

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051619\
 Data File : BF114321.D
 Acq On : 16 May 2019 20:39
 Operator : JU/SJ
 Sample : K2866-07
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-3

Manual Integrations
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 5/17/2019 3:03:56 PM

Quant Time: May 17 08:51:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	237713	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	901849	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	410850	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	690996	20.00	ng	0.00
76) Chrysene-d12	14.02	240	403152	20.00	ng	0.00
87) Perylene-d12	15.50	264	556241	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1660430	112.41	ng	0.00
7) Phenol-d6	6.50	99	2216704	126.88	ng	0.00
23) Nitrobenzene-d5	7.41	82	1368488	85.16	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	453545	106.78	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	2111447	77.74	ng	0.00
79) Terphenyl-d14	12.96	244	1512662	77.35	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.15	128	106487	2.528	ng	97
37) 2-Methylnaphthalene	8.85	142	75692	2.785	ng	98
38) 1-Methylnaphthalene	8.95	142	65282	2.550	ng	98
50) Dimethylphthalate	9.60	163	355434	11.785	ng	100
52) Acenaphthene	9.92	154	283963	11.390	ng	99
55) Dibenzofuran	10.09	168	126461	3.459	ng	94
58) Fluorene	10.43	166	233918	8.284	ng	99
71) Phenanthrene	11.40	178	2692881	80.103	ng	100
72) Anthracene	11.45	178	609158	18.040	ng	98
73) Carbazole	11.60	167	136594	4.242	ng	97
75) Fluoranthene	12.59	202	1863650	51.479	ng	97
78) Pyrene	12.83	202	2240253	69.076	ng	99
81) Benzo(a)anthracene	14.01	228	952224	36.518	ng	100
83) Chrysene	14.04	228	897827	35.124	ng	99
86) Indeno(1,2,3-cd)pyrene	16.98	276	425550	18.837	ng	97
88) Benzo(b)fluoranthene	15.07	252	927737m	26.034	ng	
89) Benzo(k)fluoranthene	15.09	252	279335m	8.533	ng	
90) Benzo(a)pyrene	15.44	252	727060	23.182	ng	99
91) Dibenzo(a,h)anthracene	16.98	278	156557m	6.007	ng	
92) Benzo(a,h,i)perylene	17.43	276	408136	15.627	ng	98

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

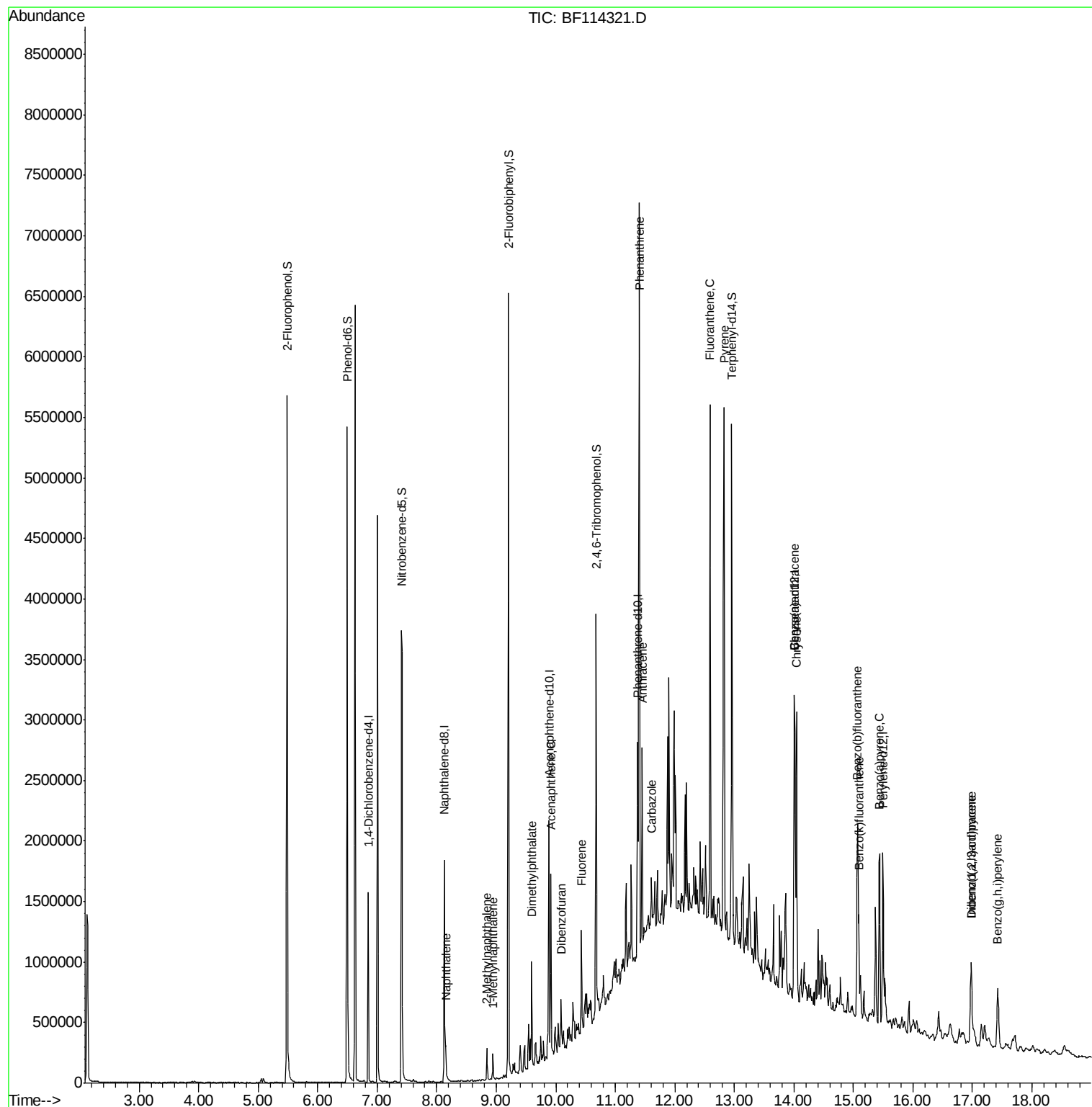
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF051619\
Data File : BF114321.D
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Operator : JU/SJ
Sample : K2866-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

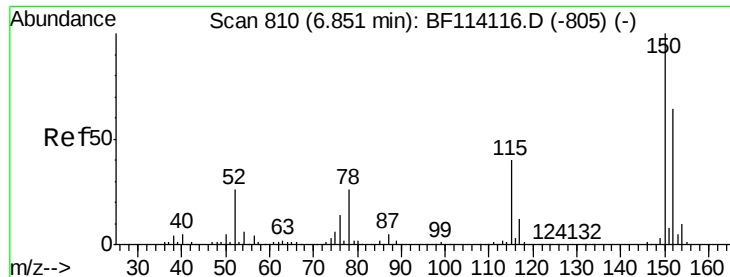
Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

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Quant Time: May 17 08:51:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

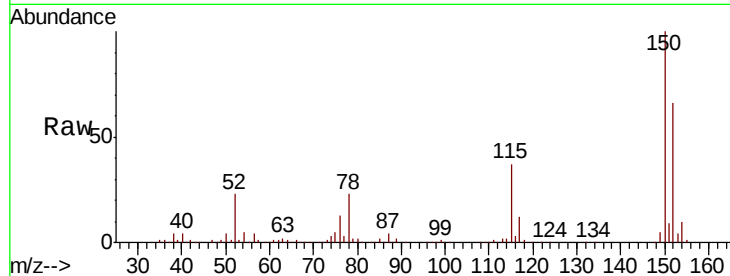
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.3	186.5
115	55.5	49.1	73.7

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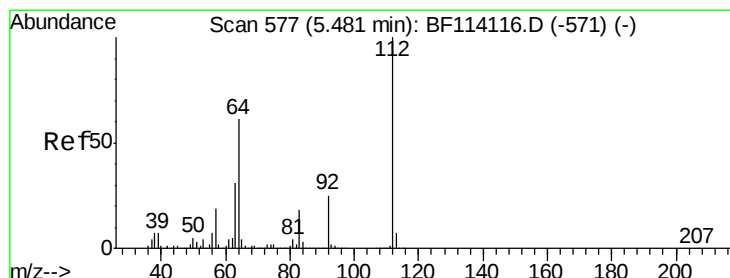
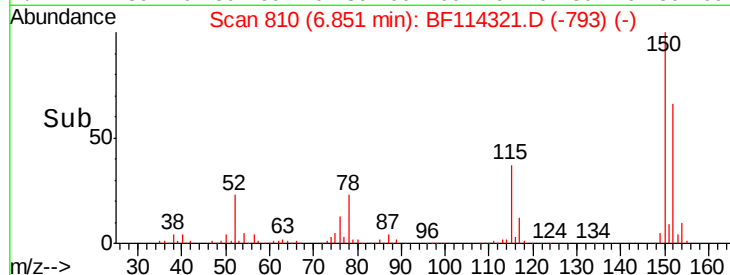
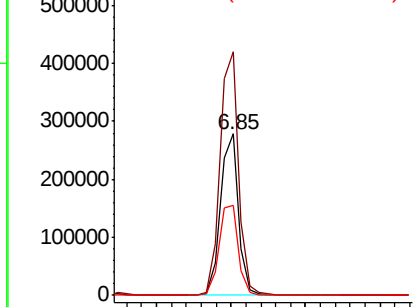


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

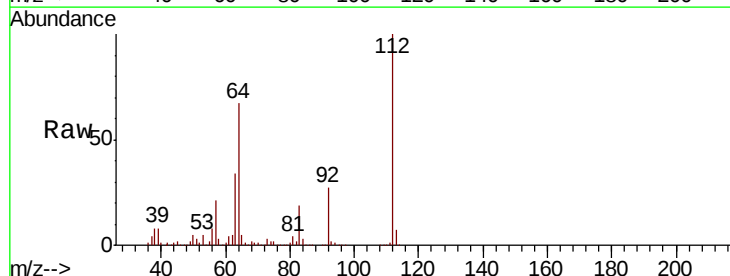
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 112.407 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.6	49.0	73.6
63	34.0	24.6	37.0

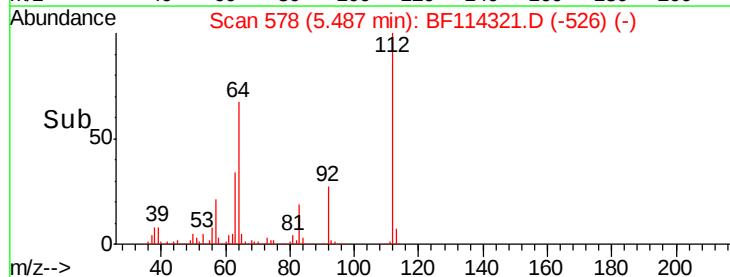
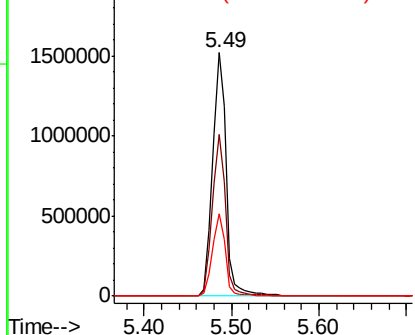


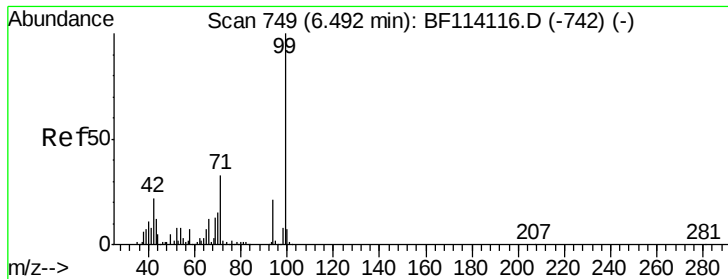
Abundance

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: 126.881 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Instrument :

BNA_F

ClientSampleId :

RO-COMP-3

Tot Ion: 99 Resp: 2216704

Ion Ratio Lower Upper

99 100

42 22.4 17.9 26.9

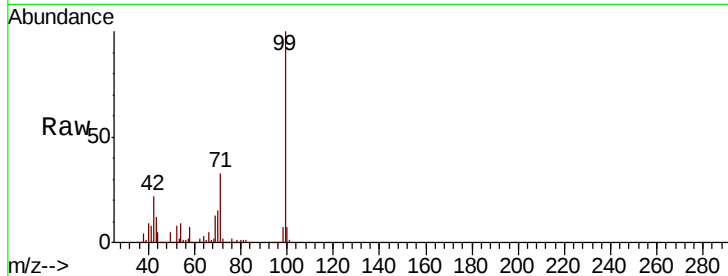
71 33.0 26.2 39.2

Manual Integrations

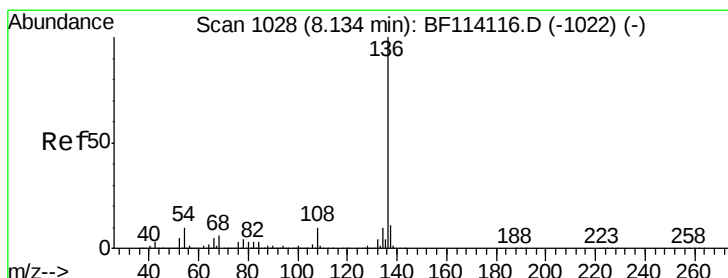
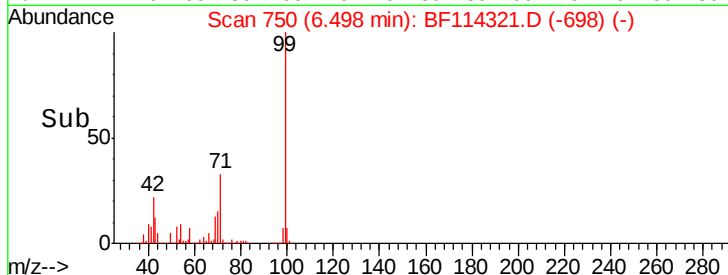
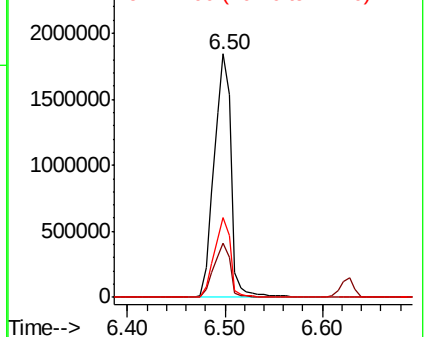
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Tgt Ion: 136 Resp: 901849

Ion Ratio Lower Upper

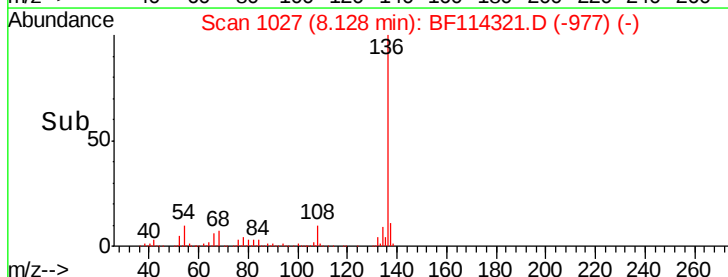
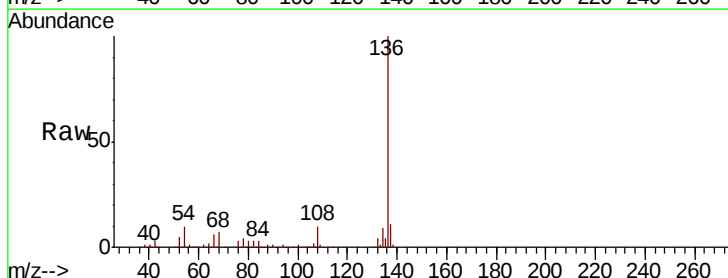
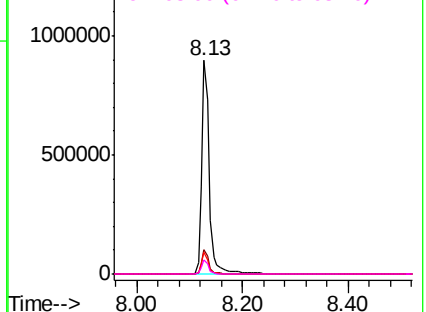
136 100

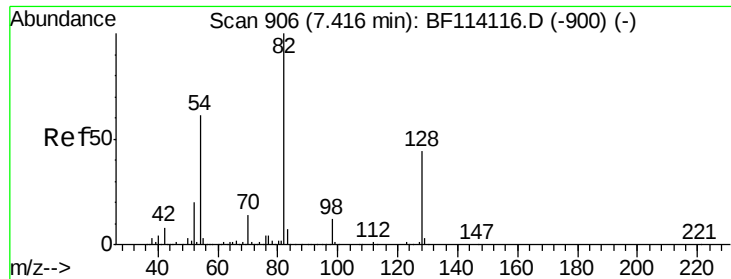
137 11.1 8.8 13.2

54 10.2 7.8 11.8

68 6.7 5.1 7.7

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





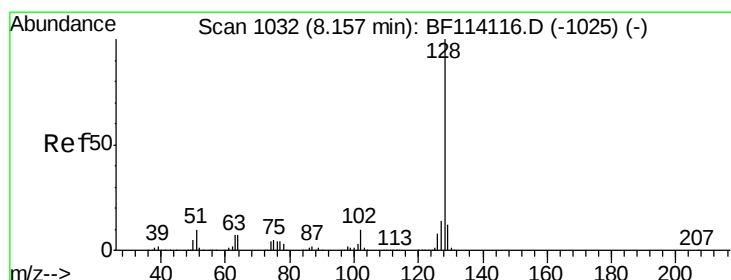
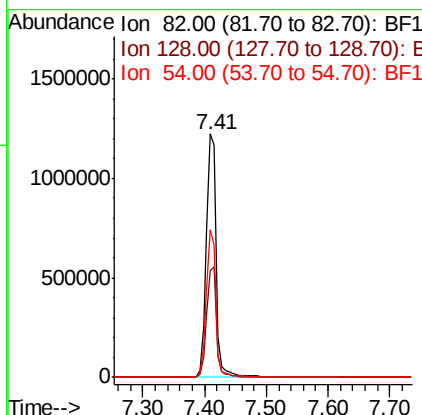
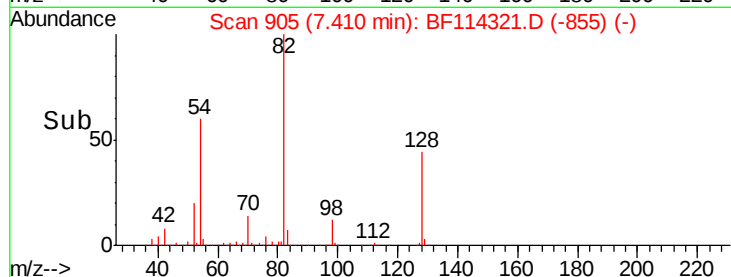
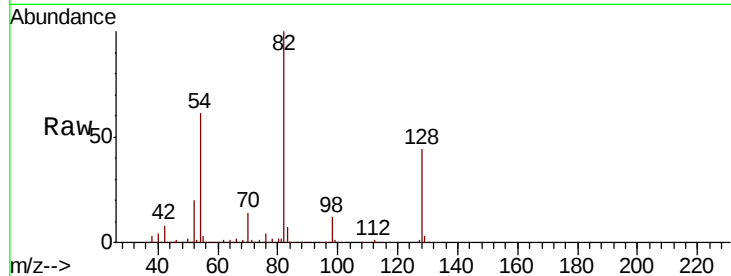
#23
Nitrobenzene-d5
Concen: 85.158 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.8	35.5	53.3
54	60.5	48.5	72.7

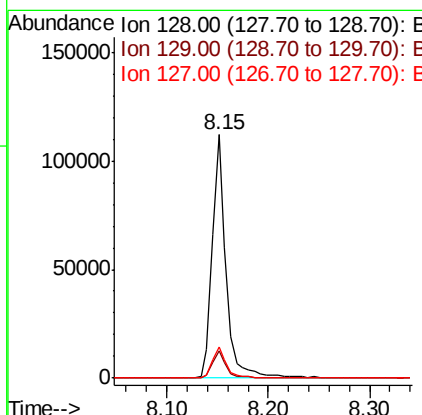
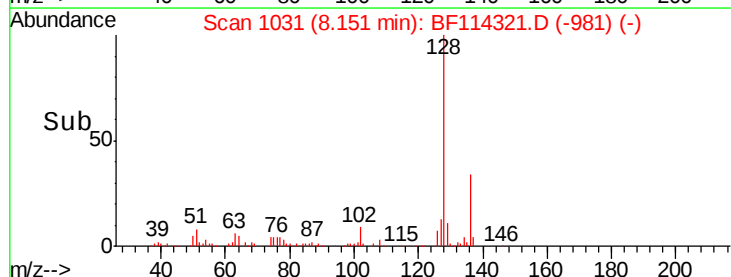
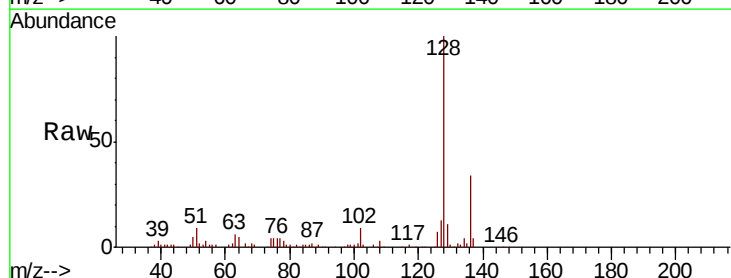
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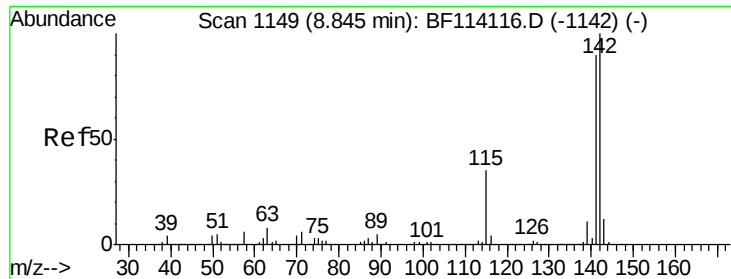
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#31
Naphthalene
Concen: 2.528 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.6	14.4
127	12.9	11.3	16.9





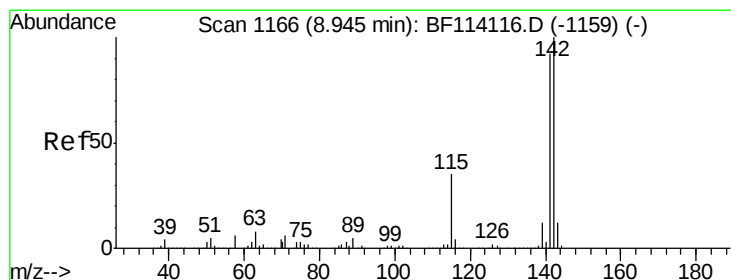
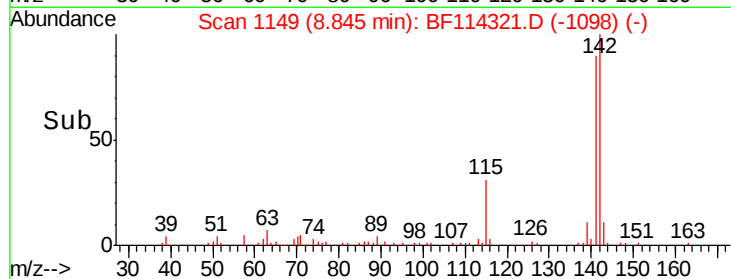
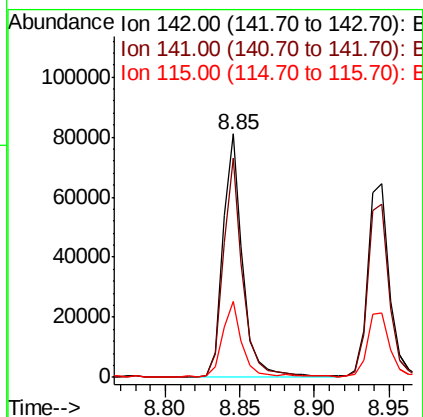
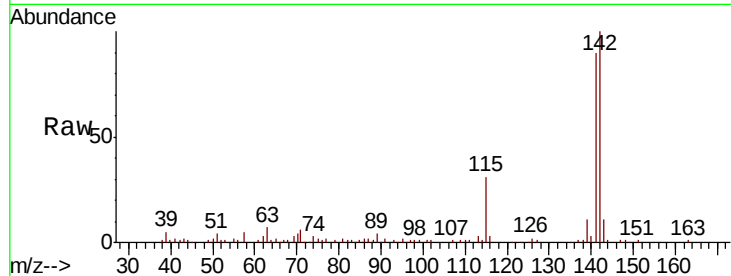
#37
2-Methylnaphthalene
Concen: 2.785 ng
RT: 8.85 min Scan# 1149
Delta R.T. -0.00 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.1	108.1
115	31.3	28.0	42.0

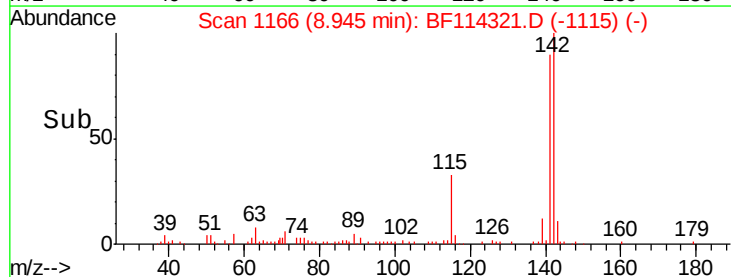
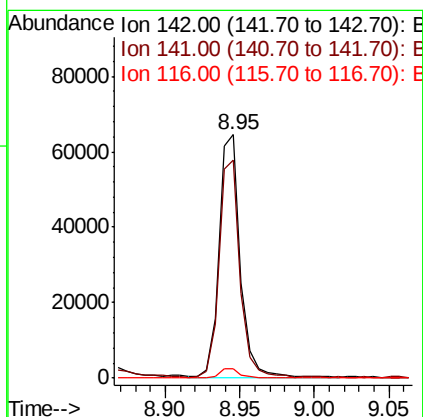
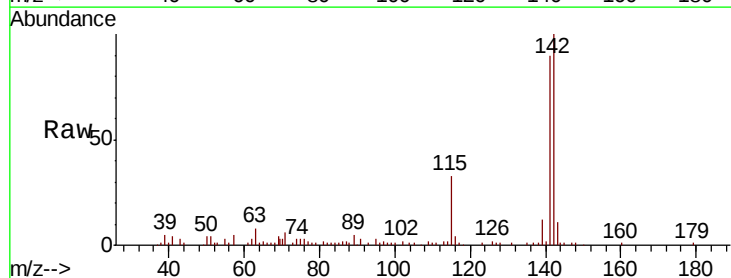
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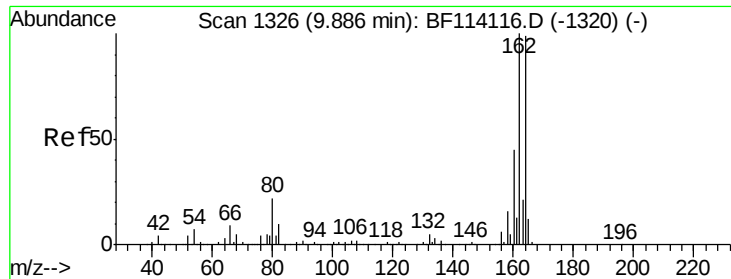
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#38
1-Methylnaphthalene
Concen: 2.550 ng
RT: 8.95 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	73.4	110.0
116	3.7	3.1	4.7





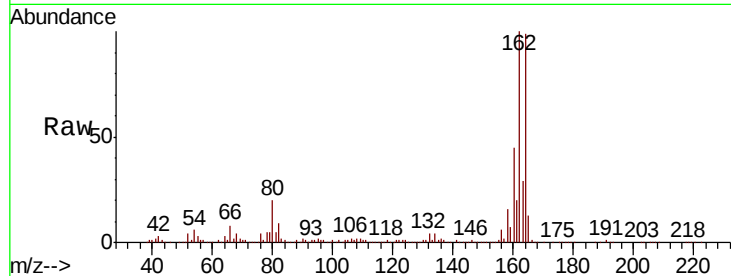
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.9	80.6	120.8	
160	45.7	36.5	54.7	

Manual Integrations
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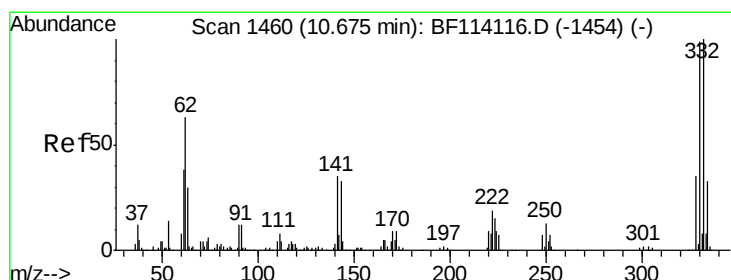
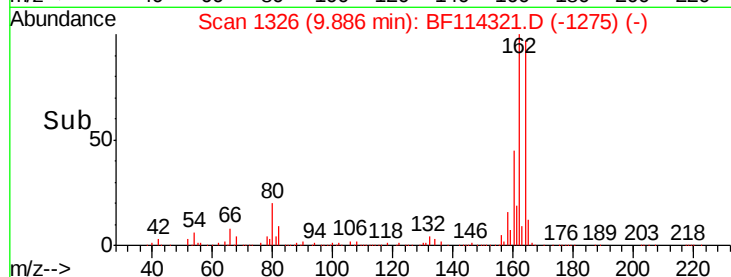
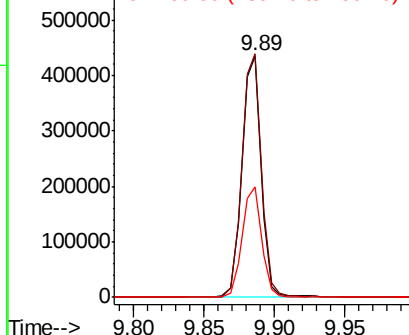


Abundance

Ion 164.00 (163.70 to 164.70): E

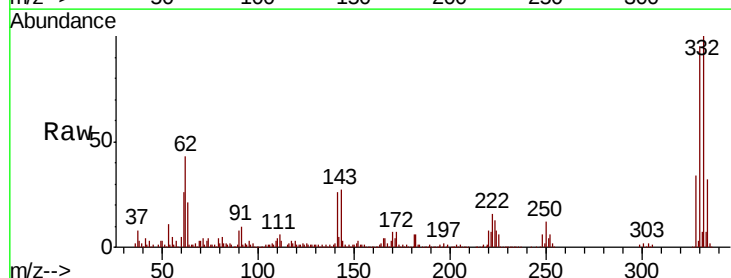
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 106.779 ng
RT: 10.68 min Scan# 1461
Delta R.T. 0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	102.1	81.4	122.2	
141	34.2	26.6	40.0	

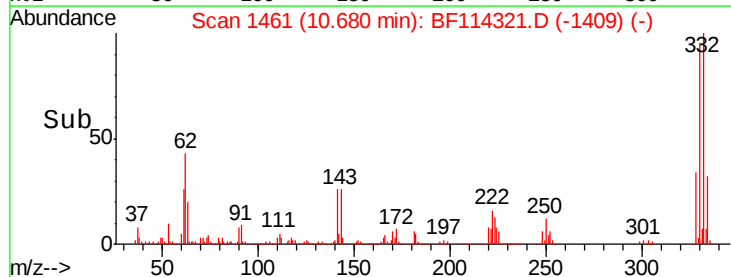
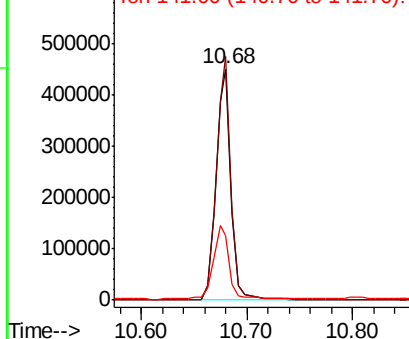


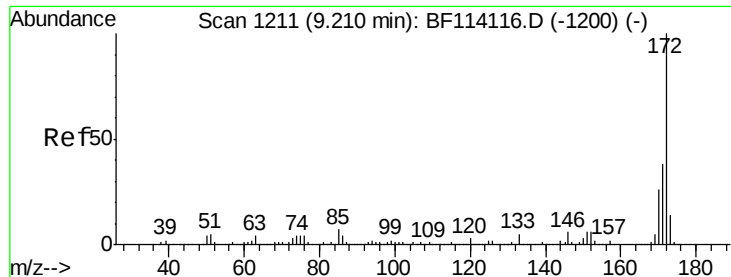
Abundance

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





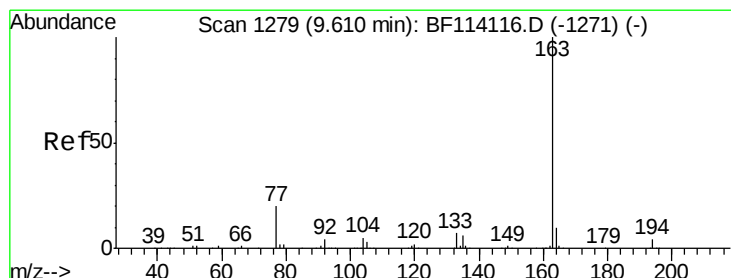
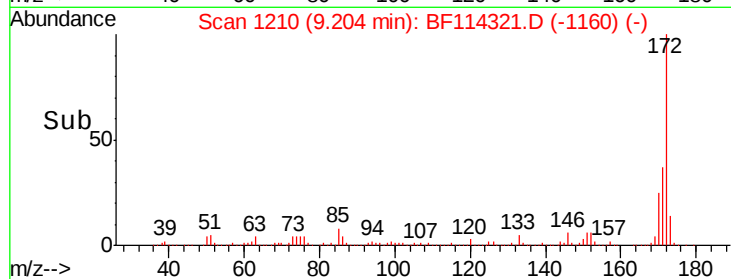
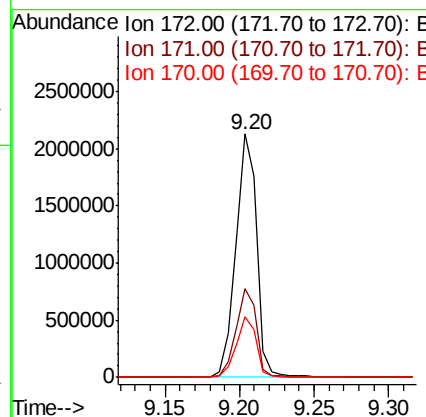
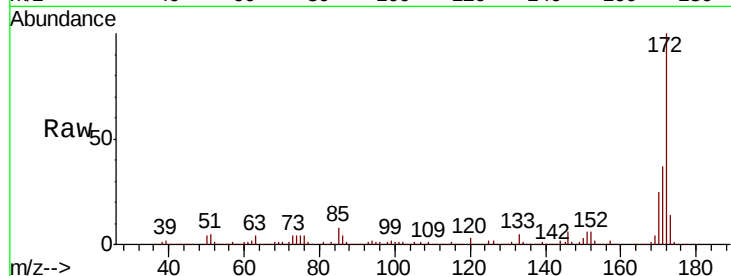
#45
2-Fluorobiphenyl
Concen: 77.739 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampled :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.6	30.7	46.1
170	24.8	20.5	30.7

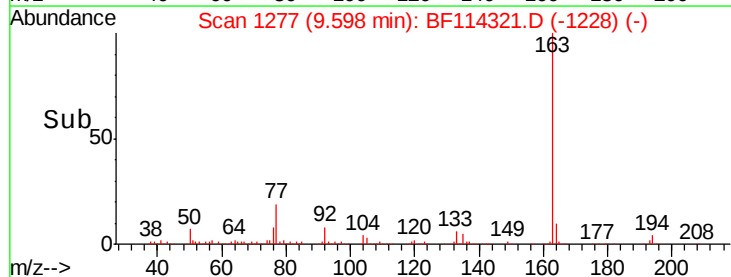
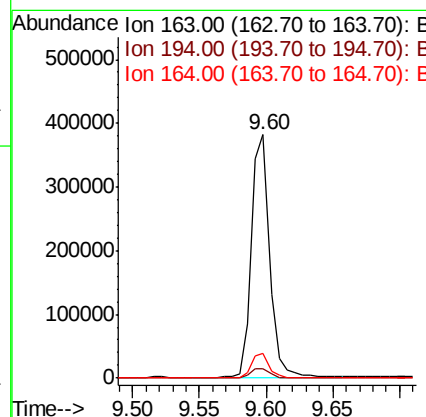
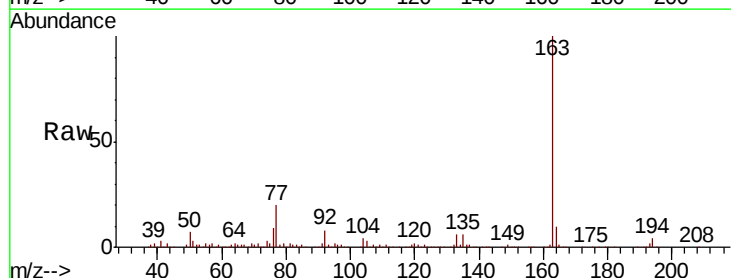
Manual Integrations
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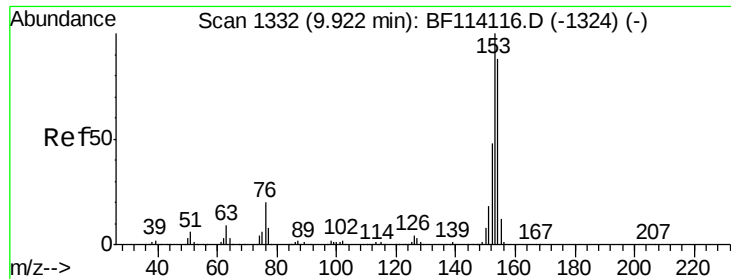
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#50
Dimethylphthalate
Concen: 11.785 ng
RT: 9.60 min Scan# 1277
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.2	12.2





#52

Acenaphthene

Concen: 11.390 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Instrument :

BNA_F

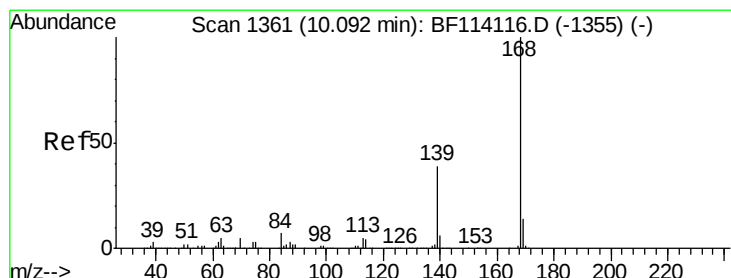
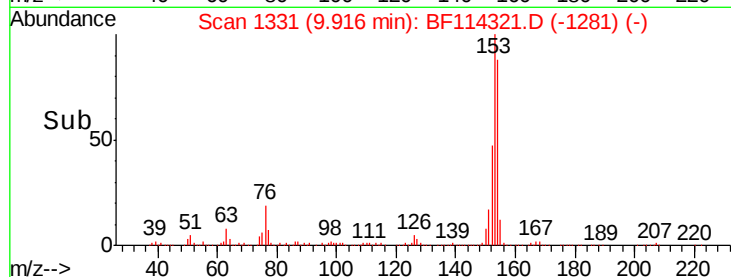
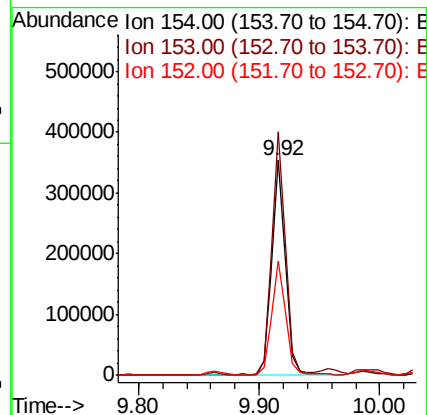
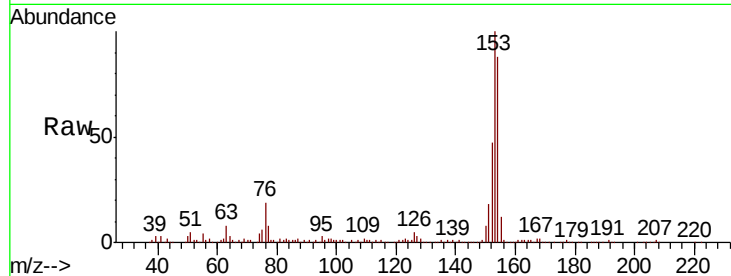
ClientSampleId :

RO-COMP-3

Tot Ion:	154	Resp:	283963
Ion Ratio	Lower	Upper	
154	100		
153	113.3	90.5	135.7
152	53.3	43.4	65.2

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#55

Dibenzofuran

Concen: 3.459 ng

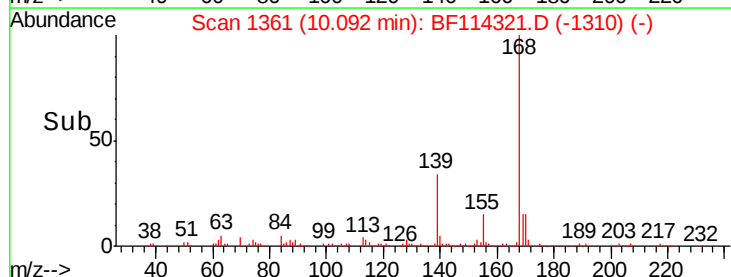
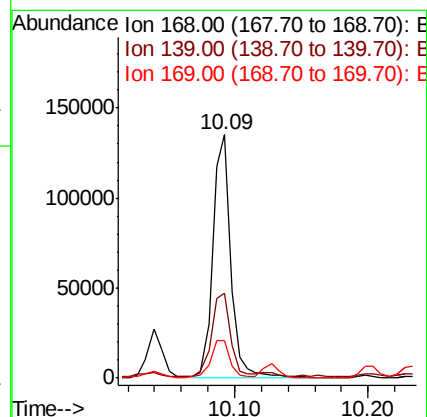
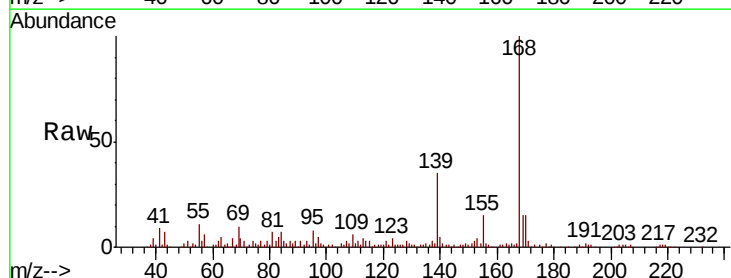
RT: 10.09 min Scan# 1361

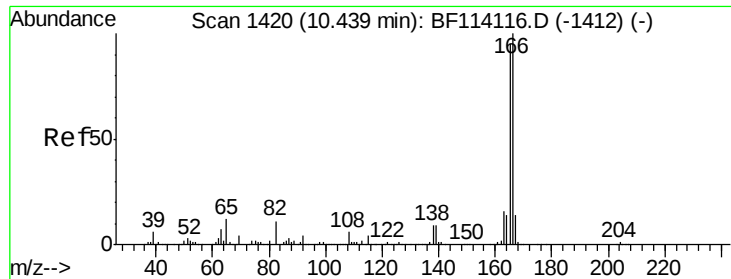
Delta R.T. -0.00 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Tgt Ion:	168	Resp:	126461
Ion Ratio	Lower	Upper	
168	100		
139	34.8	31.1	46.7
169	15.3	11.4	17.0





#58

Fluorene

Concen: 8.284 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Instrument :

BNA_F

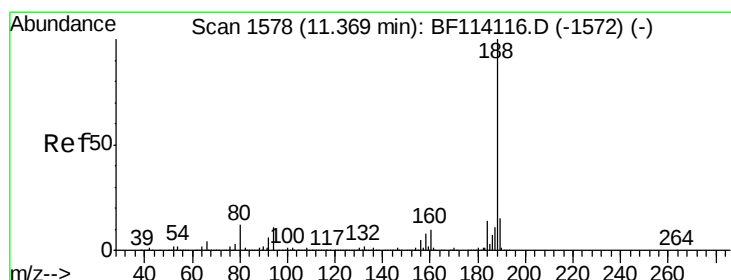
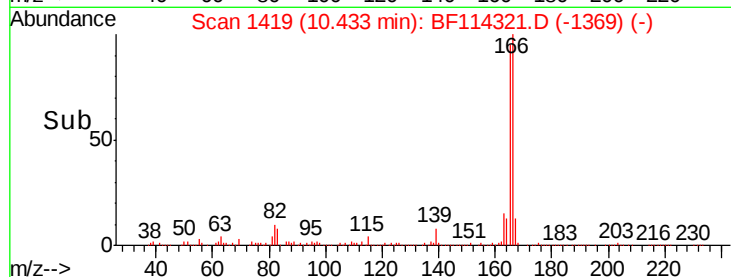
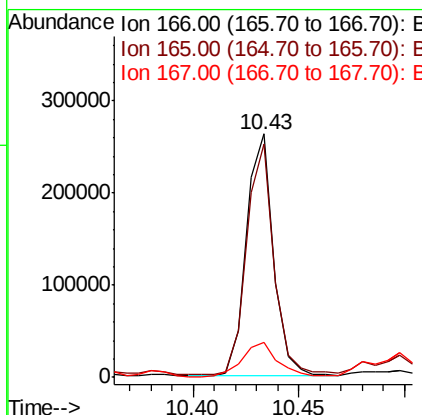
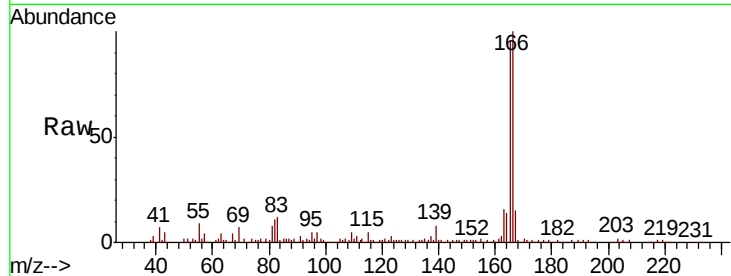
ClientSampleId :

RO-COMP-3

Tot Ion:	166	Resp:	233918
Ion Ratio	Lower	Upper	
166	100		
165	95.9	76.1	114.1
167	14.5	11.1	16.7

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#64

Phenanthrene-d10

Concen: 20.000 ng

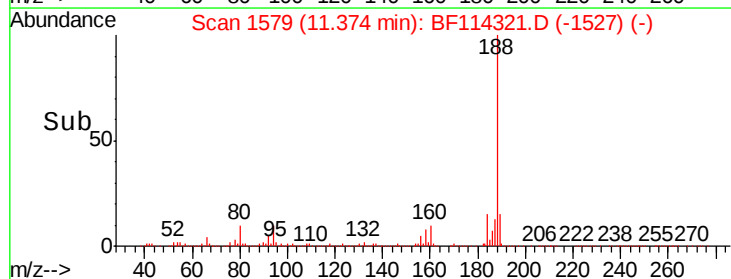
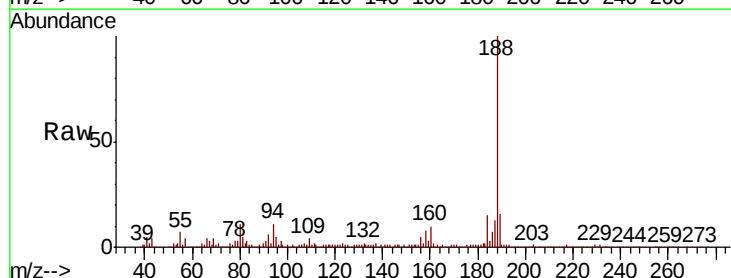
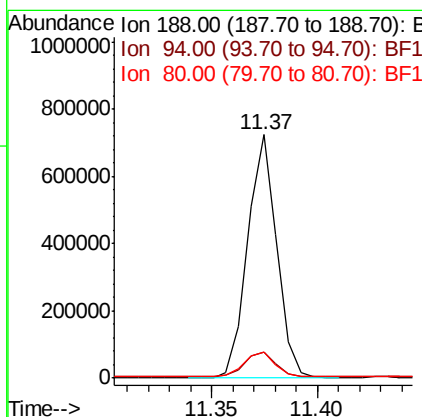
RT: 11.37 min Scan# 1579

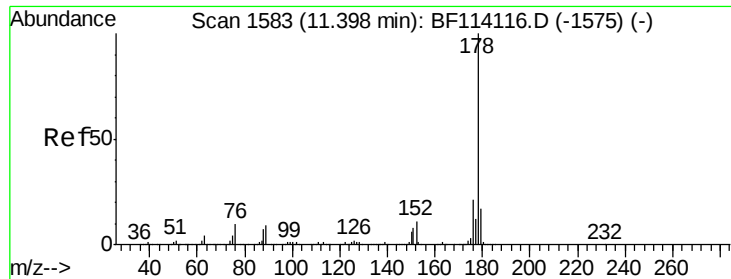
Delta R.T. 0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Tgt Ion:	188	Resp:	690996
Ion Ratio	Lower	Upper	
188	100		
94	10.9	8.4	12.6
80	10.7	9.2	13.8





#71

Phenanthrene

Concen: 80.103 ng

RT: 11.40 min Scan# 1584

Delta R.T. 0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Instrument :

BNA_F

ClientSampleId :

RO-COMP-3

Tot Ion:178 Resp: 2692881

Ion Ratio Lower Upper

178 100

176 20.4 16.4 24.6

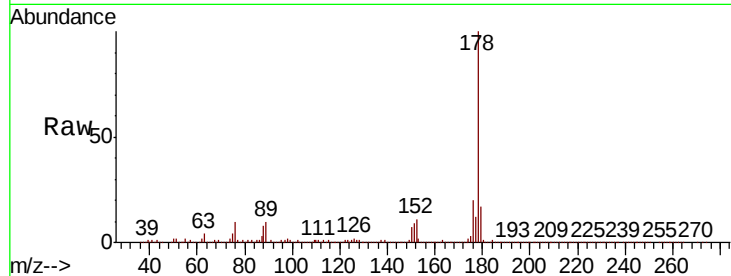
179 16.6 13.2 19.8

Manual Integrations

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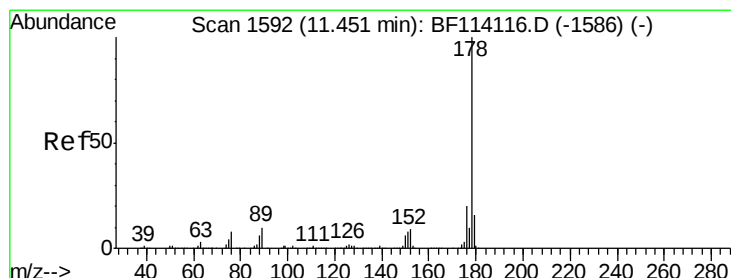
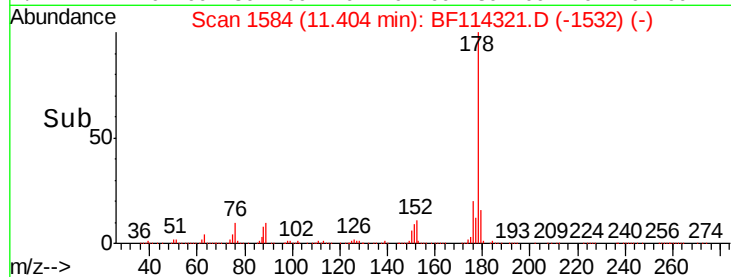
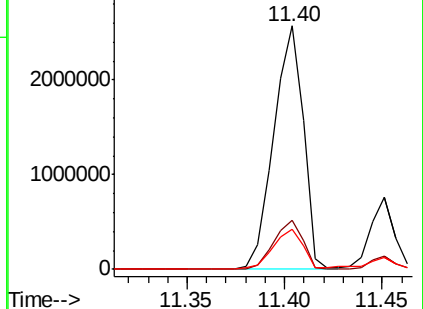
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 18.040 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.00 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

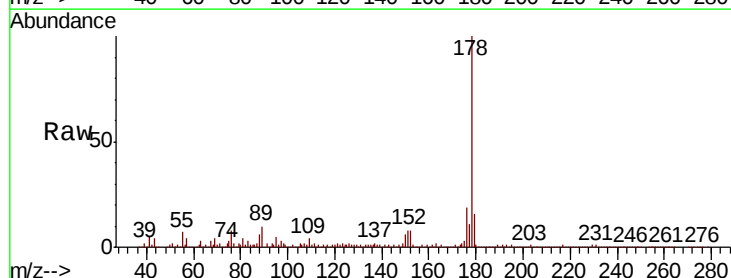
Tgt Ion:178 Resp: 609158

Ion Ratio Lower Upper

178 100

176 18.6 15.8 23.8

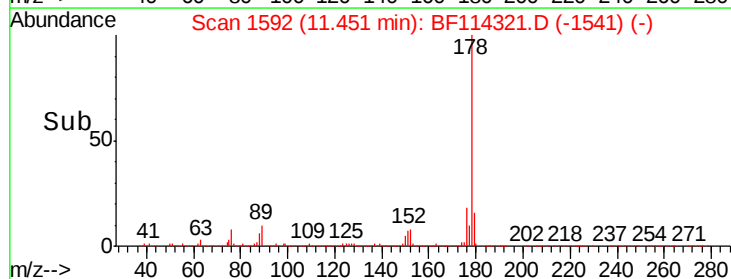
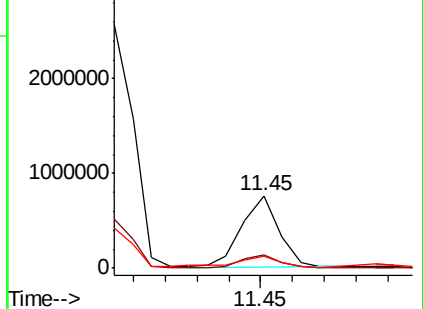
179 16.3 13.0 19.4

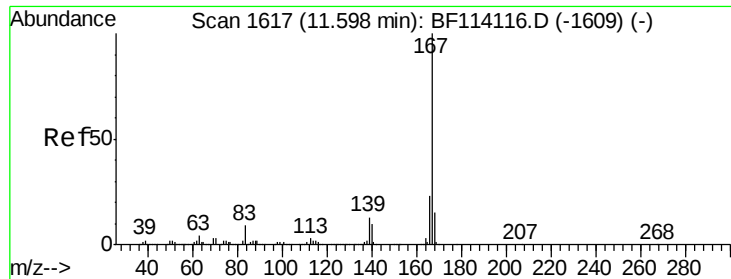


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





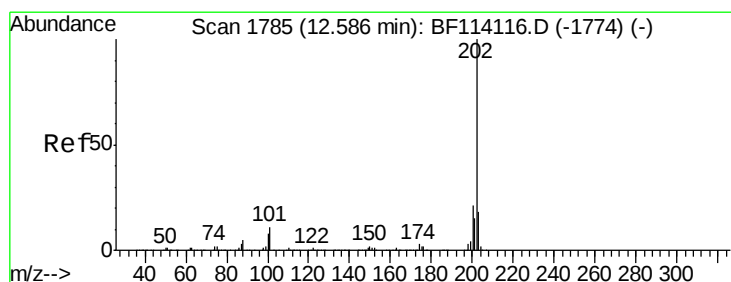
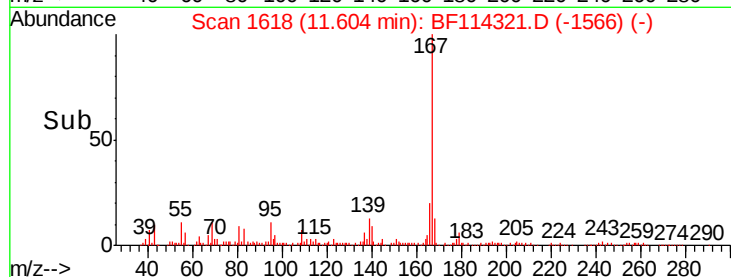
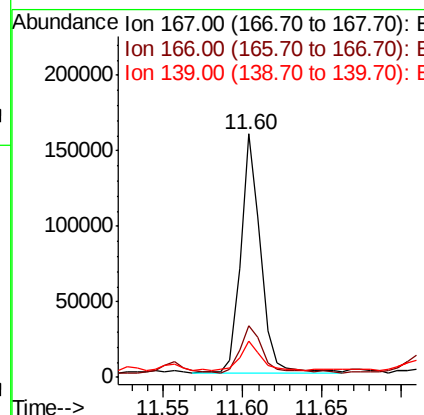
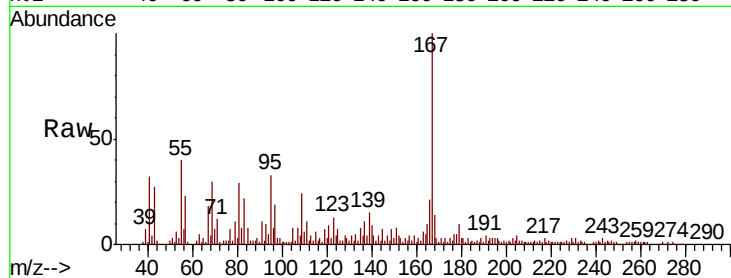
#73
 Carbazole
 Concen: 4.242 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. 0.01 min
 Lab File: BF114321.D
 Acq: 16 May 2019 20:39

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-3

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.3	18.2	27.2
139	15.0	10.6	16.0

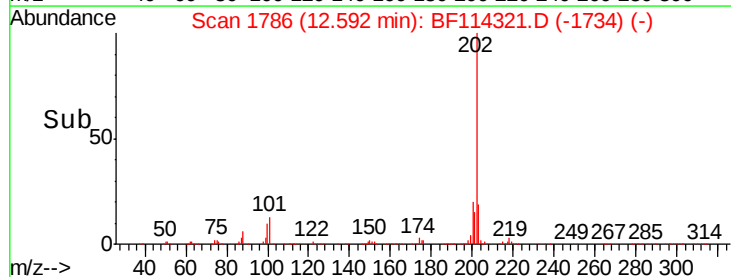
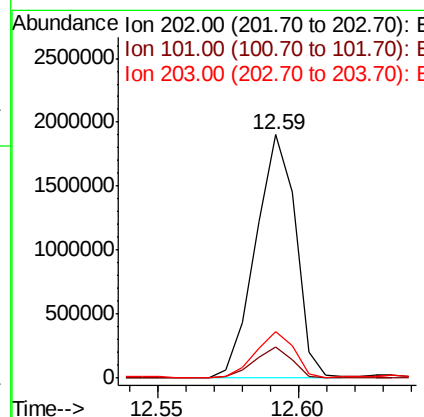
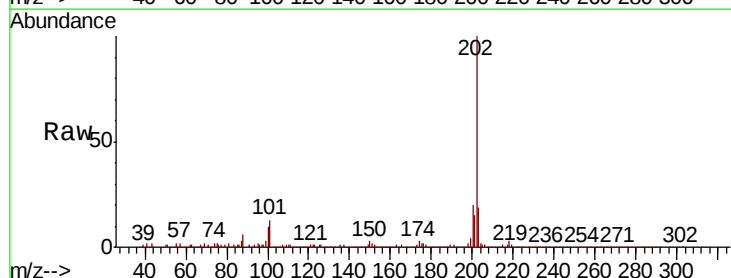
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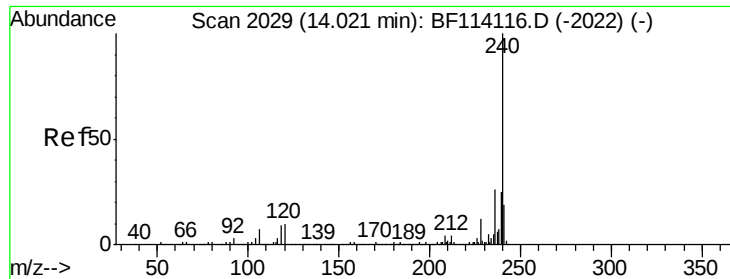
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#75
 Fluoranthene
 Concen: 51.479 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. 0.01 min
 Lab File: BF114321.D
 Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	31.0
203	19.0	0.0	38.4





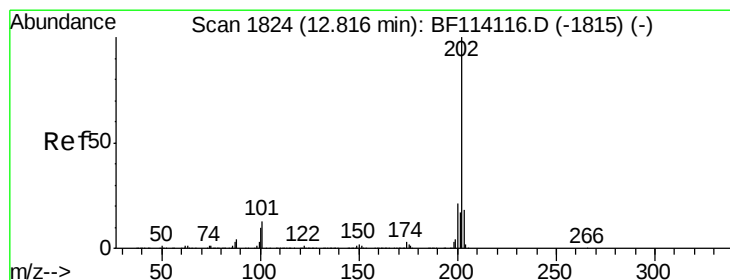
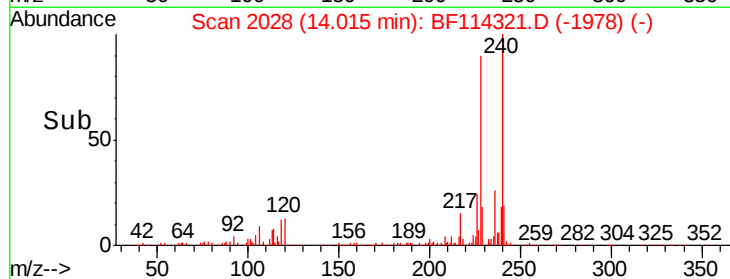
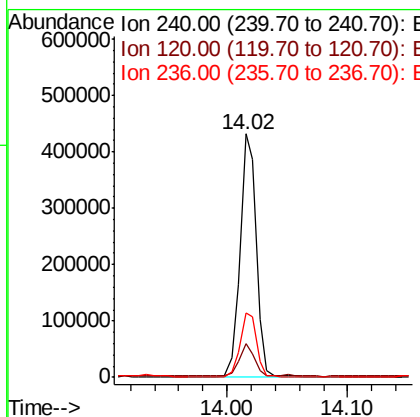
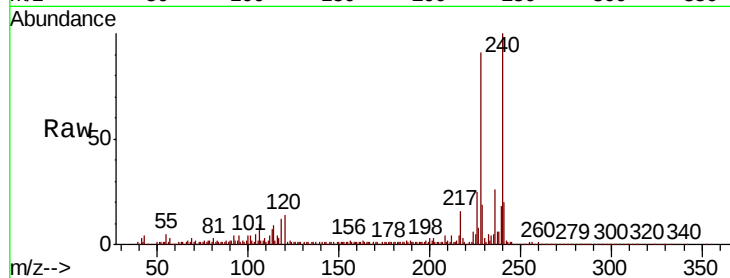
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	8.3	12.5
236	26.5	20.8	31.2

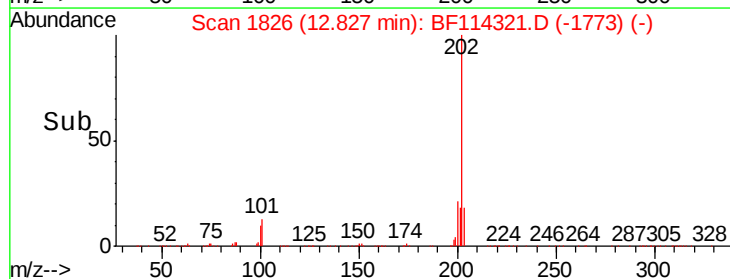
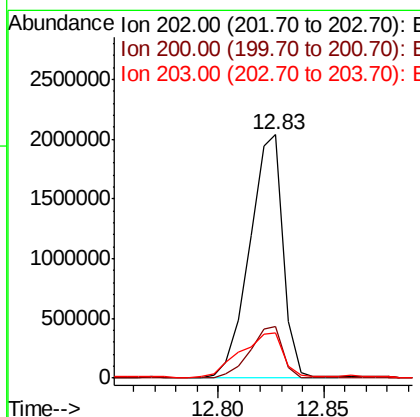
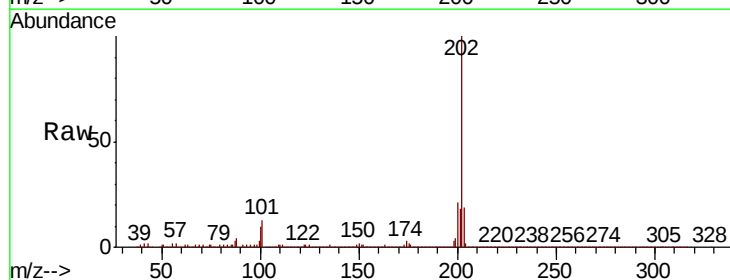
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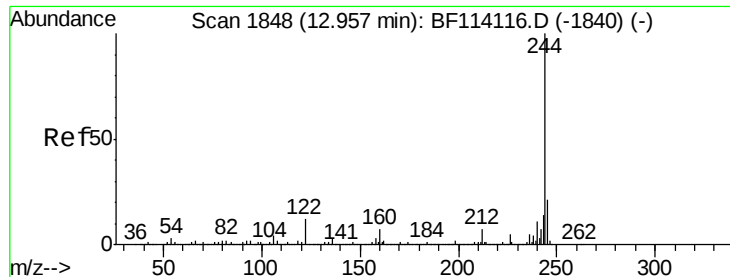
mohammad
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#78
Pyrene
Concen: 69.076 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	18.7	14.5	21.7





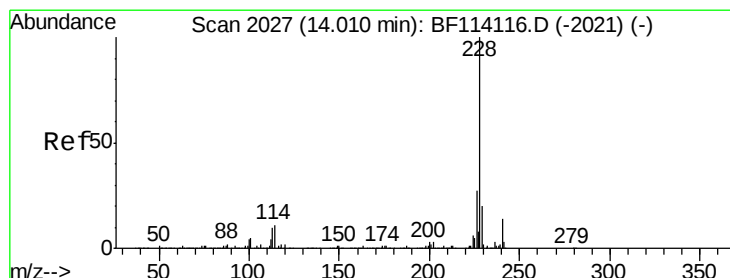
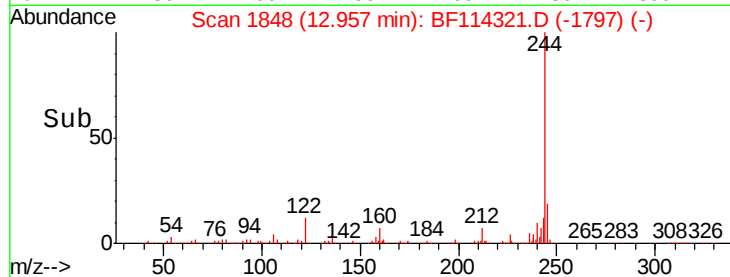
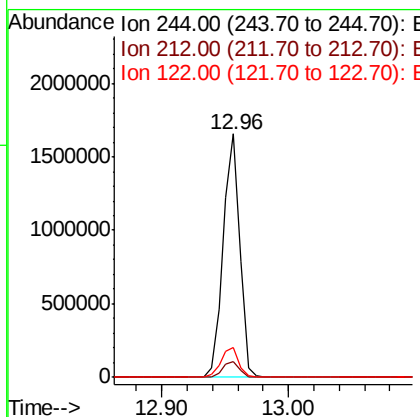
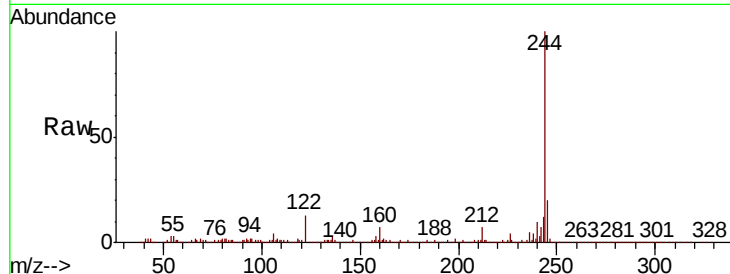
#79
 Terphenyl-d14
 Concen: 77.347 ng
 RT: 12.96 min Scan# 1848
 Delta R.T. -0.00 min
 Lab File: BF114321.D
 Acq: 16 May 2019 20:39

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-3

Tot Ion:244 Resp: 1512662
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.6
 122 12.5 9.4 14.2

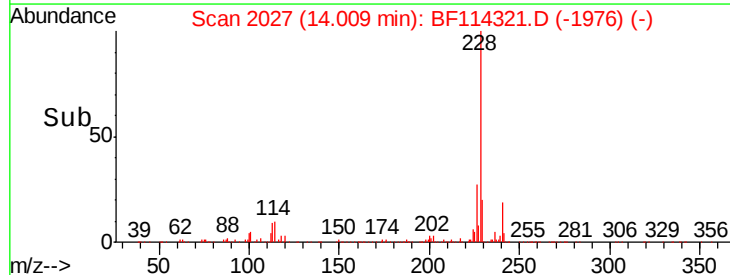
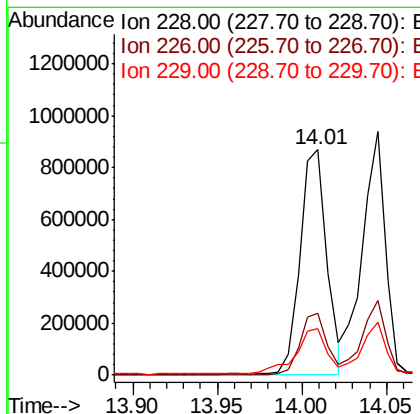
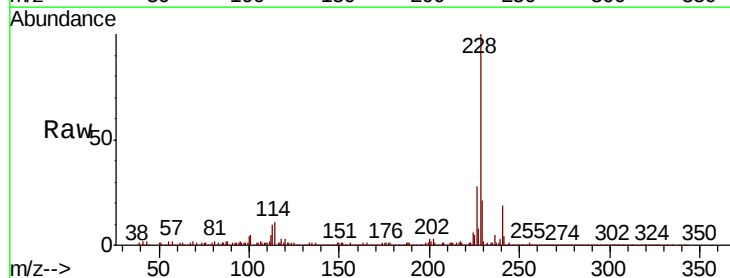
Manual Integrations
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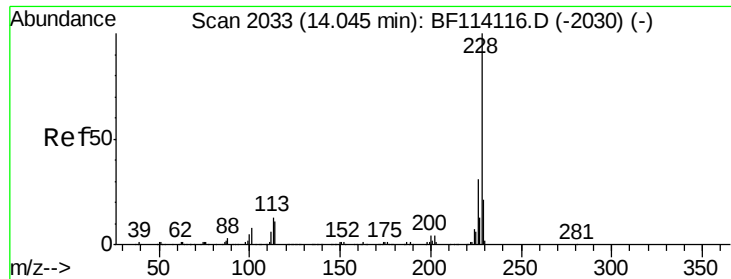
mohammad
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#81
 Benzo(a)anthracene
 Concen: 36.518 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. -0.00 min
 Lab File: BF114321.D
 Acq: 16 May 2019 20:39

Tgt Ion:228 Resp: 952224
 Ion Ratio Lower Upper
 228 100
 226 27.7 22.2 33.2
 229 20.5 16.4 24.6





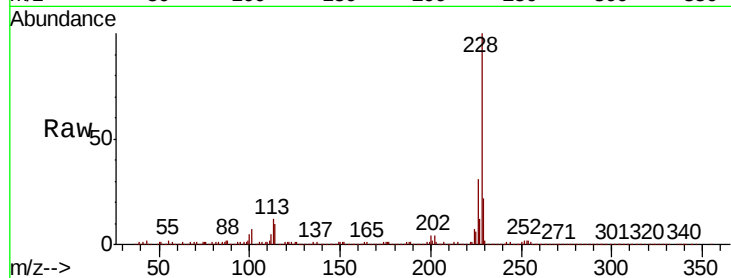
#83
Chrysene
Concen: 35.124 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.00 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	21.8	17.0	25.6

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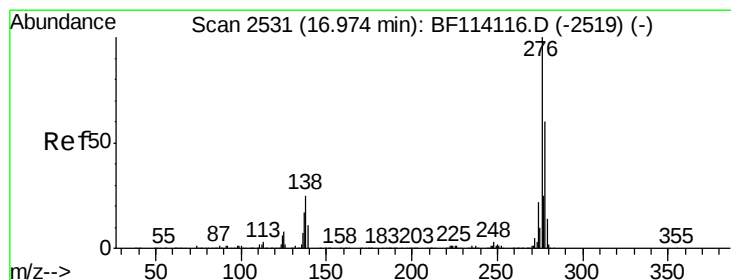
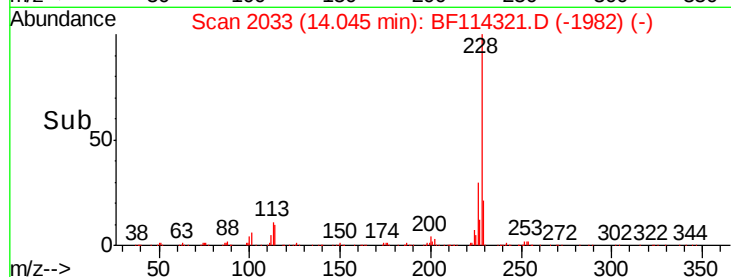
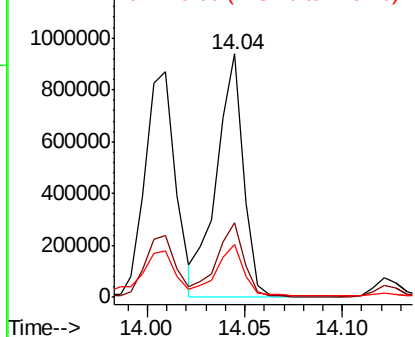


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86
Indeno(1,2,3-cd)pyrene
Concen: 18.837 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

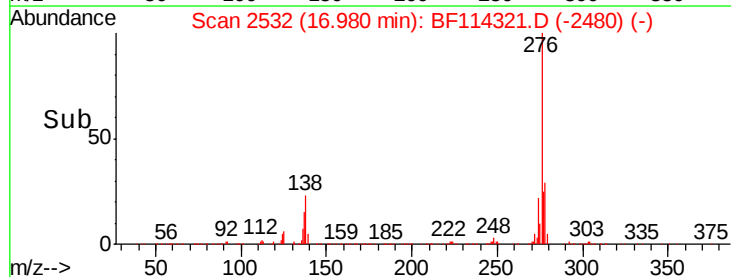
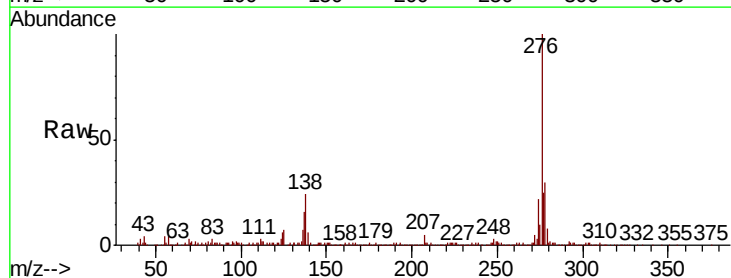
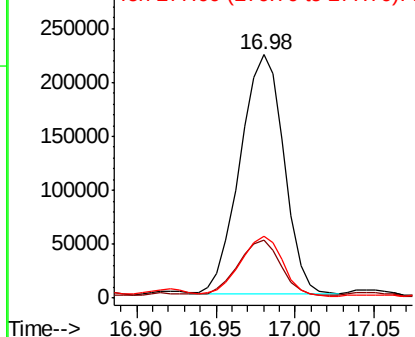
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.0	20.2	30.2
277	24.5	20.0	30.0

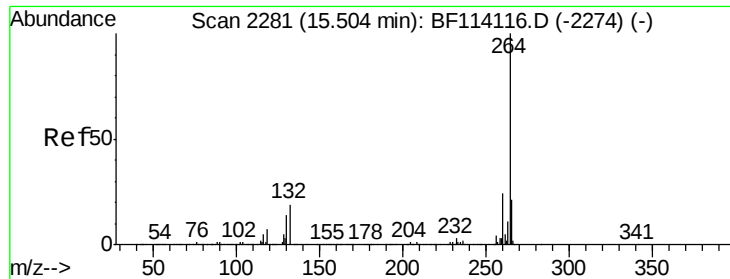
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Instrument :

BNA_F

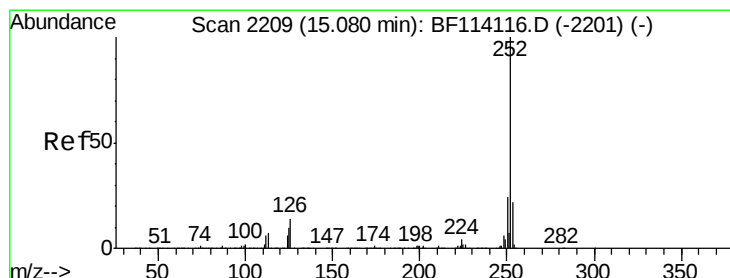
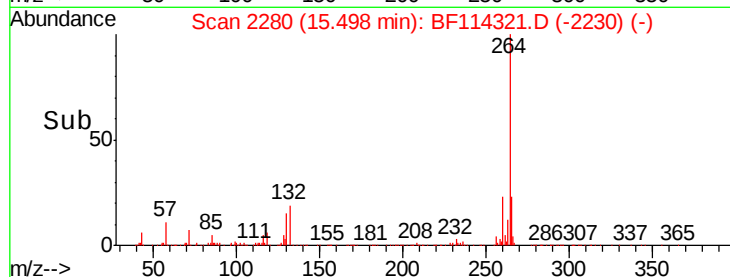
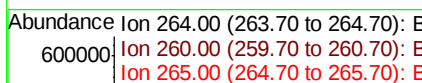
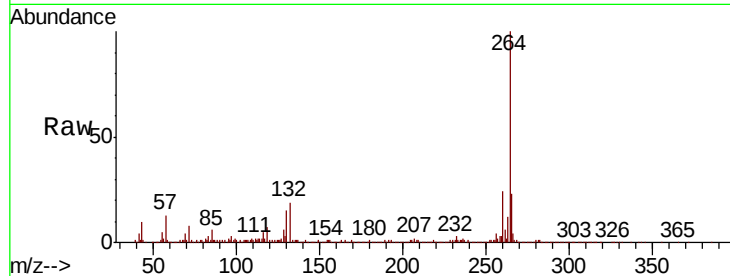
ClientSampleId :

RO-COMP-3

Tot Ion:	264	Resp:	556241
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.4	29.0
265	22.8	16.9	25.3

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#88

Benzo(b)fluoranthene

Concen: 26.034 ng m

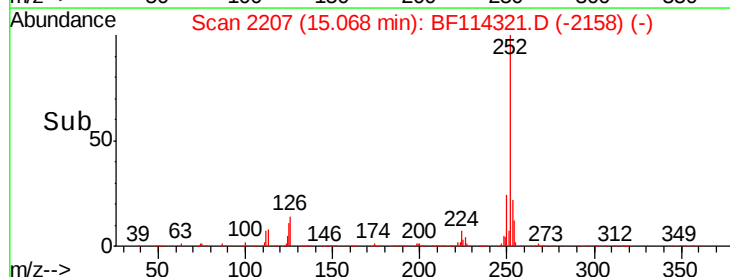
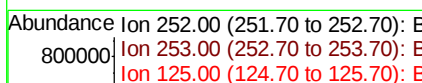
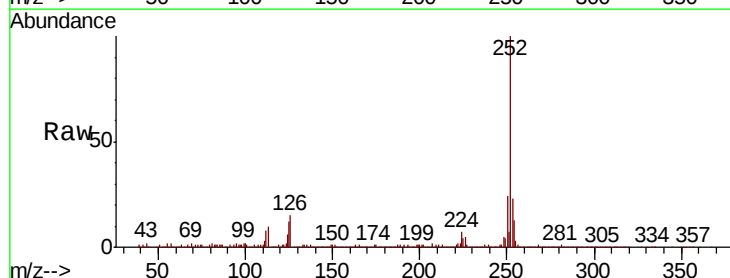
RT: 15.07 min Scan# 2207

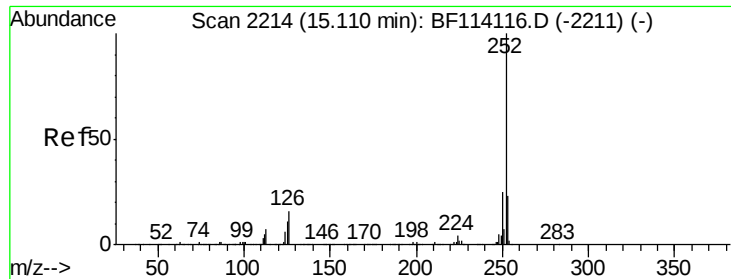
Delta R.T. -0.01 min

Lab File: BF114321.D

Acq: 16 May 2019 20:39

Tgt Ion:	252	Resp:	927737
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.8	26.8
125	11.9	8.3	12.5





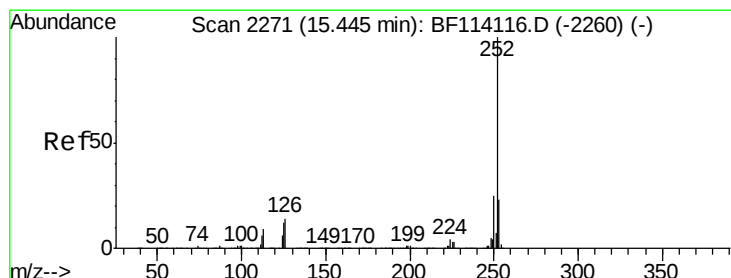
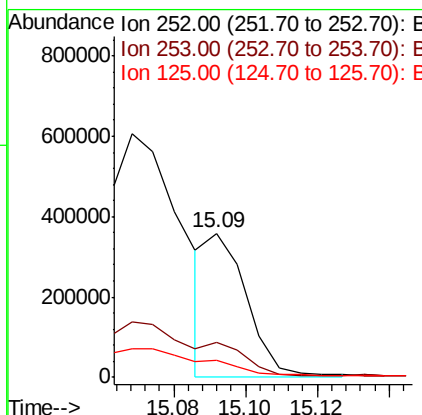
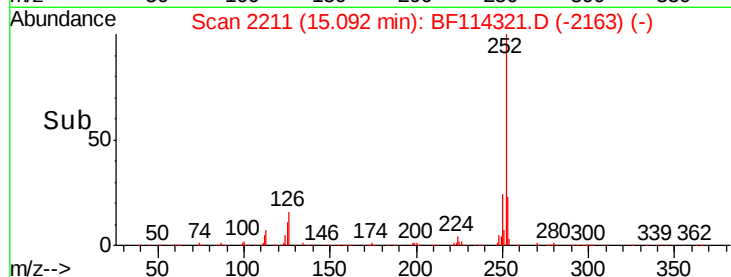
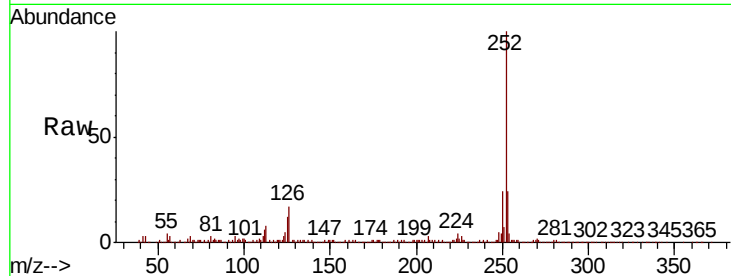
#89
Benzo(k)fluoranthene
Concen: 8.533 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.02 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Resp	Lower	Upper
252	100	279335		
253	23.8	18.2	27.2	
125	12.1	8.6	13.0	

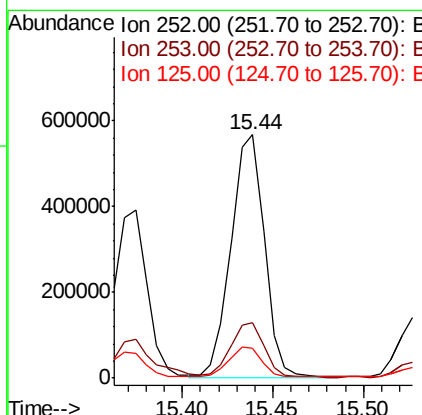
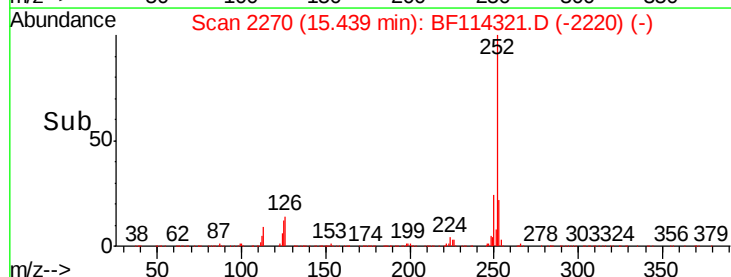
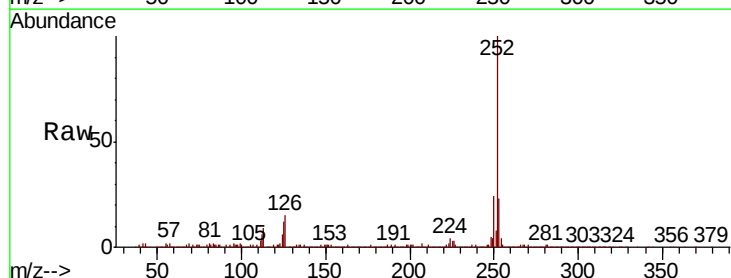
Manual Integrations
APPROVED

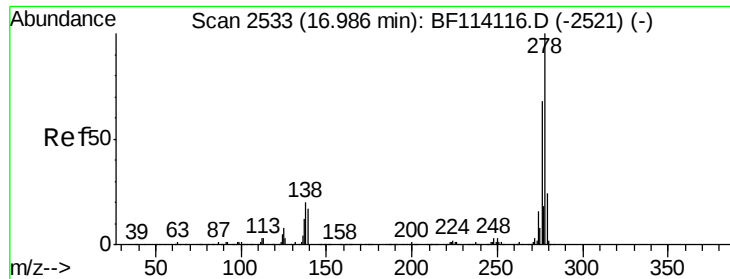
mohammad
5/17/2019 3:03:56 PM



#90
Benzo(a)pyrene
Concen: 23.182 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	727060		
253	23.0	18.1	27.1	
125	12.1	9.5	14.3	





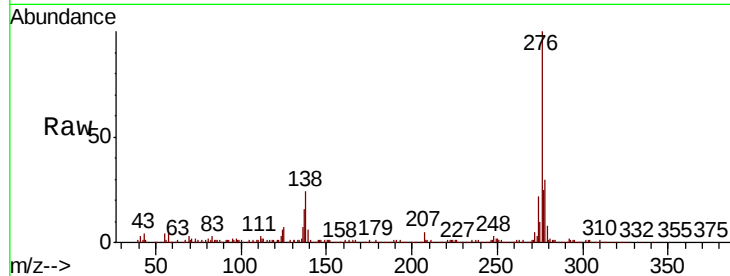
#91
Dibenzo(a,h)anthracene
Concen: 6.007 ng m
RT: 16.98 min Scan# 2532
Delta R.T. -0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Instrument :
BNA_F
ClientSampleId :
RO-COMP-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.9	13.5	20.3#
279	25.1	19.0	28.6

Manual Integrations
APPROVED

mohammad
5/17/2019 3:03:56 PM

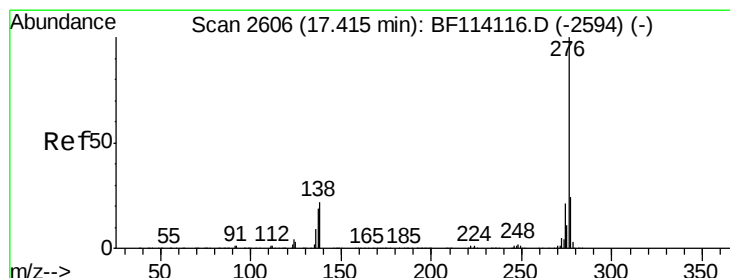
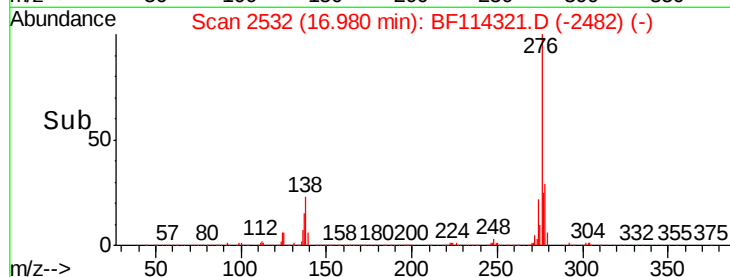
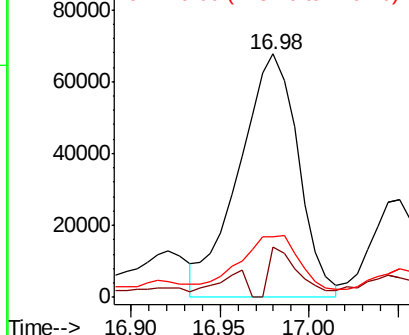


Abundance

Ion 278.00 (277.70 to 278.70): E

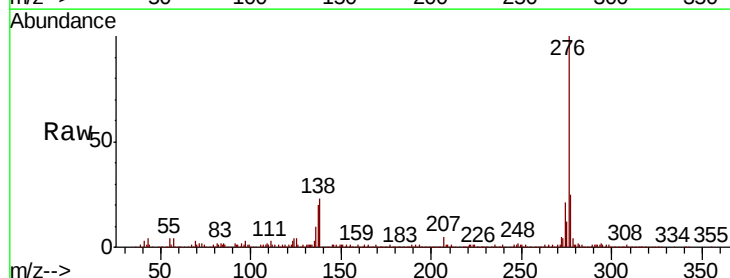
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 15.627 ng
RT: 17.43 min Scan# 2608
Delta R.T. 0.01 min
Lab File: BF114321.D
Acq: 16 May 2019 20:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.0	28.4
138	23.1	17.8	26.6



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

