

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
 Data File : BF111162.D
 Acq On : 7 Dec 2018 2:17
 Operator : JU/SJ
 Sample : J6214-17 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(0-2)

Manual Integrations
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Quant Time: Dec 10 14:20:13 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 05 17:30:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	519044	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	2012737	20.00	ng	0.00
39) Acenaphthene-d10	9.84	164	845053	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	1160600	20.00	ng	0.00
76) Chrysene-d12	13.97	240	876584	20.00	ng	0.02
87) Perylene-d12	15.40	264	731552	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	342077	10.28	ng	0.00
7) Phenol-d6	6.42	99	441737	10.31	ng	-0.01
23) Nitrobenzene-d5	7.36	82	248770	7.32	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	55359	8.24	ng	0.00
45) 2-Fluorobiphenyl	0.00	172	0d	0.00	ng	
79) Terphenyl-d14	12.91	244	271146	6.33	ng	0.00
Target Compounds						
31) Naphthalene	8.11	128	523941	5.979	ng	Qvalue 94
37) 2-Methylnaphthalene	8.80	142	159162	2.633	ng	98
38) 1-Methylnaphthalene	8.90	142	163977	2.822	ng	96
52) Acenaphthene	9.87	154	1213177	24.439	ng	99
55) Dibenzofuran	10.05	168	637217	9.320	ng	91
58) Fluorene	10.39	166	935674	19.406	ng	99
71) Phenanthrene	11.36	178	6536780m	117.091	ng	
72) Anthracene	11.40	178	2424649	43.087	ng	98
73) Carbazole	11.55	167	1171385	20.005	ng	96
75) Fluoranthene	12.55	202	7968961	145.876	ng	87
78) Pyrene	12.78	202	6925398	101.408	ng	91
81) Benzo(a)anthracene	13.96	228	4256695	82.881	ng	95
83) Chrysene	14.00	228	3614281	70.888	ng	96
86) Indeno(1,2,3-cd)pyrene	16.82	276	1570903	38.374	ng	# 92
88) Benzo(b)fluoranthene	15.00	252	3931279m	94.837	ng	
89) Benzo(k)fluoranthene	15.02	252	1537376m	38.364	ng	
90) Benzo(a)pyrene	15.35	252	2648416	69.654	ng	96
91) Dibenzo(a,h)anthracene	16.83	278	387054	12.130	ng	93
92) Benzo(a,h,i)perylene	17.25	276	1416694	44.183	ng	100

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

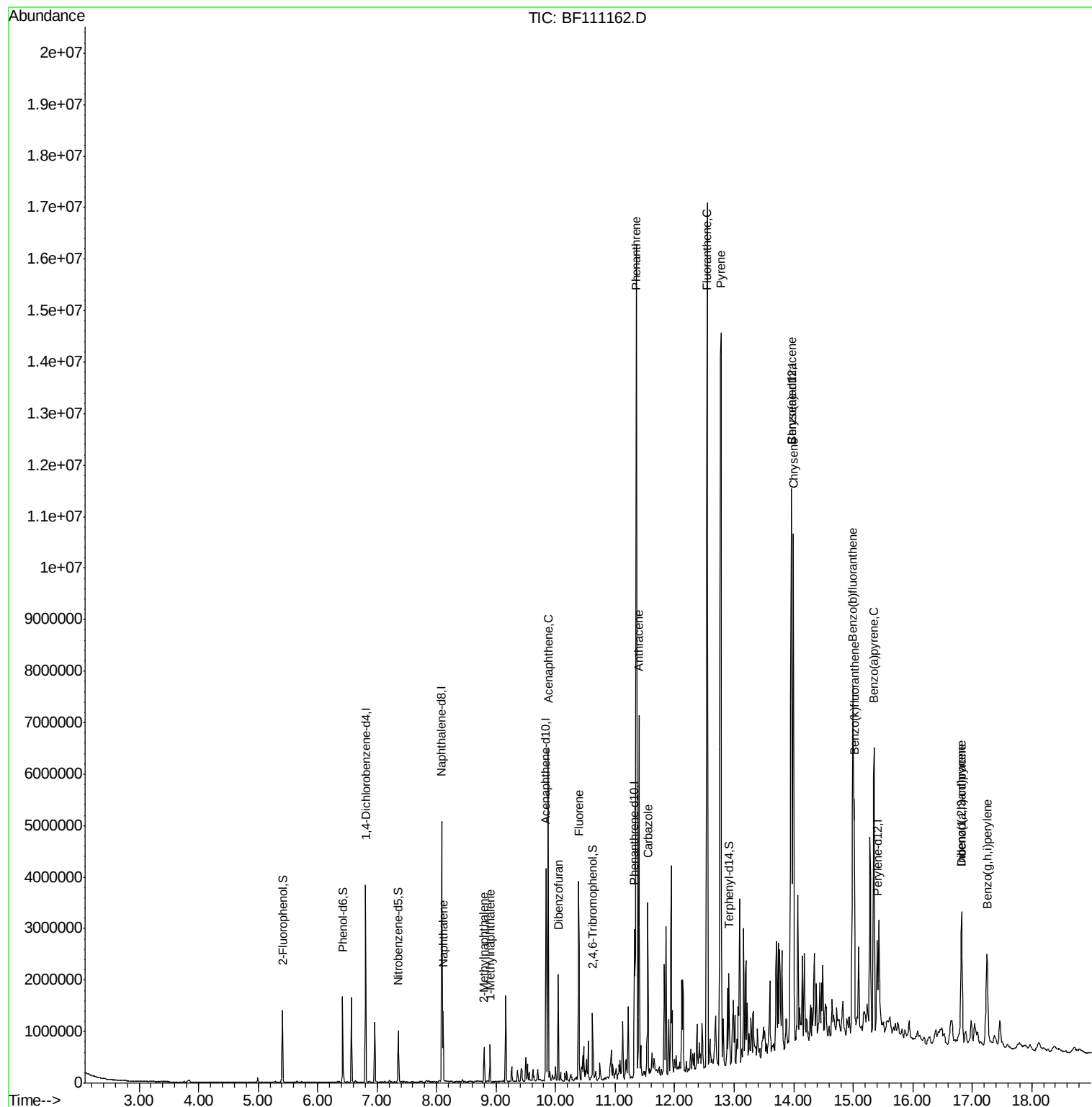
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
Data File : BF111162.D
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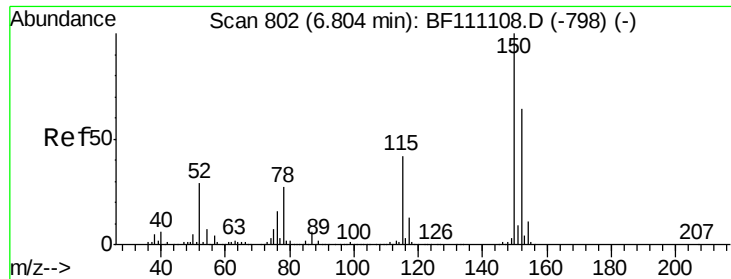
Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

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Quant Time: Dec 10 14:20:13 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 05 17:30:55 2018
Response via : Initial Calibration





#1

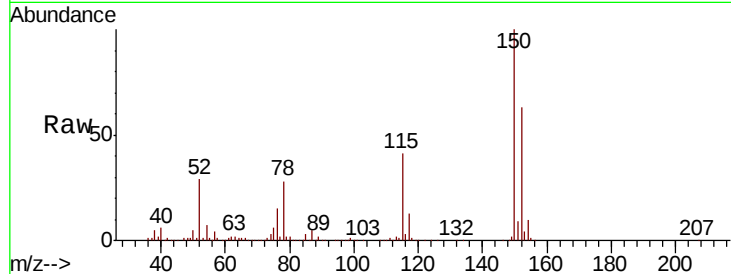
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.6	187.0
115	64.5	52.2	78.2

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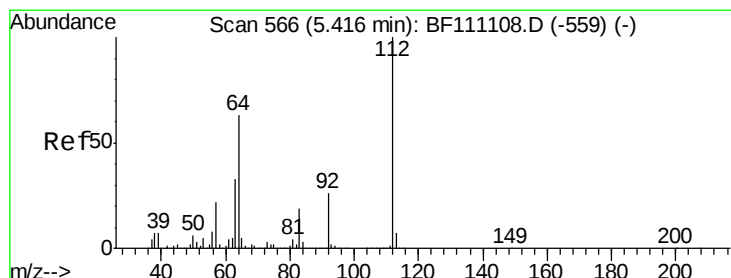
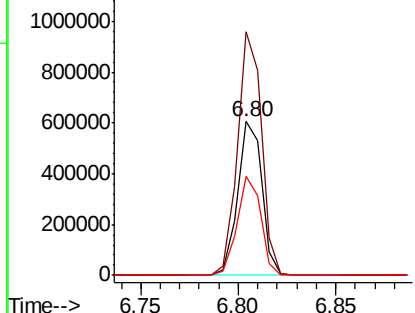
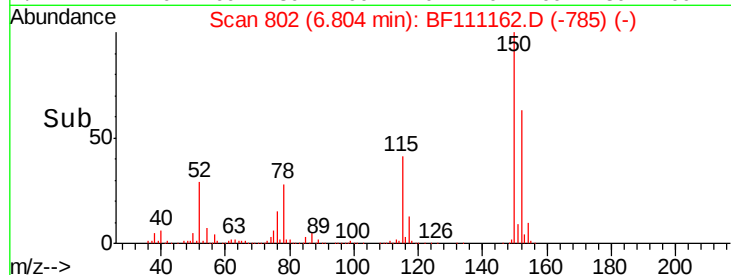


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

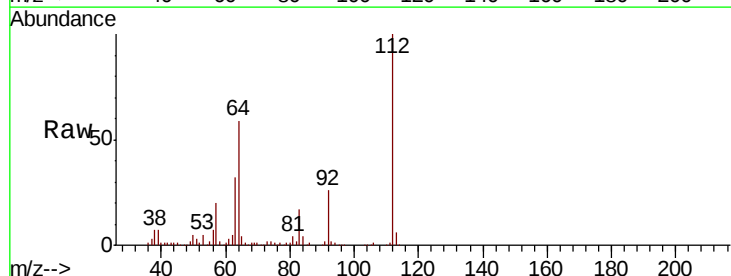
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 10.284 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.4	50.2	75.4
63	32.1	26.6	39.8

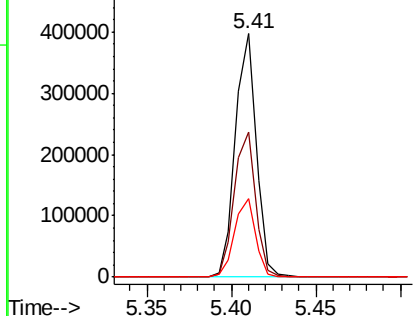
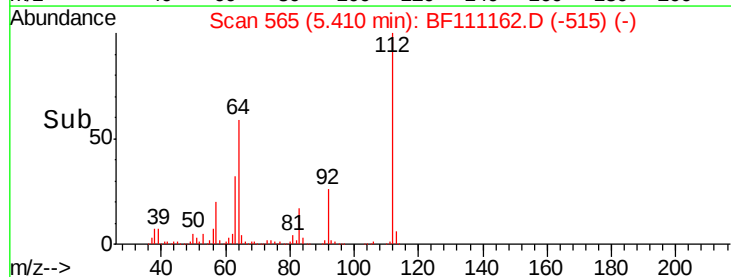


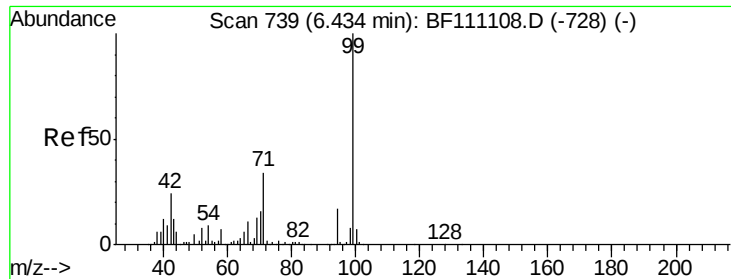
Abundance

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: 10.309 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Instrument :

BNA_F

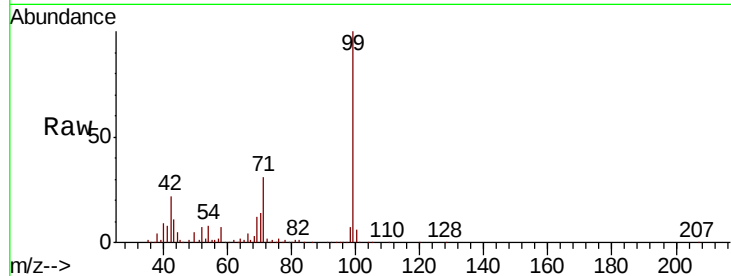
ClientSampleId :

SB-10(0-2)

Tot Ion:	99	Resp:	441737
Ion Ratio	Lower	Upper	
99	100		
42	22.0	19.3	28.9
71	31.1	27.4	41.2

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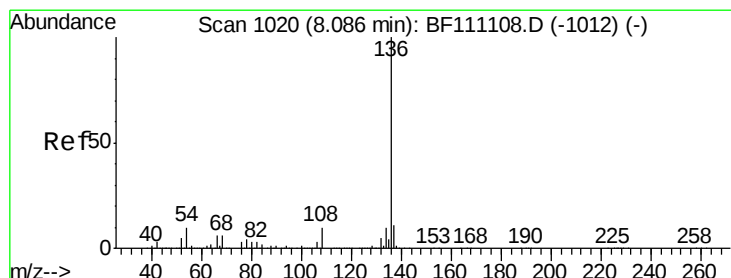
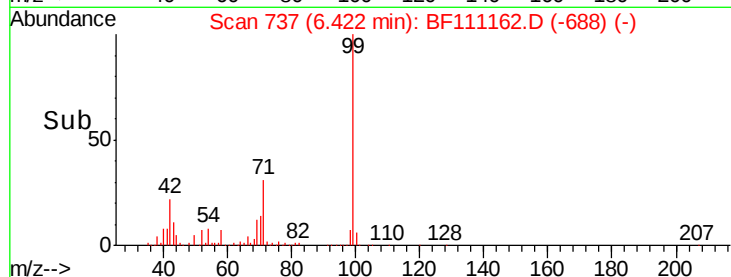
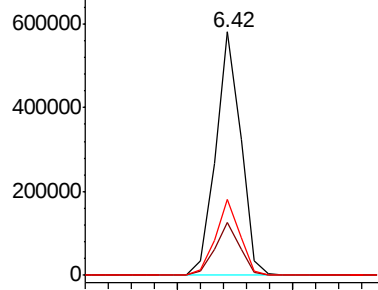


Abundance

Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Tgt Ion:	136	Resp:	2012737
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.0	13.6
54	10.2	8.4	12.6
68	6.1	5.0	7.4

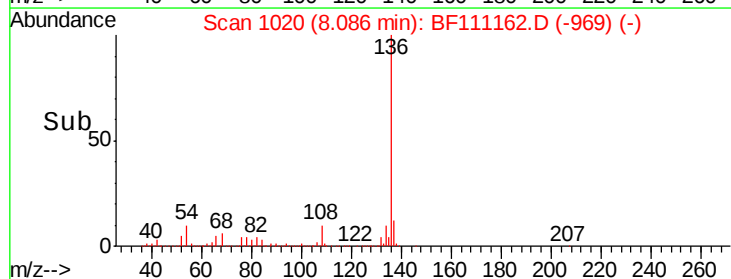
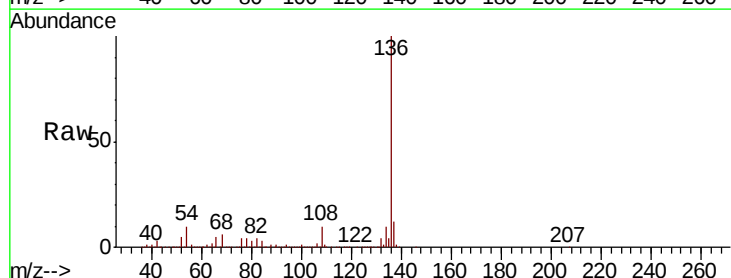
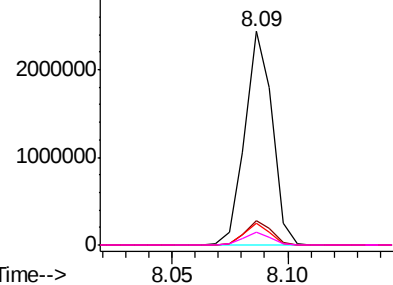
Abundance

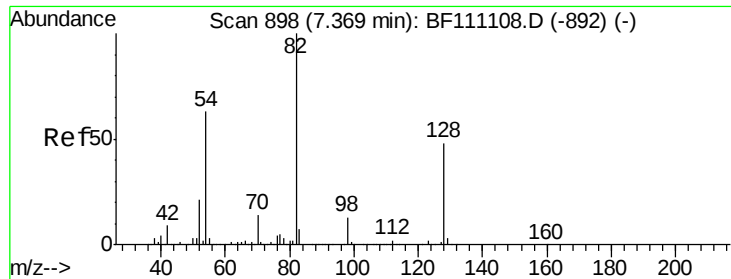
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





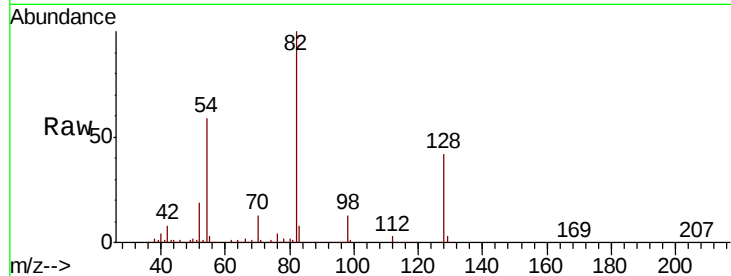
#23
Nitrobenzene-d5
Concen: 7.317 ng
RT: 7.36 min Scan# 896
Delta R.T. -0.01 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	82	Resp	248770
Ion Ratio	100	Lower	Upper
128	42.1	38.1	57.1
54	58.8	50.3	75.5

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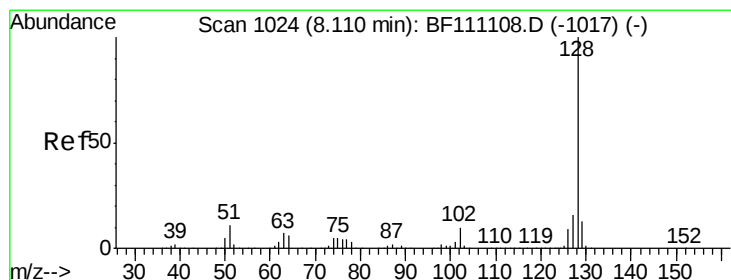
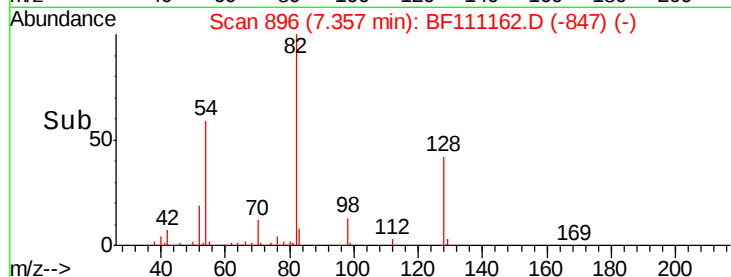
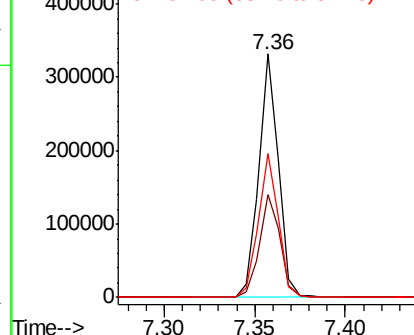


Abundance

Ion 82.00 (81.70 to 82.70): BF1

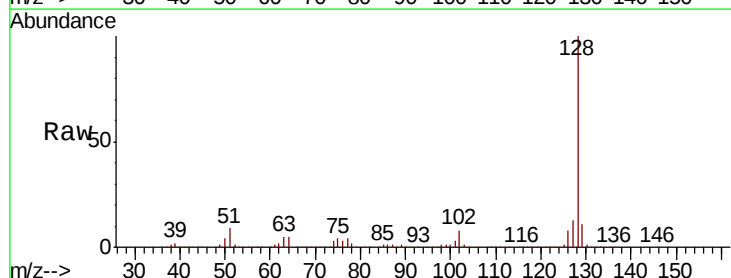
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 5.979 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	128	Resp	523941
Ion Ratio	100	Lower	Upper
129	10.9	10.5	15.7
127	12.7	12.5	18.7

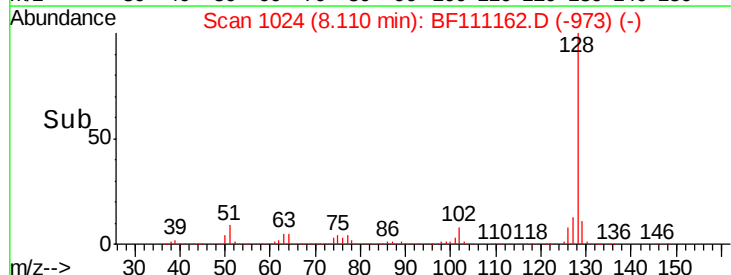
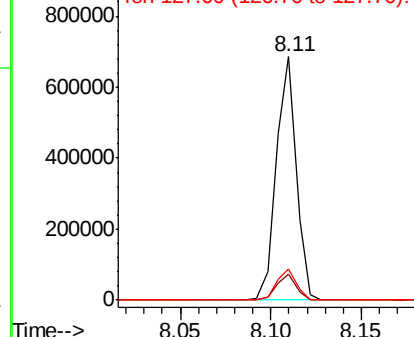


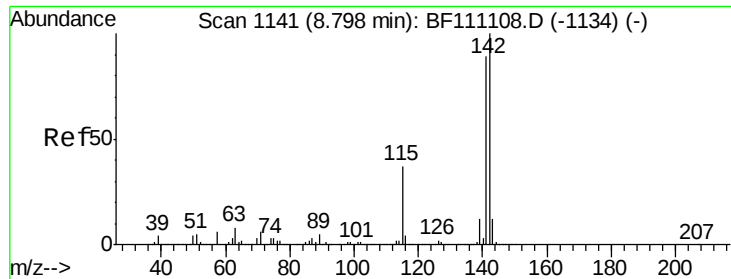
Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





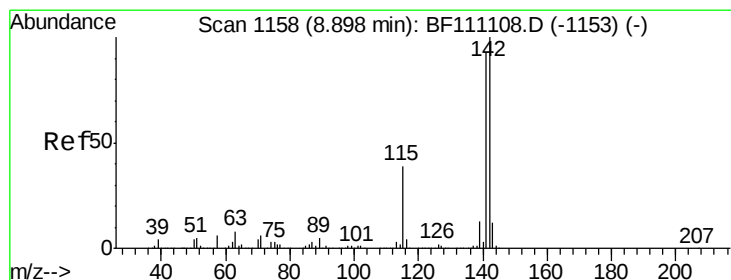
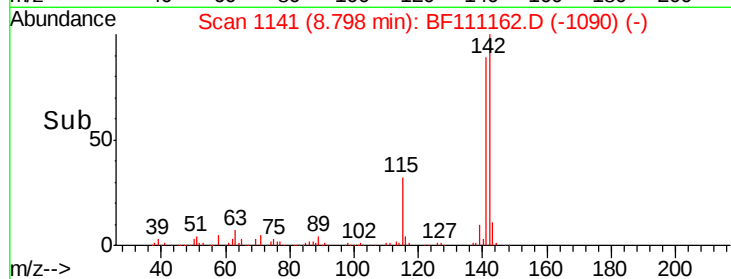
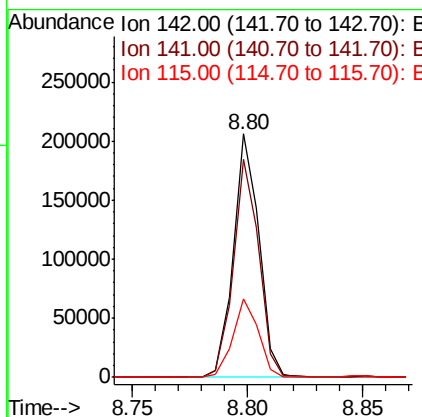
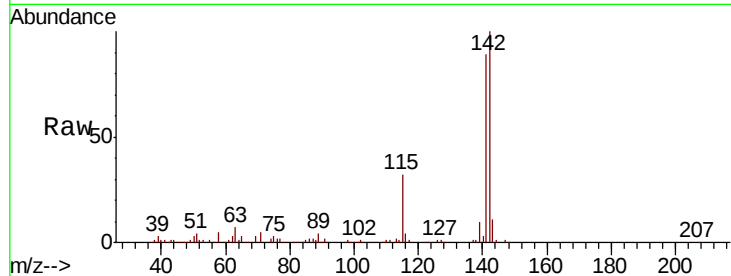
#37
2-Methylnaphthalene
Concen: 2.633 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	159162		
141	89.4	71.4	107.0	
115	32.3	29.2	43.8	

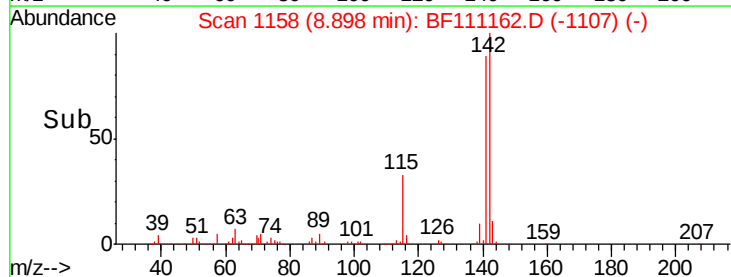
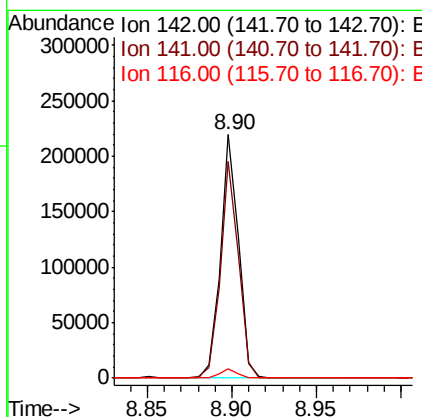
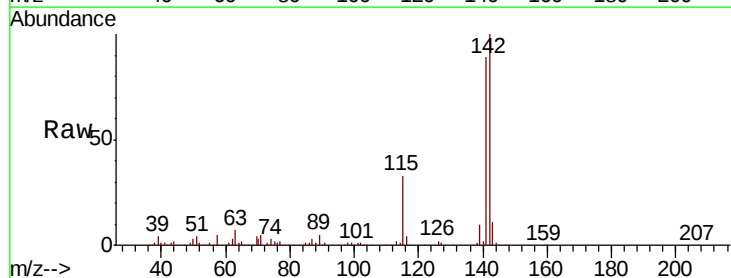
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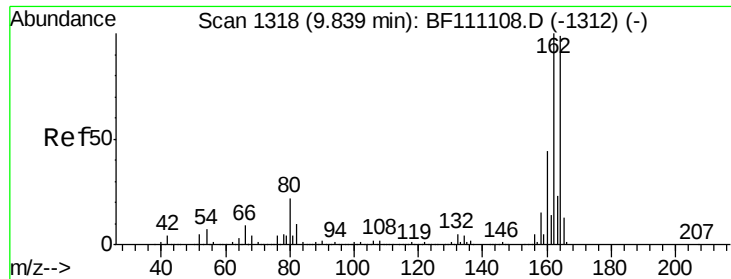
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#38
1-Methylnaphthalene
Concen: 2.822 ng
RT: 8.90 min Scan# 1158
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	163977		
141	89.0	74.5	111.7	
116	3.6	3.2	4.8	





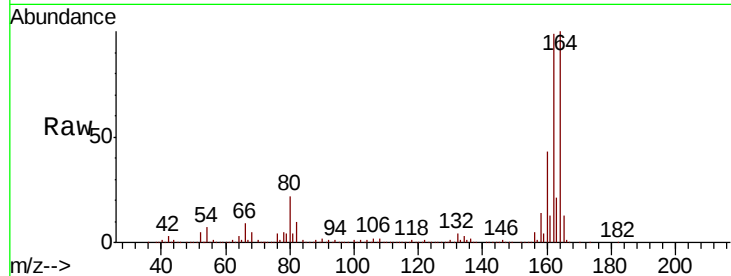
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.84 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: BF111162.D
 Acq: 7 Dec 2018 2:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(0-2)

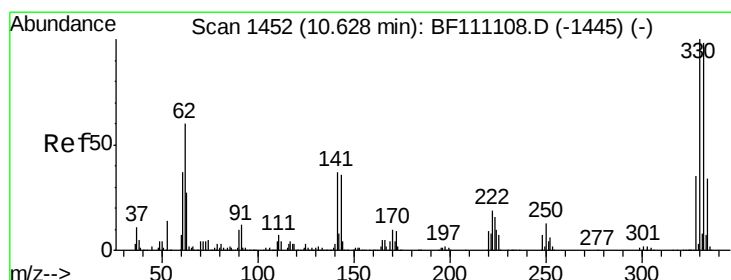
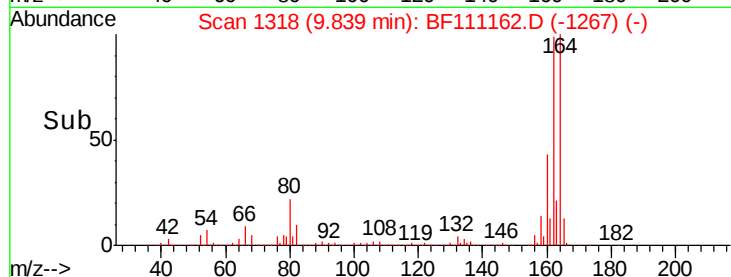
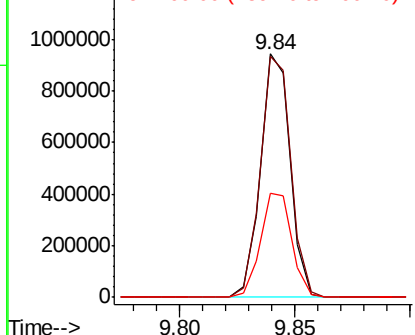
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	98.9	80.6	120.8	
160	42.7	35.5	53.3	

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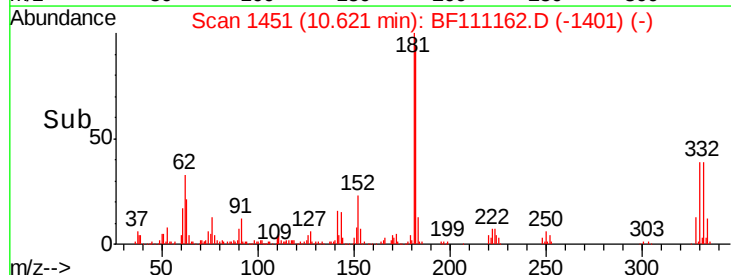
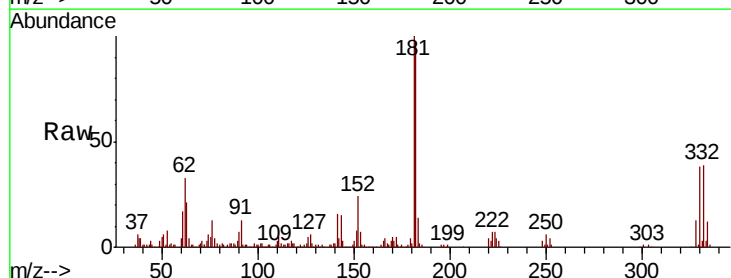
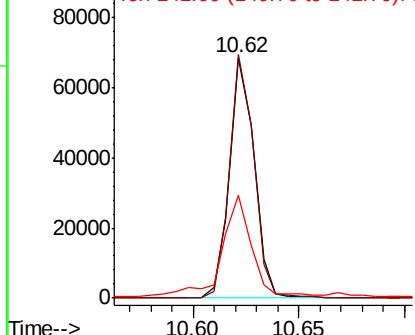
Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

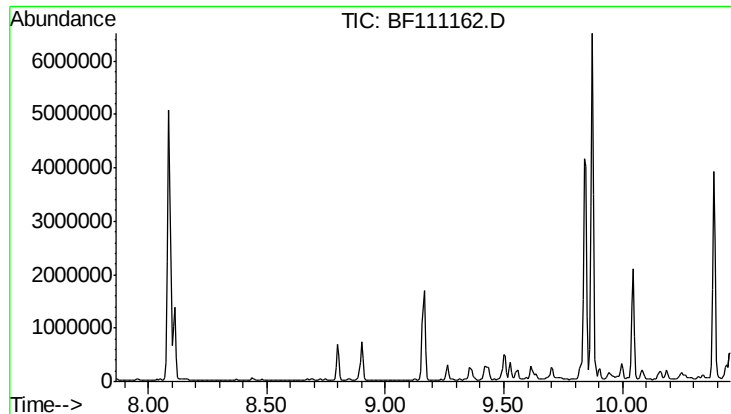


#42
 2,4,6-Tribromophenol
 Concen: 8.241 ng
 RT: 10.62 min Scan# 1451
 Delta R.T. -0.01 min
 Lab File: BF111162.D
 Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	100.0	77.2	115.8	
141	49.4	36.1	54.1	

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





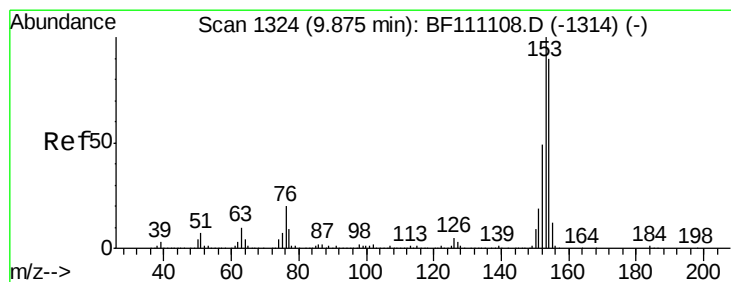
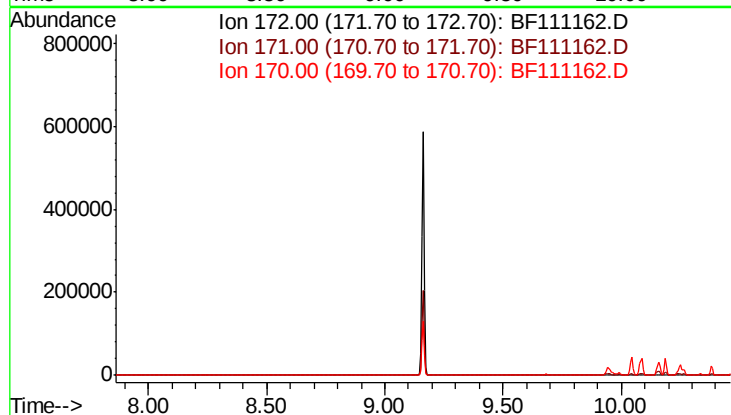
#45
 2-Fluorobiphenyl
 Concen: 0.000 ng
 Expected RT: 9.16 min
 Lab File: BF111162.D
 Acq: 7 Dec 2018 2:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(0-2)

Tot Ion: 172
 Sig Exp Ratio
 172 100
 171 41.5
 170 28.6

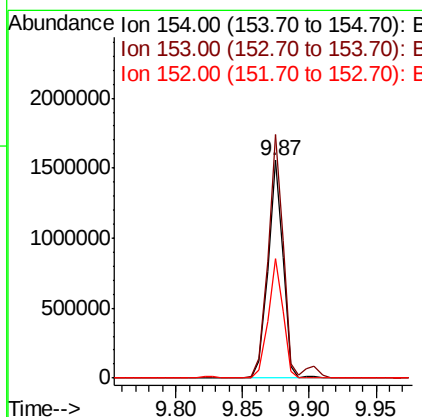
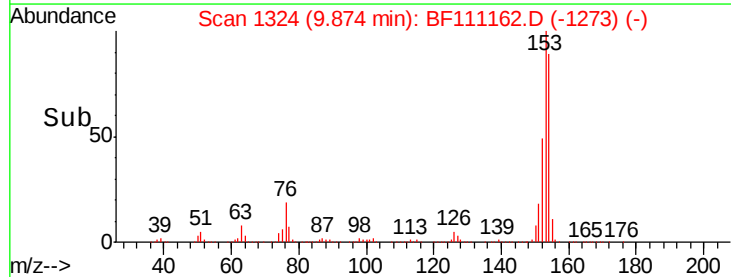
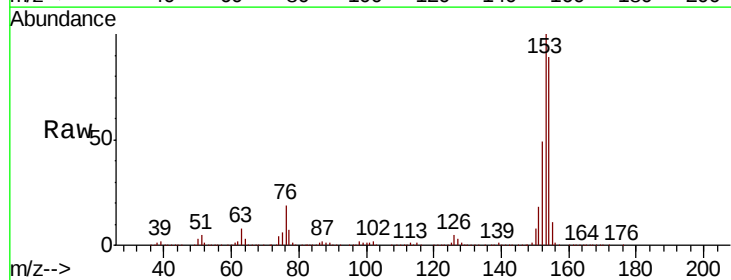
Manual Integrations
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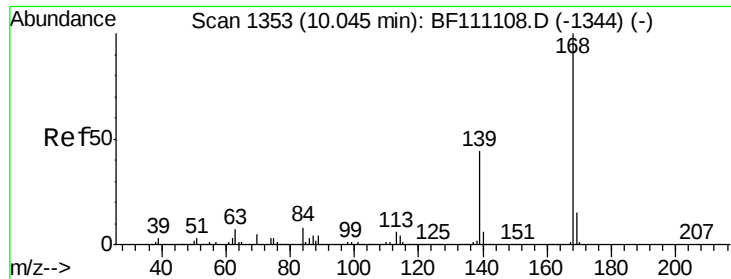
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#52
 Acenaphthene
 Concen: 24.439 ng
 RT: 9.87 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: BF111162.D
 Acq: 7 Dec 2018 2:17

Tgt Ion: 154 Resp: 1213177
 Ion Ratio Lower Upper
 154 100
 153 112.0 88.7 133.1
 152 54.9 43.8 65.8





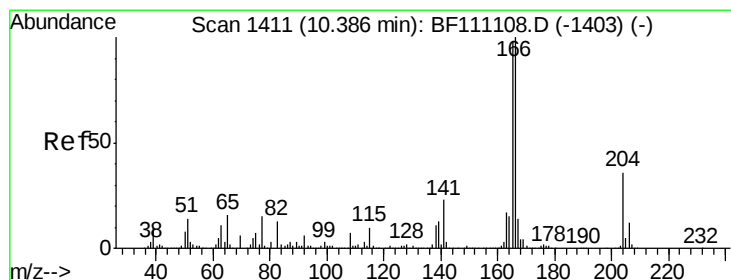
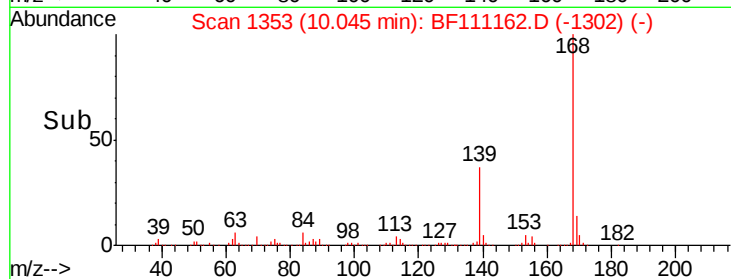
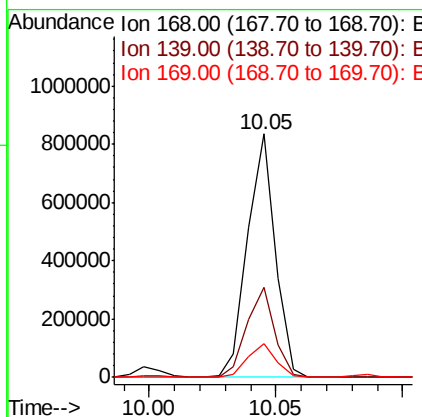
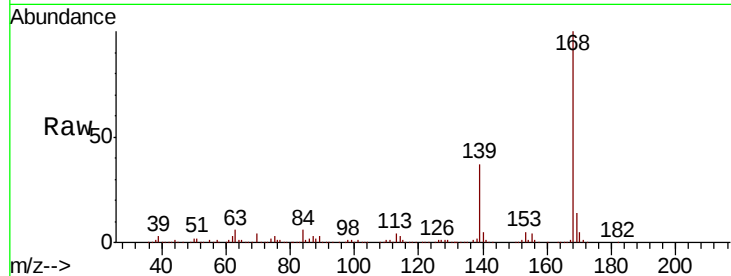
#55
Dibenzofuran
Concen: 9.320 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.1	35.1	52.7
169	14.0	12.2	18.4

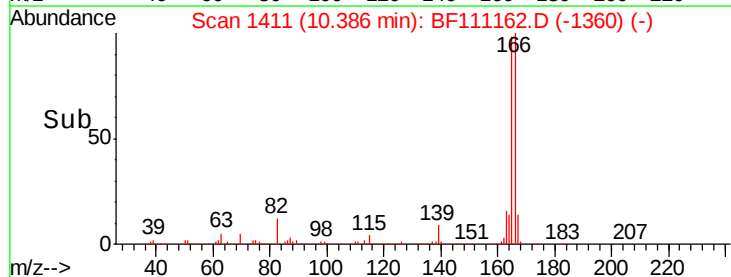
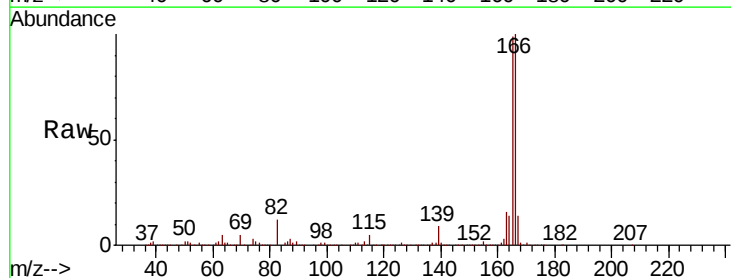
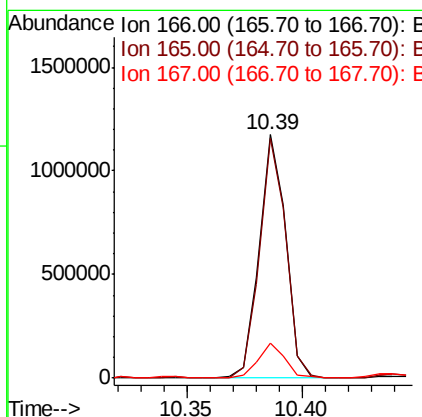
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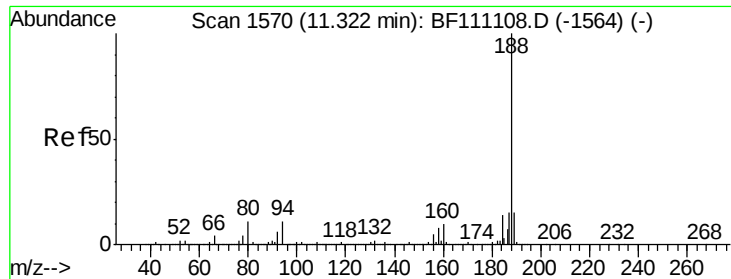
mohammad
12/10/2018 12:19:20 PM



#58
Fluorene
Concen: 19.406 ng
RT: 10.39 min Scan# 1411
Delta R.T. -0.00 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.4	117.6
167	14.2	11.4	17.2





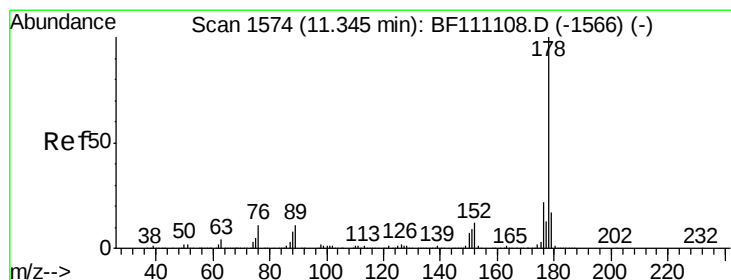
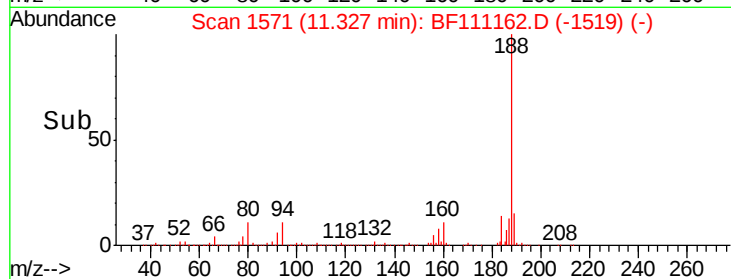
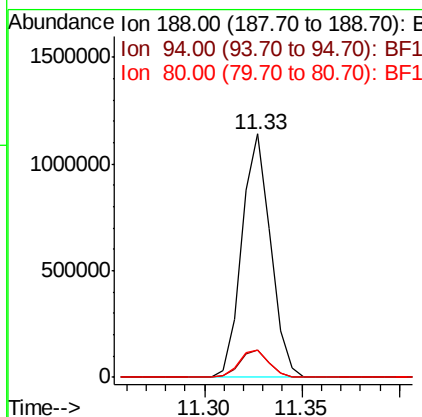
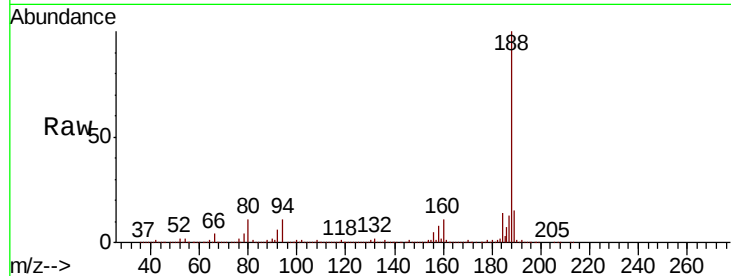
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.01 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.5	12.7
80	11.5	9.0	13.6

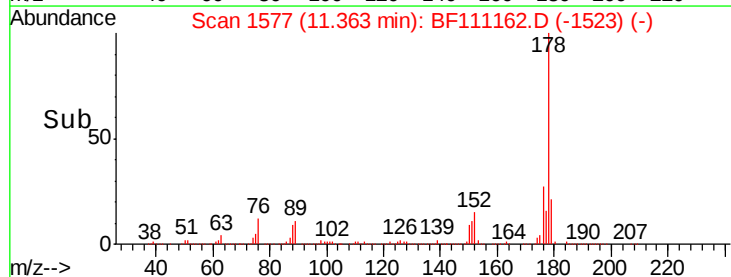
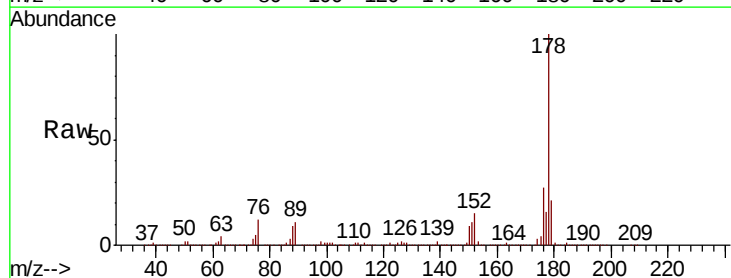
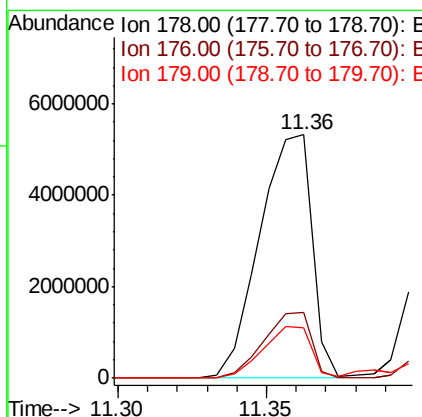
Manual Integrations
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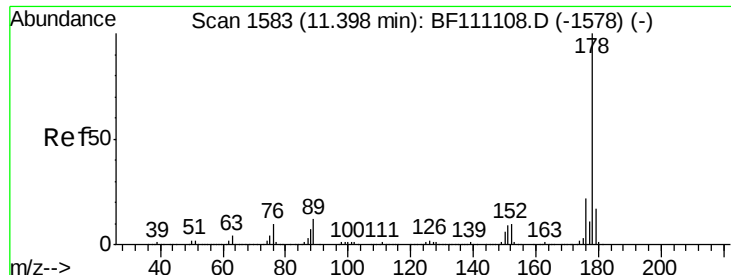
mohammad
12/10/2018 12:19:20 PM



#71
Phenanthrene
Concen: 117.091 ng m
RT: 11.36 min Scan# 1577
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	27.1	17.7	26.5#
179	20.7	14.0	21.0





#72

Anthracene

Concen: 43.087 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.01 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Instrument :

BNA_F

ClientSampleId :

SB-10(0-2)

Tot Ion:178 Resp: 2424649

Ion Ratio Lower Upper

178 100

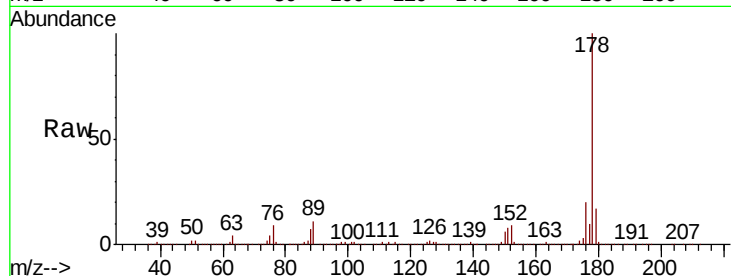
176 20.3 17.3 25.9

179 16.7 13.8 20.8

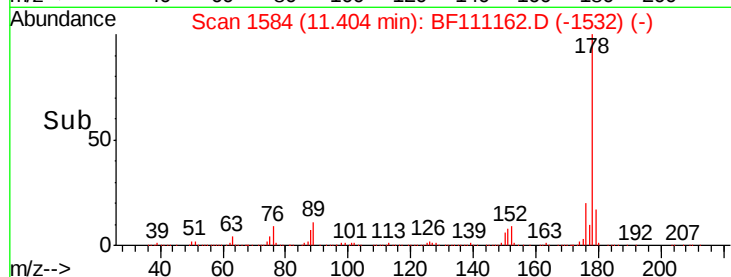
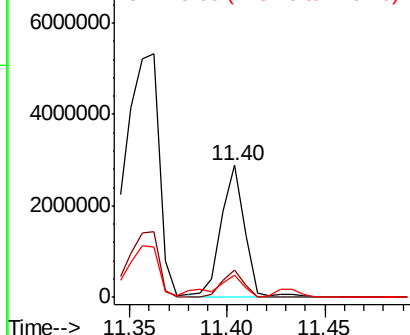
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 20.005 ng

RT: 11.55 min Scan# 1609

Delta R.T. 0.01 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Tgt Ion:167 Resp: 1171385

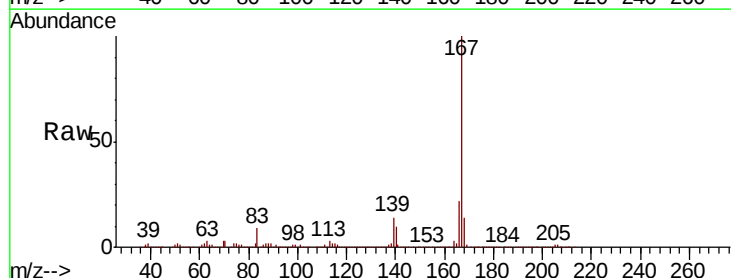
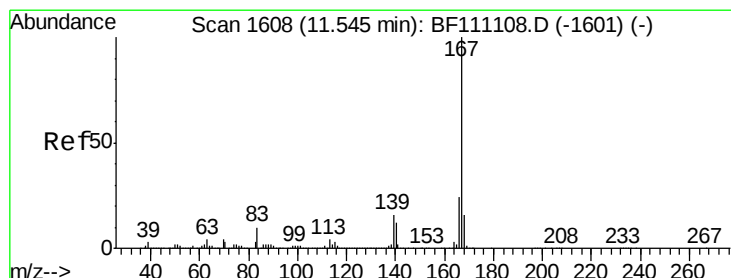
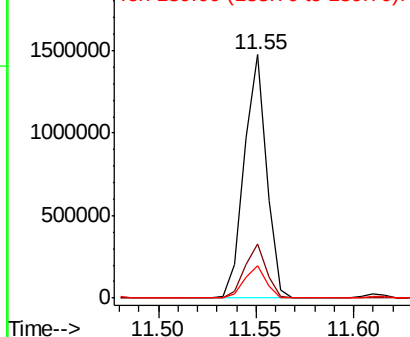
Ion Ratio Lower Upper

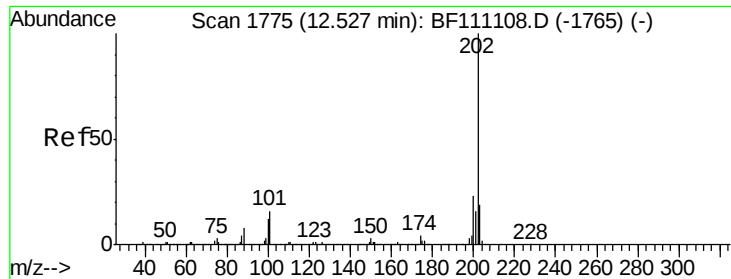
167 100

166 22.2 19.4 29.0

139 13.5 12.6 18.8

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 145.876 ng

RT: 12.55 min Scan# 1779

Delta R.T. 0.02 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Instrument :

BNA_F

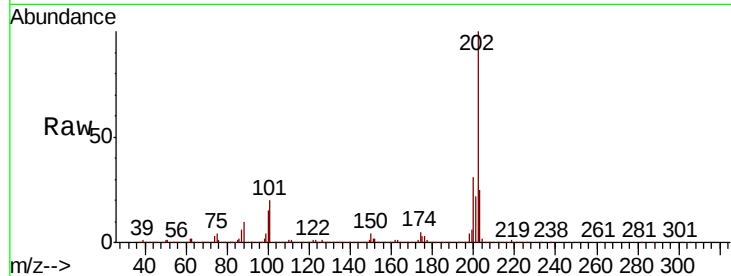
ClientSampleId :

SB-10(0-2)

Tot Ion:	202	Resp:	7968961
Ion	Ratio	Lower	Upper
202	100		
101	20.0	0.0	35.8
203	25.2	0.0	38.6

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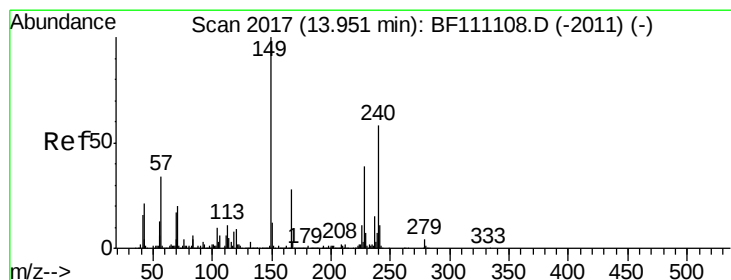
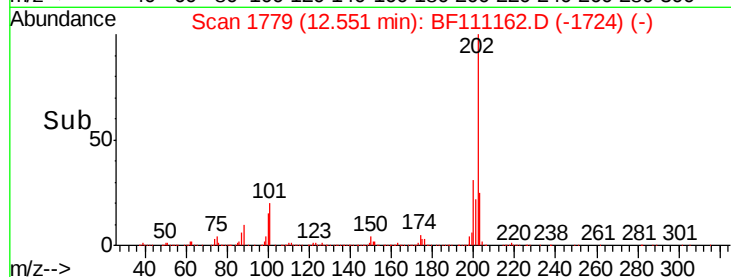
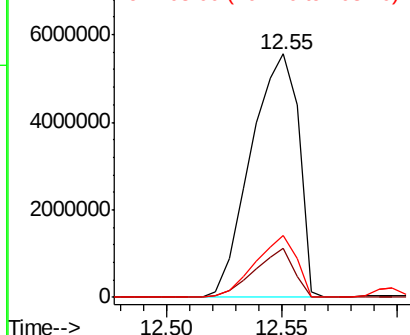


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

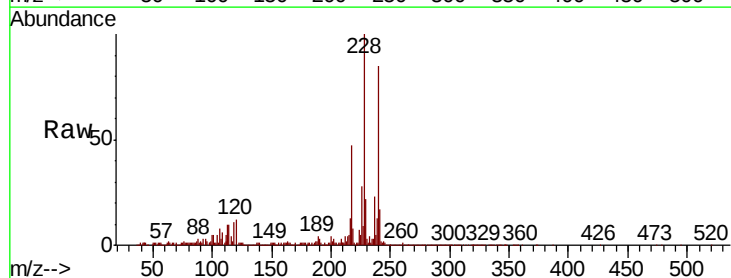
RT: 13.97 min Scan# 2020

Delta R.T. 0.02 min

Lab File: BF111162.D

Acq: 7 Dec 2018 2:17

Tgt Ion:	240	Resp:	876584
Ion	Ratio	Lower	Upper
240	100		
120	14.5	12.8	19.2
236	26.7	21.1	31.7

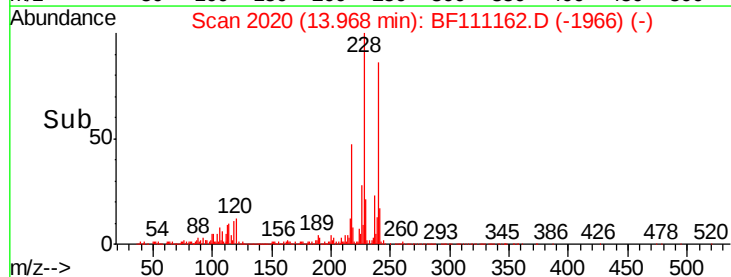
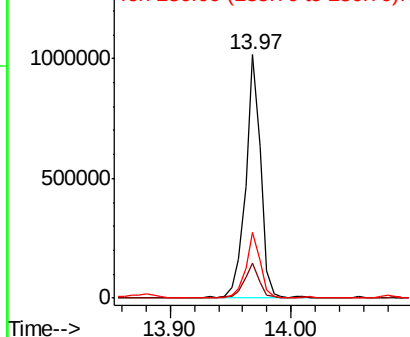


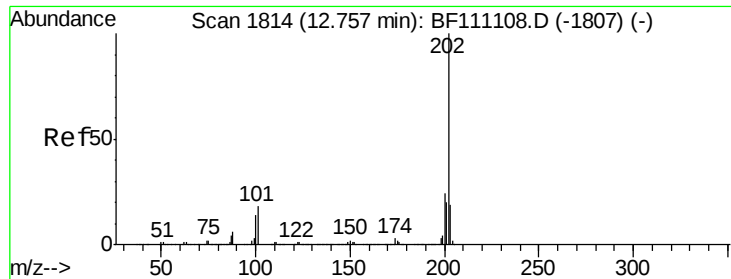
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





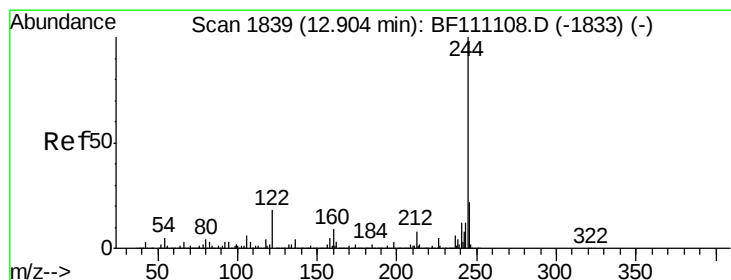
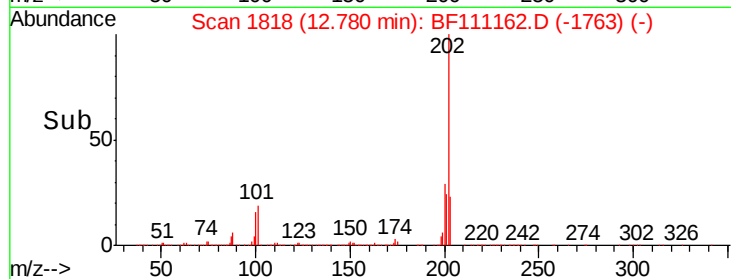
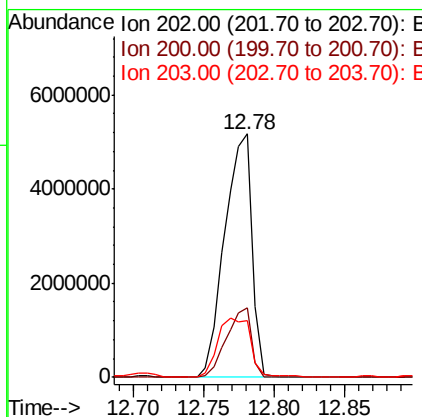
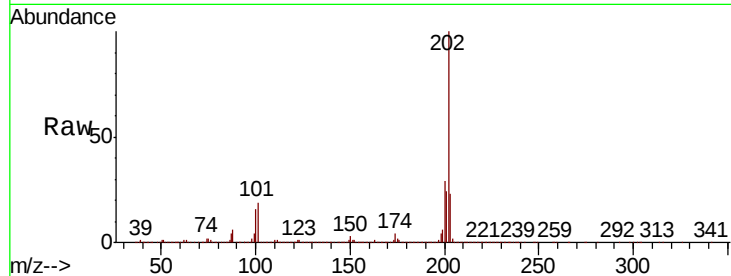
#78
Pvrene
Concen: 101.408 ng
RT: 12.78 min Scan# 1818
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
202	100		
200	28.8	19.3	28.9
203	23.1	15.4	23.2

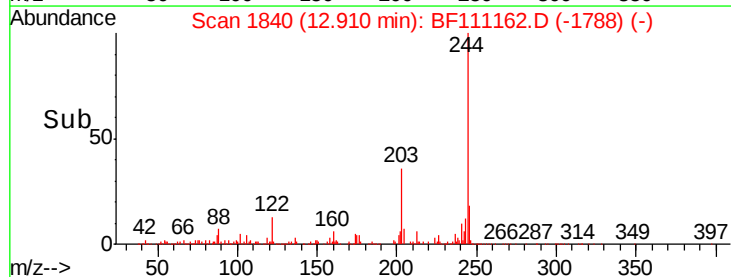
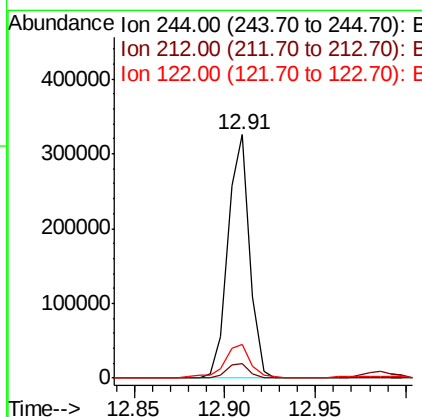
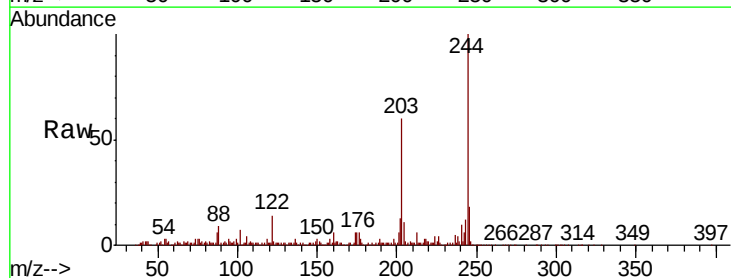
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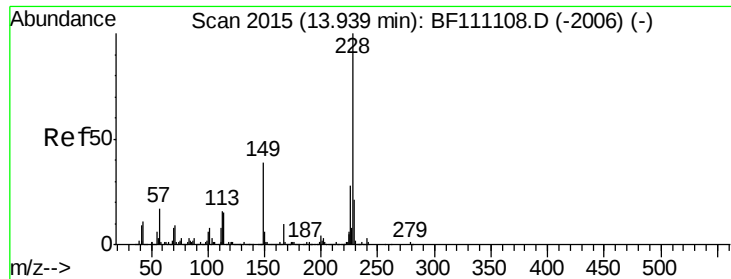
mohammad
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#79
Terphenyl-d14
Concen: 6.335 ng
RT: 12.91 min Scan# 1840
Delta R.T. 0.01 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.9	6.6	9.8#
122	13.6	14.2	21.2#





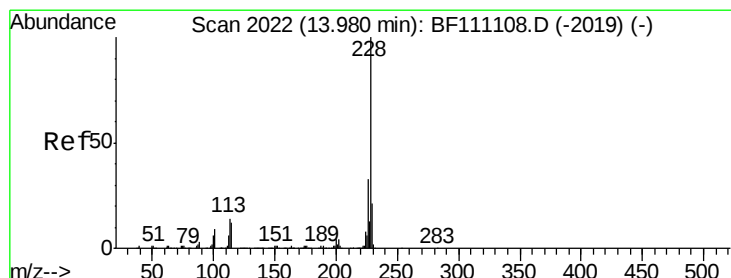
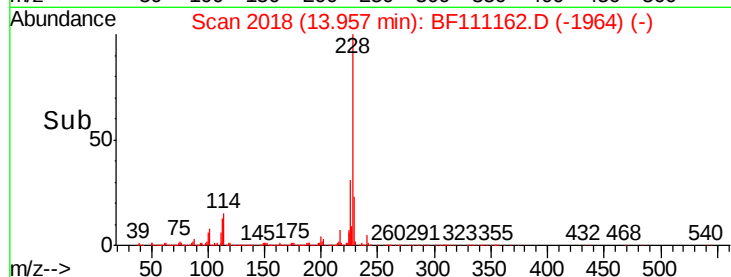
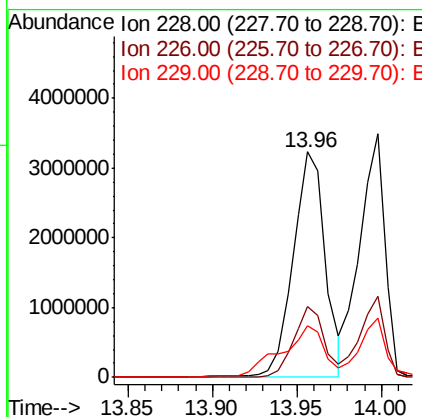
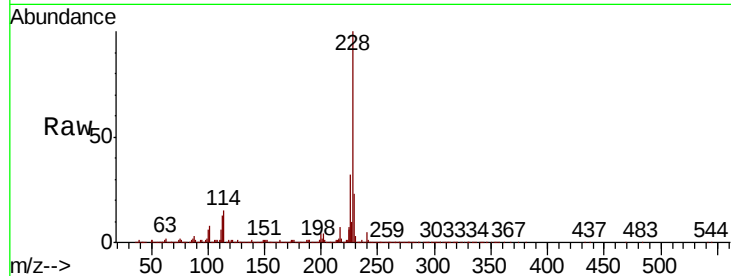
#81
Benzo(a)anthracene
Concen: 82.881 ng
RT: 13.96 min Scan# 2018
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion:228 Resp: 4256695
Ion Ratio Lower Upper
228 100
226 31.6 22.6 34.0
229 22.8 16.7 25.1

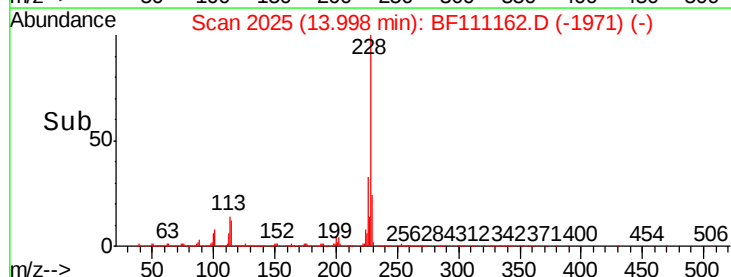
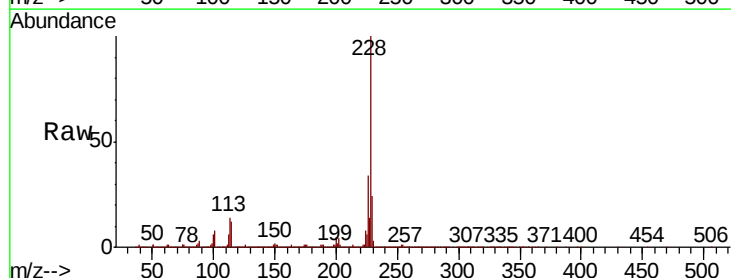
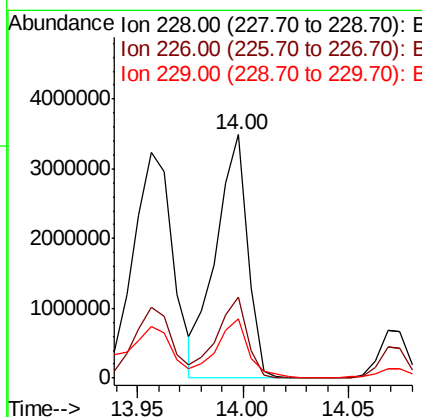
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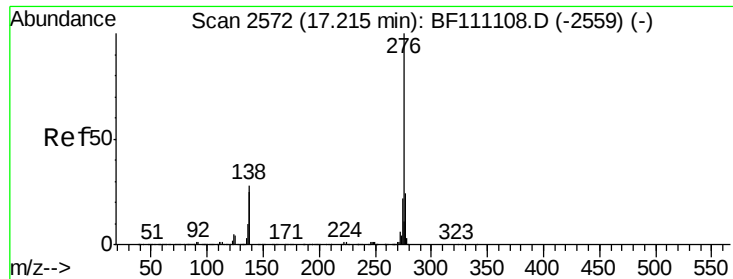
mohammad
12/10/2018 12:19:20 PM



#83
Chrysene
Concen: 70.888 ng
RT: 14.00 min Scan# 2025
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion:228 Resp: 3614281
Ion Ratio Lower Upper
228 100
226 33.5 26.2 39.2
229 24.4 16.9 25.3





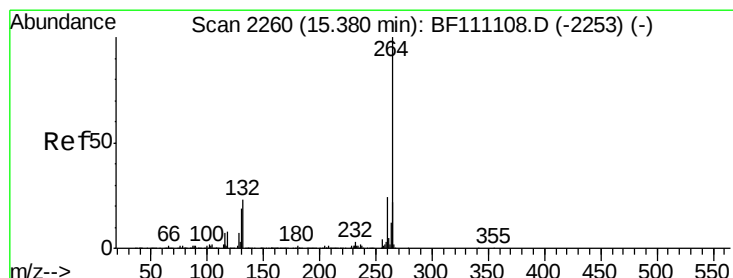
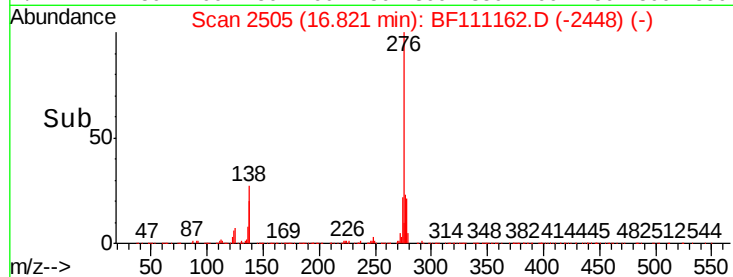
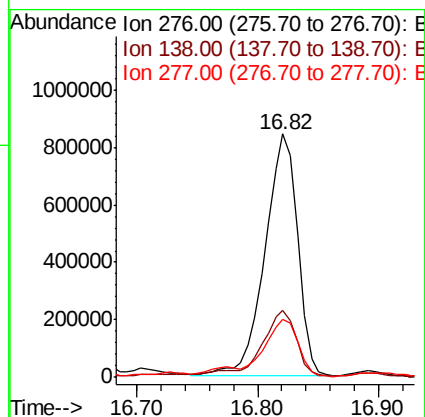
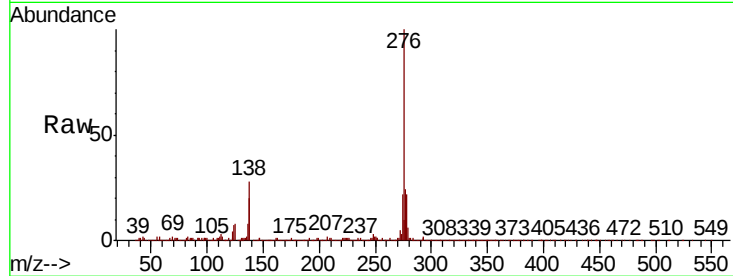
#86
Indeno(1,2,3-cd)pyrene
Concen: 38.374 ng
RT: 16.82 min Scan# 2505
Delta R.T. 0.04 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.8	20.2	30.4
277	24.0	15.8	23.6

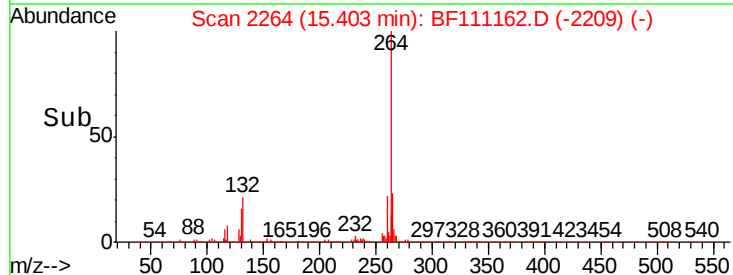
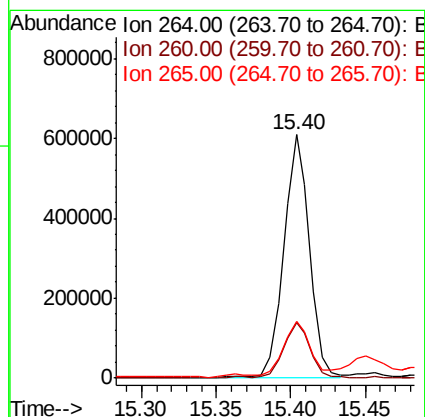
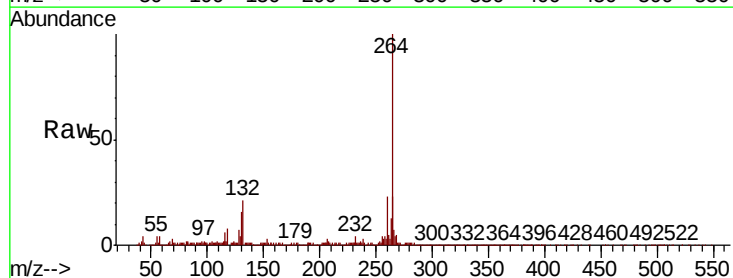
Manual Integrations
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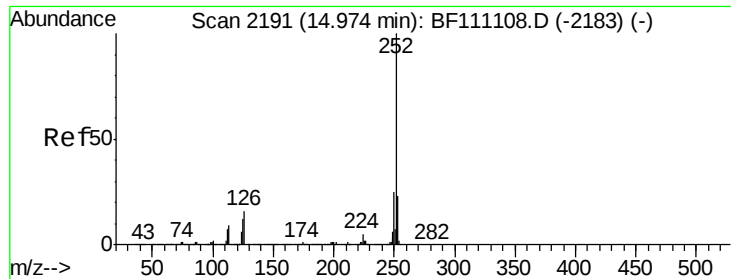
mohammad
12/10/2018 12:19:20 PM



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.4	29.0
265	23.2	17.4	26.0





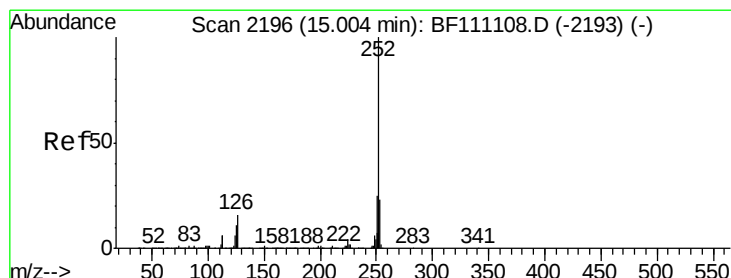
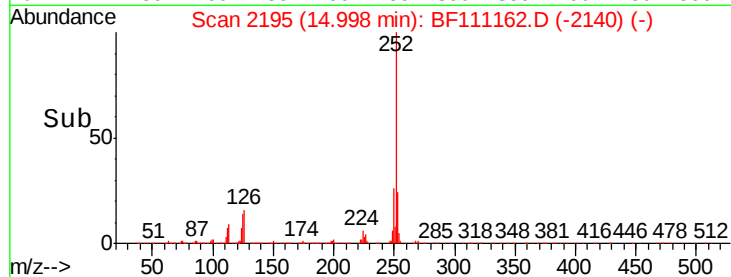
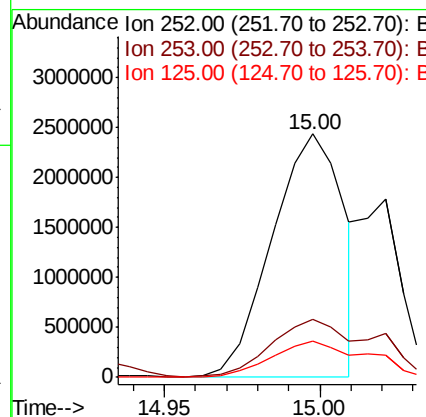
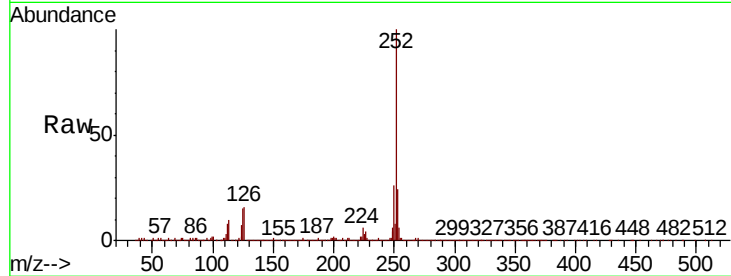
#88
Benzo(b)fluoranthene
Concen: 94.837 ng m
RT: 15.00 min Scan# 2195
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.5	27.7
125	14.6	9.9	14.9

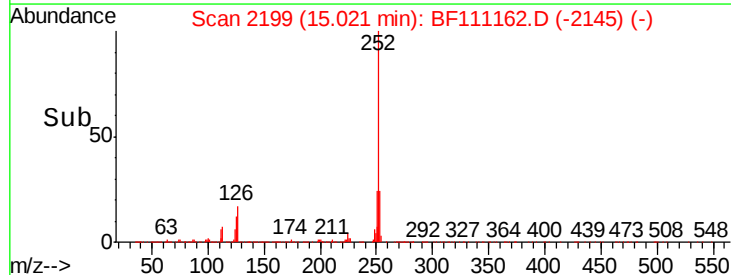
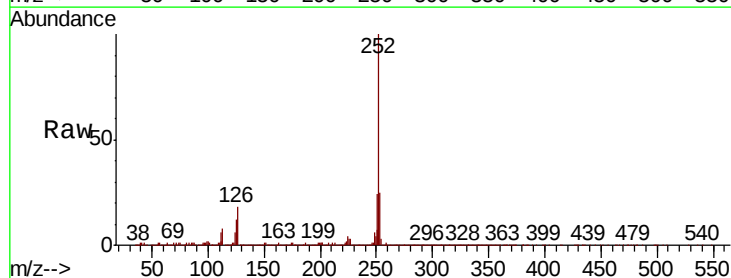
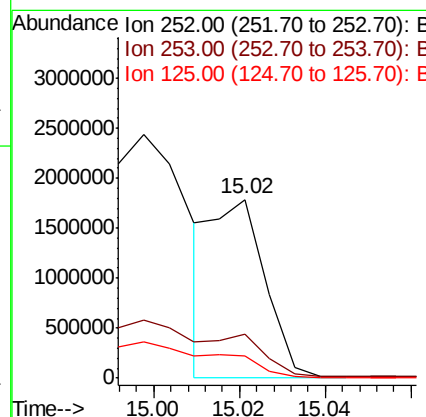
Manual Integrations
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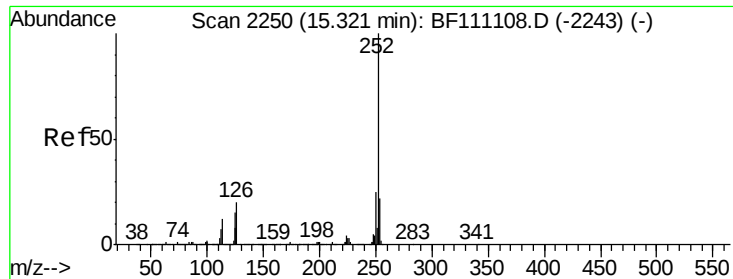
mohammad
12/10/2018 12:19:20 PM



#89
Benzo(k)fluoranthene
Concen: 38.364 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.4
125	12.5	9.9	14.9





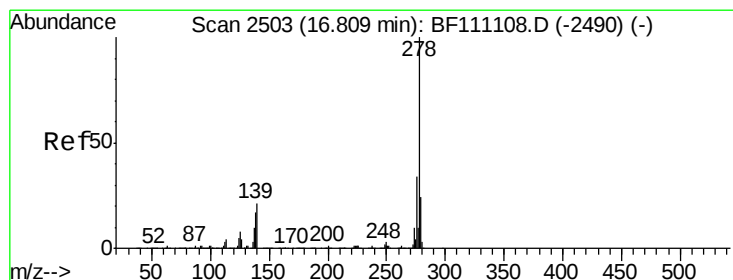
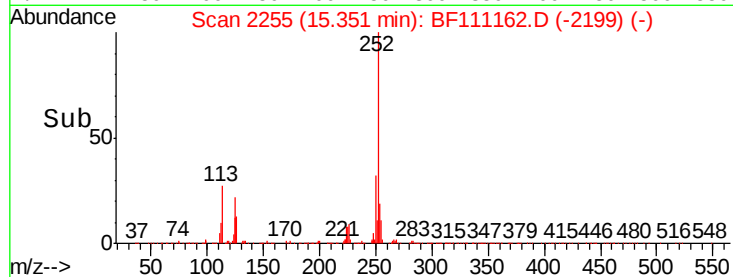
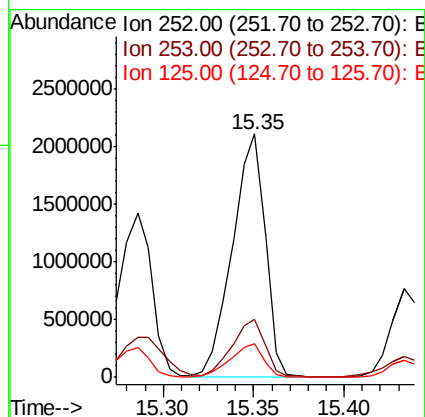
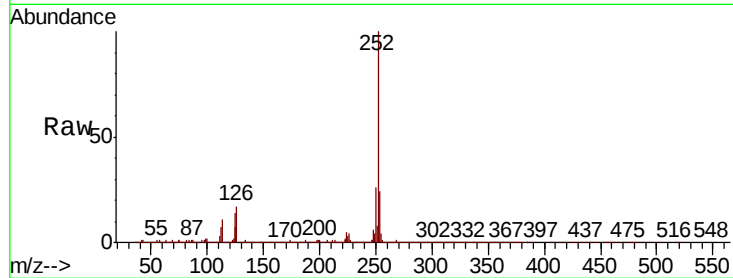
#90
Benzo(a)pyrene
Concen: 69.654 ng
RT: 15.35 min Scan# 2255
Delta R.T. 0.03 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Instrument :
BNA_F
ClientSampleId :
SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	14.0	12.4	18.6

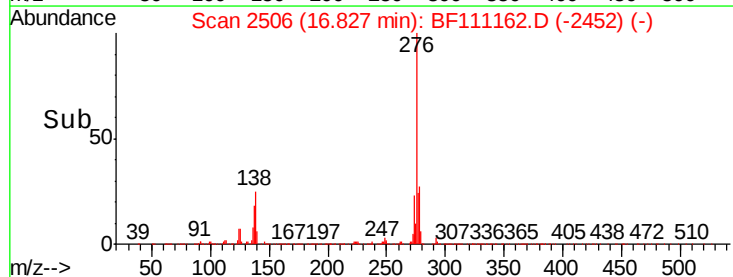
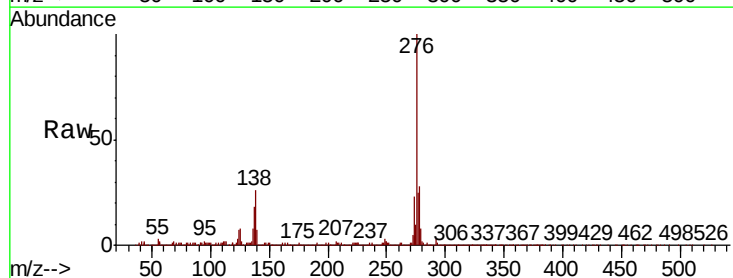
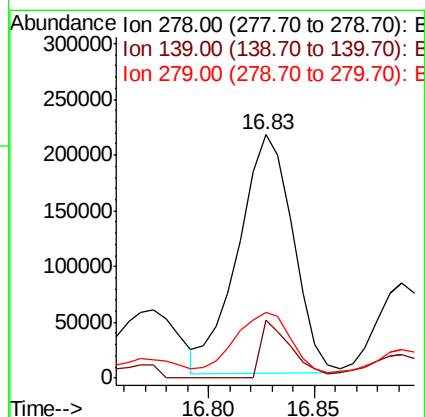
Manual Integrations
APPROVED

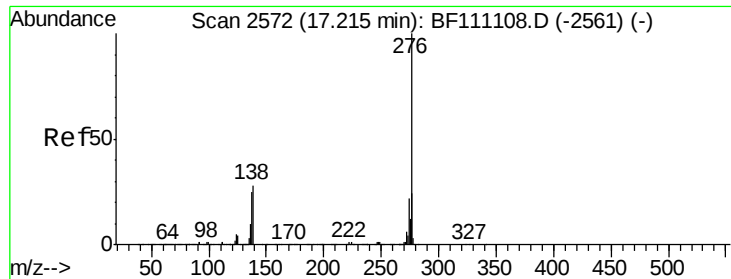
mohammad
12/10/2018 12:19:20 PM



#91
Dibenzo(a,h)anthracene
Concen: 12.130 ng
RT: 16.83 min Scan# 2506
Delta R.T. 0.02 min
Lab File: BF111162.D
Acq: 7 Dec 2018 2:17

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.8	16.6	25.0
279	27.1	18.8	28.2





#92
 Benzo(a,h,i)perylene
 Concen: 44.183 ng
 RT: 17.25 min Scan# 2578
 Delta R.T. 0.04 min
 Lab File: BF111162.D
 Acq: 7 Dec 2018 2:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-10(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.3	28.9
138	27.6	22.3	33.5

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