On : 30 Jan 2019 17:18
 Operator : JU/SJ
 Sample : K1282-21
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Manual Integrations
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mohammad
 2/1/2019 12:06:26 AM

Quant Time: Jan 31 00:31:01 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	164806	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	619224	20.00	ng	0.00
39) Acenaphthene-d10	9.87	164	281058	20.00	ng	-0.01
64) Phenanthrene-d10	11.36	188	475181	20.00	ng	0.00
76) Chrysene-d12	14.00	240	351119	20.00	ng	0.00
87) Perylene-d12	15.47	264	347945	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	911157	117.43	ng	0.00
7) Phenol-d6	6.49	99	1123655	104.22	ng	0.00
23) Nitrobenzene-d5	7.40	82	709635	66.03	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	290097	88.68	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	1219336	61.36	ng	-0.01
79) Terphenyl-d14	12.94	244	895661	48.04	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.50	94	28523	2.411	ng	82
31) Naphthalene	8.14	128	162798	5.622	ng	96
37) 2-Methylnaphthalene	8.83	142	62270	3.141	ng	98
38) 1-Methylnaphthalene	8.83	142	62270	3.277	ng	96
49) Acenaphthylene	9.73	152	105666	3.784	ng	99
50) Dimethylphthalate	9.59	163	99175	4.542	ng	97
52) Acenaphthene	9.90	154	73222	4.389	ng	98
55) Dibenzofuran	10.08	168	110395	4.330	ng	97
58) Fluorene	10.42	166	136684	7.164	ng	99
71) Phenanthrene	11.39	178	1367018	55.336	ng	99
72) Anthracene	11.43	178	313968	12.759	ng	98
73) Carbazole	11.59	167	116606	4.804	ng	99
75) Fluoranthene	12.58	202	1442752	54.451	ng	99
78) Pyrene	12.81	202	1202160	49.452	ng	98
81) Benzo(a)anthracene	13.99	228	626783	30.367	ng	98
83) Chrysene	14.03	228	537078	27.259	ng	97
86) Indeno(1,2,3-cd)pyrene	16.94	276	237689	15.225	ng	# 92
88) Benzo(b)fluoranthene	15.04	252	655688m	31.510	ng	
89) Benzo(k)fluoranthene	15.07	252	214155m	10.744	ng	
90) Benzo(a)pyrene	15.41	252	458047	24.464	ng	97
91) Dibenzo(a,h)anthracene	16.94	278	64489m	4.274	ng	
92) Benzo(g,h,i)perylene	17.39	276	209484	14.714	ng	97

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

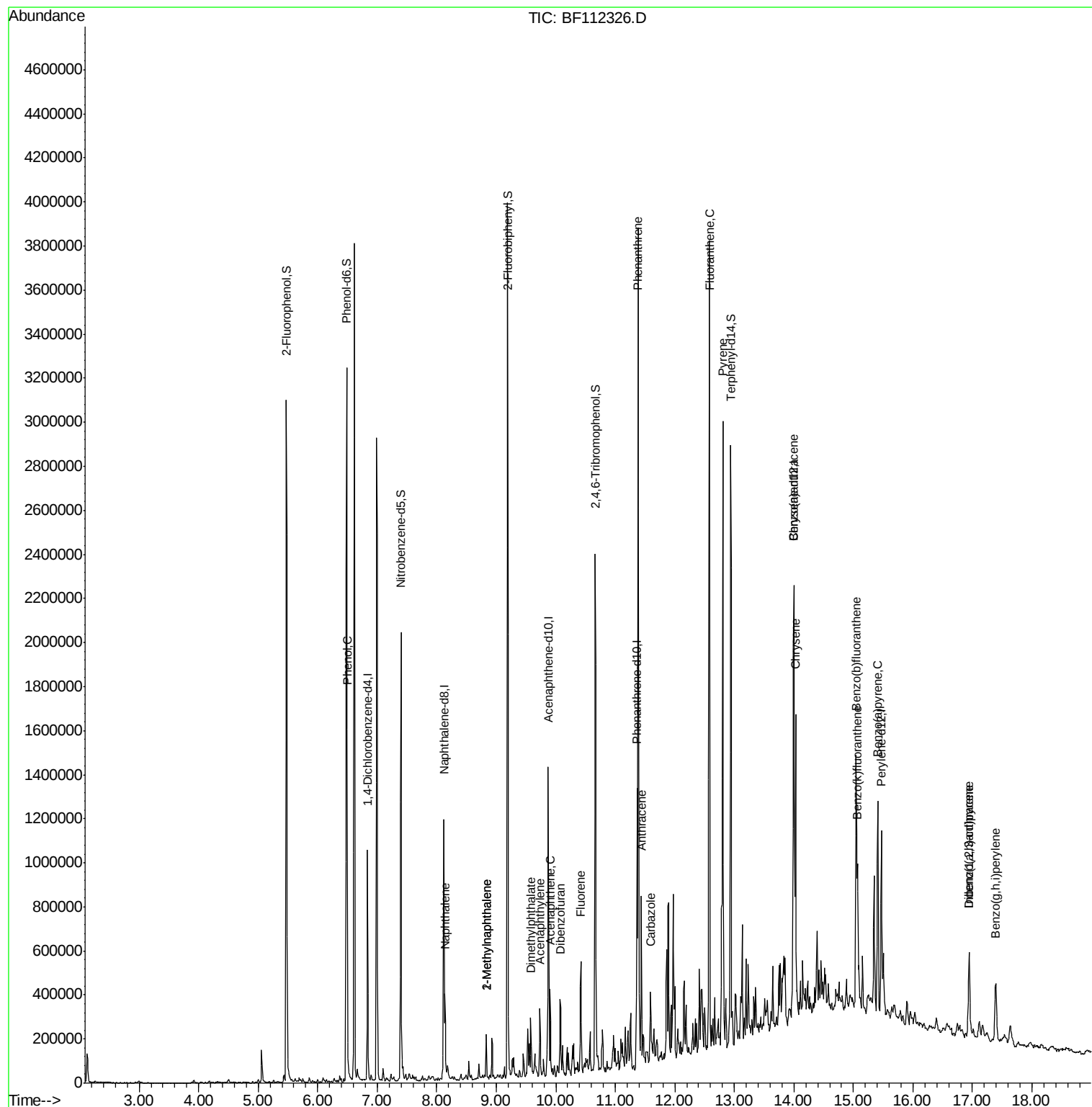
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013019\
Data File : BF112326.D
Acq On : 30 Jan 2019 17:18
Operator : JU/SJ
Sample : K1282-21
Misc :
ALS Vial : 8 Sample Multiplier: 1

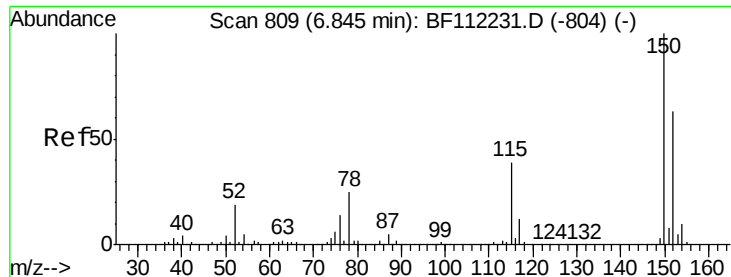
Instrument :
BNA_F
ClientSampleId :
TP-6

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Quant Time: Jan 31 00:31:01 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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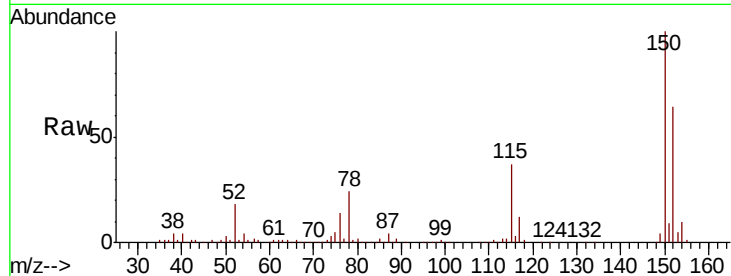
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.84 min Scan# 808
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.4	191.0
115	58.5	45.5	68.3

Manual Integrations
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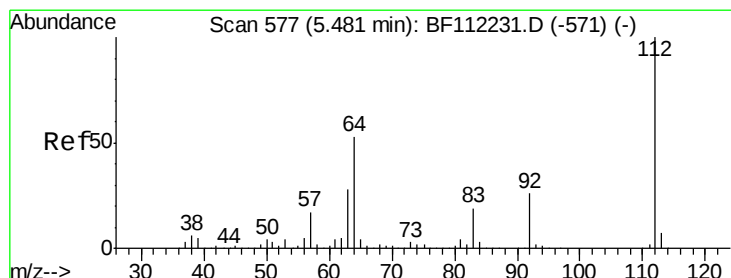
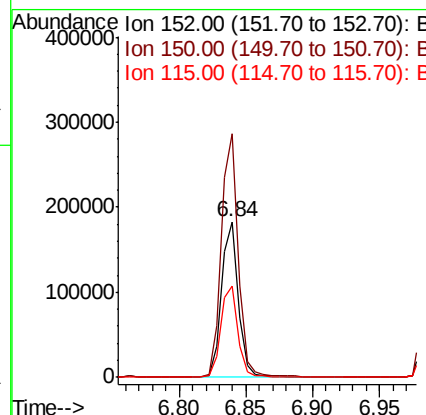
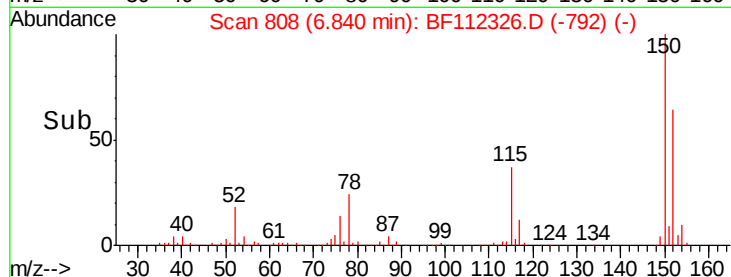


Abundance

Ion 152.00 (151.70 to 152.70): E

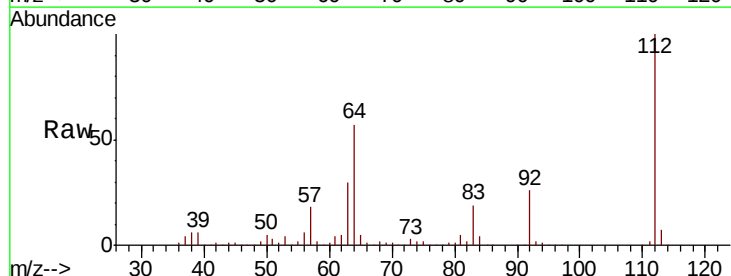
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 117.432 ng
 RT: 5.47 min Scan# 576
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.2	45.7	68.5
63	30.4	23.6	35.4

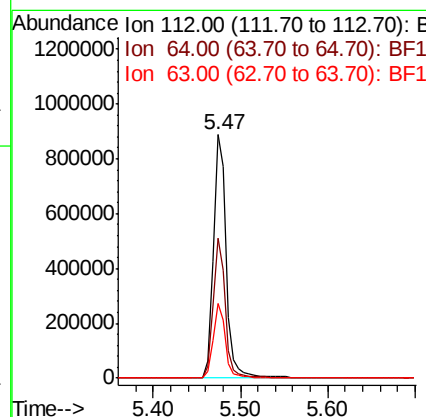
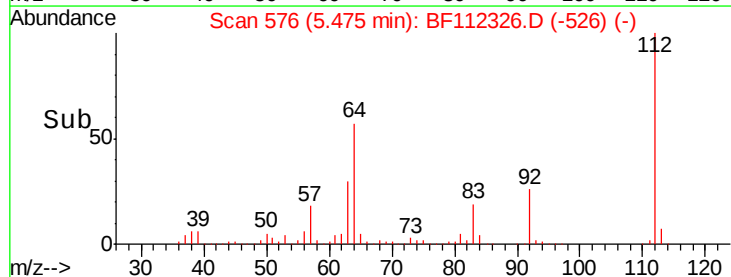


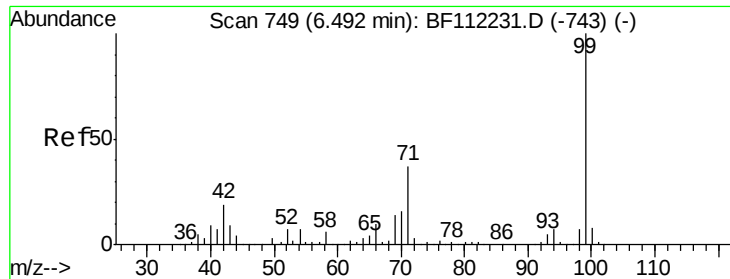
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 104.221 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

Instrument :

BNA_F

ClientSampled :

TP-6

Tot Ion: 99 Resp: 1123655

Ion Ratio Lower Upper

99 100

42 18.9 15.1 22.7

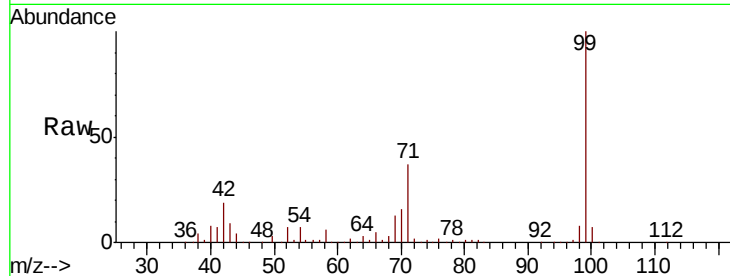
71 36.6 26.9 40.3

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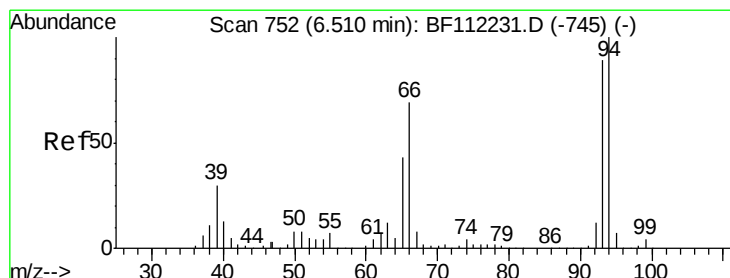
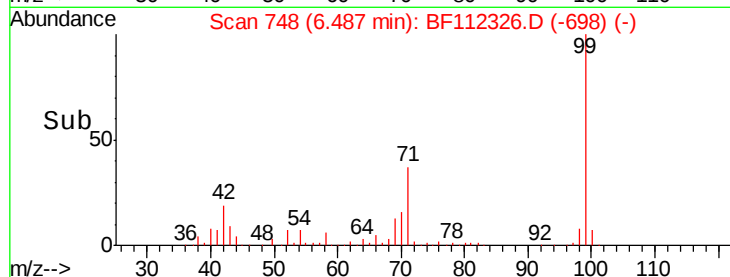
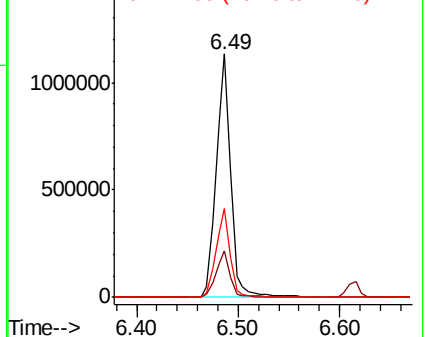
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.411 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

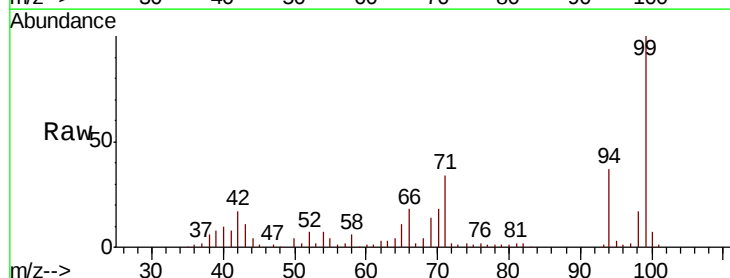
Tgt Ion: 94 Resp: 28523

Ion Ratio Lower Upper

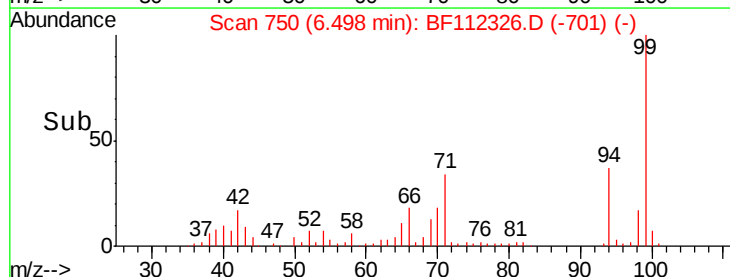
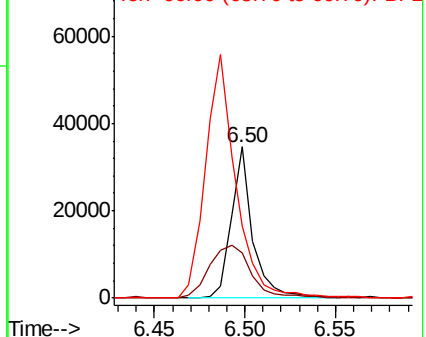
94 100

65 30.4 20.3 60.3

66 47.9 42.4 82.4



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





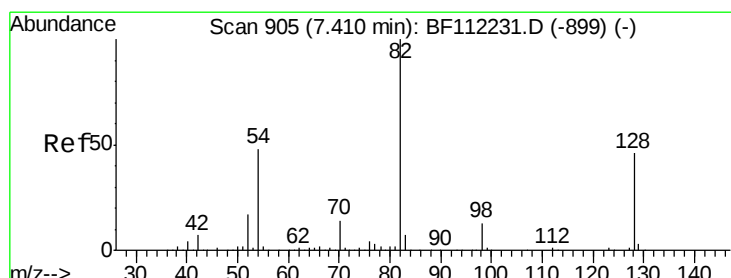
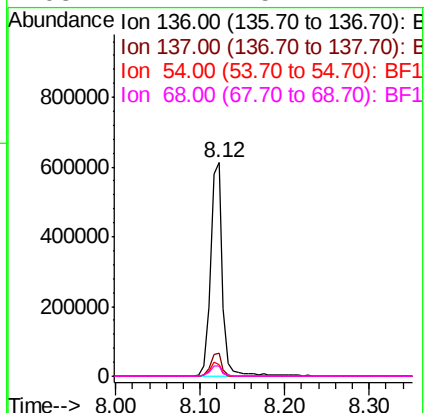
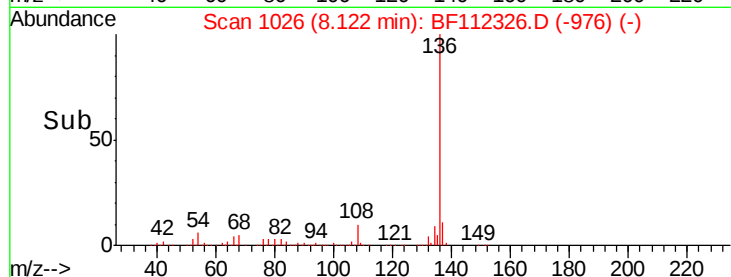
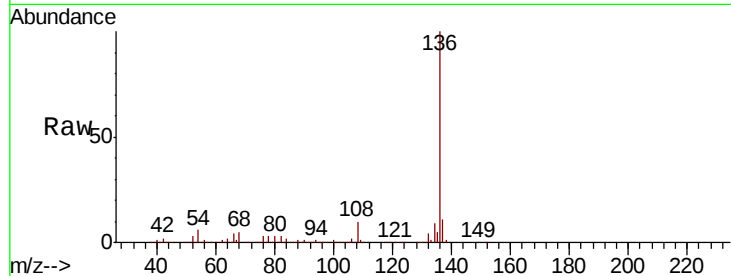
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Resp	Lower	Upper
136	100	619224		
137	10.6	9.1	13.7	
54	5.7	5.9	8.9#	
68	4.7	5.1	7.7#	

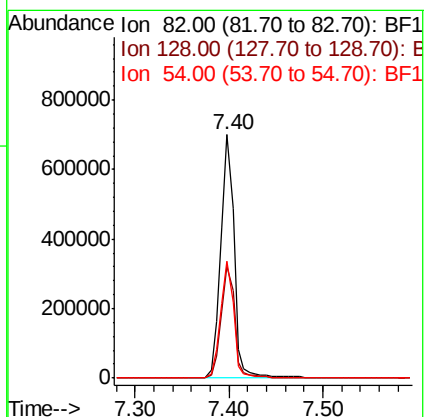
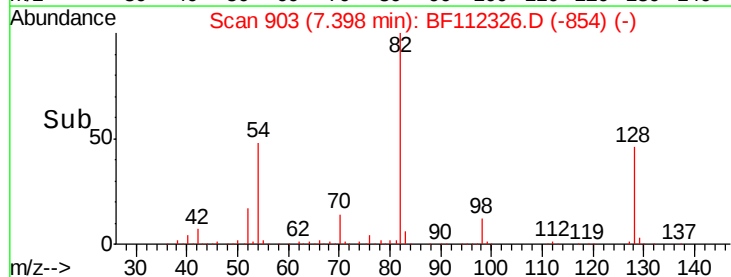
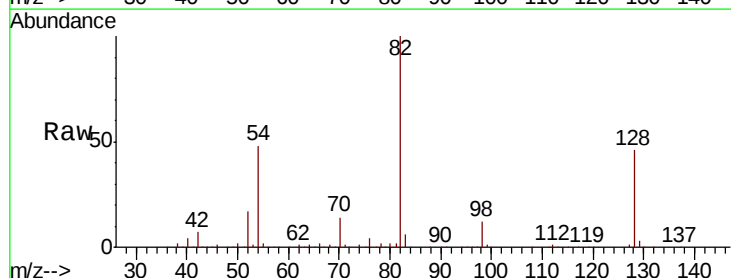
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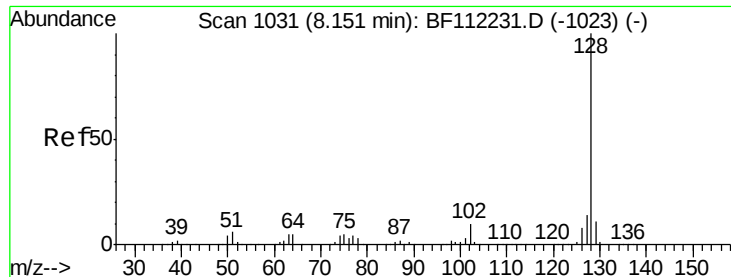
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#23
Nitrobenzene-d5
Concen: 66.033 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	709635		
128	45.9	37.8	56.8	
54	48.0	39.7	59.5	





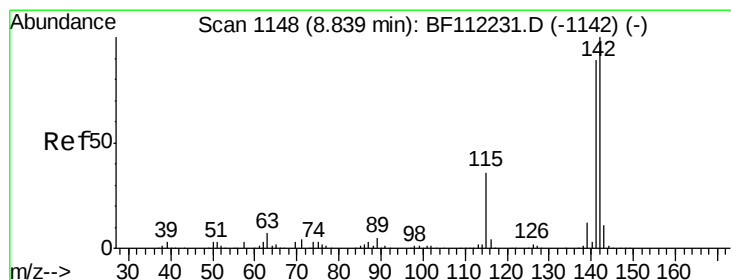
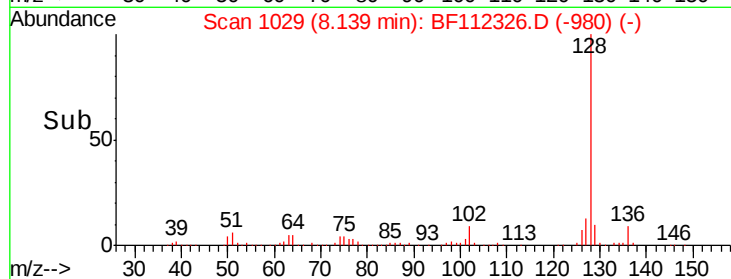
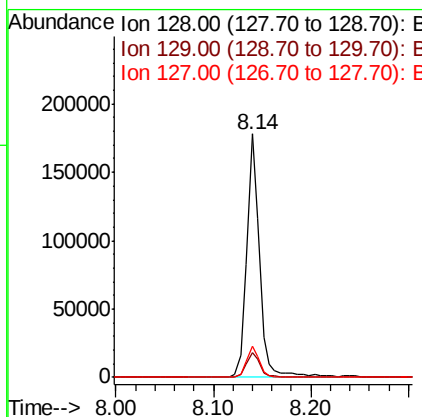
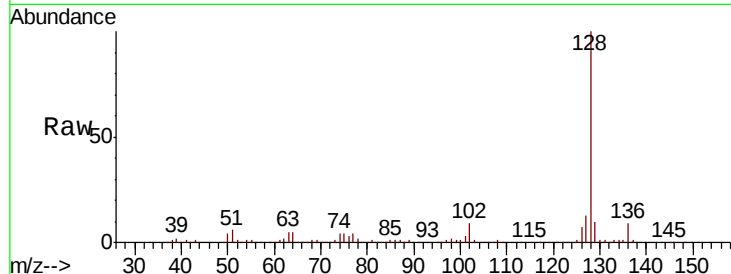
#31
Naphthalene
Concen: 5.622 ng
RT: 8.14 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.3	9.6	14.4
127	12.7	11.1	16.7

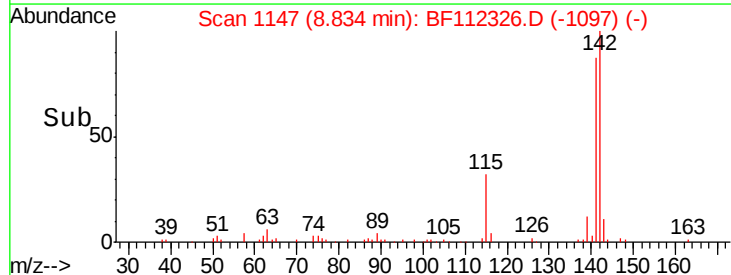
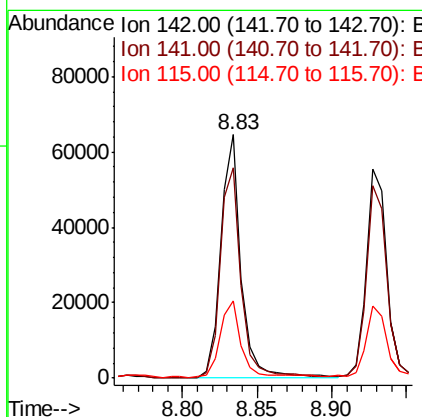
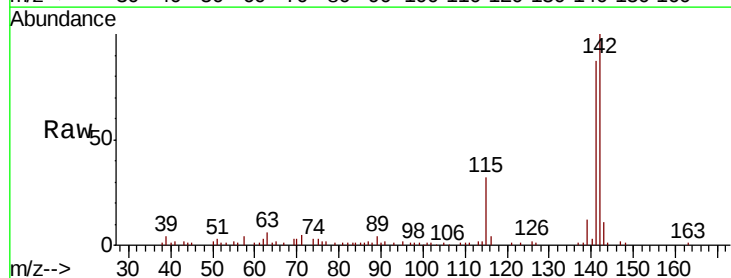
Manual Integrations
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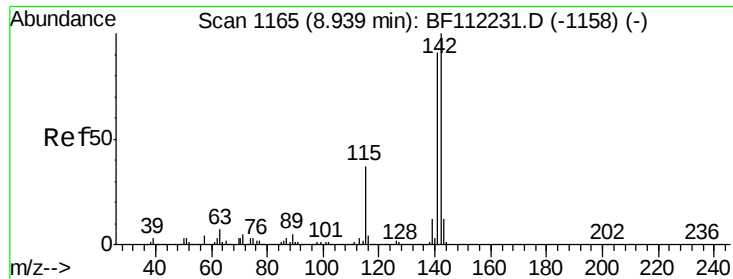
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#37
2-Methylnaphthalene
Concen: 3.141 ng
RT: 8.83 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.9	106.3
115	31.7	24.9	37.3





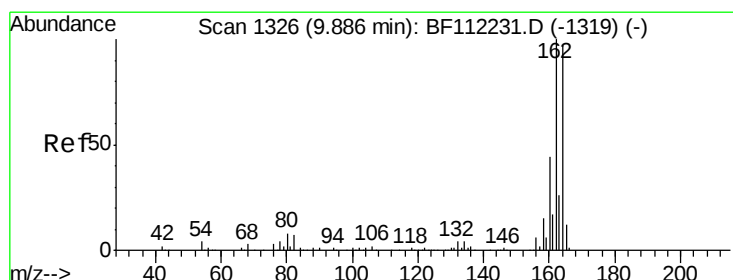
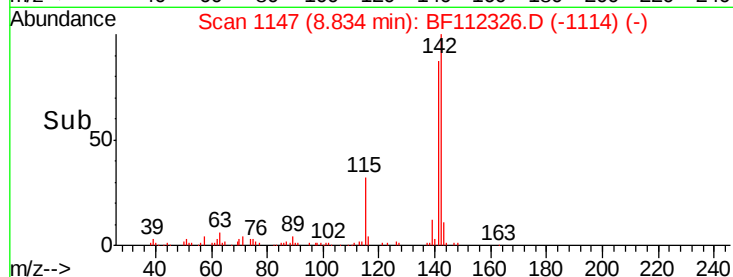
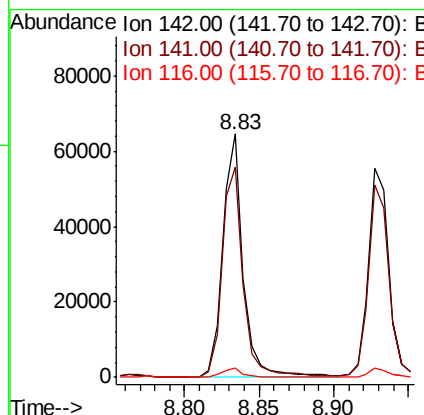
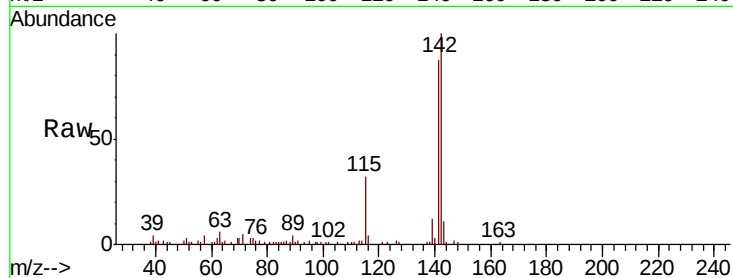
#38
1-Methylnaphthalene
Concen: 3.277 ng
RT: 8.83 min Scan# 1147
Delta R.T. -0.11 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	72.6	108.8
116	4.1	2.8	4.2

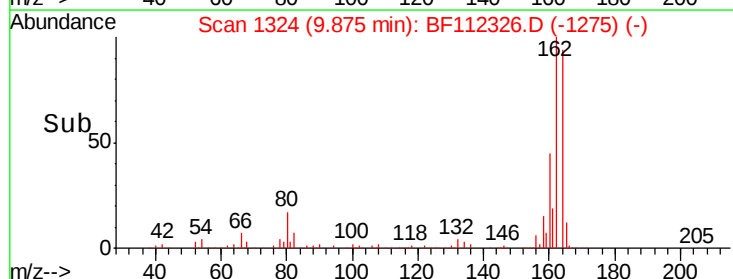
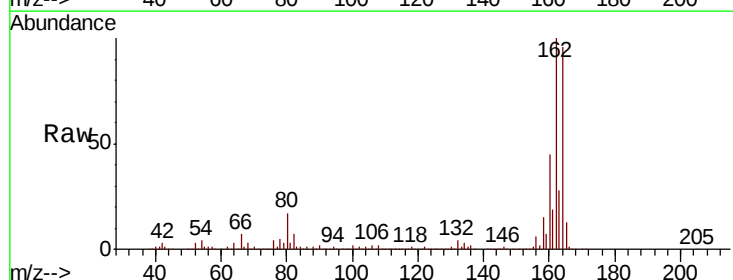
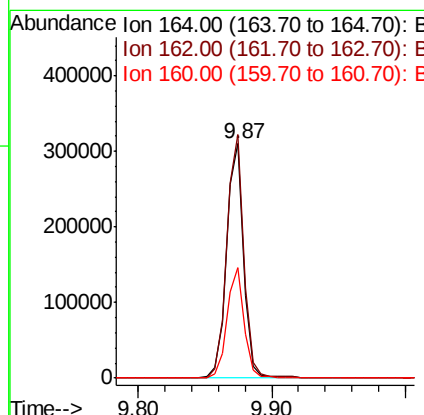
Manual Integrations
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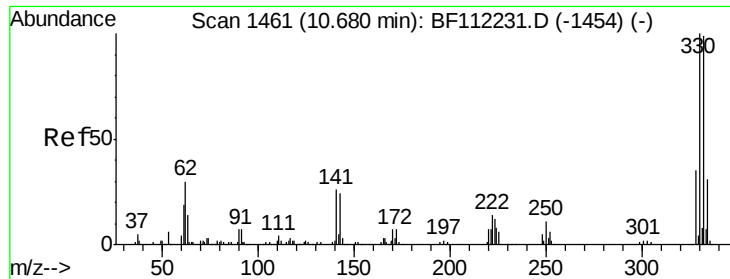
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.4
160	47.0	36.2	54.4





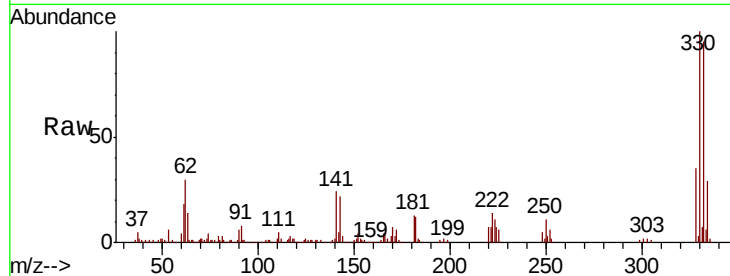
#42
 2,4,6-Tribromophenol
 Concen: 88.676 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Tot Ion	Ratio	Resp	Lower	Upper
330	100	290097		
332	93.8	76.6	114.8	
141	31.9	24.3	36.5	

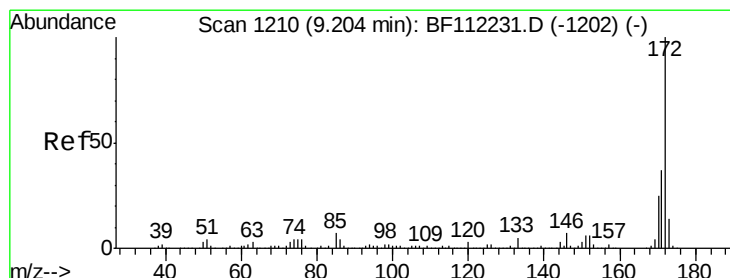
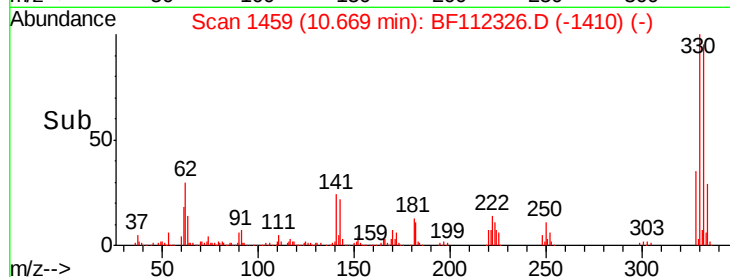
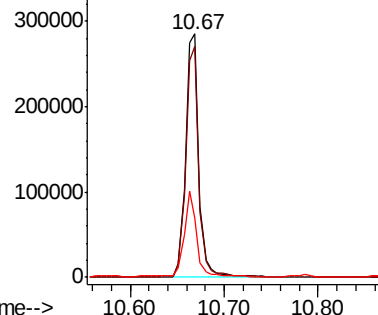
Manual Integrations
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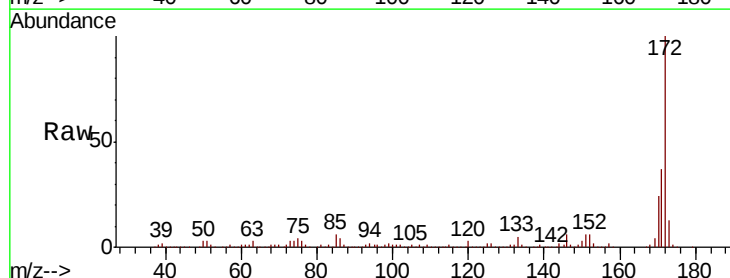
Abundance

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



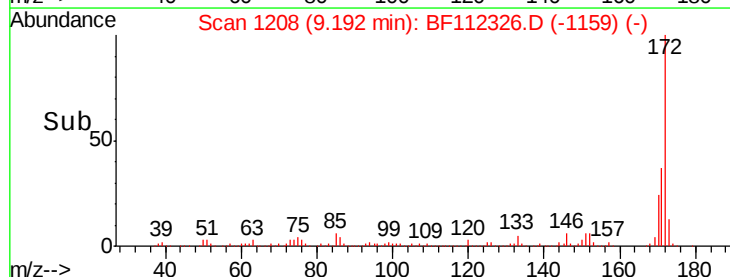
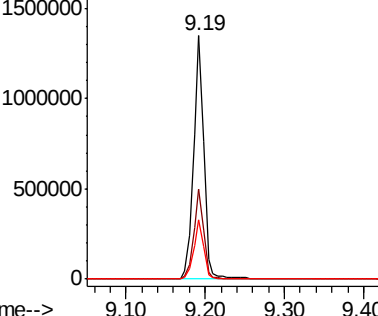
#45
 2-Fluorobiphenyl
 Concen: 61.359 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

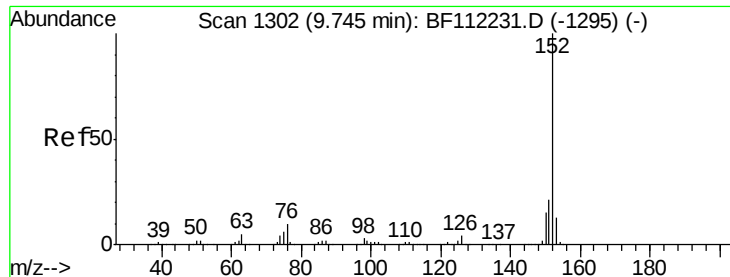
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1219336		
171	36.8	30.5	45.7	
170	24.2	20.2	30.4	



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





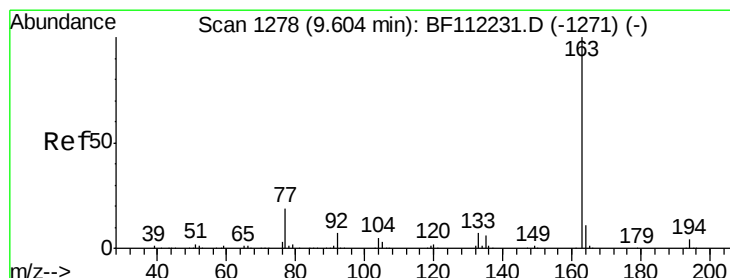
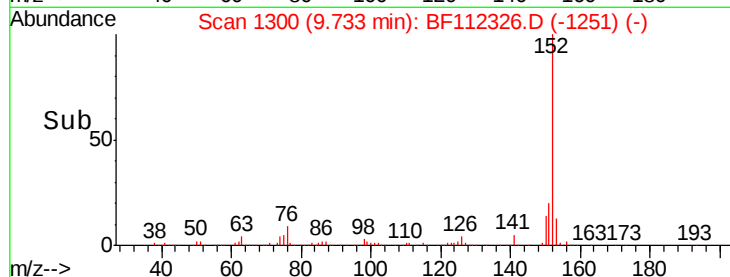
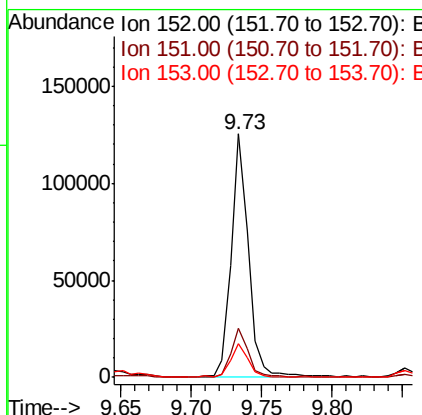
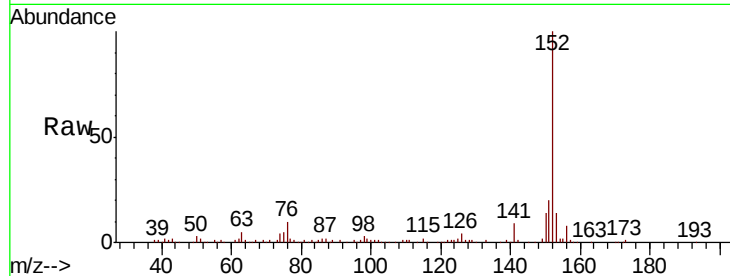
#49
Acenaphthylene
Concen: 3.784 ng
RT: 9.73 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Resp	Lower	Upper
152	100	105666		
151	20.4		17.0	25.6
153	13.8		11.2	16.8

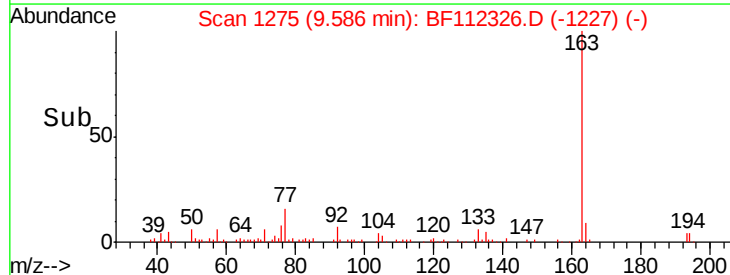
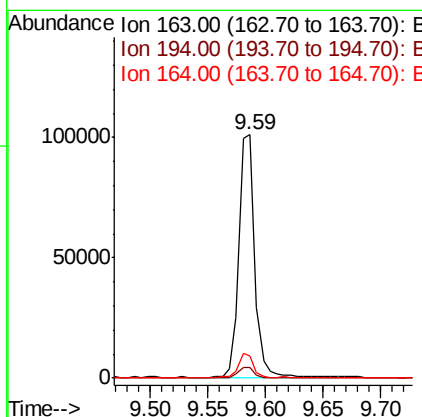
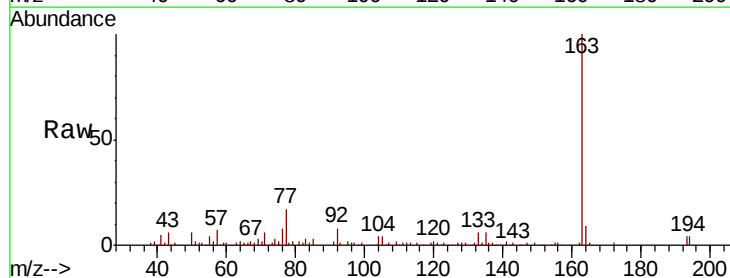
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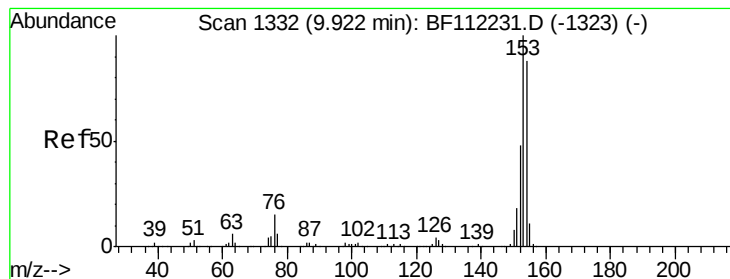
mohammad
2/1/2019 12:06:26 AM



#50
Dimethylphthalate
Concen: 4.542 ng
RT: 9.59 min Scan# 1275
Delta R.T. -0.02 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	99175		
194	4.2		3.3	4.9
164	9.3		8.5	12.7





#52

Acenaphthene

Concen: 4.389 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

Instrument :

BNA_F

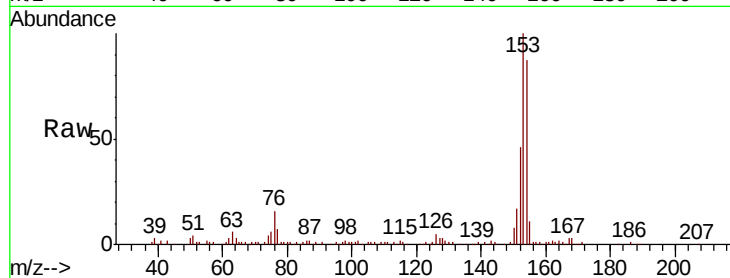
ClientSampled :

TP-6

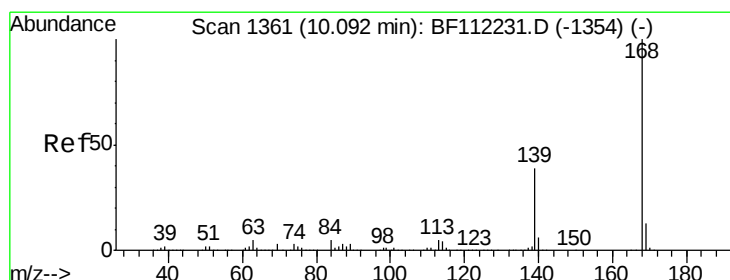
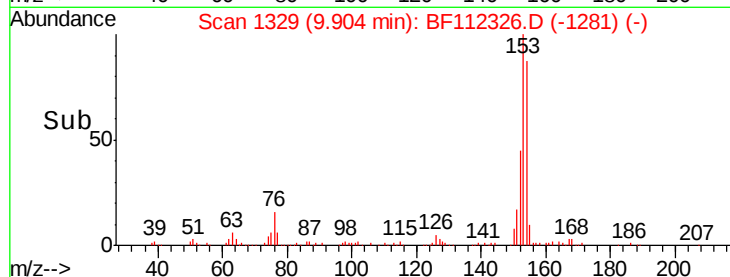
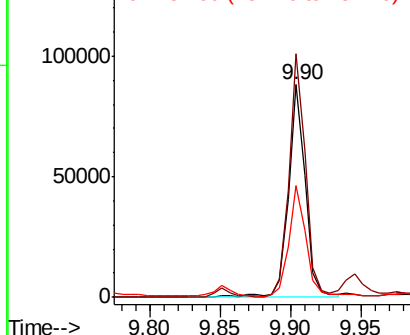
Tot Ion:	154	Resp:	73222
Ion Ratio	Lower	Upper	
154	100		
153	114.5	89.8	134.6
152	52.4	43.5	65.3

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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: 4.330 ng

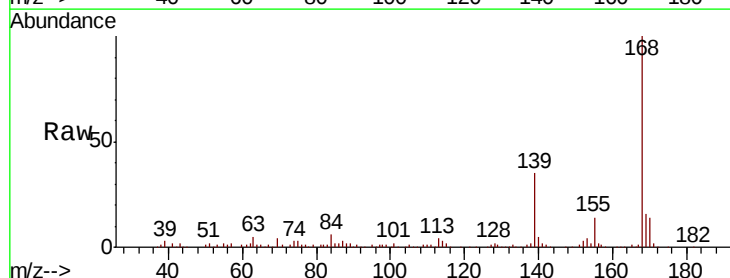
RT: 10.08 min Scan# 1359

Delta R.T. -0.01 min

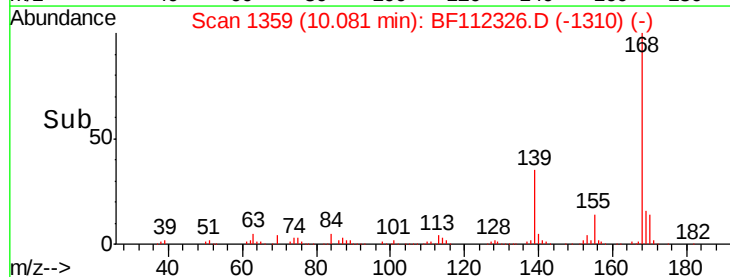
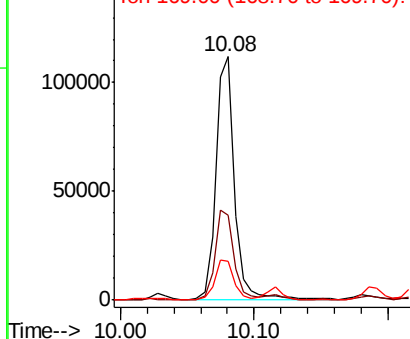
Lab File: BF112326.D

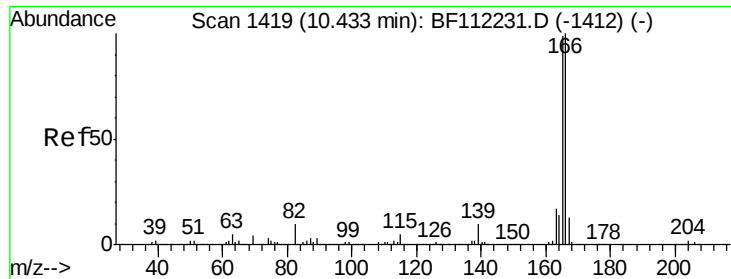
Acq: 30 Jan 2019 17:18

Tgt Ion:	168	Resp:	110395
Ion Ratio	Lower	Upper	
168	100		
139	34.7	29.2	43.8
169	15.8	11.4	17.0



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





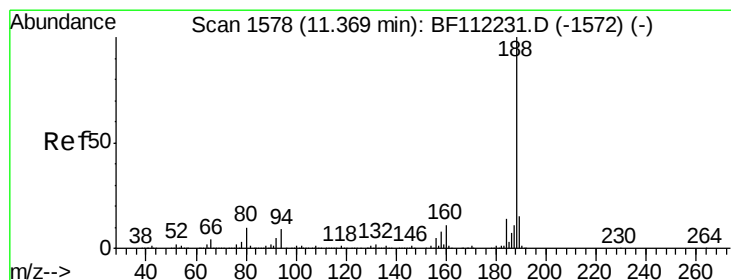
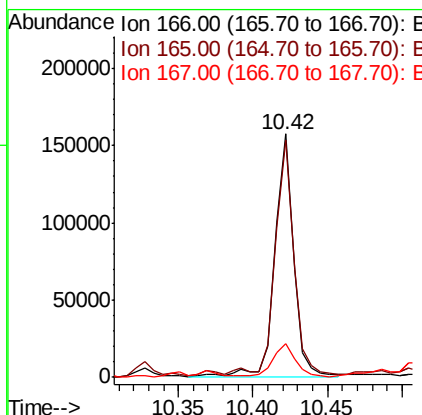
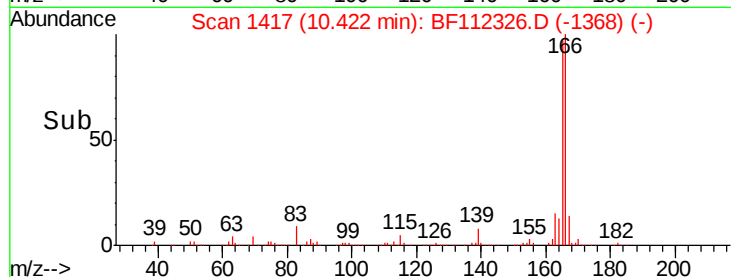
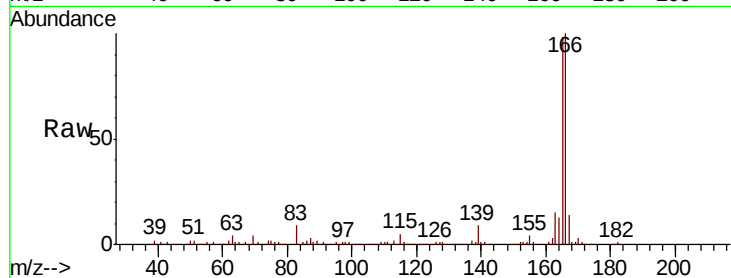
#58
 Fluorene
 Concen: 7.164 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.6	77.1	115.7
167	13.8	11.3	16.9

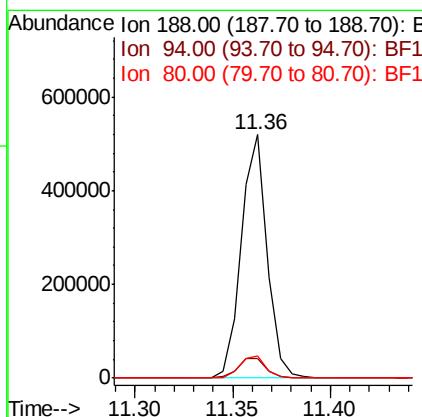
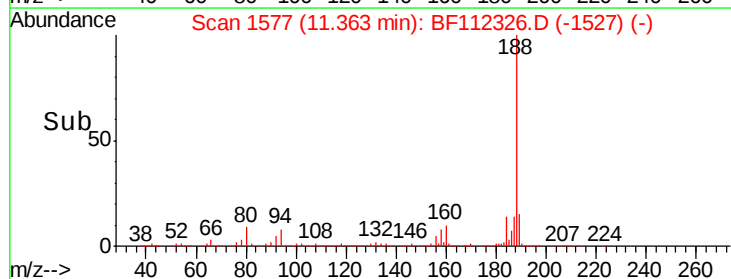
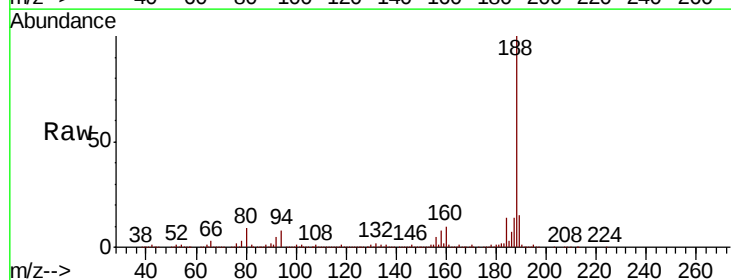
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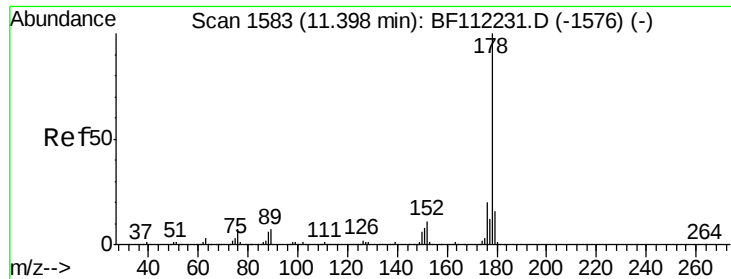
mohammad
 2/1/2019 12:06:26 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.1	8.2	12.2#
80	8.9	8.9	13.3#





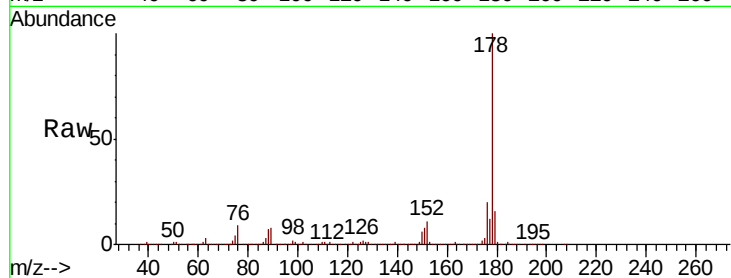
#71
Phenanthrene
Concen: 55.336 ng
RT: 11.39 min Scan# 1581
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.3	24.5
179	16.0	13.0	19.4

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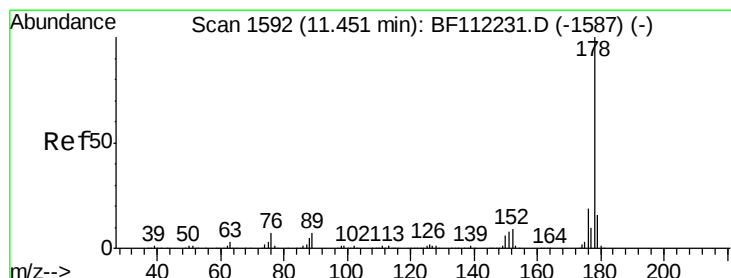
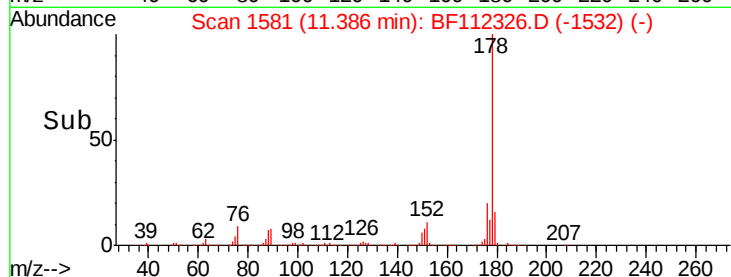
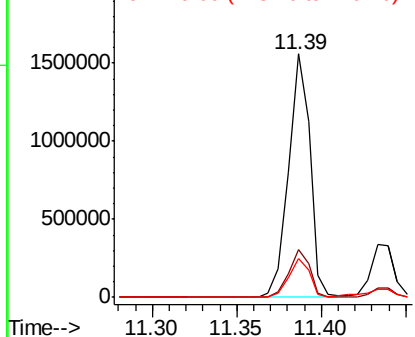


Abundance

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



#72
Anthracene
Concen: 12.759 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.02 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

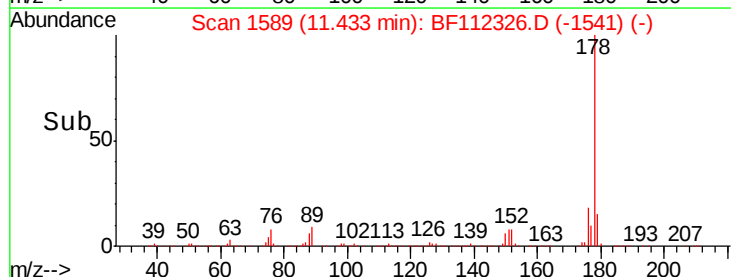
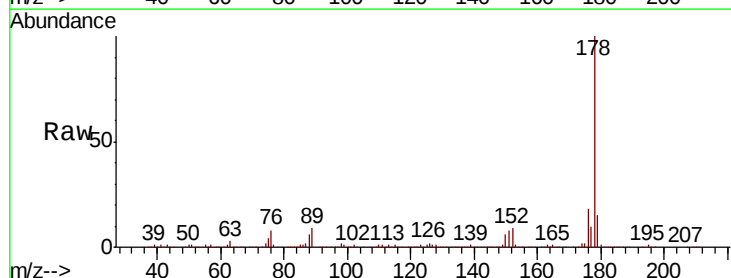
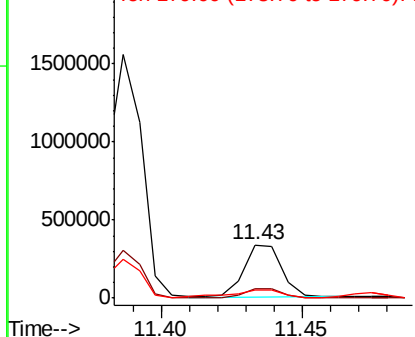
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.5	23.3
179	15.1	12.8	19.2

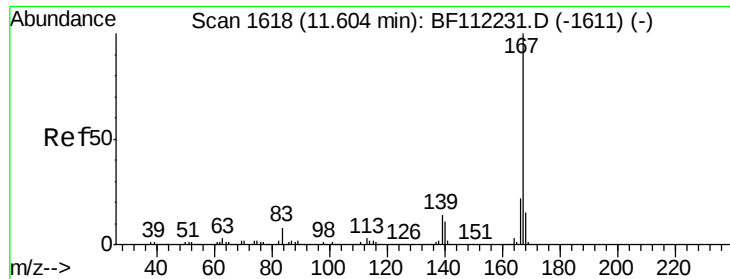
Abundance

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





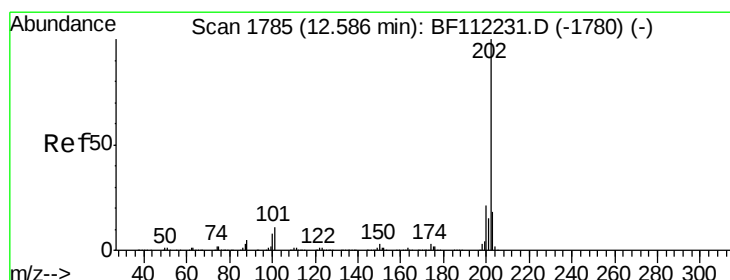
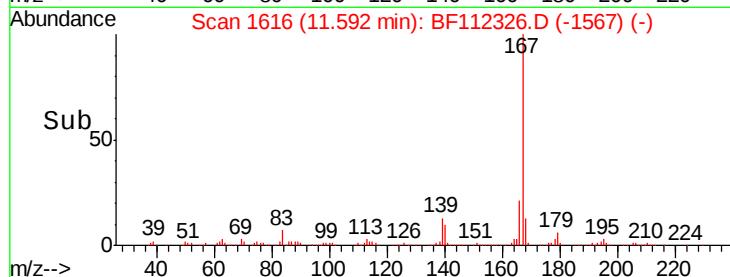
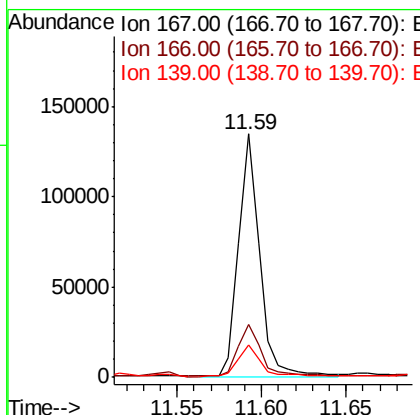
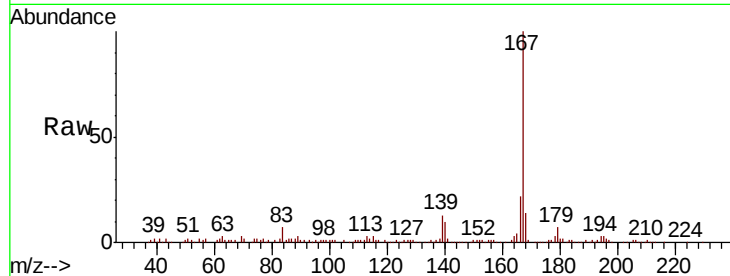
#73
 Carbazole
 Concen: 4.804 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Instrument :
 BNA_F
 ClientSampleId :
 TP-6

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.9	26.9
139	13.2	10.2	15.2

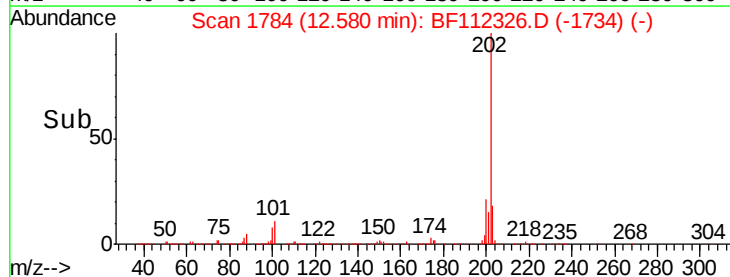
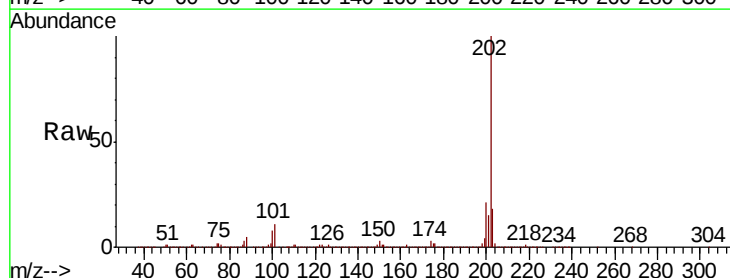
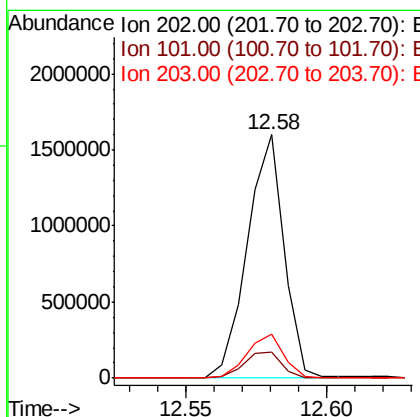
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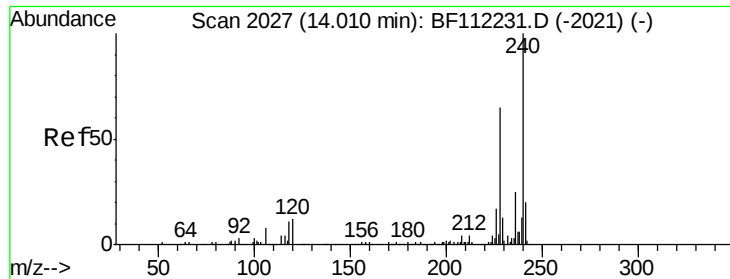
mohammad
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#75
 Fluoranthene
 Concen: 54.451 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. -0.01 min
 Lab File: BF112326.D
 Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.8
203	18.1	0.0	38.4





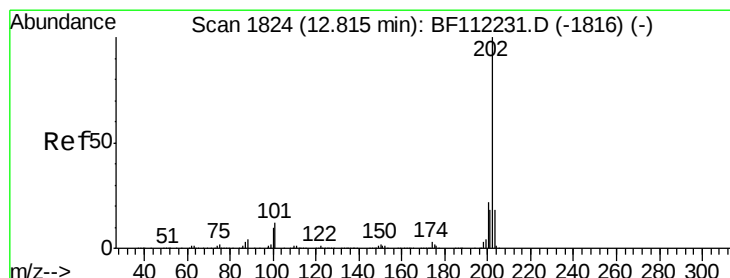
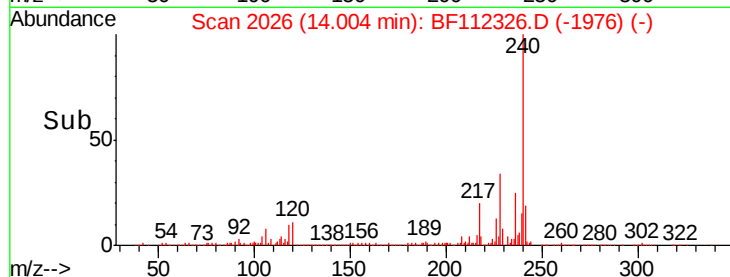
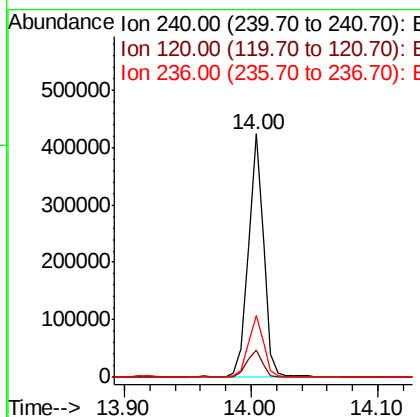
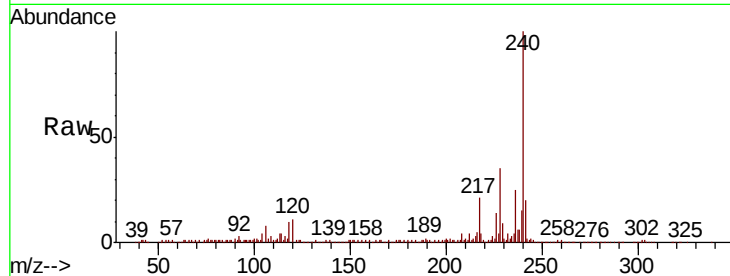
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampled :
TP-6

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.0	13.6
236	25.3	20.7	31.1

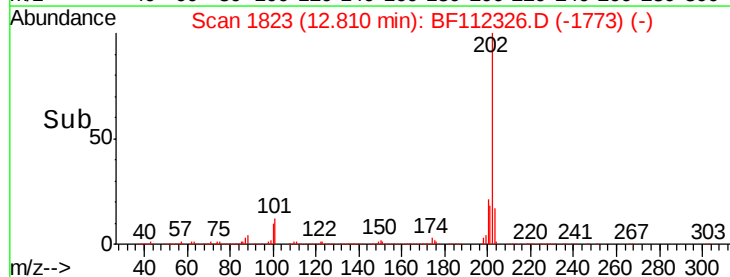
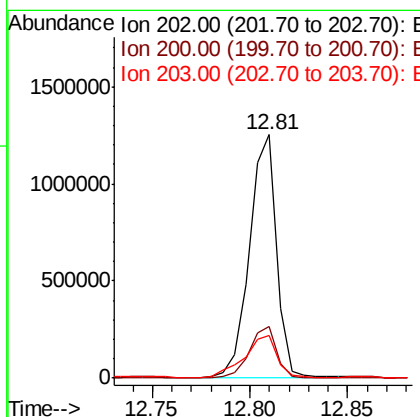
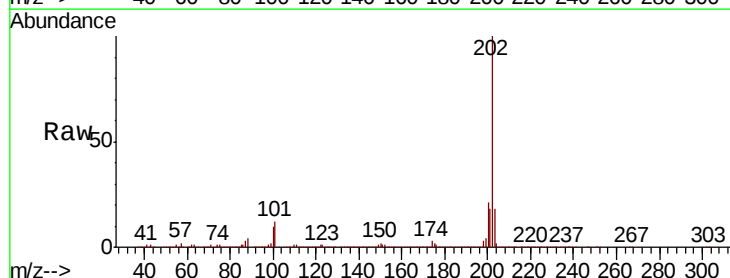
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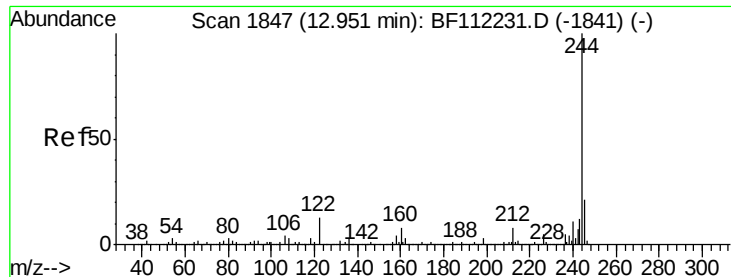
mohammad
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#78
Pyrene
Concen: 49.452 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.7	26.5
203	17.6	14.6	22.0





#79

Terphenyl-d14

Concen: 48.044 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

Instrument :

BNA_F

ClientSampleId :

TP-6

Tot Ion:244 Resp: 895661

Ion Ratio Lower Upper

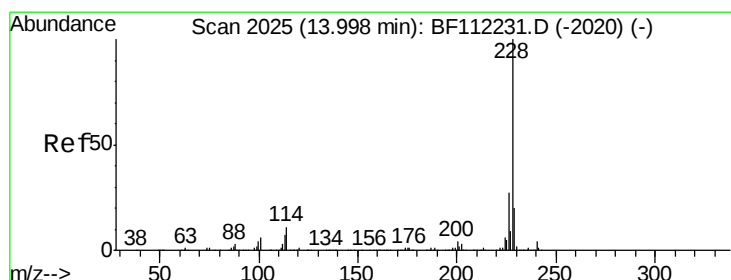
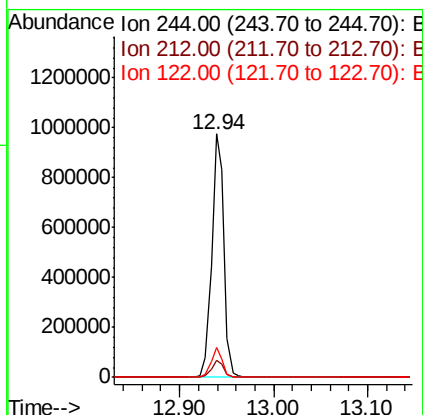
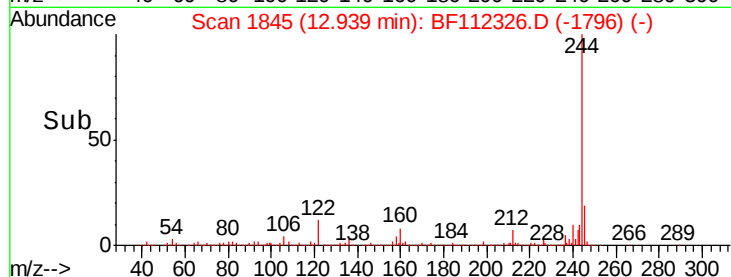
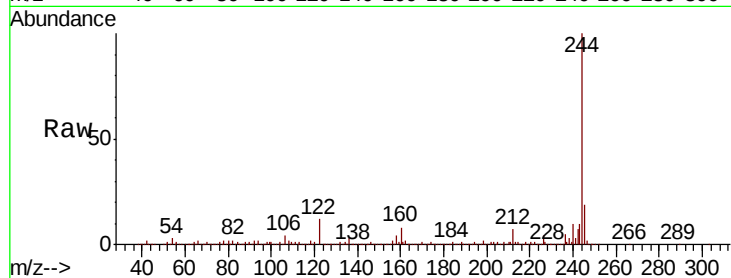
244 100

212 6.9 5.9 8.9

122 12.2 9.8 14.6

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#81

Benzo(a)anthracene

Concen: 30.367 ng

RT: 13.99 min Scan# 2024

Delta R.T. -0.01 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

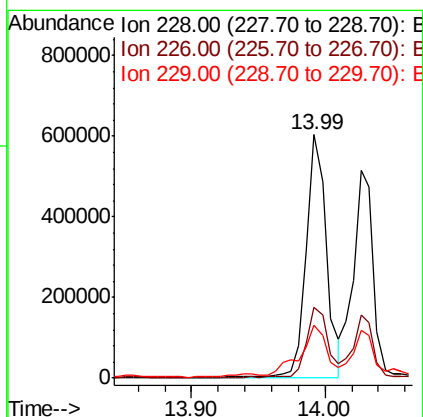
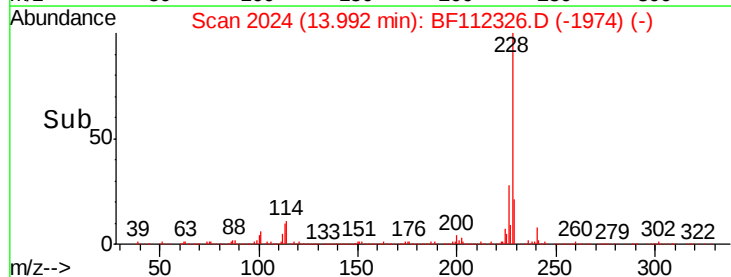
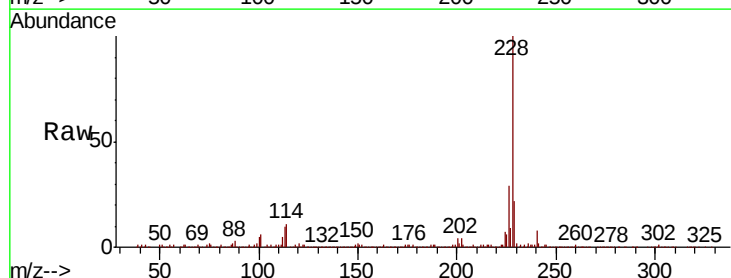
Tgt Ion:228 Resp: 626783

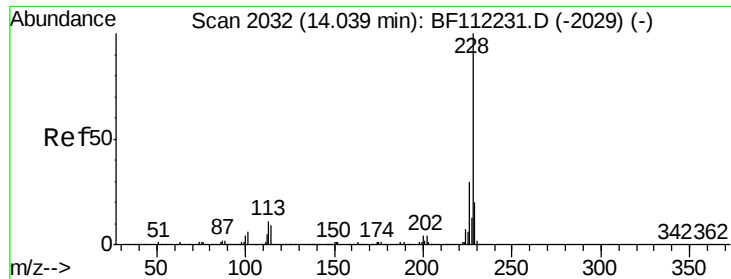
Ion Ratio Lower Upper

228 100

226 28.9 22.6 34.0

229 21.6 16.5 24.7





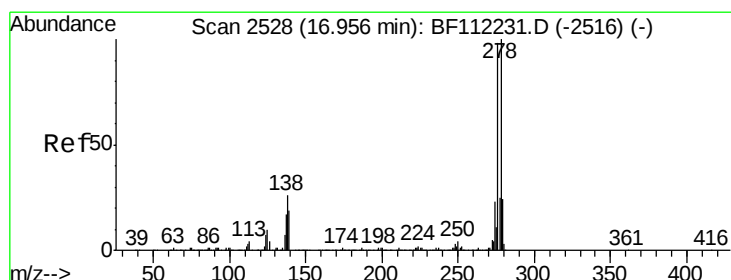
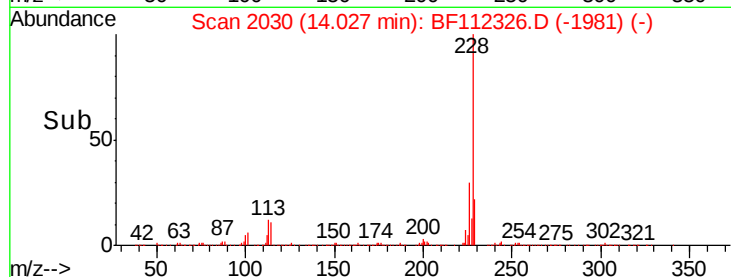
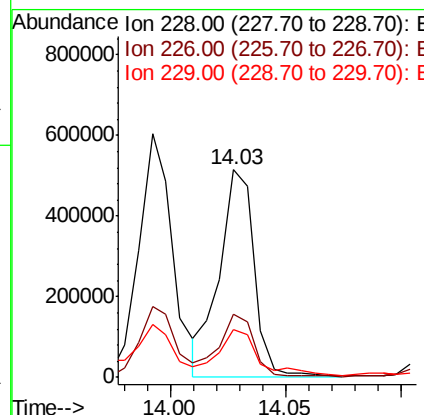
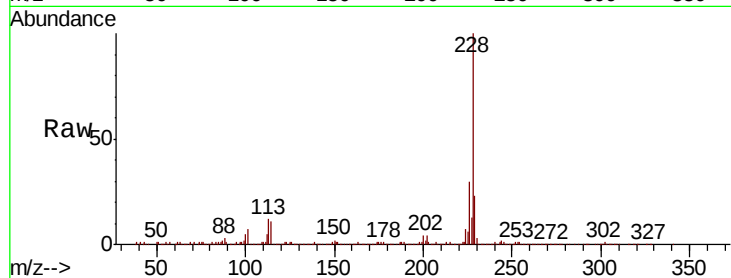
#83
Chrysene
Concen: 27.259 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	22.8	16.6	24.8

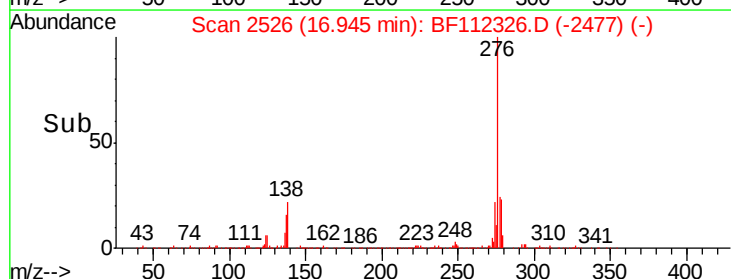
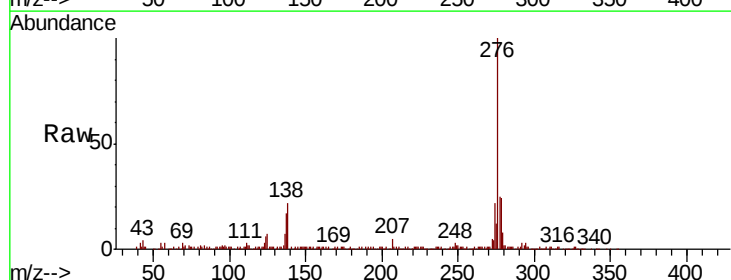
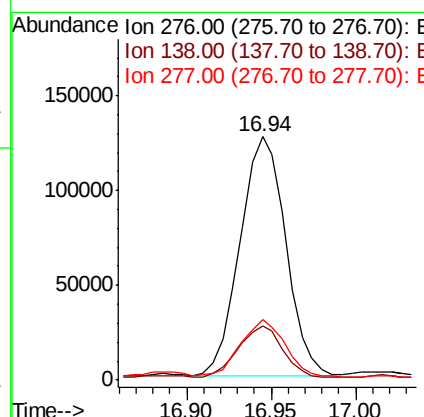
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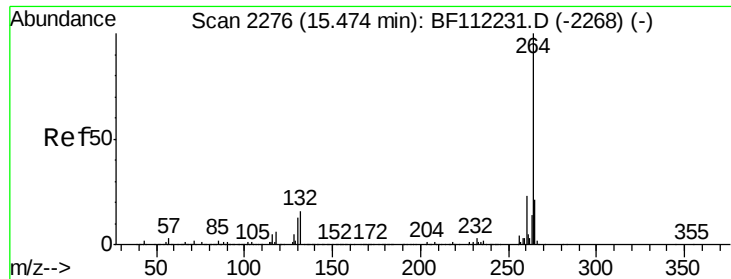
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 15.225 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	22.6	34.0#
277	23.9	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2276

Delta R.T. 0.00 min

Lab File: BF112326.D

Acq: 30 Jan 2019 17:18

Instrument :

BNA_F

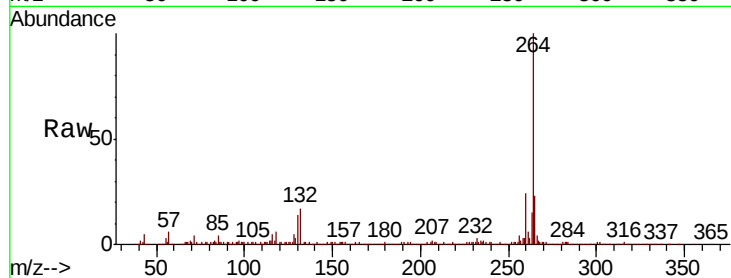
ClientSampled :

TP-6

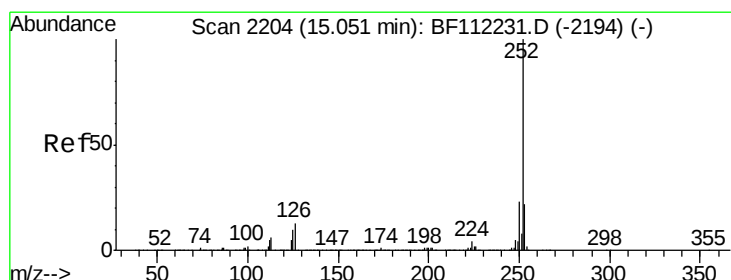
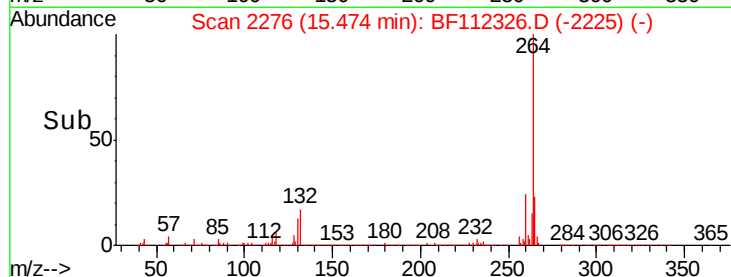
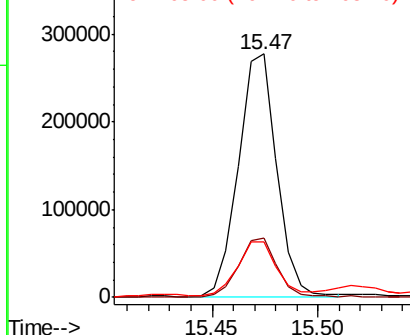
Tot Ion:	264	Resp:	347945
Ion Ratio	Lower	Upper	
264	100		
260	24.4	18.2	27.2
265	22.9	17.0	25.4

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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



#88

Benzo(b)fluoranthene

Concen: 31.510 ng m

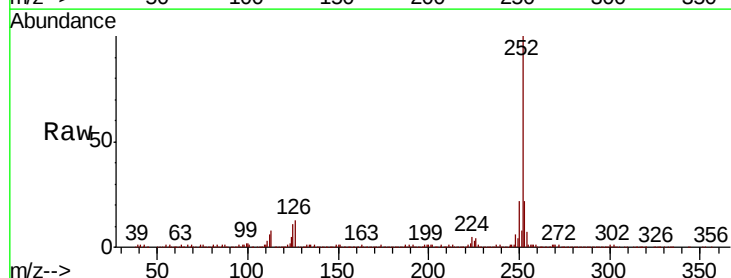
RT: 15.04 min Scan# 2203

Delta R.T. -0.01 min

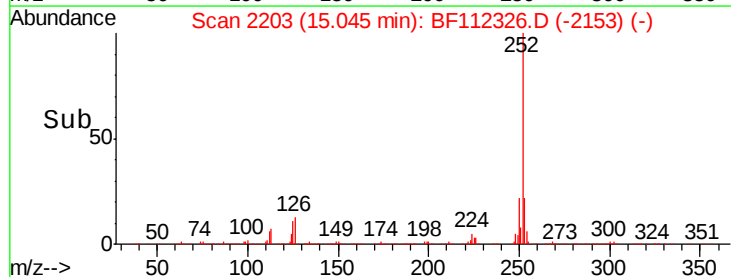
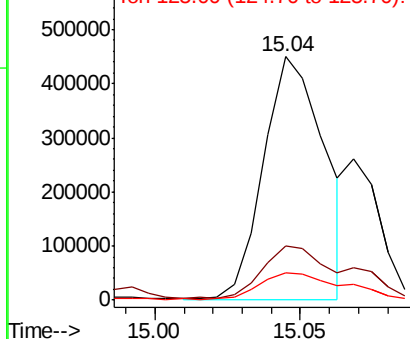
Lab File: BF112326.D

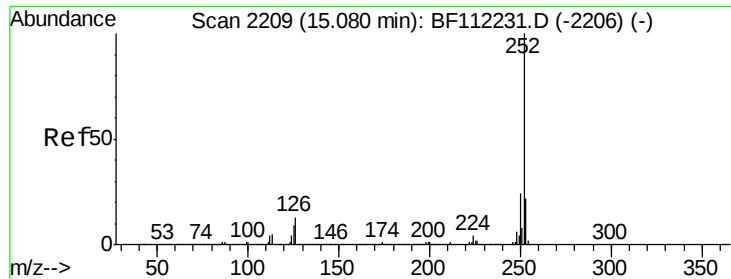
Acq: 30 Jan 2019 17:18

Tgt Ion:	252	Resp:	655688
Ion Ratio	Lower	Upper	
252	100		
253	22.1	18.0	27.0
125	11.2	8.7	13.1



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





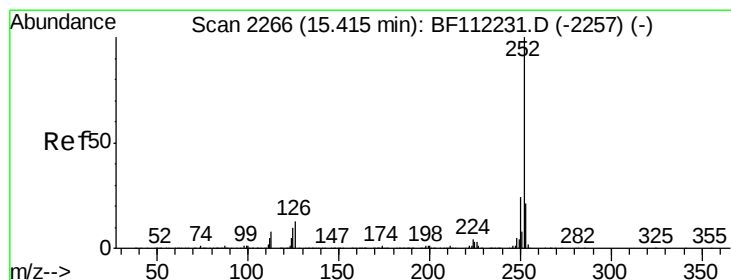
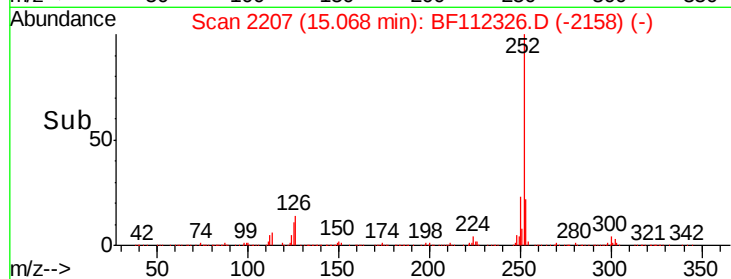
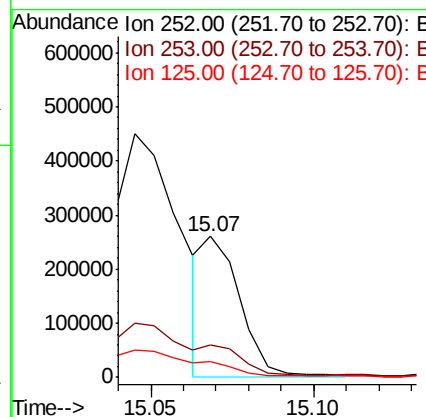
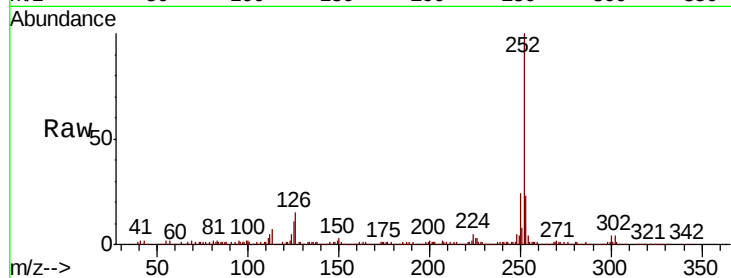
#89
Benzo(k)fluoranthene
Concen: 10.744 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.0	27.0
125	11.2	9.1	13.7

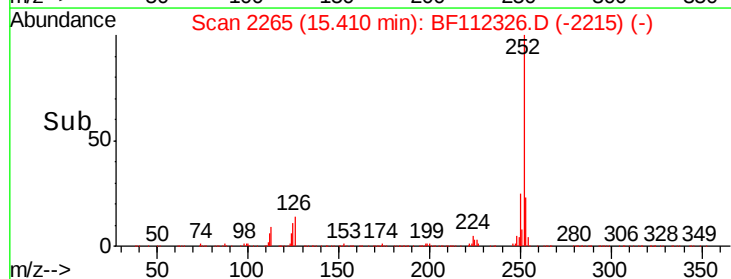
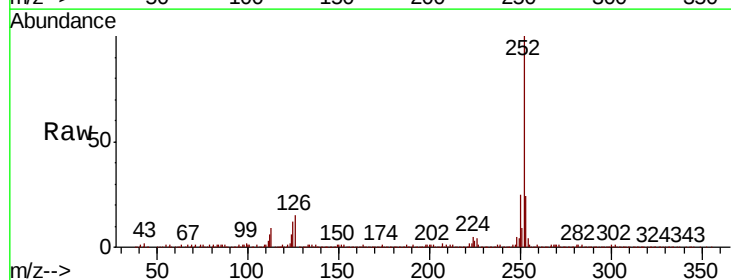
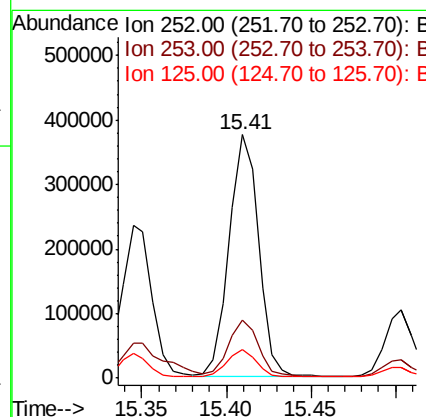
Manual Integrations
APPROVED

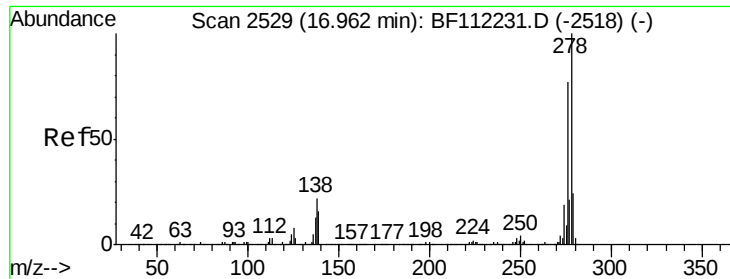
mohammad
2/1/2019 12:06:26 AM



#90
Benzo(a)pyrene
Concen: 24.464 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.5	26.3
125	11.8	9.0	13.4





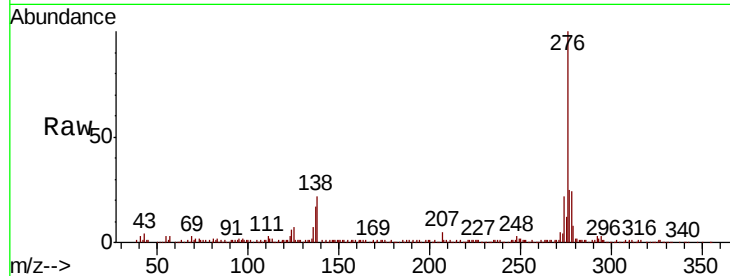
#91
Dibenzo(a,h)anthracene
Concen: 4.274 ng m
RT: 16.94 min Scan# 2526
Delta R.T. -0.02 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Instrument :
BNA_F
ClientSampleId :
TP-6

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.7	20.5#
279	33.5	19.0	28.6#

Manual Integrations
APPROVED

mohammad
2/1/2019 12:06:26 AM

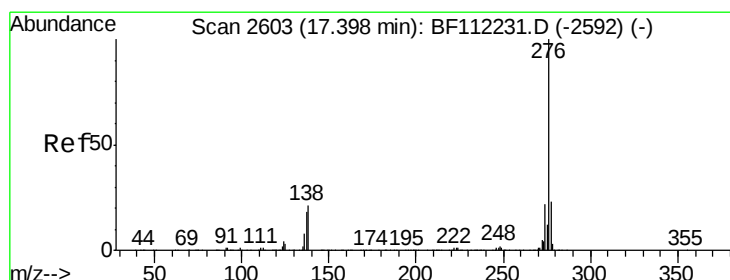
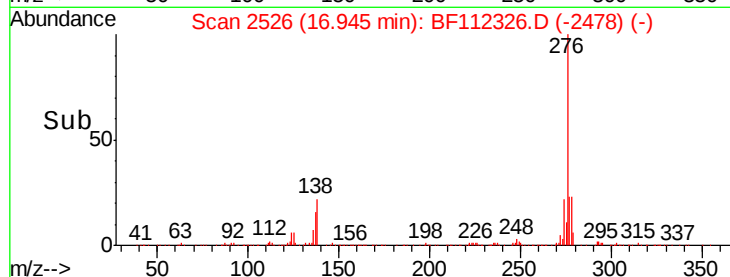
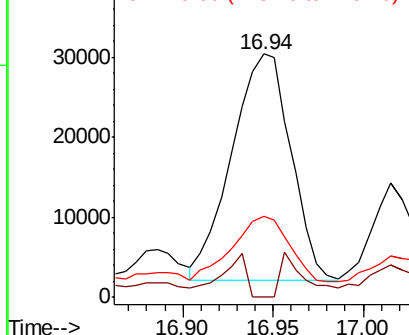


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 14.714 ng
RT: 17.39 min Scan# 2602
Delta R.T. -0.01 min
Lab File: BF112326.D
Acq: 30 Jan 2019 17:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.9	19.4	29.0
138	22.5	19.1	28.7

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

