

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108371.D
 Acq On : 22 Aug 2018 7:08
 Operator : JU/SJ
 Sample : J4511-07DL 20X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RA-081518-NSW-45-029DL

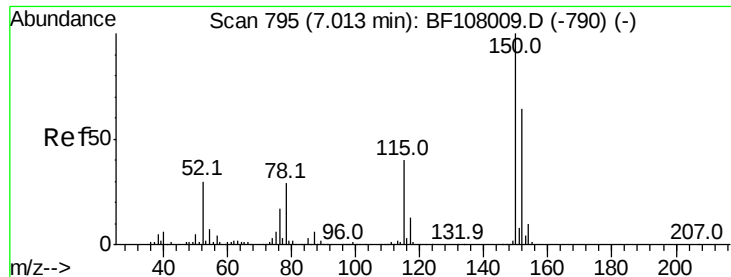
Manual Integrations
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 8/22/2018 4:03:34 PM

Quant Time: Aug 22 11:03:05 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 22 11:01:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.01	152	154492	20.00	ng	0.00
21) Naphthalene-d8	8.29	136	570740	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	245666	20.00	ng	0.00
63) Phenanthrene-d10	11.55	188	384585	20.00	ng	0.00
75) Chrysene-d12	14.20	240	342863	20.00	ng	0.00
86) Perylene-d12	15.76	264	292895	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	50301	5.89	ng	-0.01
7) Phenol-d6	6.61	99	70371	6.21	ng	-0.02
23) Nitrobenzene-d5	7.56	82	43409	4.24	ng	-0.01
41) 2,4,6-Tribromophenol	10.84	330	11593	4.73	ng	0.00
44) 2-Fluorobiphenyl	9.36	172	86626	5.66	ng	0.00
78) Terphenyl-d14	13.12	244	65663	4.87	ng	0.00
Target Compounds						
31) Naphthalene	8.31	128	141102	5.436	ng	Qvalue 98
37) 2-Methylnaphthalene	9.00	142	53516	2.914	ng	98
51) Acenaphthene	10.08	154	105908	7.640	ng	98
54) Dibenzofuran	10.25	168	117114	5.831	ng	99
57) Fluorene	10.60	166	115809	7.284	ng	97
70) Phenanthrene	11.57	178	932044	51.382	ng	99
71) Anthracene	11.62	178	239998	12.909	ng	99
72) Carbazole	11.77	167	86825	5.256	ng	98
74) Fluoranthene	12.77	202	884160	44.661	ng	97
77) Pyrene	13.00	202	771090	35.523	ng	99
80) Benzo(a)anthracene	14.19	228	397761	20.215	ng	98
82) Chrysene	14.22	228	330362	18.313	ng	96
85) Indeno(1,2,3-cd)pyrene	17.37	276	114168	7.304	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	396551m	22.658	ng	
88) Benzo(k)fluoranthene	15.32	252	98824m	6.143	ng	
89) Benzo(a)pyrene	15.69	252	253200	16.156	ng	97
90) Dibenzo(a,h)anthracene	17.38	278	28974	2.234	ng	# 90
91) Benzo(g,h,i)perylene	17.86	276	104505	8.184	ng	# 91

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



#1

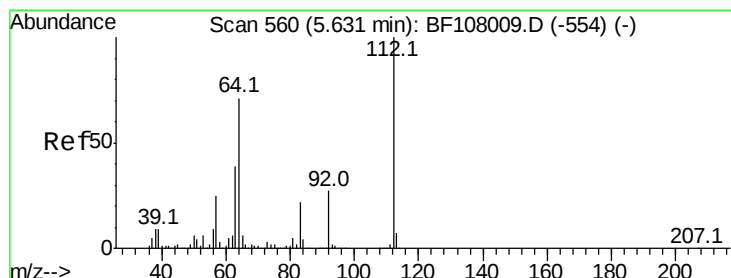
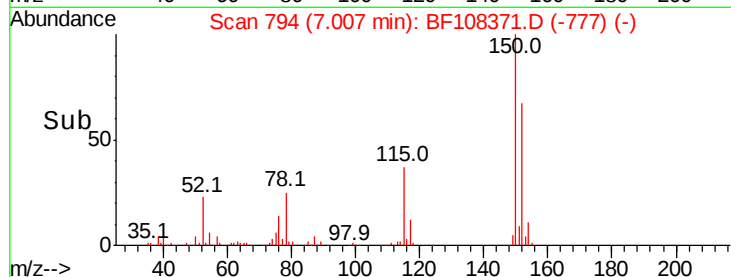
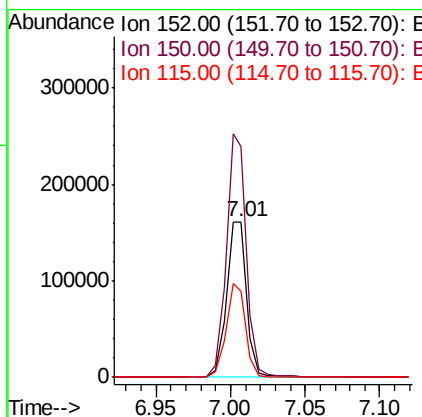
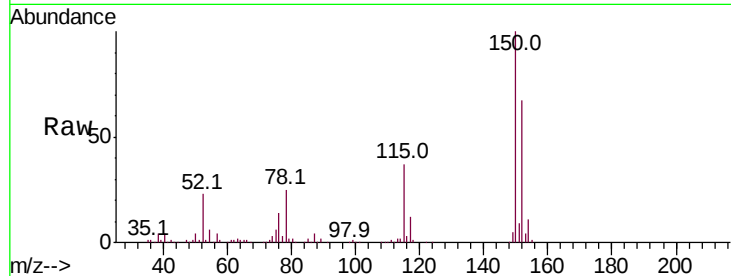
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.01 min Scan# 794
Delta R.T. 0.00 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	148.4	124.6	186.8
115	55.4	50.1	75.1

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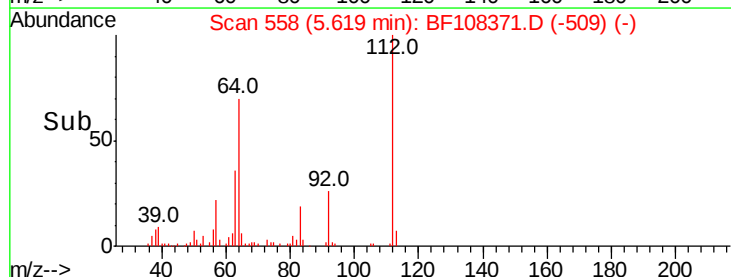
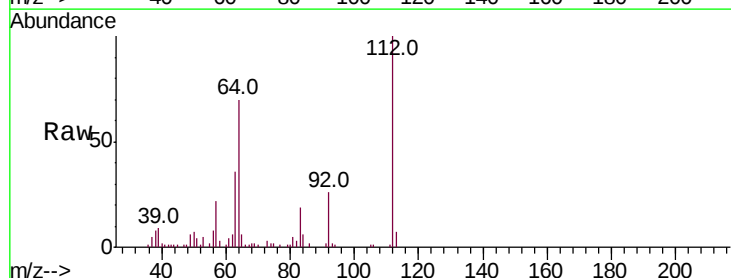
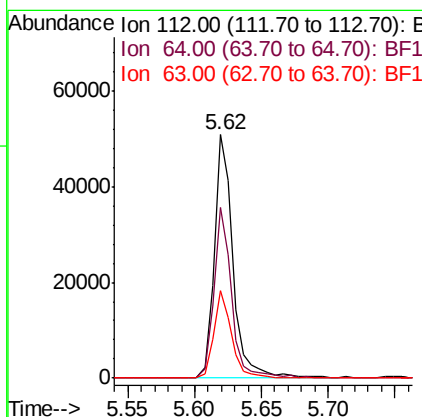
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#5

2-Fluorophenol
Concen: 5.895 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.9	47.9	71.9
63	35.7	23.7	35.5





#7

Phenol-d6

Concen: 6.206 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Instrument :

BNA_F

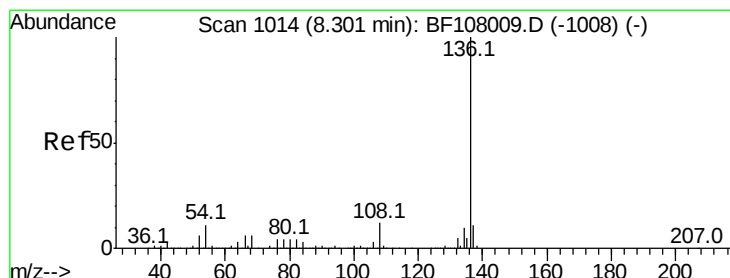
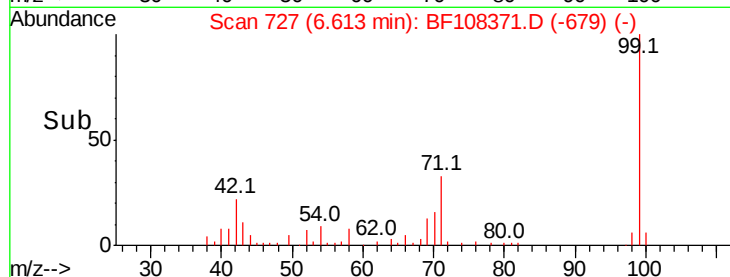
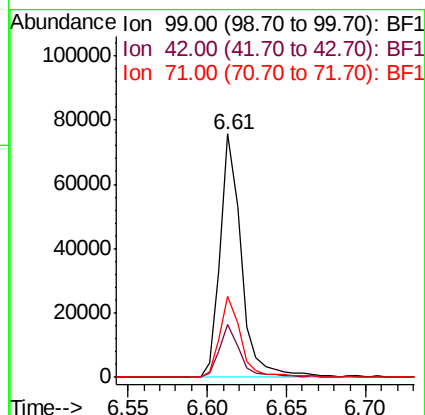
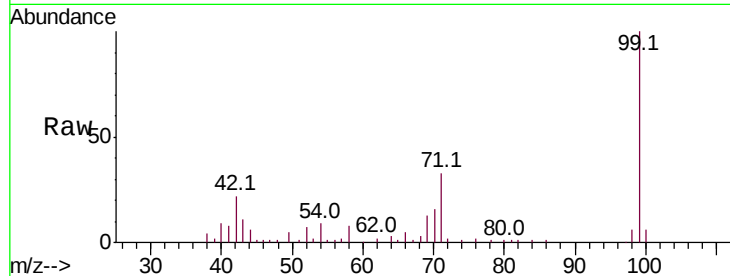
ClientSampleId :

RA-081518-NSW-45-029DL

Tot Ion:	99	Resp:	70371
Ion Ratio	Lower	Upper	
99	100		
42	21.9	14.5	21.7#
71	33.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

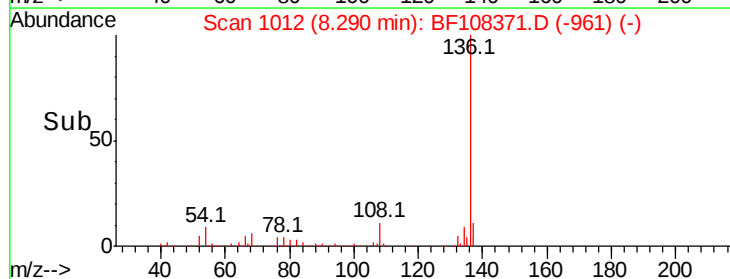
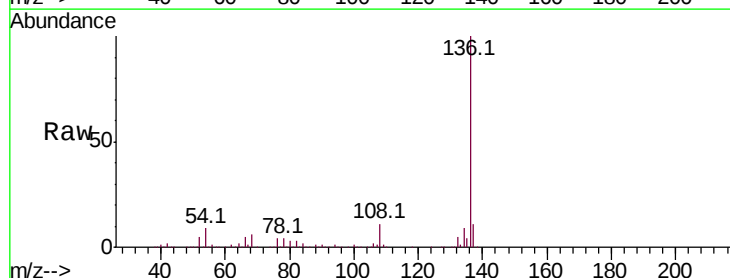
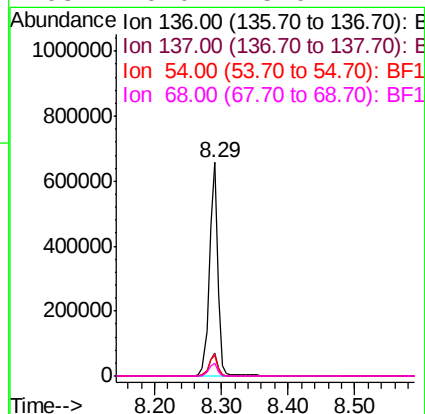
RT: 8.29 min Scan# 1012

Delta R.T. 0.00 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Tgt Ion:	136	Resp:	570740
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	9.3	6.6	9.8
68	6.0	5.0	7.4





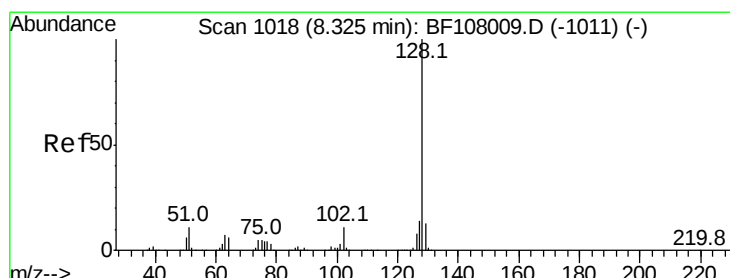
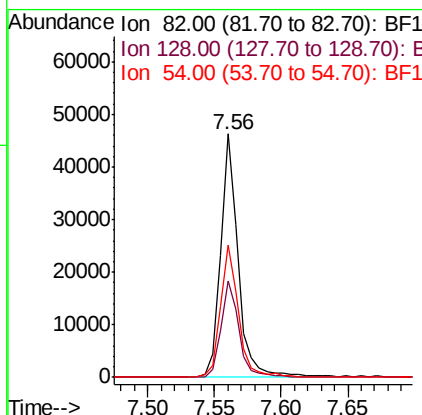
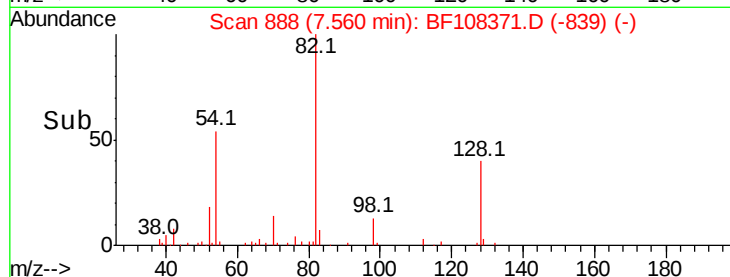
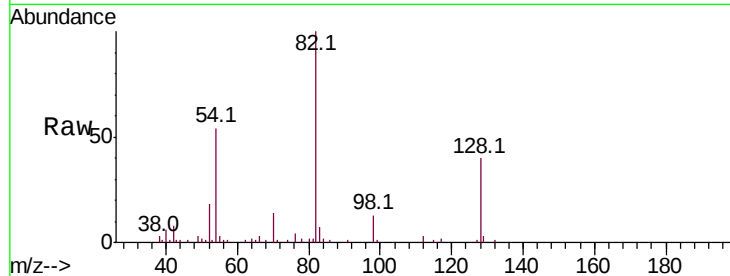
#23
 Nitrobenzene-d5
 Concen: 4.244 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.01 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Instrument :
 BNA_F
 ClientSampleId :
 RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.6	36.1	54.1
54	54.4	41.4	62.2

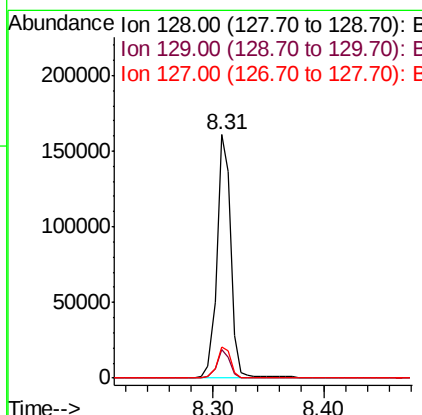
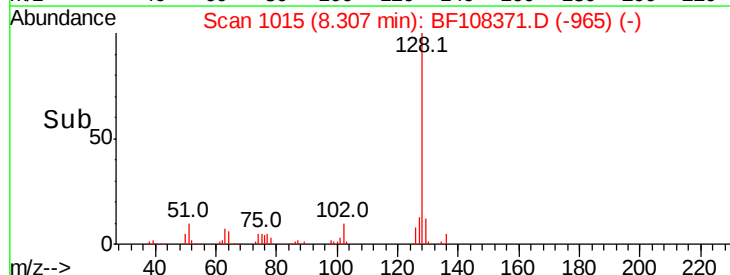
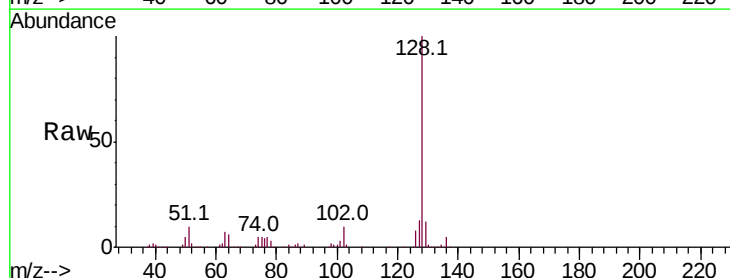
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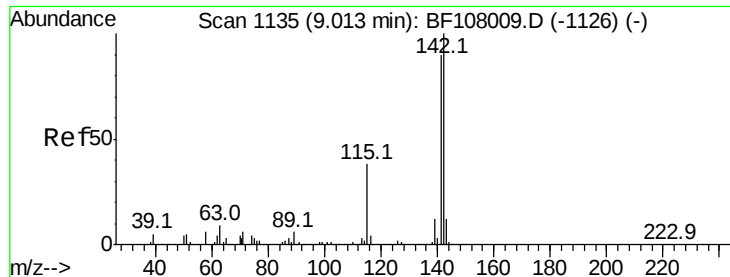
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#31
 Naphthalene
 Concen: 5.436 ng
 RT: 8.31 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.8	13.2
127	12.7	10.9	16.3





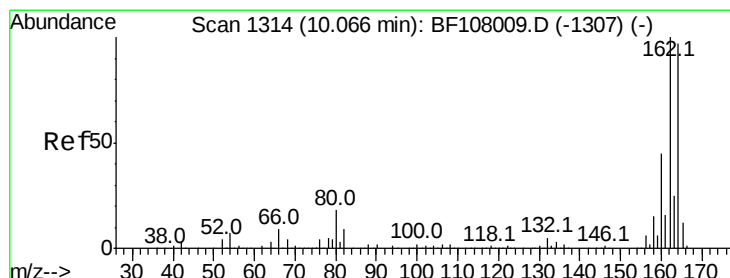
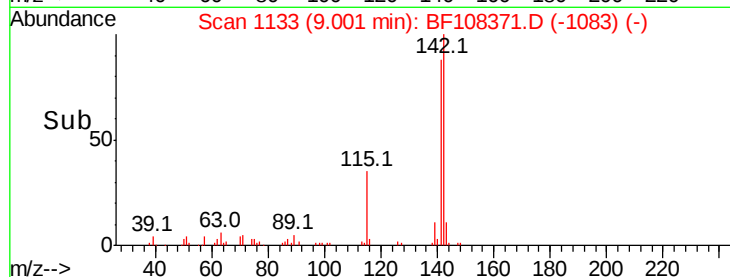
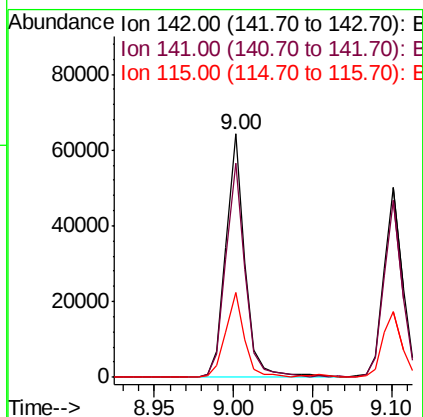
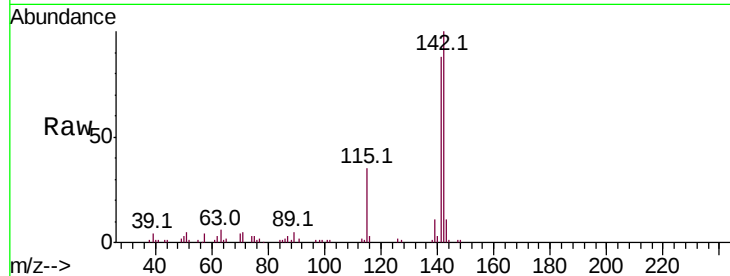
#37
2-Methylnaphthalene
Concen: 2.914 ng
RT: 9.00 min Scan# 1133
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.9	70.8	106.2
115	34.7	26.1	39.1

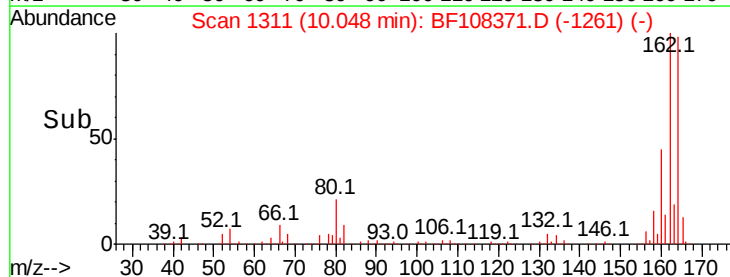
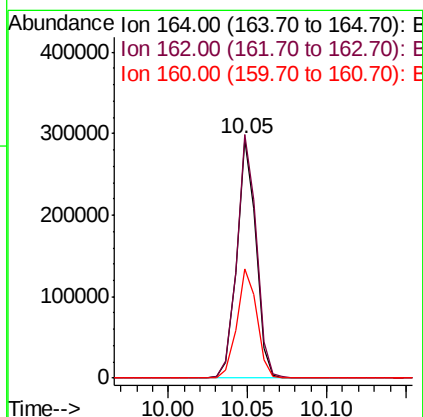
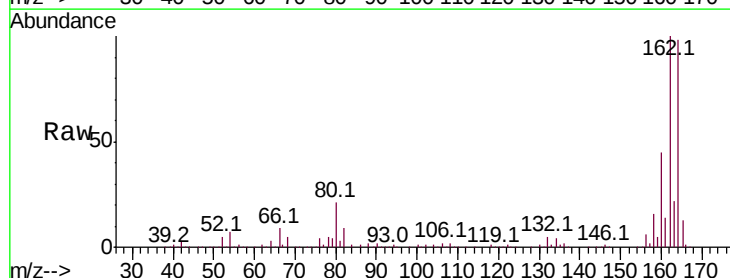
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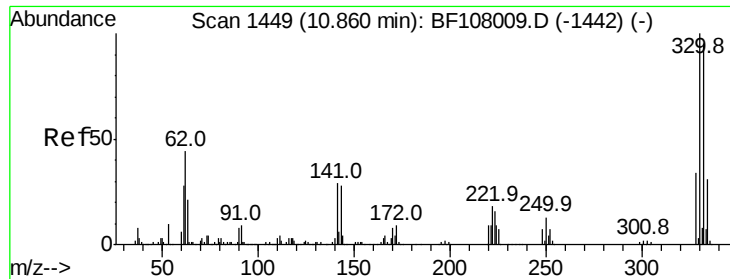
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	86.1	129.1
160	46.0	38.3	57.5





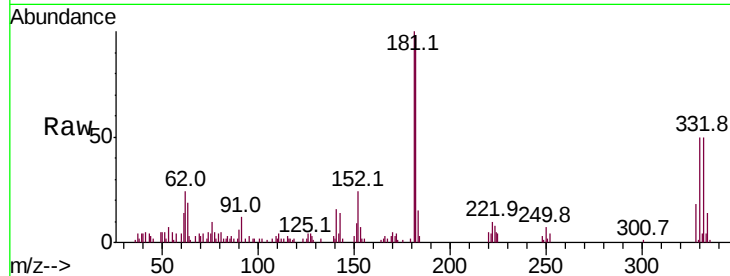
#41
 2,4,6-Tribromophenol
 Concen: 4.731 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.01 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Instrument :
 BNA_F
 ClientSampleId :
 RA-081518-NSW-45-029DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	100.4	77.0	115.6	
141	49.9	29.9	44.9	

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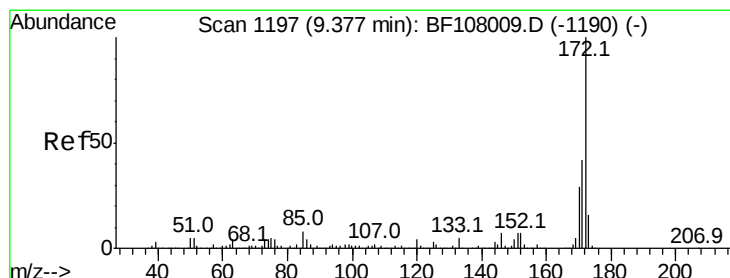
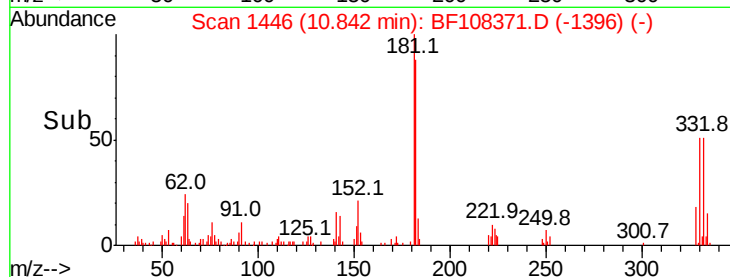
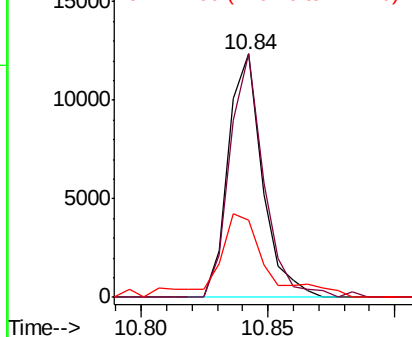


Abundance

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



#44
 2-Fluorobiphenyl
 Concen: 5.661 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

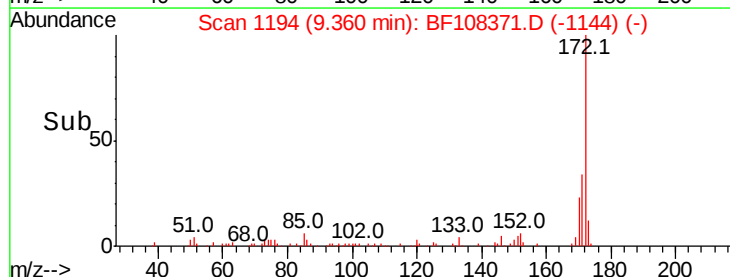
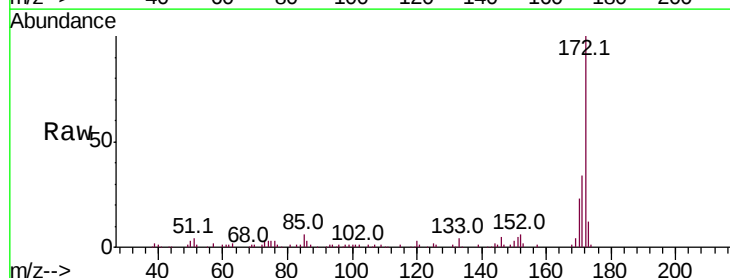
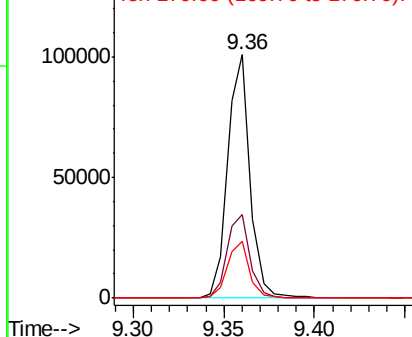
Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.1	29.7	44.5	
170	23.4	19.6	29.4	

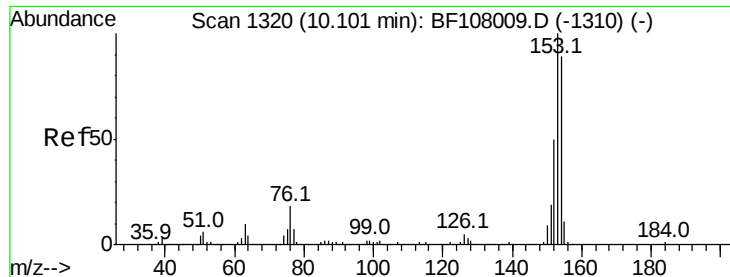
Abundance

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





#51

Acenaphthene

Concen: 7.640 ng

RT: 10.08 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Instrument :

BNA_F

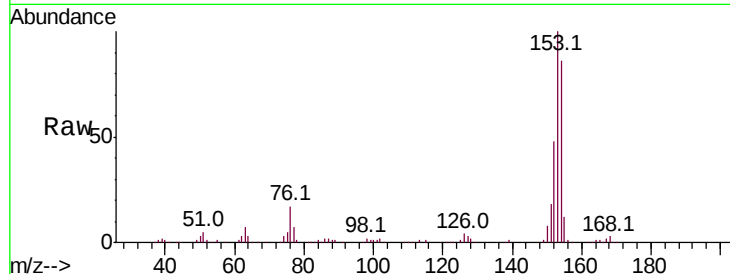
ClientSampleId :

RA-081518-NSW-45-029DL

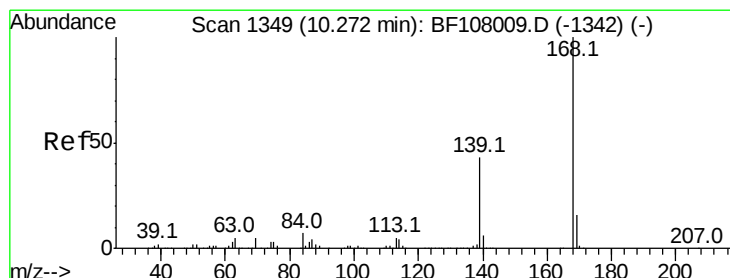
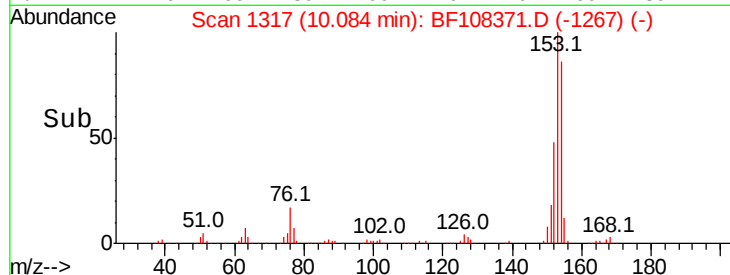
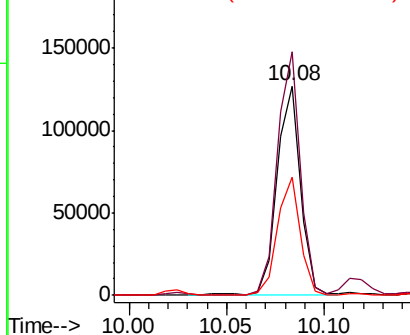
Tot Ion:	154	Resp:	105908
Ion Ratio	Lower	Upper	
154	100		
153	116.4	91.2	136.8
152	56.5	43.8	65.8

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 5.831 ng

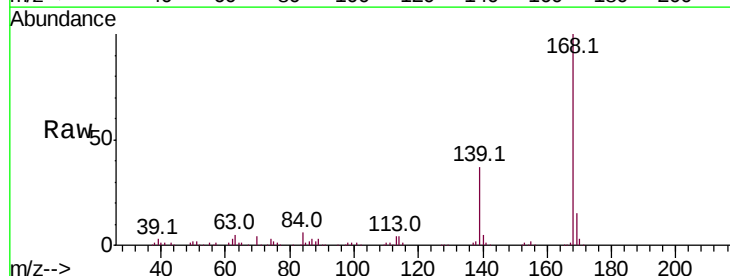
RT: 10.25 min Scan# 1346

Delta R.T. -0.01 min

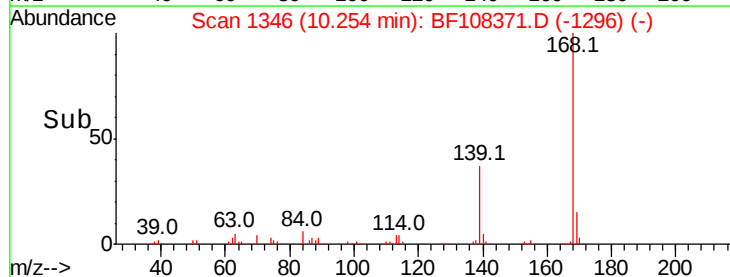
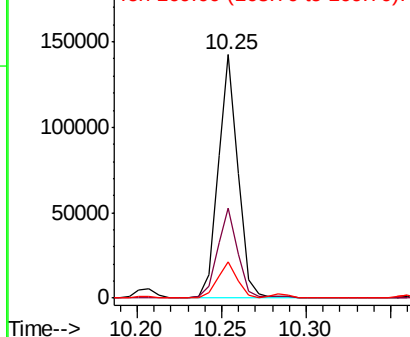
Lab File: BF108371.D

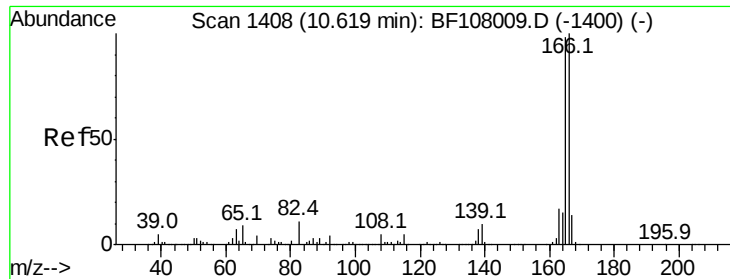
Acq: 22 Aug 2018 7:08

Tgt Ion:	168	Resp:	117114
Ion Ratio	Lower	Upper	
168	100		
139	37.2	30.1	45.1
169	14.6	10.9	16.3



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





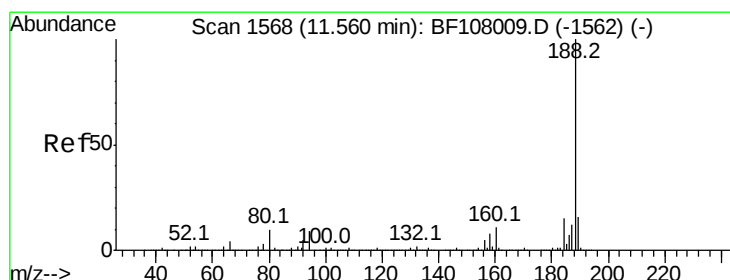
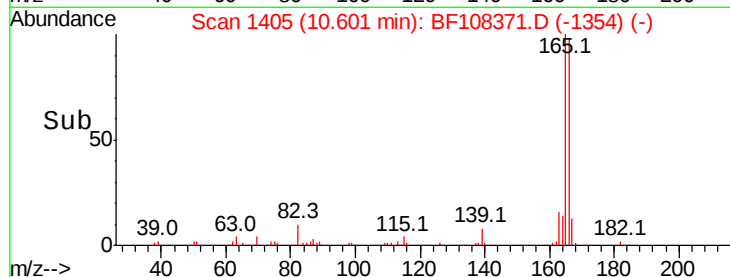
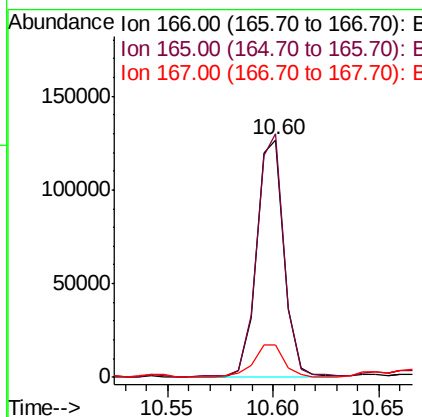
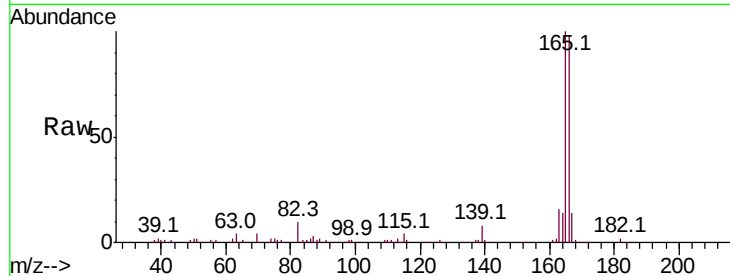
#57
Fluorene
 Concen: 7.284 ng
 RT: 10.60 min Scan# 1405
 Delta R.T. 0.00 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Instrument :
 BNA_F
 ClientSampleId :
 RA-081518-NSW-45-029DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	102.6	79.8	119.8	
167	13.9	10.6	16.0	

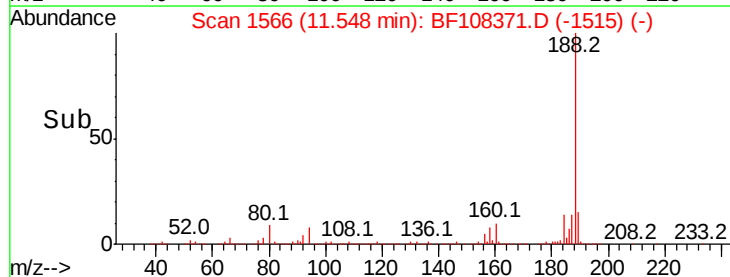
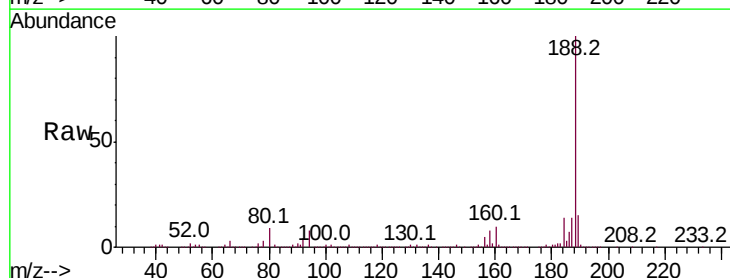
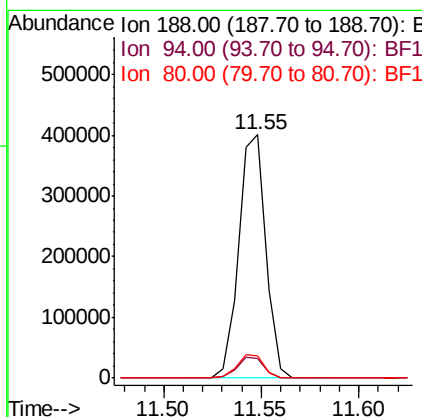
Manual Integrations
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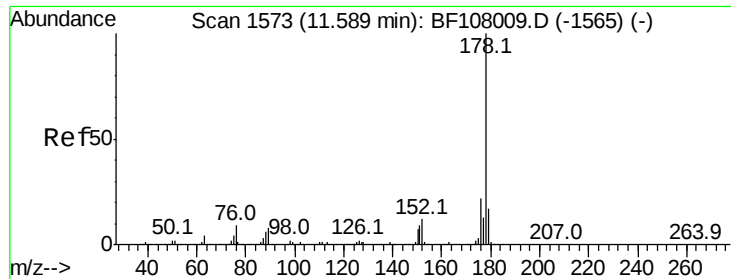
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.55 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.1	8.5	12.7#	
80	9.1	9.2	13.8#	





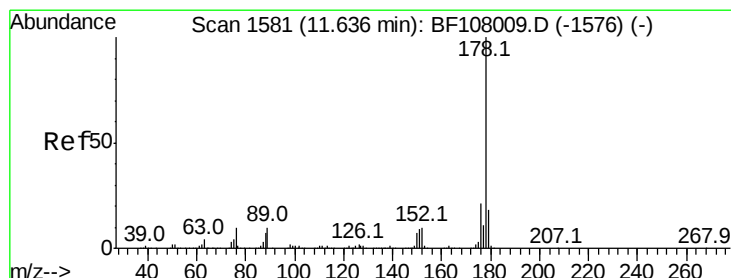
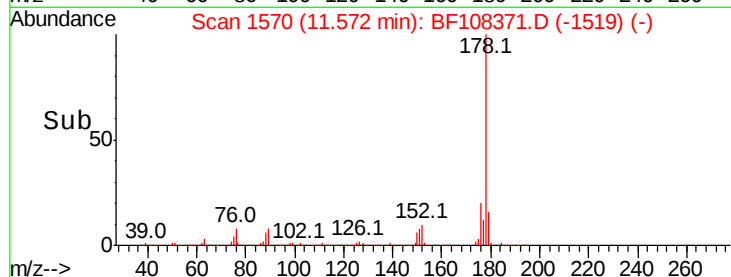
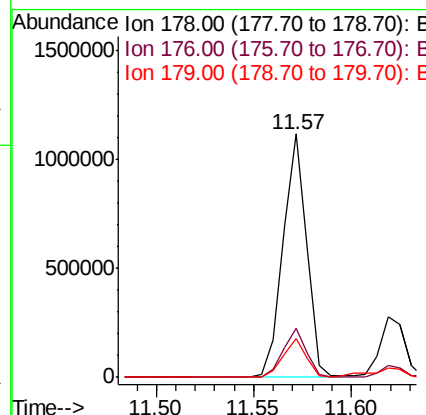
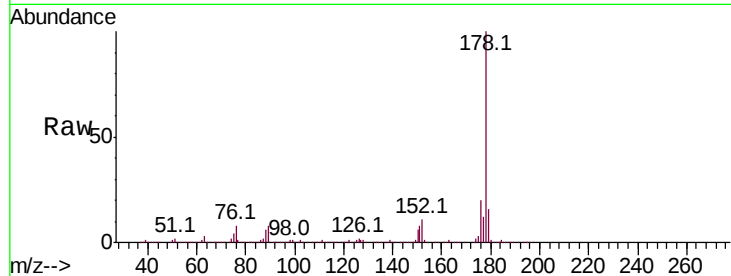
#70
Phenanthrene
Concen: 51.382 ng
RT: 11.57 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.8
179	15.8	13.0	19.6

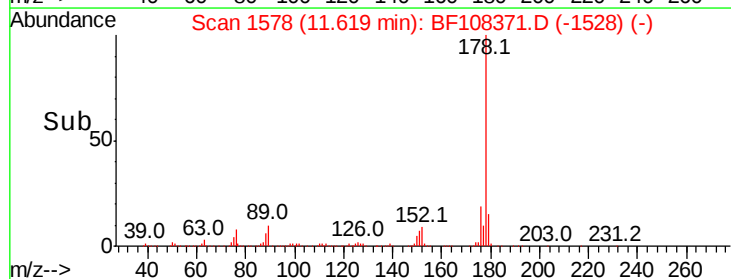
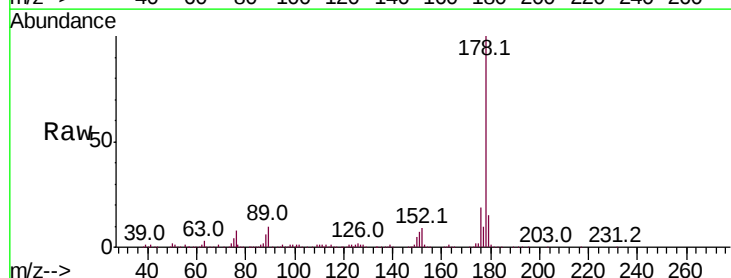
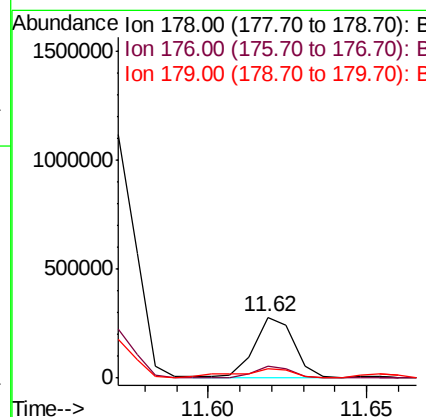
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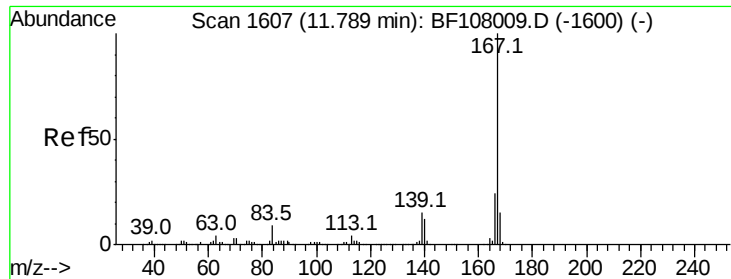
Sohil
8/22/2018 4:03:34 PM



#71
Anthracene
Concen: 12.909 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.6	19.0





#72

Carbazole

Concen: 5.256 ng

RT: 11.77 min Scan# 1604

Delta R.T. -0.01 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Instrument :

BNA_F

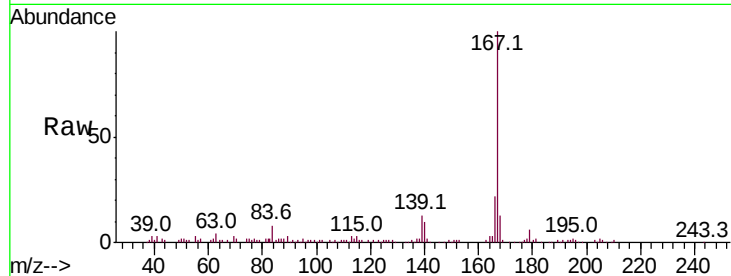
ClientSampleId :

RA-081518-NSW-45-029DL

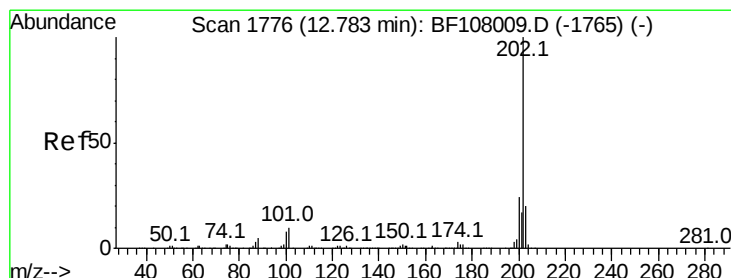
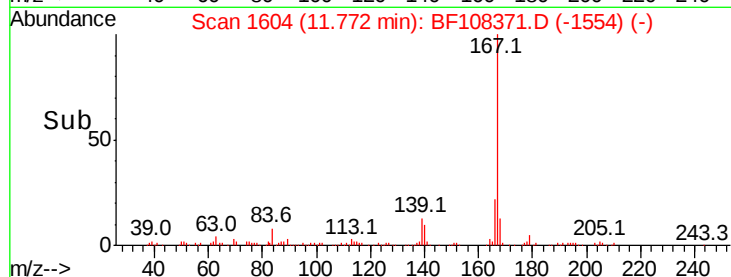
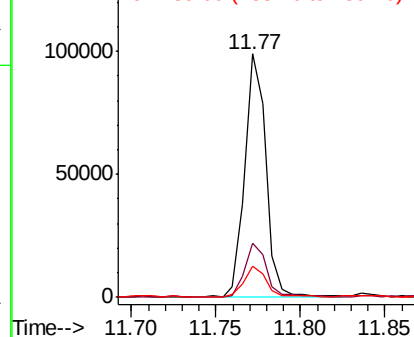
Tot Ion:	167	Resp:	86825
Ion Ratio	Lower	Upper	
167	100		
166	22.5	17.6	26.4
139	12.6	10.9	16.3

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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



#74

Fluoranthene

Concen: 44.661 ng

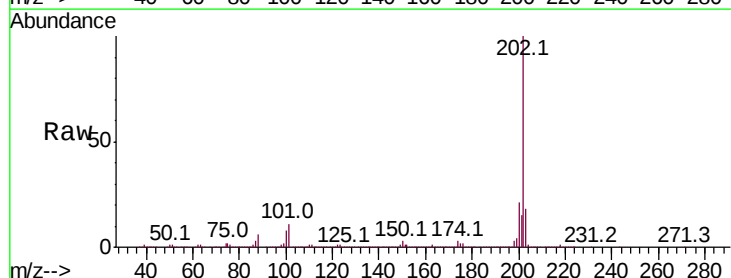
RT: 12.77 min Scan# 1773

Delta R.T. 0.00 min

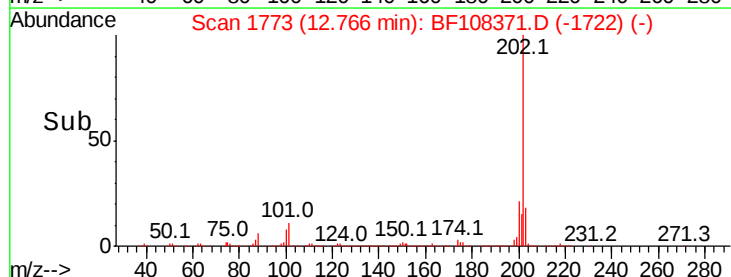
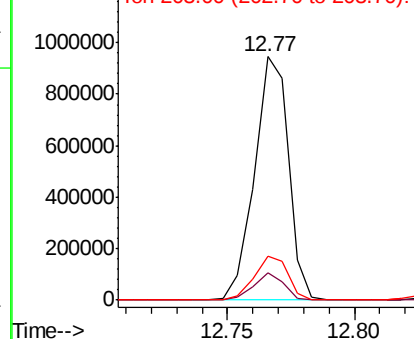
Lab File: BF108371.D

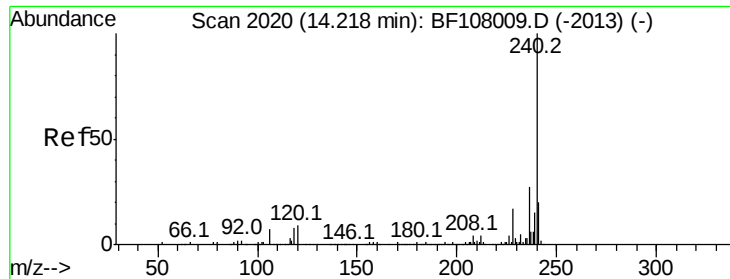
Acq: 22 Aug 2018 7:08

Tgt Ion:	202	Resp:	884160
Ion Ratio	Lower	Upper	
202	100		
101	11.2	0.0	34.1
203	18.2	0.0	38.1



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Instrument :

BNA_F

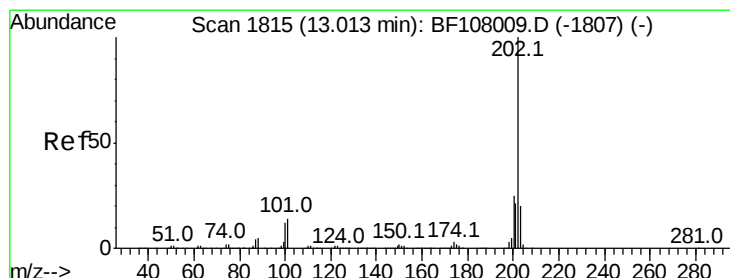
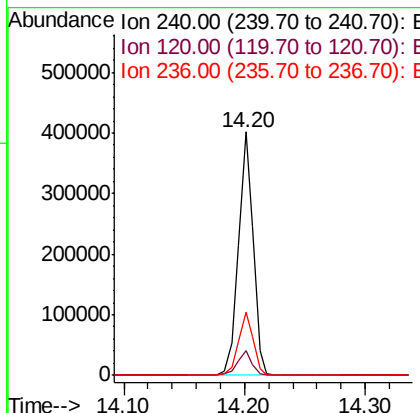
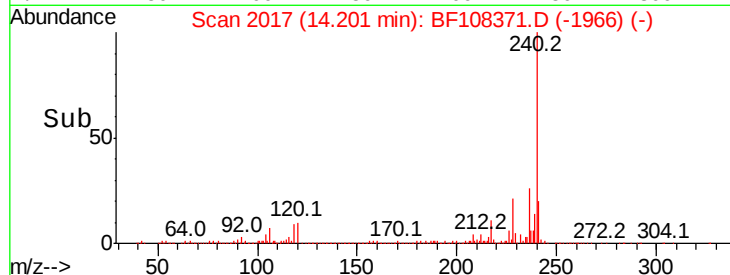
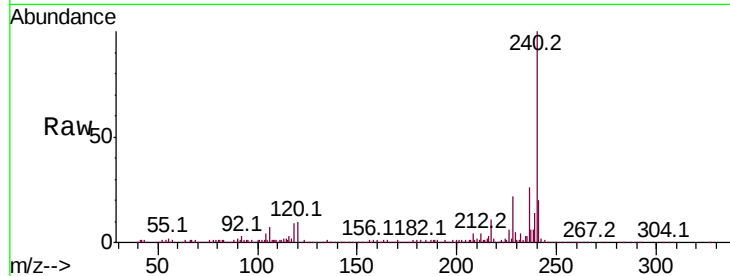
ClientSampleId :

RA-081518-NSW-45-029DL

Tot Ion:	240	Resp:	342863
Ion Ratio	Lower	Upper	
240	100		
120	10.0	9.5	14.3
236	26.1	20.7	31.1

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#77

Pyrene

Concen: 35.523 ng

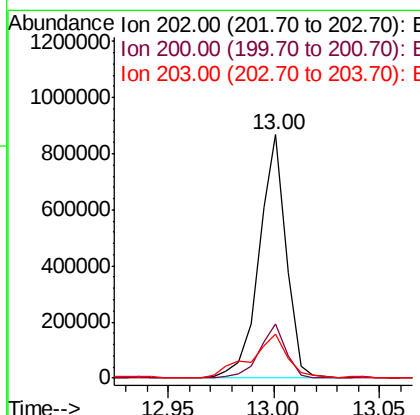
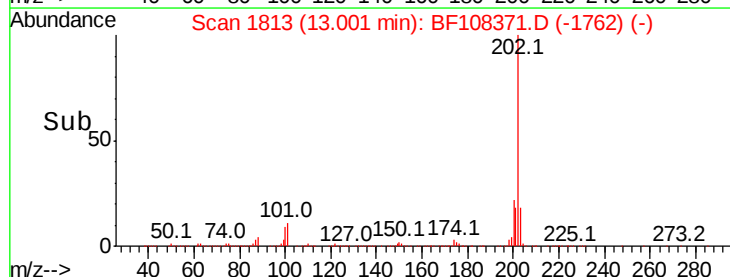
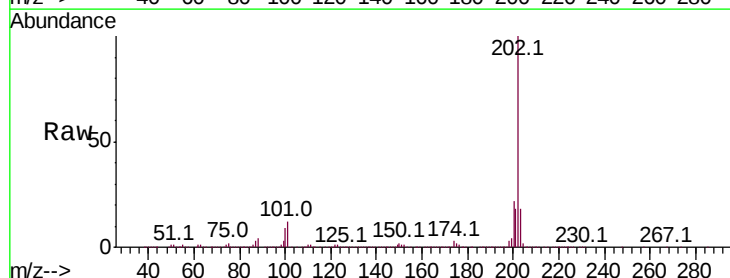
RT: 13.00 min Scan# 1813

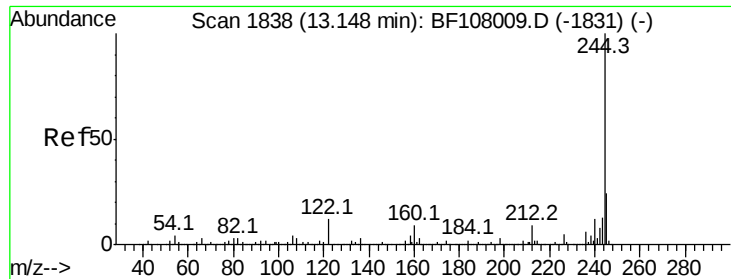
Delta R.T. 0.00 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Tgt Ion:	202	Resp:	771090
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.4	26.2
203	18.2	14.3	21.5





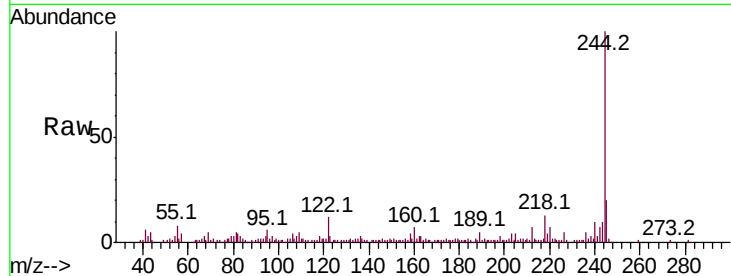
#78
 Terphenyl-d14
 Concen: 4.869 ng
 RT: 13.12 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Instrument :
 BNA_F
 ClientSampleId :
 RA-081518-NSW-45-029DL

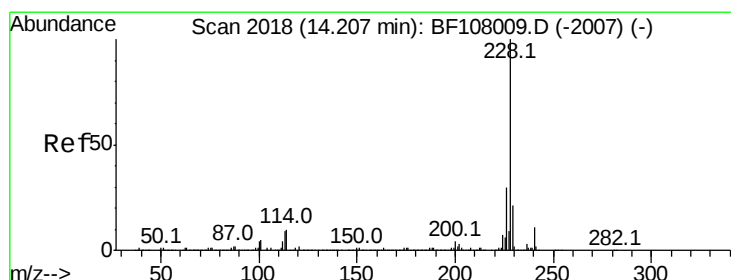
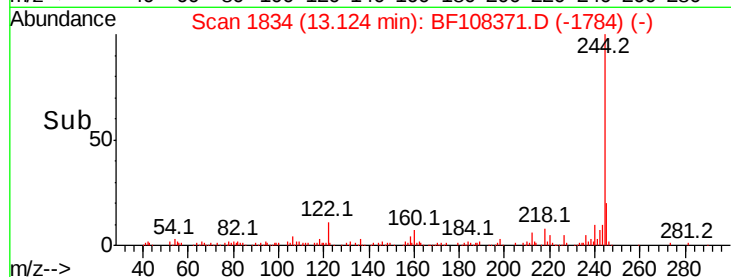
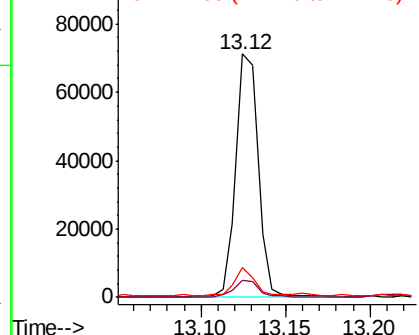
Tot Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	12.1	11.0	16.4

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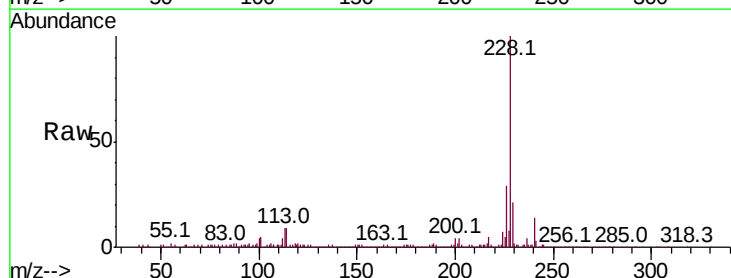


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

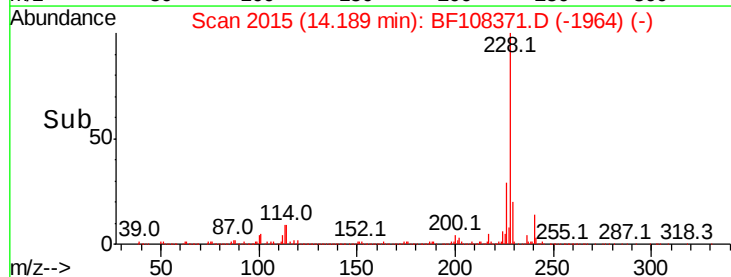
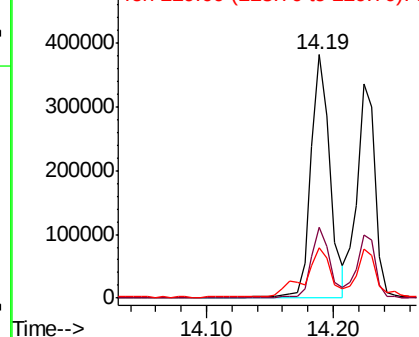


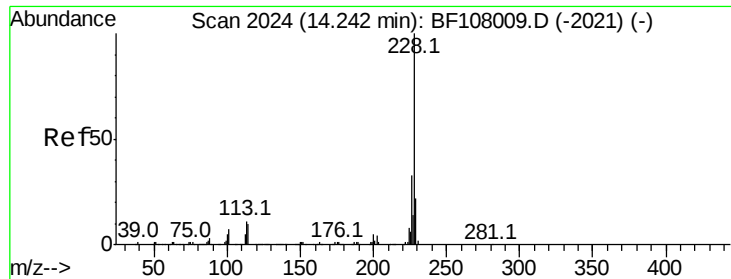
#80
 Benzo(a)anthracene
 Concen: 20.215 ng
 RT: 14.19 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: BF108371.D
 Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	20.8	15.8	23.6



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





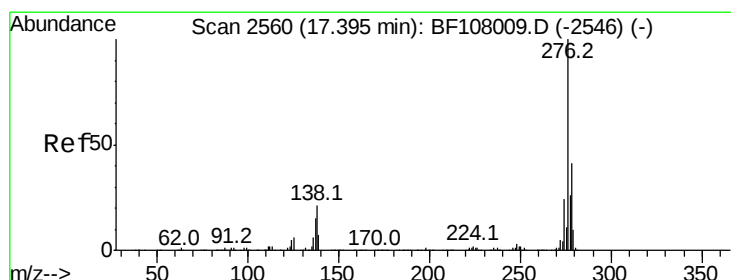
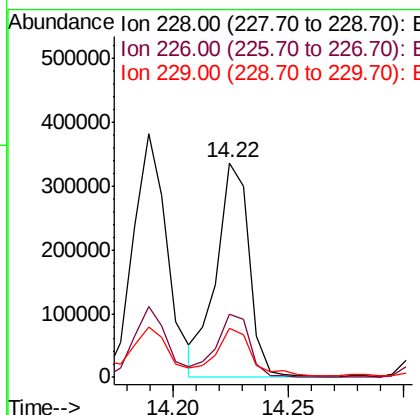
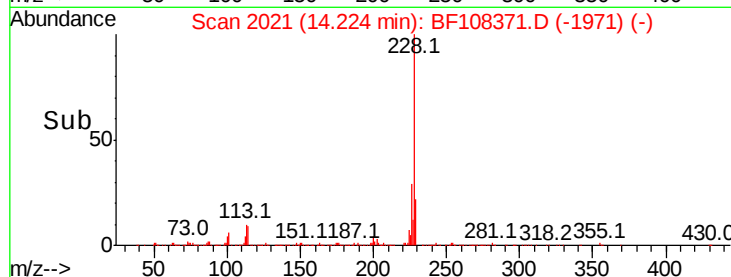
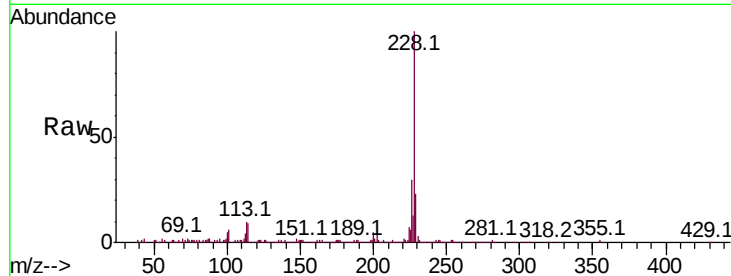
#82
Chrysene
Concen: 18.313 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.6	25.0	37.6
229	22.7	16.2	24.4

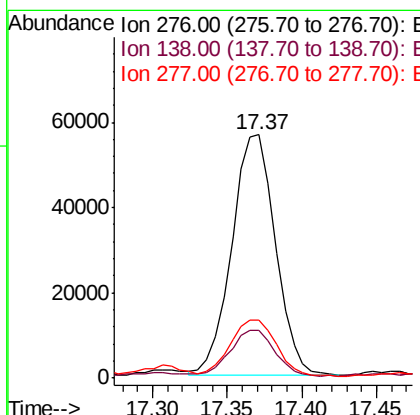
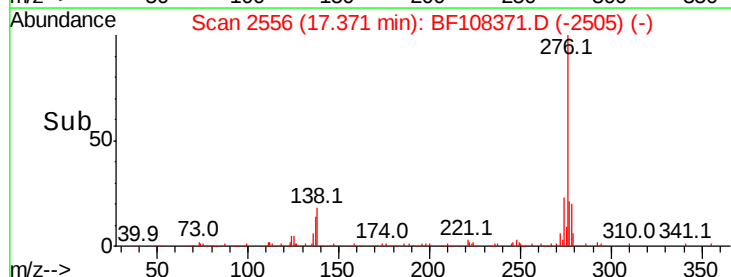
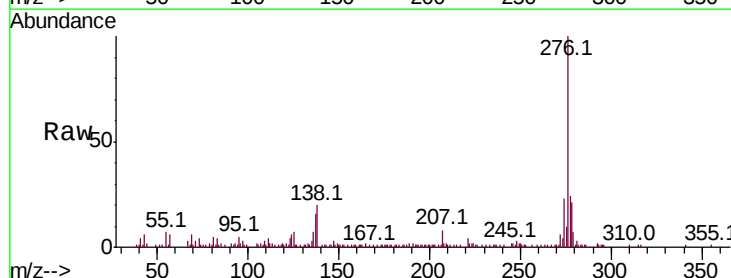
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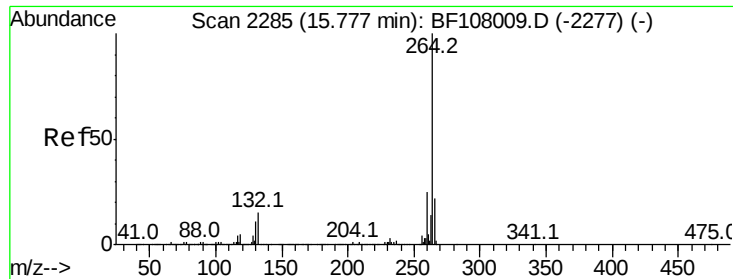
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#85
Indeno(1,2,3-cd)pyrene
Concen: 7.304 ng
RT: 17.37 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.8	25.0	37.6#
277	24.8	20.1	30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.76 min Scan# 2282

Delta R.T. 0.00 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Instrument :

BNA_F

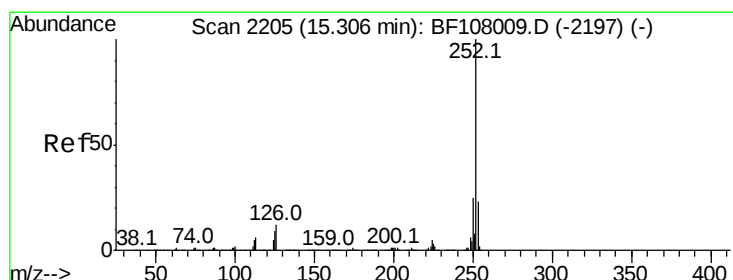
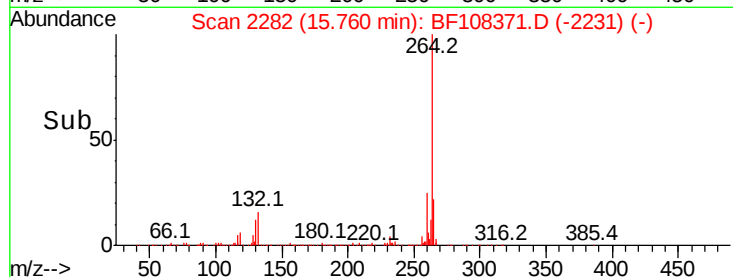
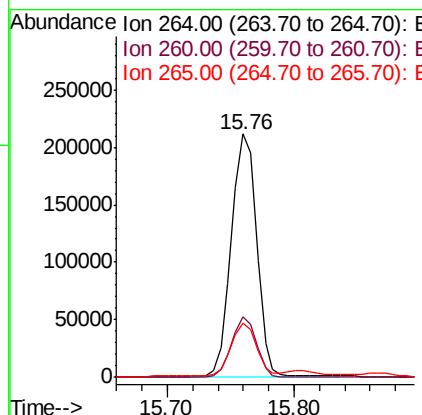
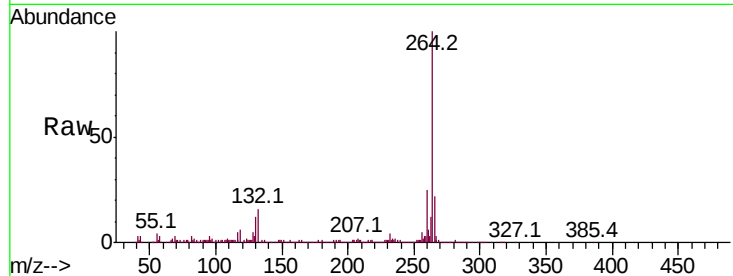
ClientSampleId :

RA-081518-NSW-45-029DL

Tot Ion:	264	Resp:	292895
Ion Ratio		Lower	Upper
264	100		
260	25.0	19.2	28.8
265	22.4	17.5	26.3

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#87

Benzo(b)fluoranthene

Concen: 22.658 ng m

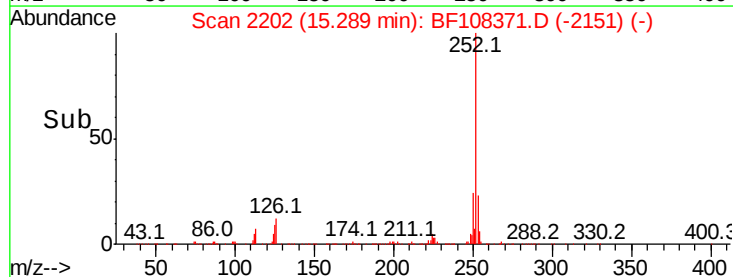
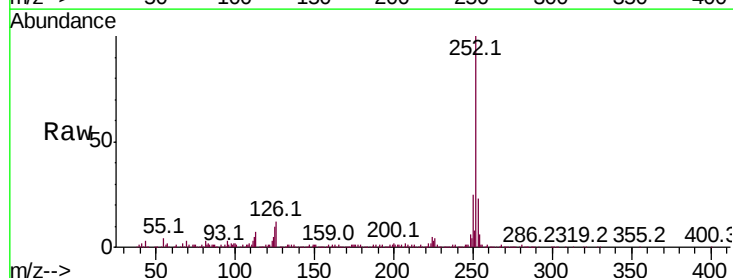
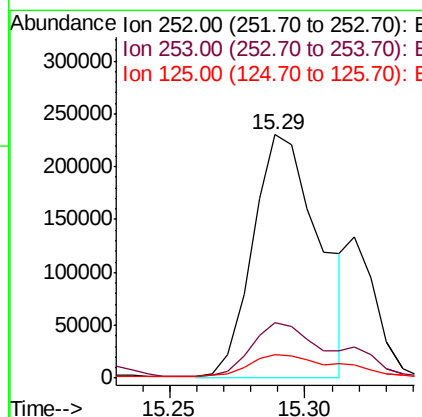
RT: 15.29 min Scan# 2202

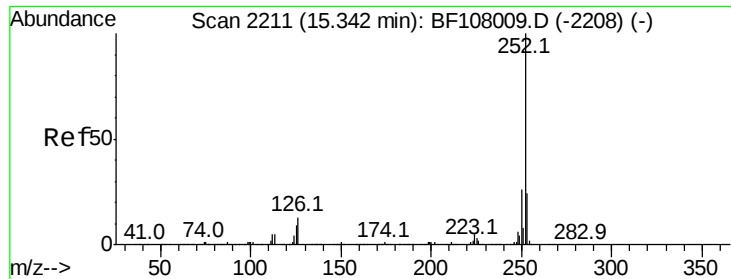
Delta R.T. 0.00 min

Lab File: BF108371.D

Acq: 22 Aug 2018 7:08

Tgt Ion:	252	Resp:	396551
Ion Ratio		Lower	Upper
252	100		
253	22.9	17.0	25.6
125	9.7	9.0	13.6





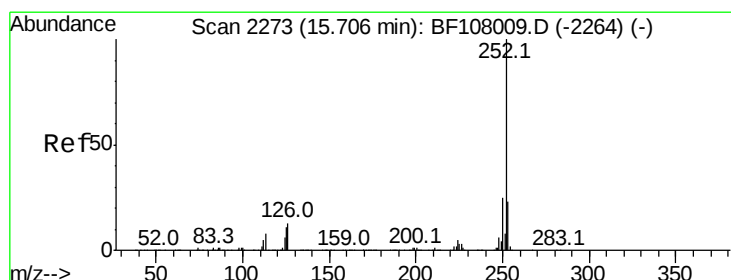
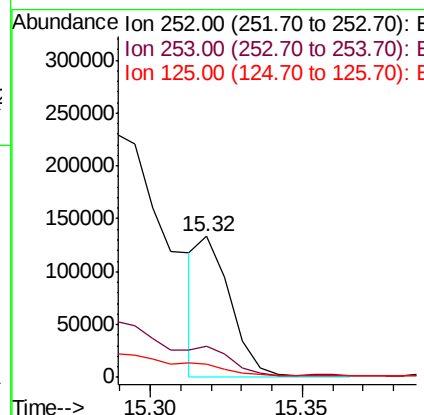
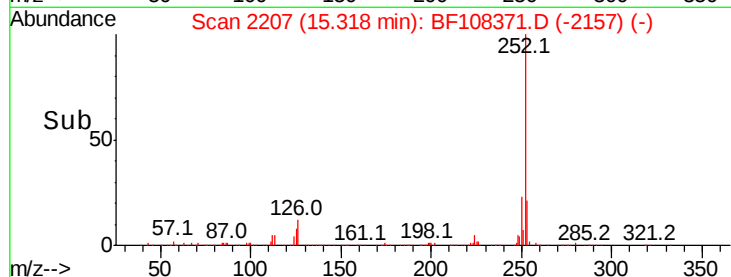
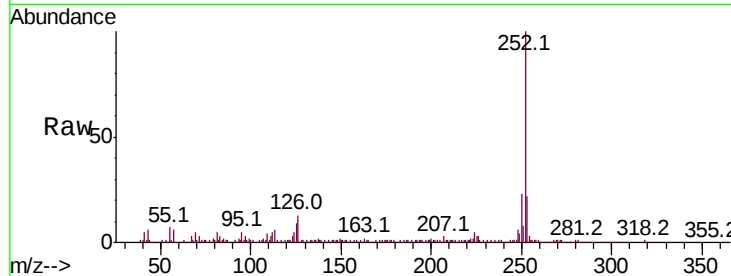
#88
Benzo(k)fluoranthene
Concen: 6.143 ng/mL
RT: 15.32 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion:	252	Resp:	98824
Ion Ratio	Lower	Upper	
252	100		
253	22.2	17.9	26.9
125	8.9	10.2	15.2

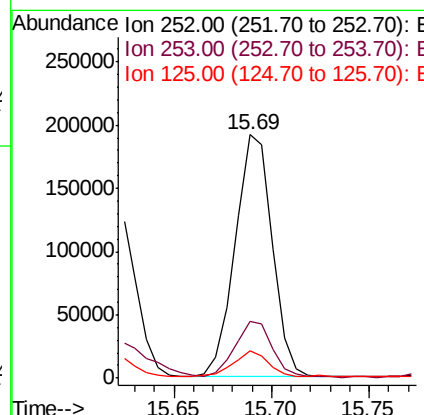
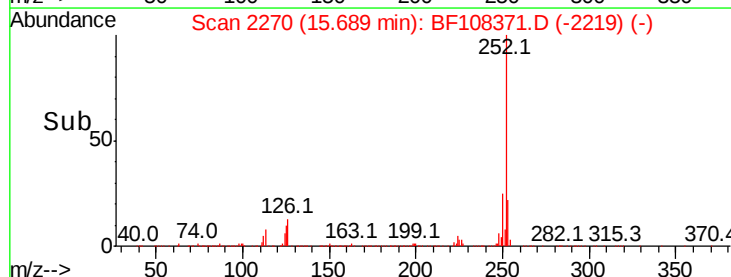
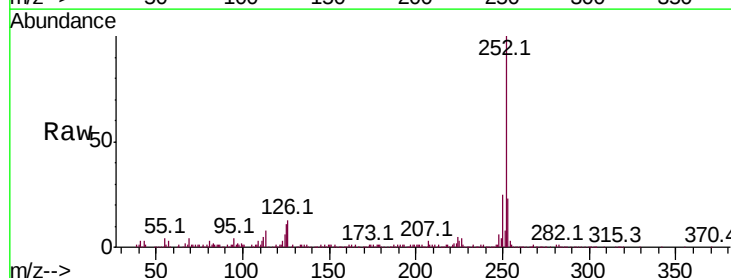
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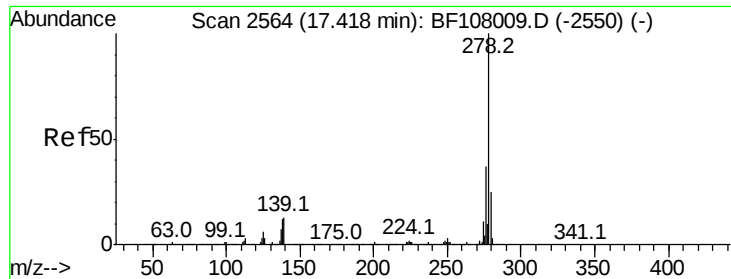
Sohil
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#89
Benzo(a)pyrene
Concen: 16.156 ng/mL
RT: 15.69 min Scan# 2270
Delta R.T. 0.00 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion:	252	Resp:	253200
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	11.3	9.8	14.6





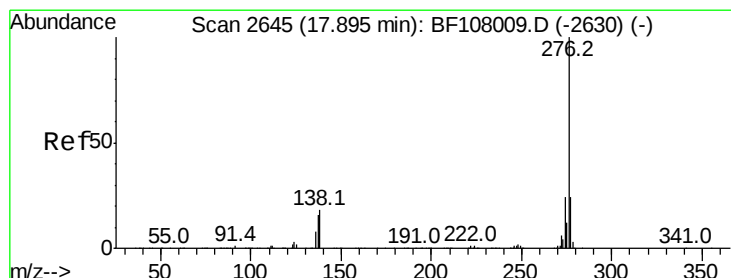
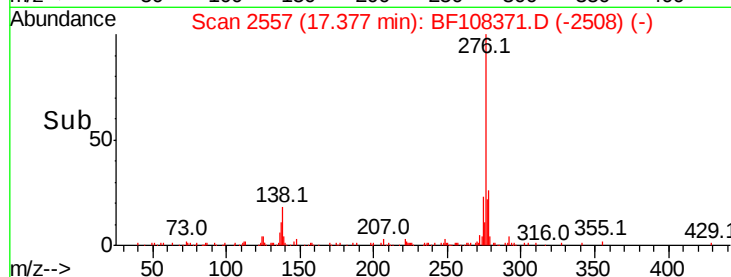
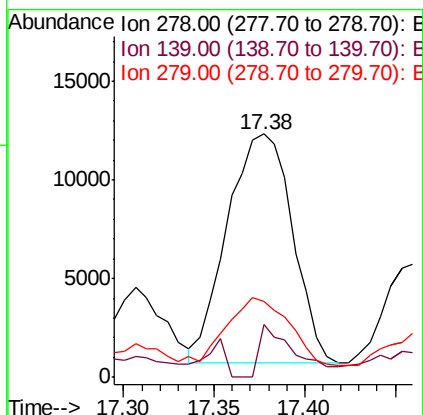
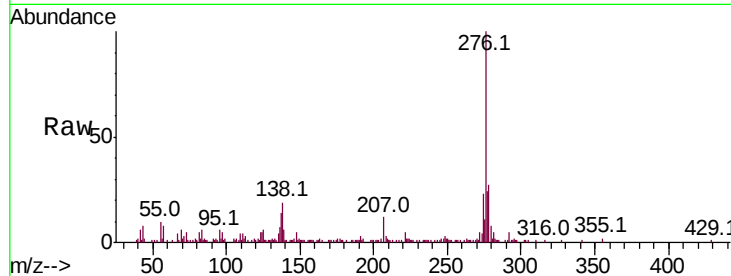
#90
Dibenzo(a,h)anthracene
Concen: 2.234 ng
RT: 17.38 min Scan# 2557
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Instrument :
BNA_F
ClientSampleId :
RA-081518-NSW-45-029DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	21.5	15.9	23.9
279	31.1	19.0	28.4#

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#91
Benzo(g,h,i)perylene
Concen: 8.184 ng
RT: 17.86 min Scan# 2639
Delta R.T. -0.01 min
Lab File: BF108371.D
Acq: 22 Aug 2018 7:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	22.3	17.9	26.9
138	19.1	21.8	32.8#

