

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
 Data File : BF109135.D
 Acq On : 19 Sep 2018 9:37
 Operator : JU/SJ
 Sample : J4959-01DL 2X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Manual Integrations
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Quant Time: Sep 19 11:57:25 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 14 13:26:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	132960	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	466238	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	182889	20.00	ng	0.00
63) Phenanthrene-d10	11.23	188	329716	20.00	ng	0.00
75) Chrysene-d12	13.85	240	381646	20.00	ng	0.00
86) Perylene-d12	15.26	264	342625	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	262689	32.81	ng	0.00
7) Phenol-d6	6.35	99	325454	31.53	ng	-0.01
23) Nitrobenzene-d5	7.28	82	191617	23.05	ng	-0.01
41) 2,4,6-Tribromophenol	10.53	330	63866	32.18	ng	-0.01
44) 2-Fluorobiphenyl	9.08	172	329728	28.25	ng	0.00
78) Terphenyl-d14	12.81	244	331157	20.57	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.02	128	106368	4.915	ng	99
37) 2-Methylnaphthalene	8.71	142	33153	2.350	ng	99
49) Dimethylphthalate	9.47	163	41995	3.213	ng	100
51) Acenaphthene	9.78	154	67760	6.159	ng	98
54) Dibenzofuran	9.95	168	116714	7.341	ng	99
57) Fluorene	10.30	166	128203	12.101	ng	98
70) Phenanthrene	11.25	178	993550	61.472	ng	99
71) Anthracene	11.30	178	486454	29.691	ng	100
72) Carbazole	11.45	167	158688	9.784	ng	99
74) Fluoranthene	12.44	202	952563	55.826	ng	98
77) Pyrene	12.67	202	853159	30.096	ng	100
80) Benzo(a)anthracene	13.85	228	427623	18.507	ng	99
82) Chrysene	13.88	228	389060	16.830	ng	98
85) Indeno(1,2,3-cd)pyrene	16.61	276	120476m	6.518	ng	
87) Benzo(b)fluoranthene	14.87	252	361860m	19.091	ng	
88) Benzo(k)fluoranthene	14.88	252	130440m	7.368	ng	
89) Benzo(a)pyrene	15.20	252	269593	16.016	ng	97
90) Dibenzo(a,h)anthracene	16.62	278	28800m	2.036	ng	
91) Benzo(a,h,i)perylene	17.01	276	105866	7.488	ng	94

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

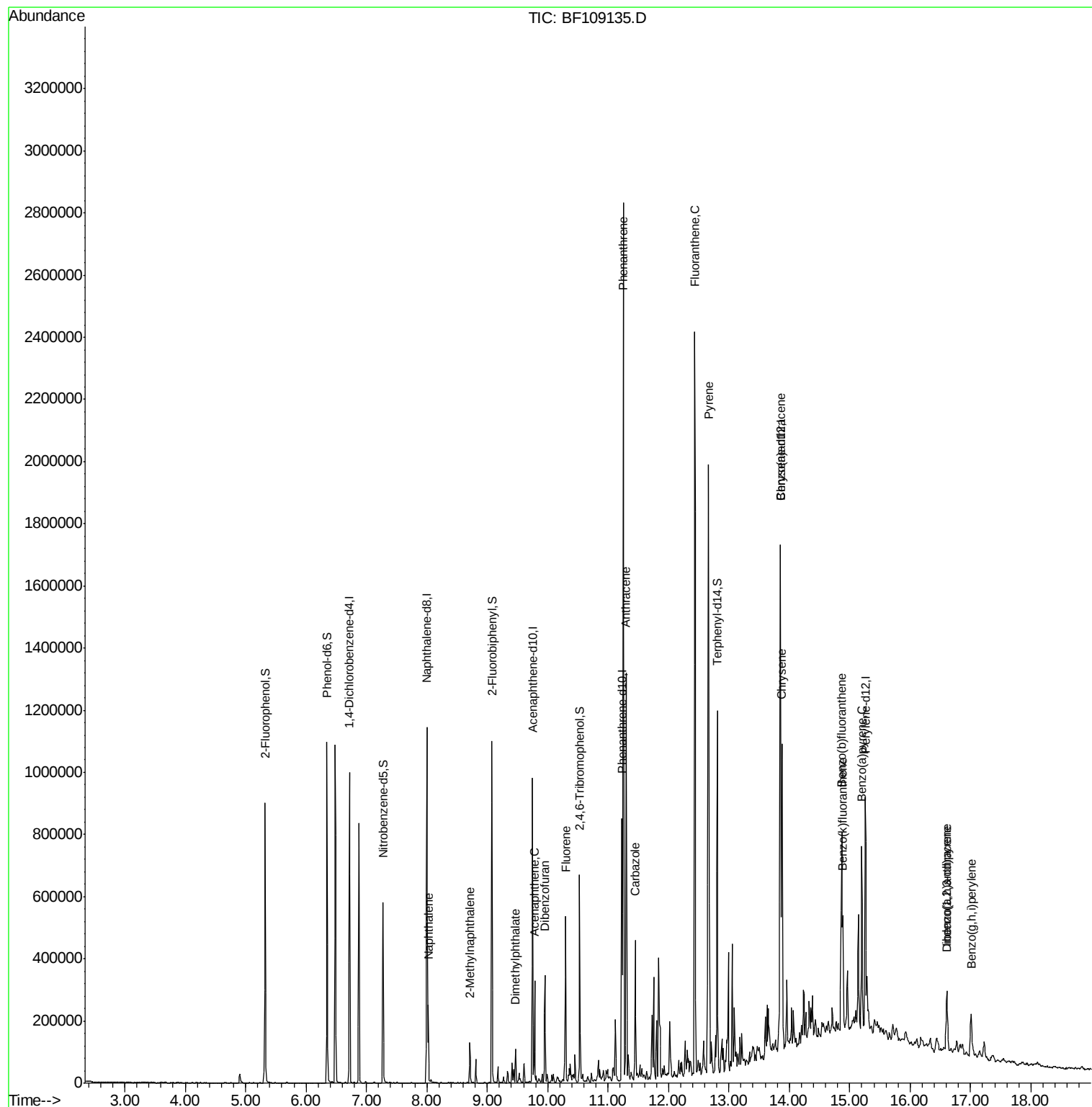
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091818\
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091418.M
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#1

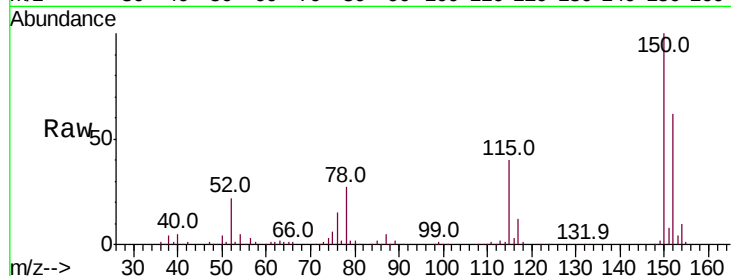
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 745
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.2	124.6	186.8
115	63.8	50.1	75.1

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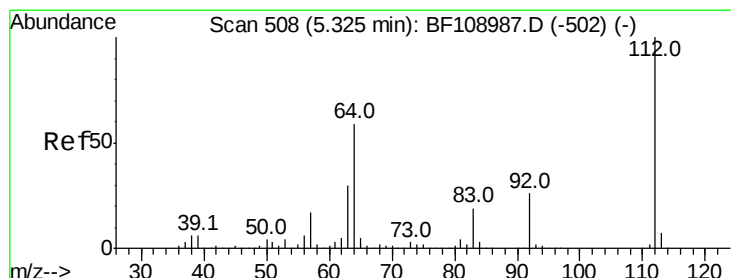
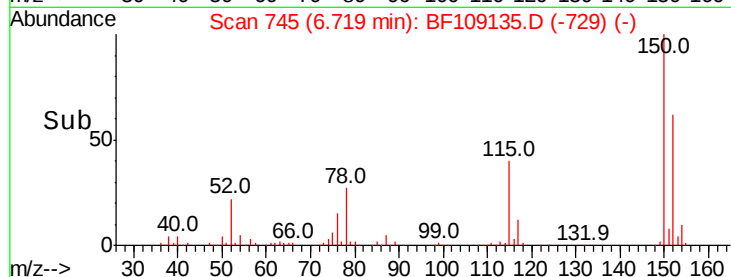
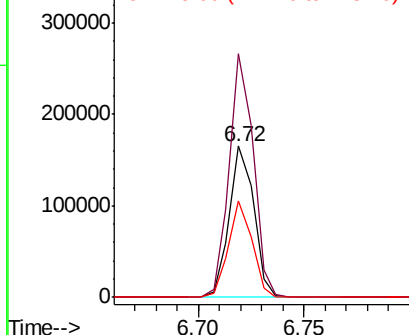


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

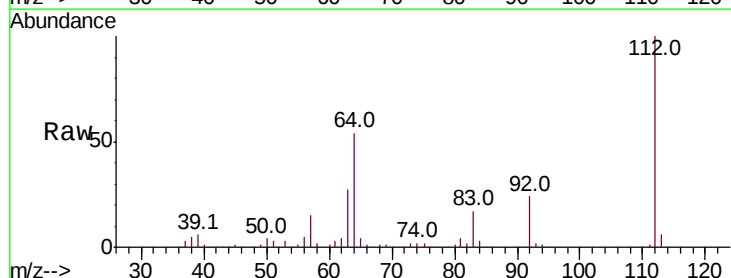
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 32.814 ng
RT: 5.32 min Scan# 508
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.7	47.9	71.9
63	27.0	23.7	35.5

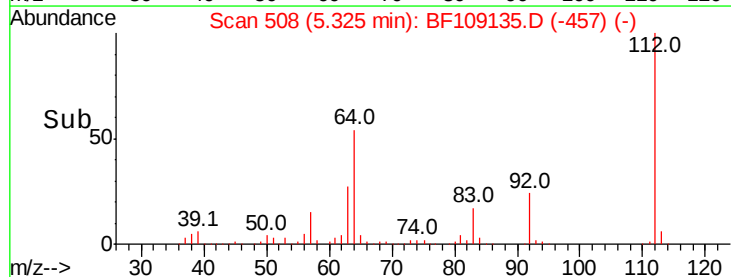
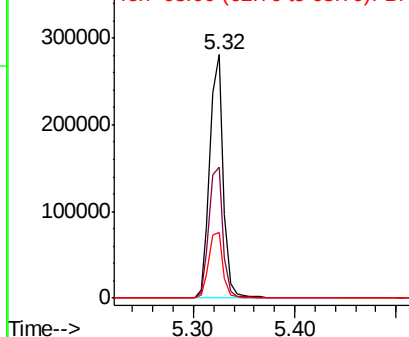


Abundance

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: 31.528 ng

RT: 6.35 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF109135.D

Acq: 19 Sep 2018 9:37

Instrument :

BNA_F

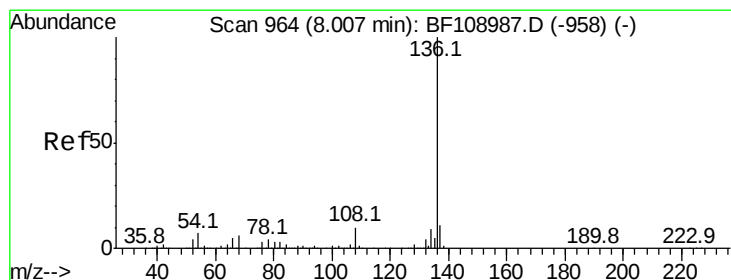
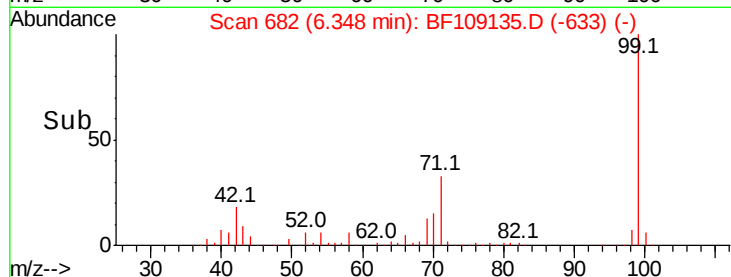
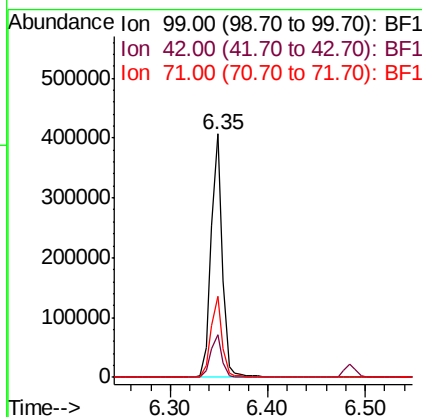
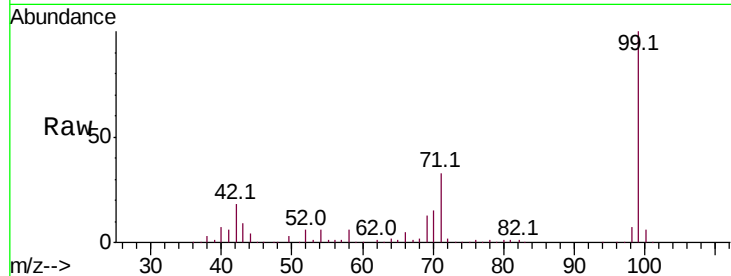
ClientSampleId :

BACKFILL-SW2DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		325454		
42	17.6	14.5	21.7		
71	33.0	25.4	38.0		

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#21

Naphthalene-d8

Concen: 20.000 ng

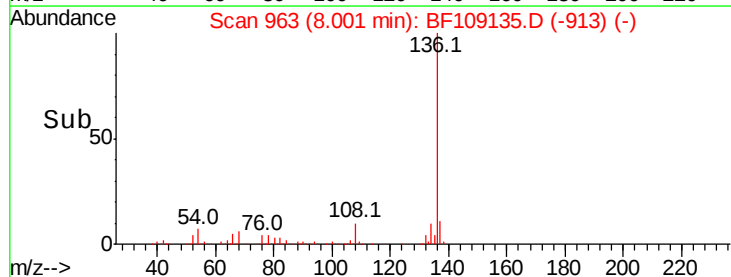
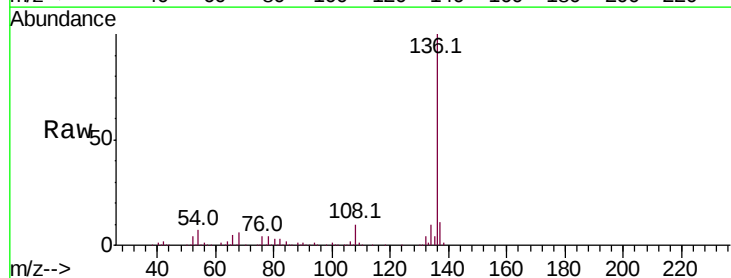
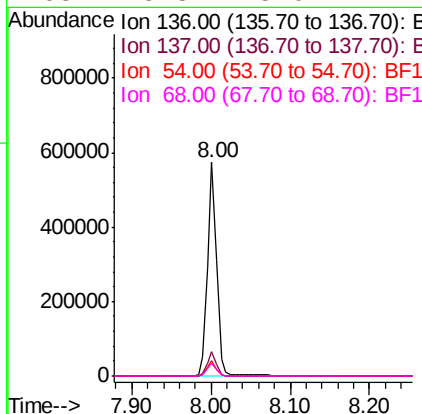
RT: 8.00 min Scan# 963

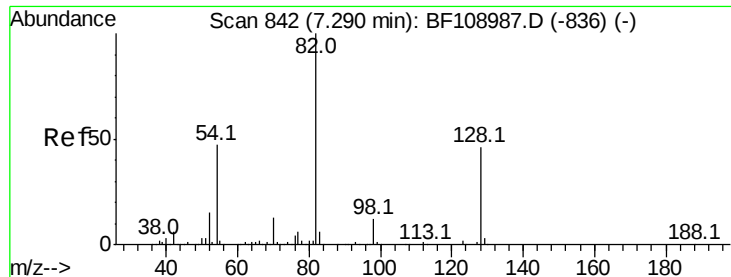
Delta R.T. -0.01 min

Lab File: BF109135.D

Acq: 19 Sep 2018 9:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		466238		
137	11.1	8.9	13.3		
54	7.0	6.6	9.8		
68	5.8	5.0	7.4		





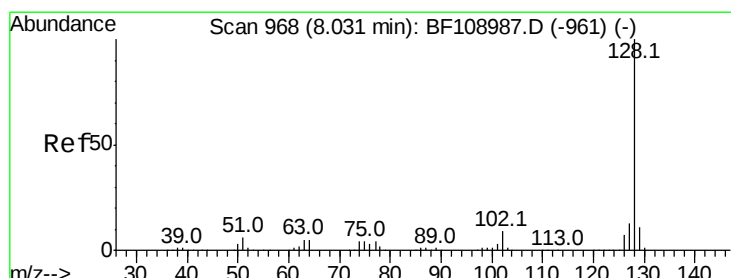
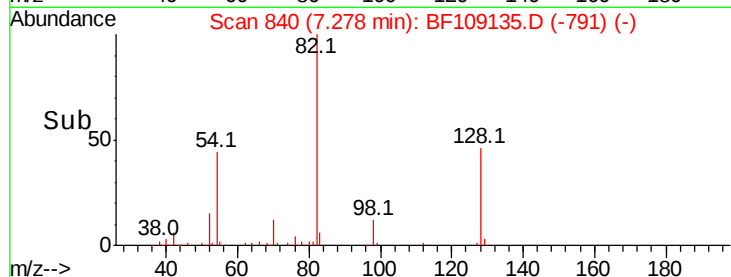
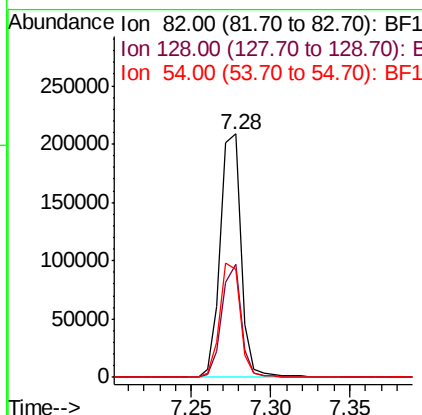
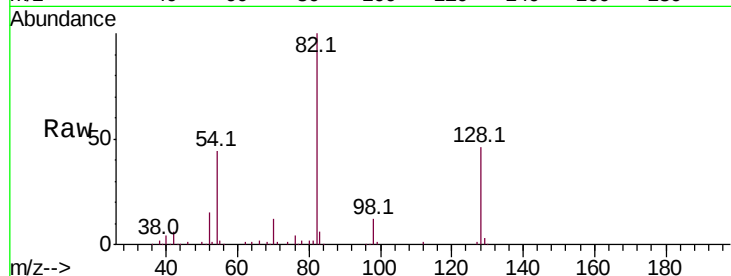
#23
 Nitrobenzene-d5
 Concen: 23.051 ng
 RT: 7.28 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.4	36.1	54.1	
54	44.4	41.4	62.2	

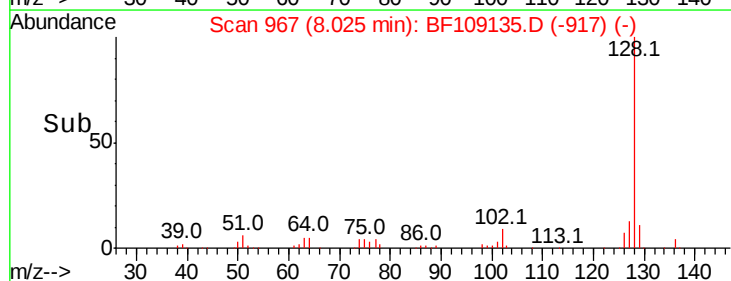
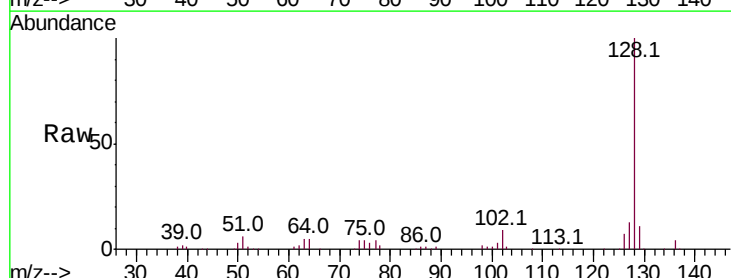
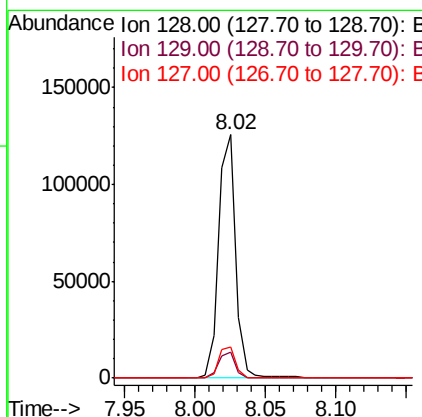
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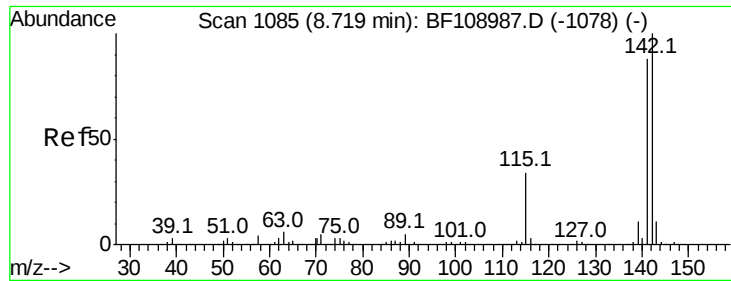
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#31
 Naphthalene
 Concen: 4.915 ng
 RT: 8.02 min Scan# 967
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.8	8.8	13.2	
127	12.9	10.9	16.3	





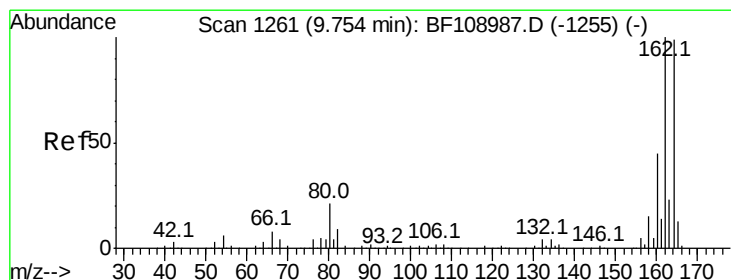
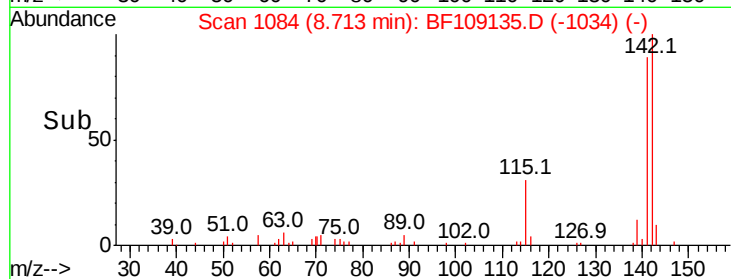
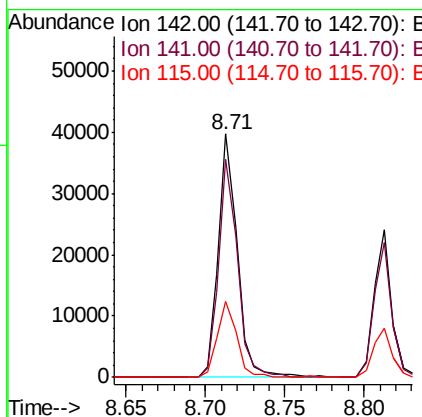
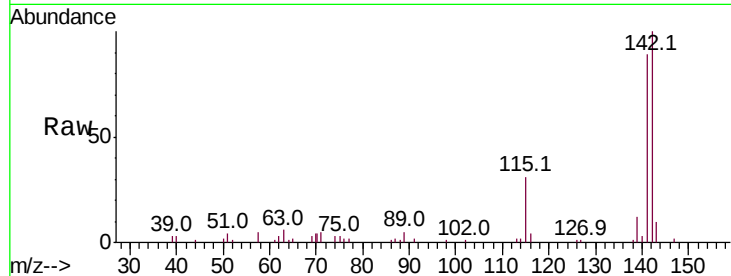
#37
 2-Methylnaphthalene
 Concen: 2.350 ng
 RT: 8.71 min Scan# 1084
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.8	106.2
115	31.4	26.1	39.1

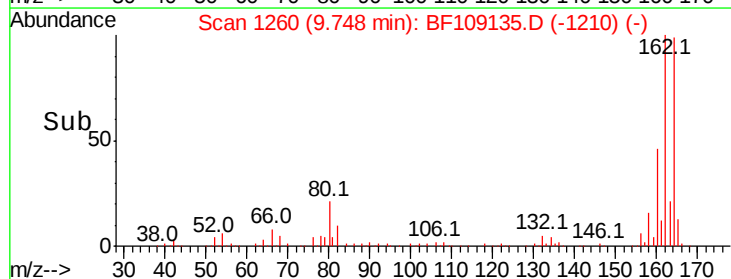
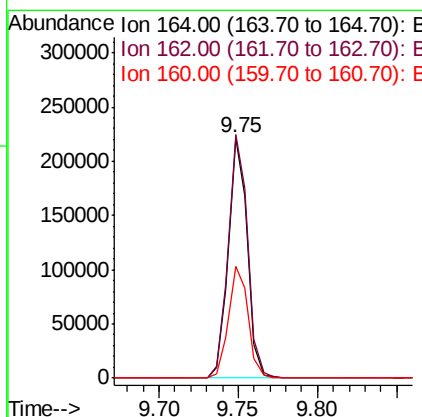
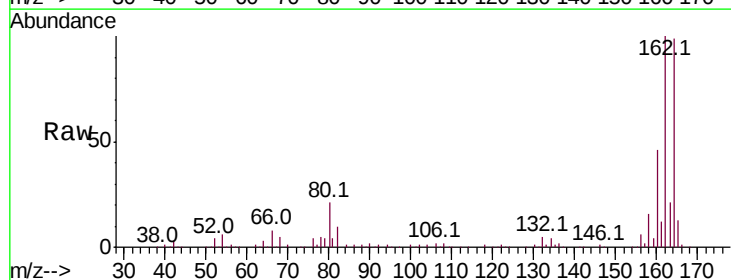
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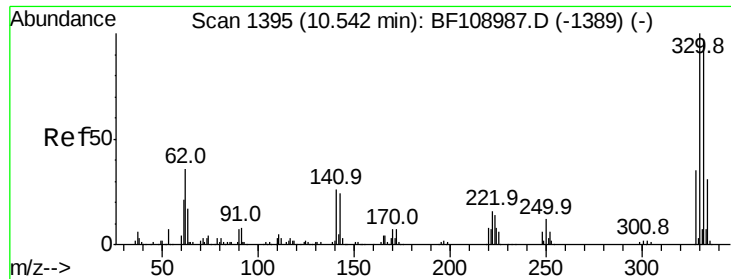
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.75 min Scan# 1260
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.4	86.1	129.1
160	46.6	38.3	57.5





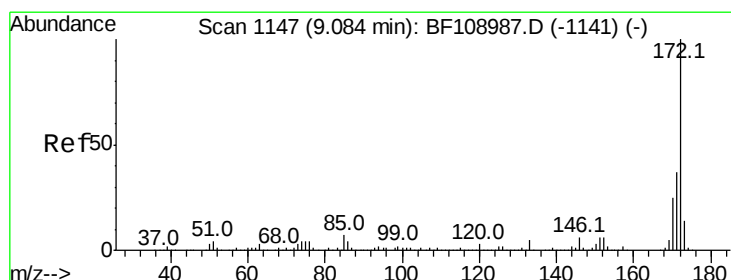
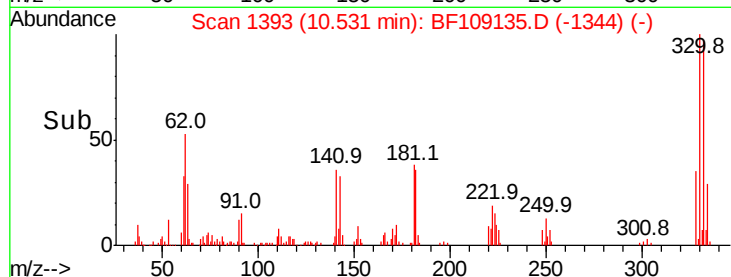
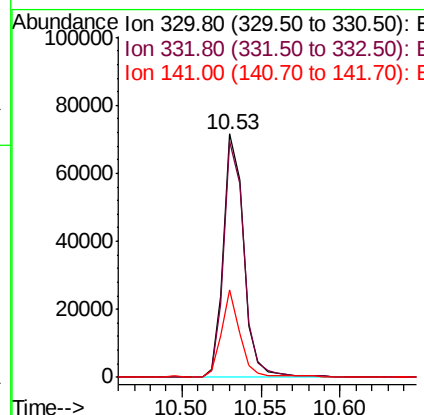
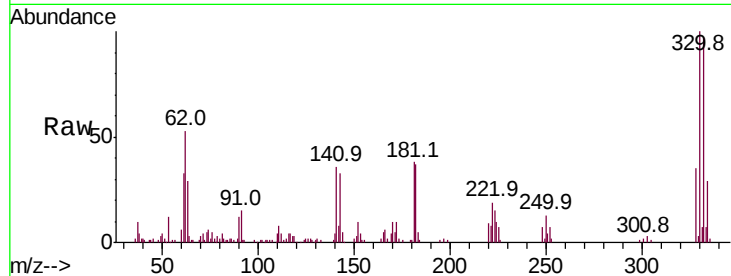
#41
 2,4,6-Tribromophenol
 Concen: 32.177 ng
 RT: 10.53 min Scan# 1393
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	63866		
332	97.0	77.0	115.6	
141	33.4	29.9	44.9	

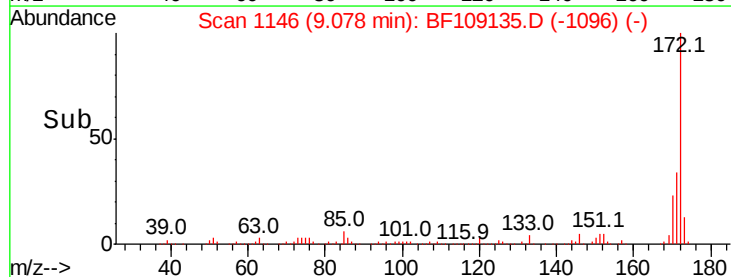
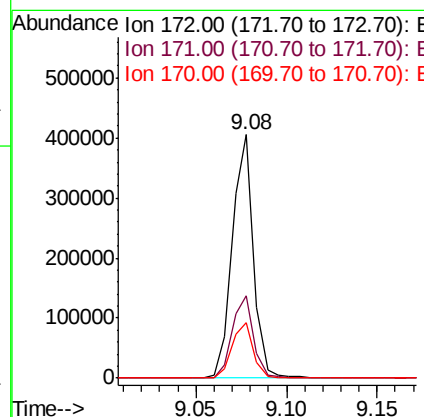
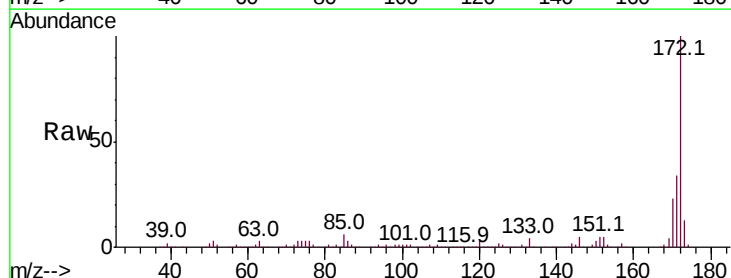
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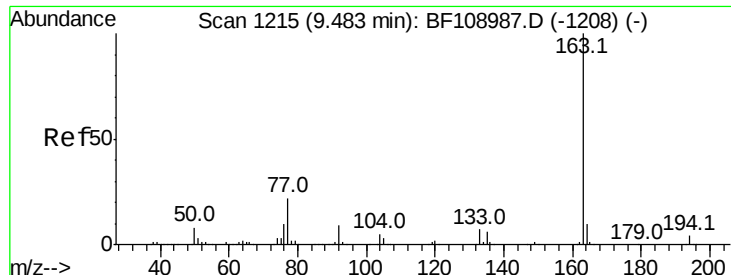
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#44
 2-Fluorobiphenyl
 Concen: 28.246 ng
 RT: 9.08 min Scan# 1146
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	329728		
171	34.0	29.7	44.5	
170	22.9	19.6	29.4	





#49

Dimethylphthalate

Concen: 3.213 ng

RT: 9.47 min Scan# 1212

Delta R.T. -0.02 min

Lab File: BF109135.D

Acq: 19 Sep 2018 9:37

Instrument :

BNA_F

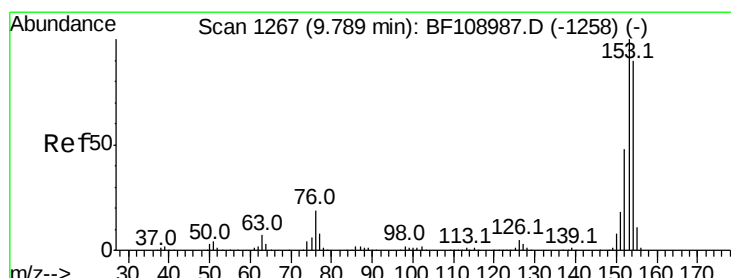
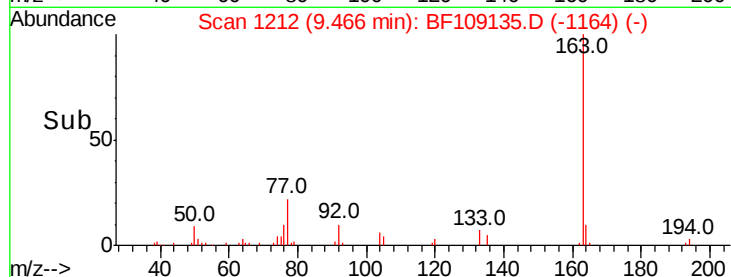
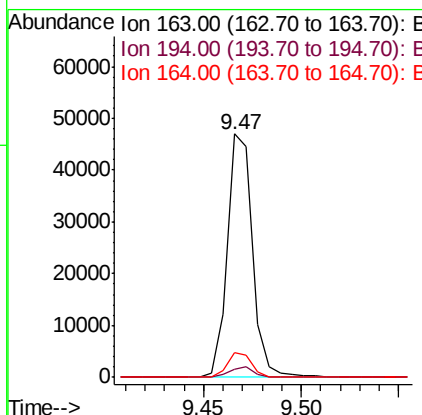
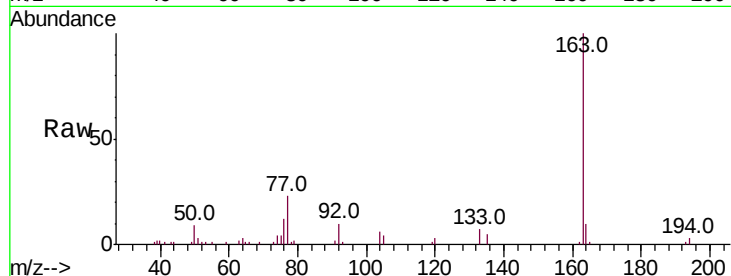
ClientSampleId :

BACKFILL-SW2DL

Tot Ion:	163	Resp:	41995
Ion Ratio	Lower	Upper	
163	100		
194	3.5	2.7	4.1
164	10.2	8.2	12.2

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#51

Acenaphthene

Concen: 6.159 ng

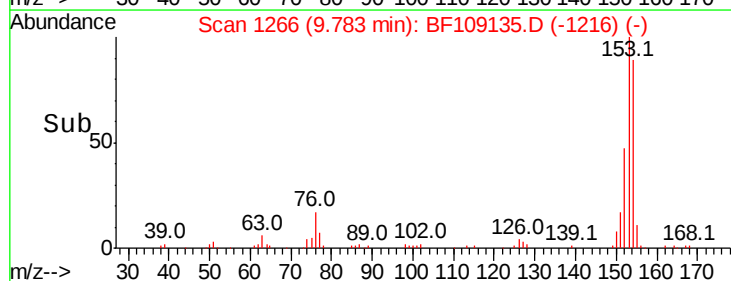
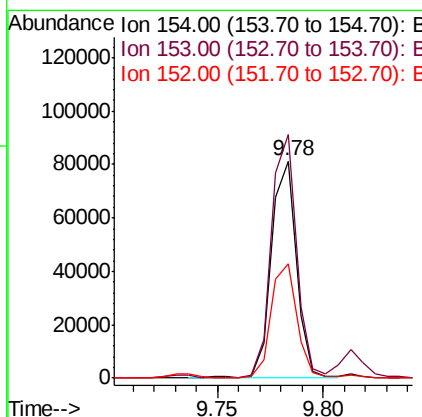
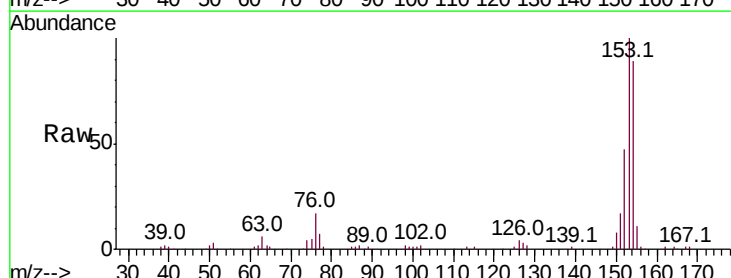
RT: 9.78 min Scan# 1266

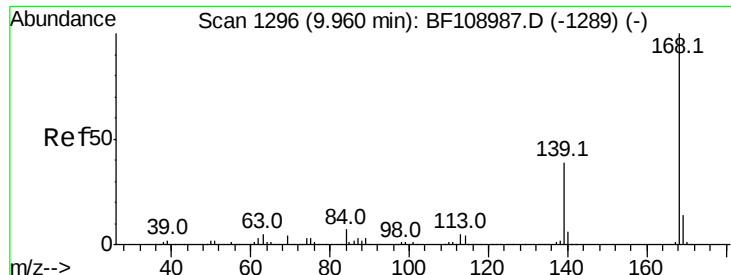
Delta R.T. -0.01 min

Lab File: BF109135.D

Acq: 19 Sep 2018 9:37

Tgt Ion:	154	Resp:	67760
Ion Ratio	Lower	Upper	
154	100		
153	112.3	91.2	136.8
152	52.8	43.8	65.8





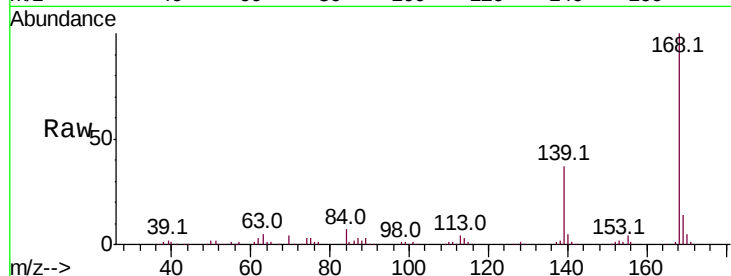
#54
Dibenzenofuran
Concen: 7.341 ng
RT: 9.95 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

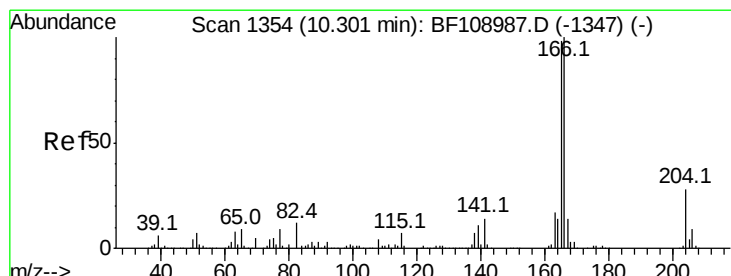
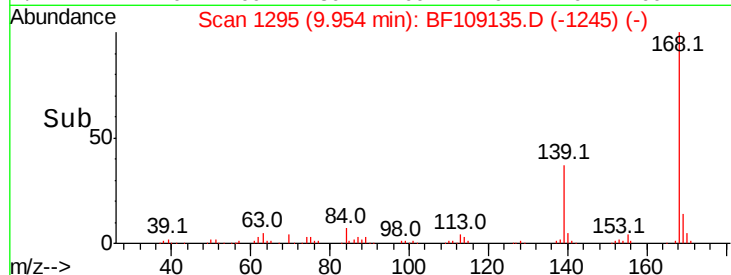
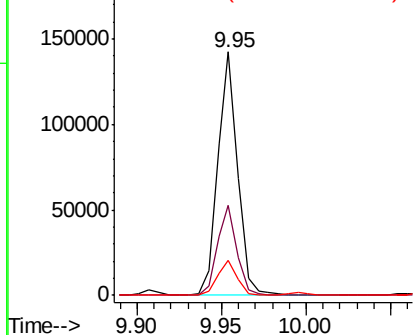
Tot Ion	Ratio	Resp	Lower	Upper
168	100	116714		
139	37.1		30.1	45.1
169	14.5		10.9	16.3

Manual Integrations
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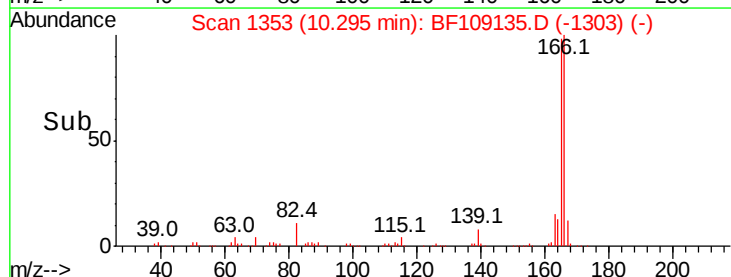
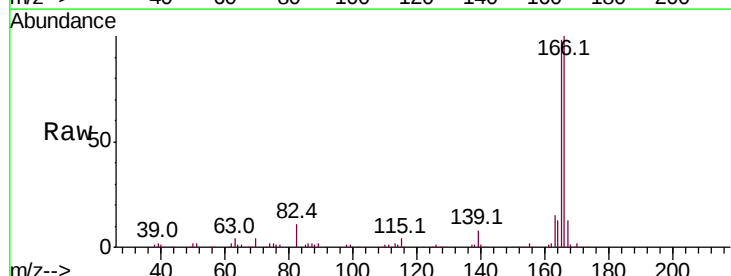
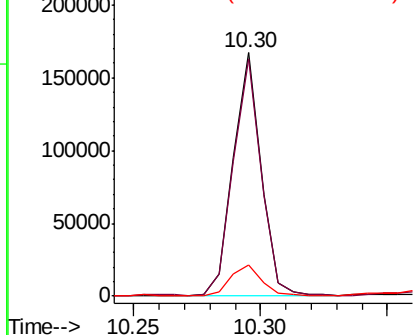
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

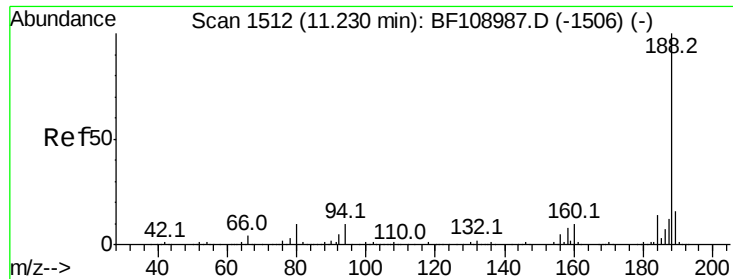


#57
Fluorene
Concen: 12.101 ng
RT: 10.30 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	128203		
165	97.6		79.8	119.8
167	12.7		10.6	16.0

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





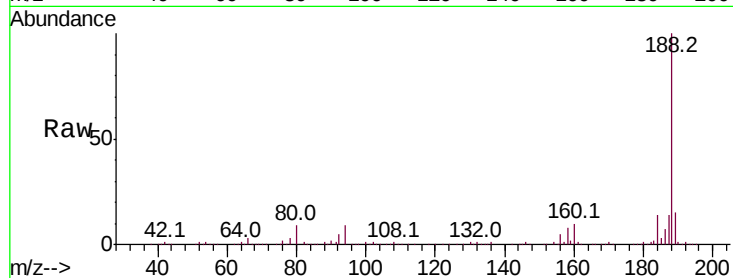
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.23 min Scan# 1512
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

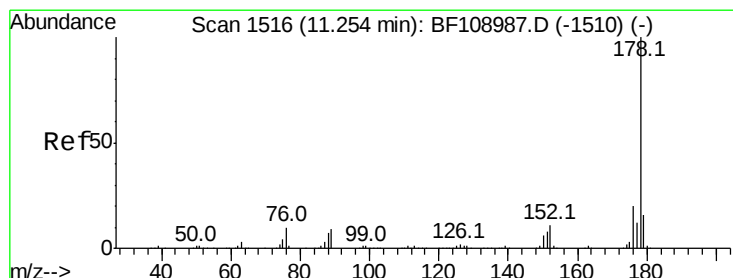
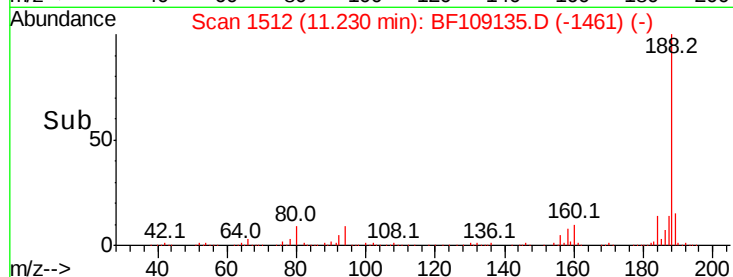
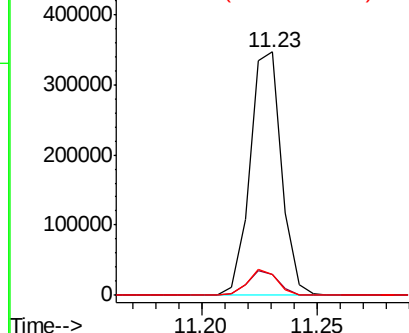
Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.6	8.5	12.7
80	8.7	9.2	13.8#

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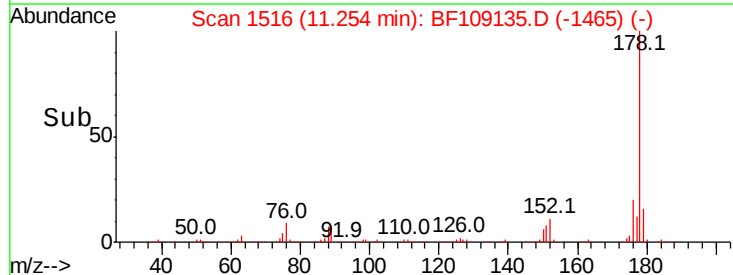
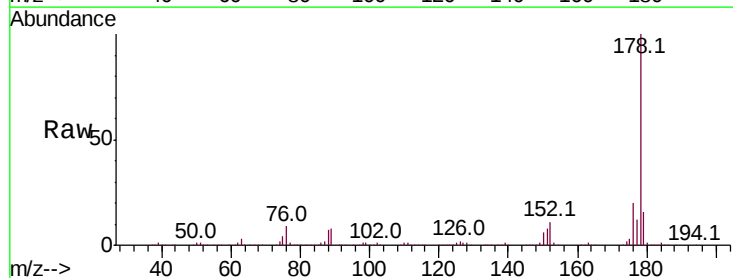
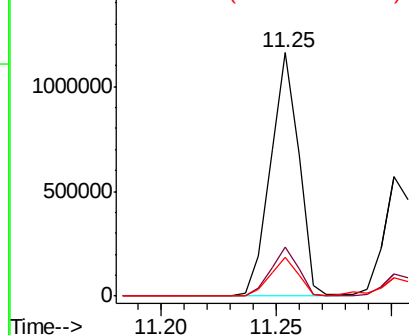
Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

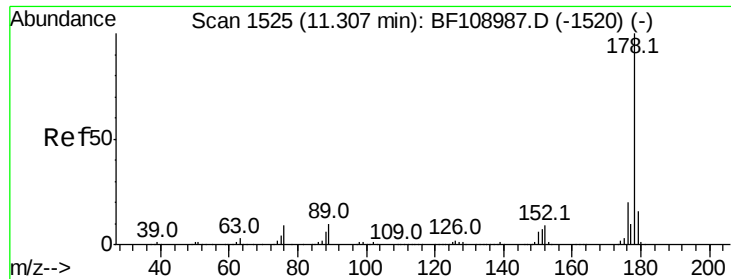


#70
Phenanthrene
Concen: 61.472 ng
RT: 11.25 min Scan# 1516
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.2	15.8	23.8
179	15.8	13.0	19.6

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





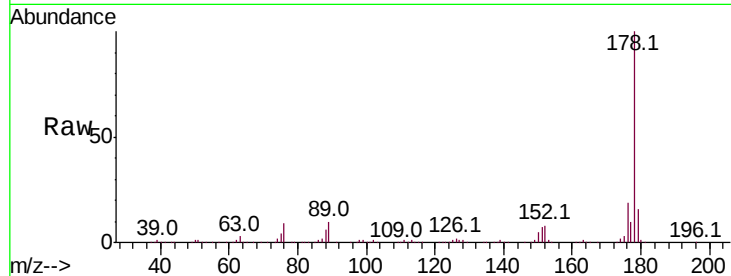
#71
 Anthracene
 Concen: 29.691 ng
 RT: 11.30 min Scan# 1524
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.7	12.6	19.0

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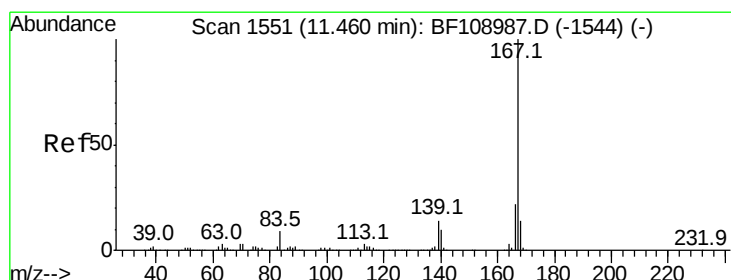
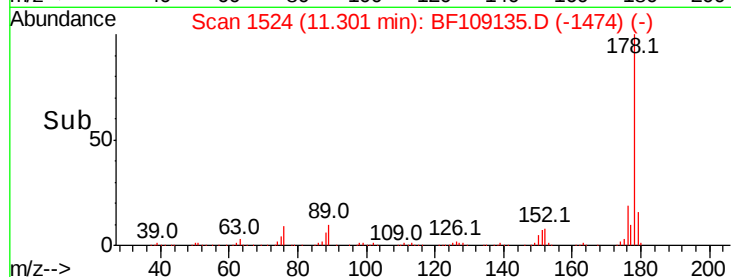
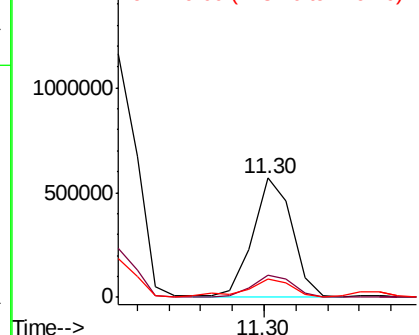


Abundance

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
 Carbazole
 Concen: 9.784 ng
 RT: 11.45 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

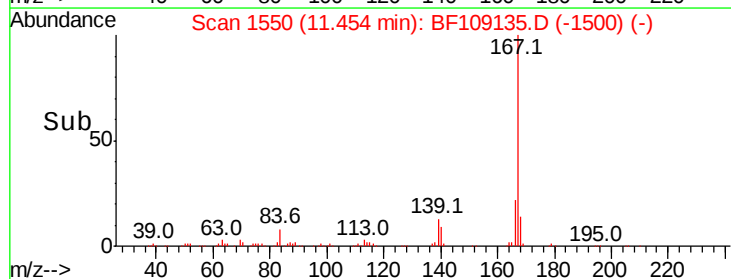
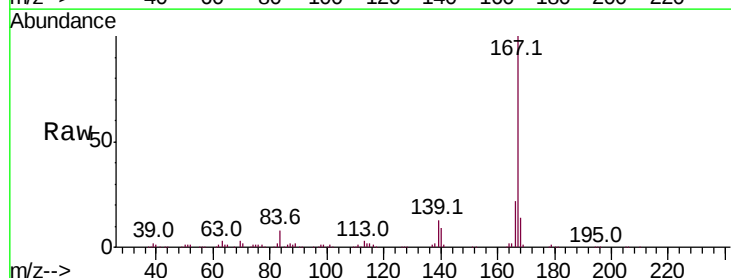
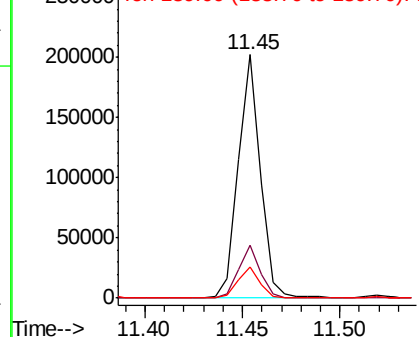
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.6	26.4
139	12.6	10.9	16.3

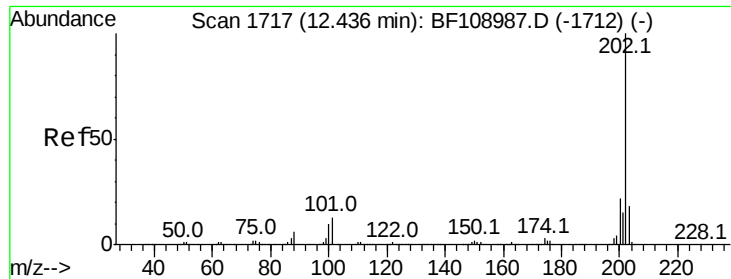
Abundance

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: 55.826 ng

RT: 12.44 min Scan# 1717

Delta R.T. 0.00 min

Lab File: BF109135.D

Acq: 19 Sep 2018 9:37

Instrument :

BNA_F

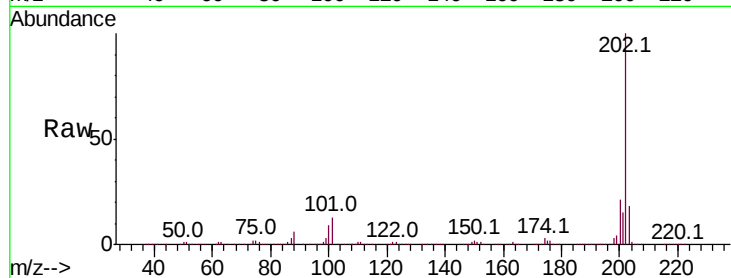
ClientSampleId :

BACKFILL-SW2DL

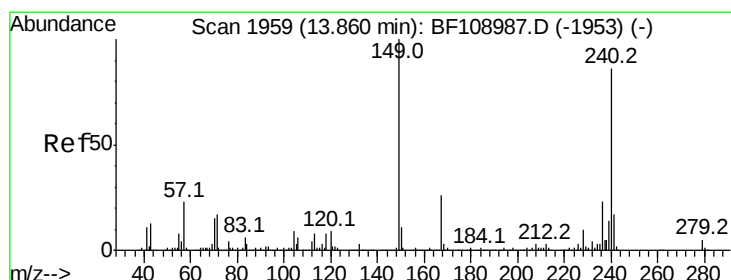
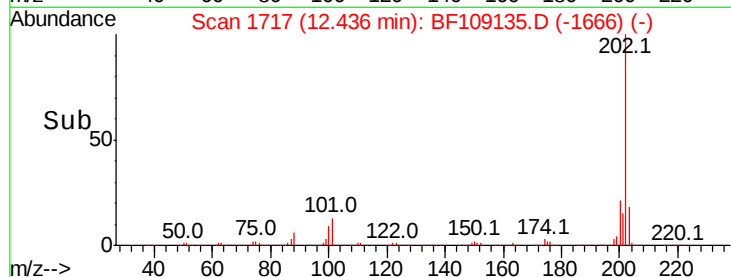
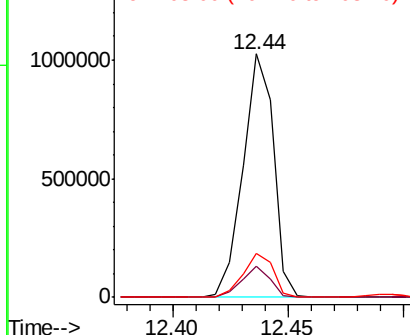
Tot Ion	Ratio	Resp	Lower	Upper
202	100	952563		
101	12.6	0.0	34.1	
203	18.1	0.0	38.1	

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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



#75

Chrysene-d12

Concen: 20.000 ng

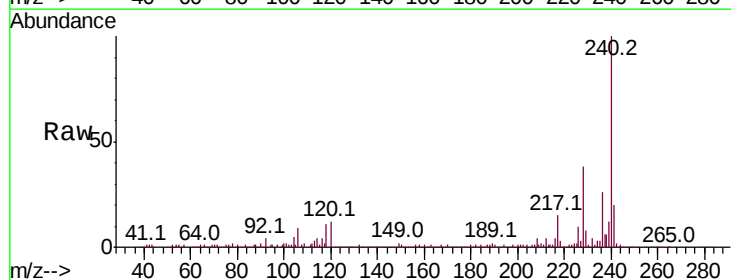
RT: 13.85 min Scan# 1958

Delta R.T. -0.01 min

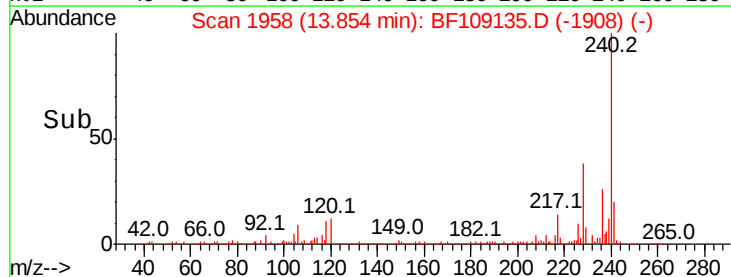
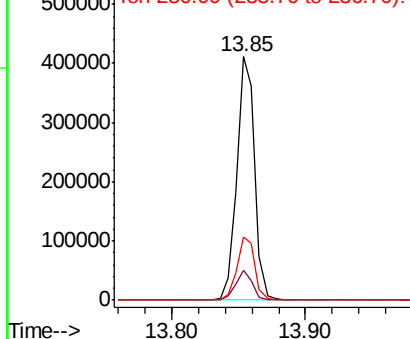
Lab File: BF109135.D

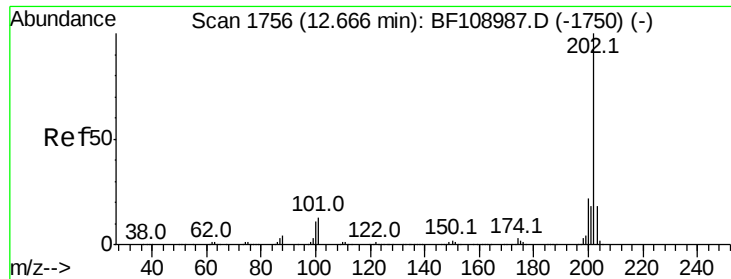
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	381646		
120	12.3	9.5	14.3	
236	25.8	20.7	31.1	



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





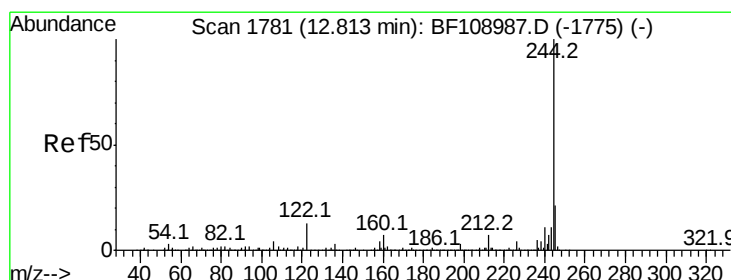
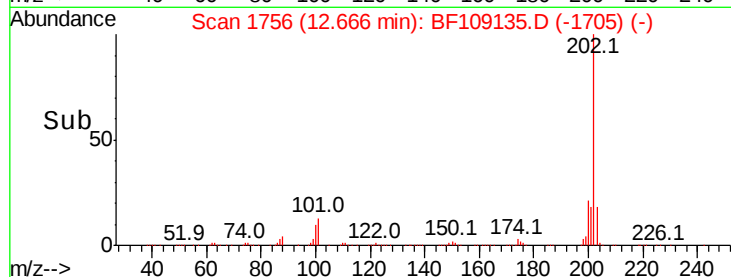
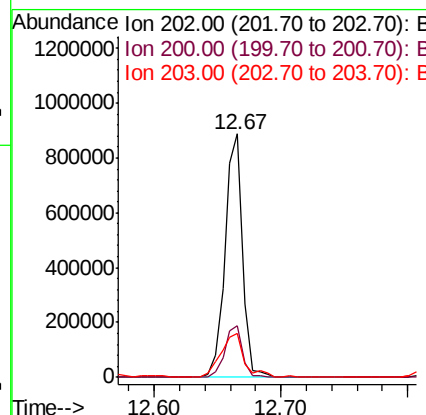
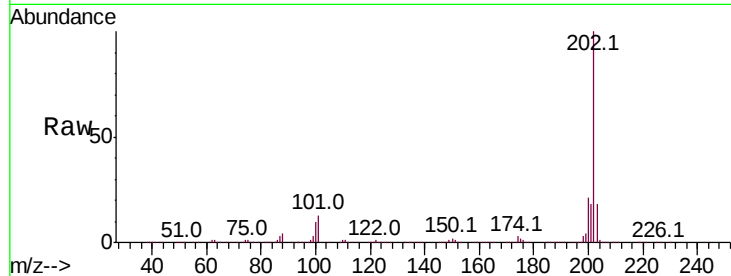
#77
Pvrene
Concen: 30.096 ng
RT: 12.67 min Scan# 1756
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	17.9	14.3	21.5

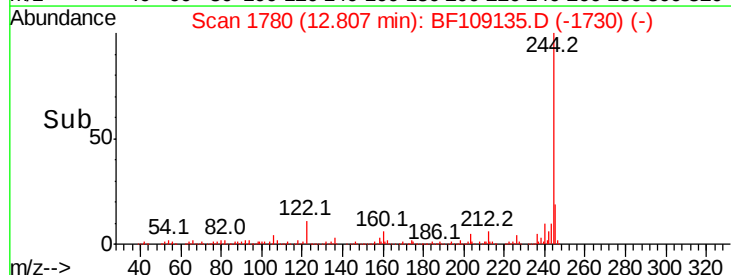
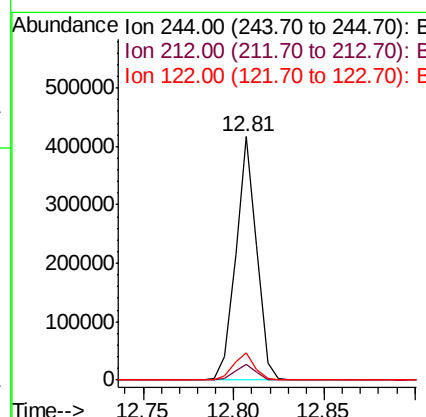
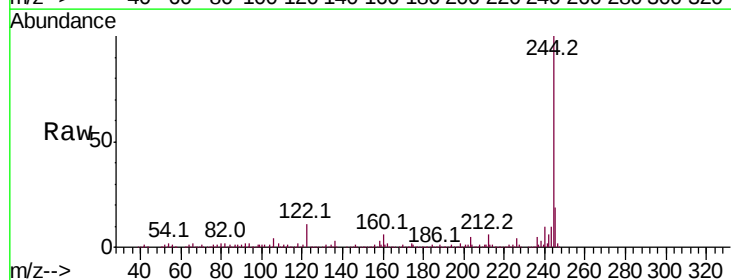
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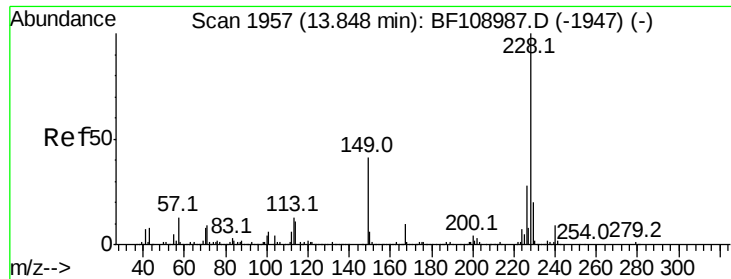
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#78
Terphenyl-d14
Concen: 20.567 ng
RT: 12.81 min Scan# 1780
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	11.4	11.0	16.4





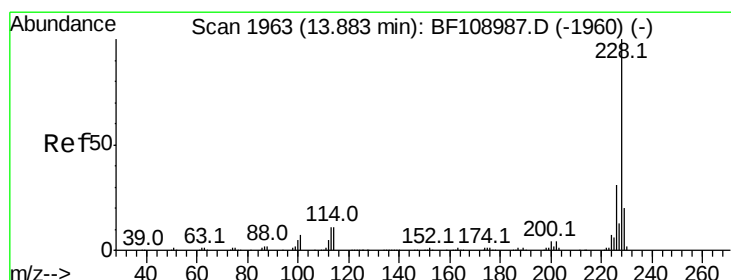
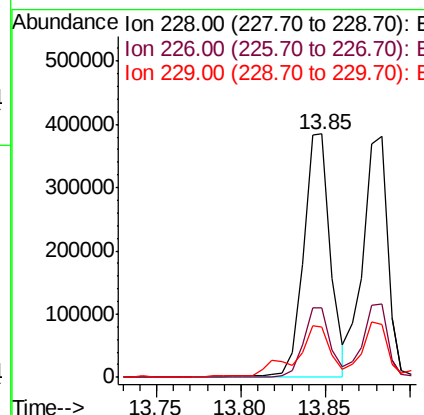
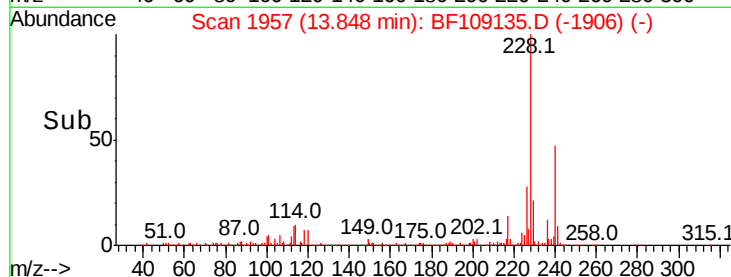
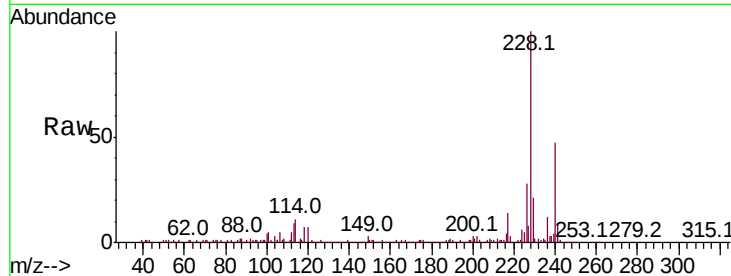
#80
Benzo(a)anthracene
Concen: 18.507 ng
RT: 13.85 min Scan# 1957
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.9	15.8	23.6

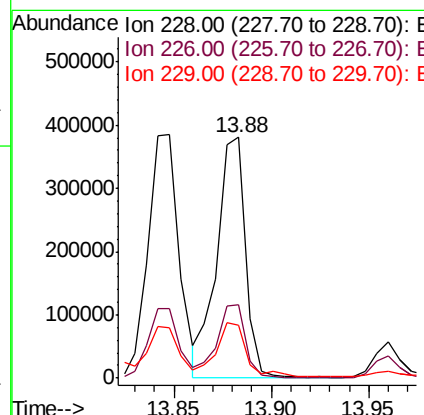
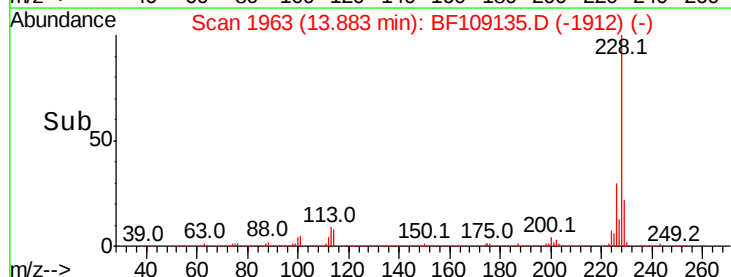
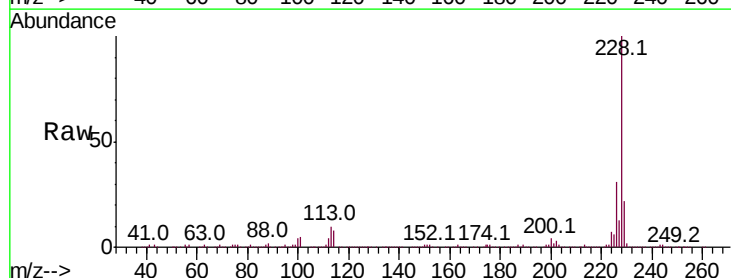
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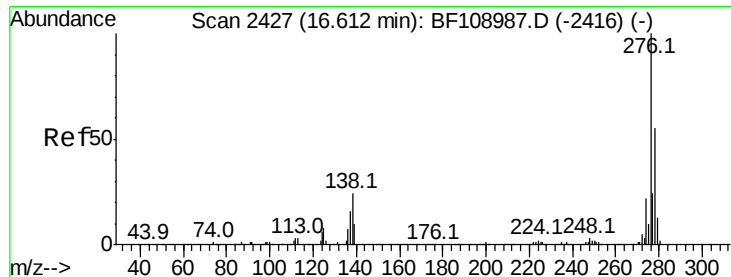
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#82
Chrysene
Concen: 16.830 ng
RT: 13.88 min Scan# 1963
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.1	16.2	24.4





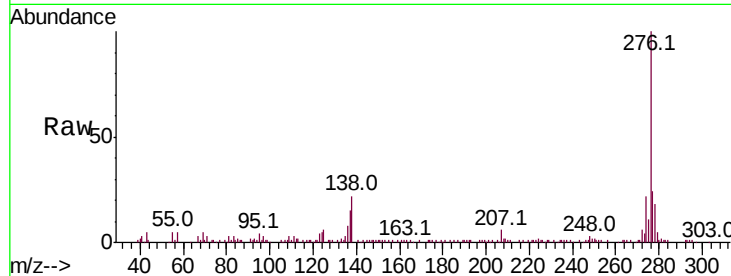
#85
Indeno(1,2,3-cd)pyrene
Concen: 6.518 ng/ml
RT: 16.61 min Scan# 2426
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

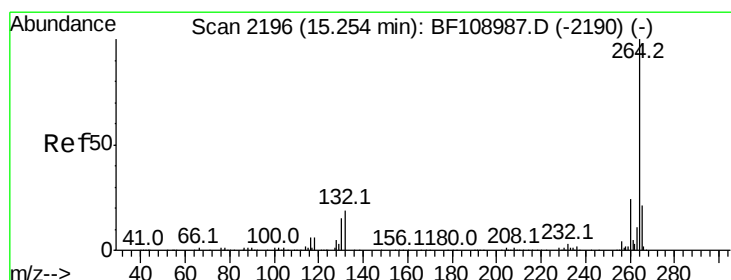
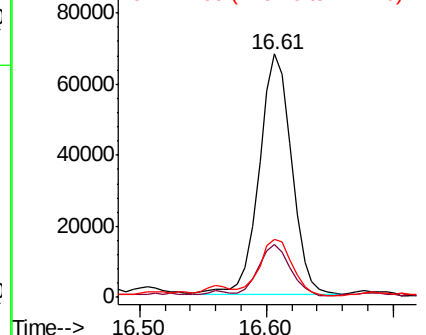
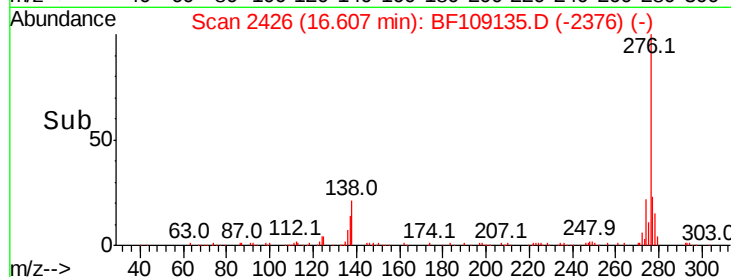
Tot Ion	Ratio	Lower	Upper
276	100		
138	6.4	25.0	37.6#
277	5.0	20.1	30.1#

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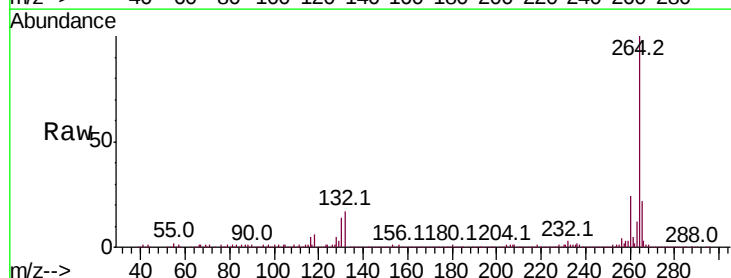


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

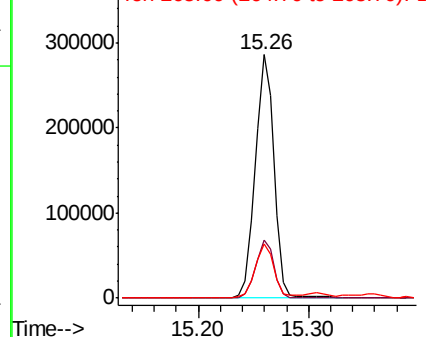
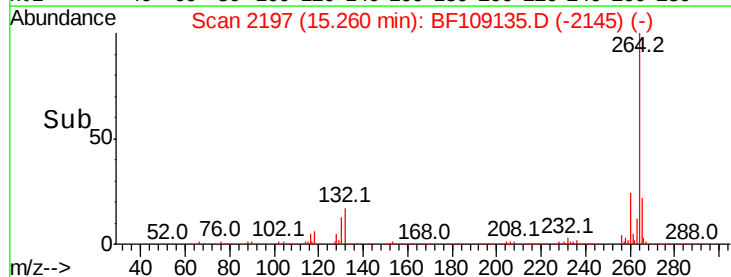


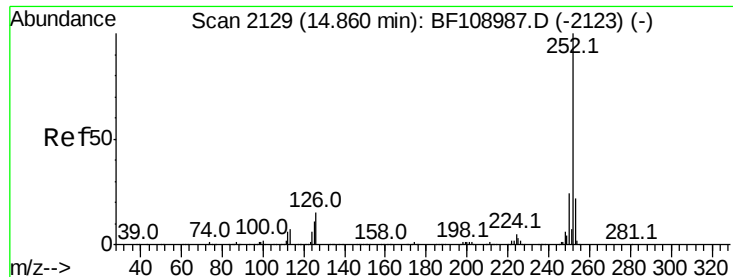
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.26 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	22.4	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





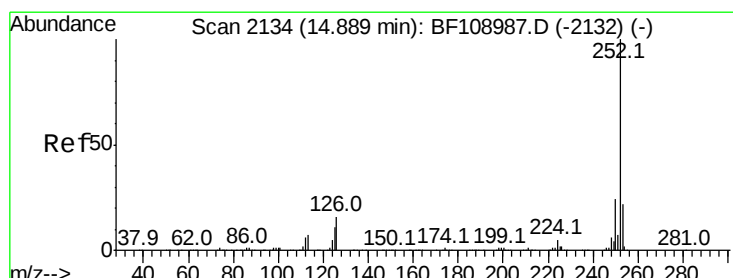
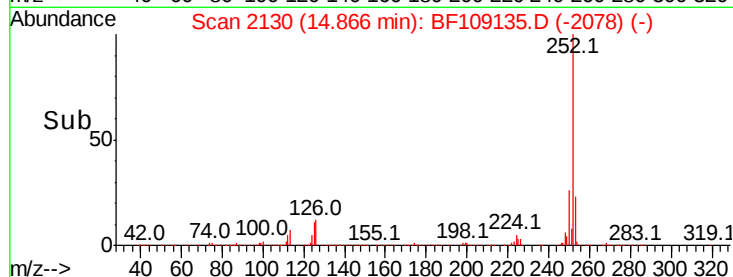
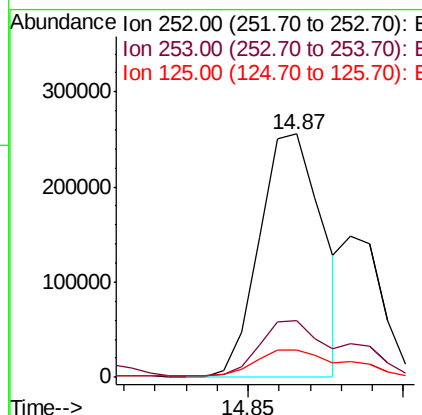
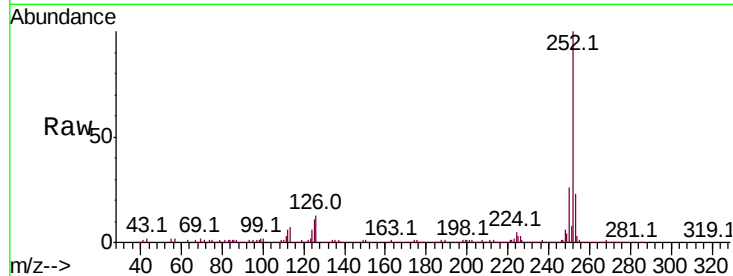
#87
Benzo(b)fluoranthene
Concen: 19.091 ng m
RT: 14.87 min Scan# 2130
Delta R.T. 0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	11.4	9.0	13.6

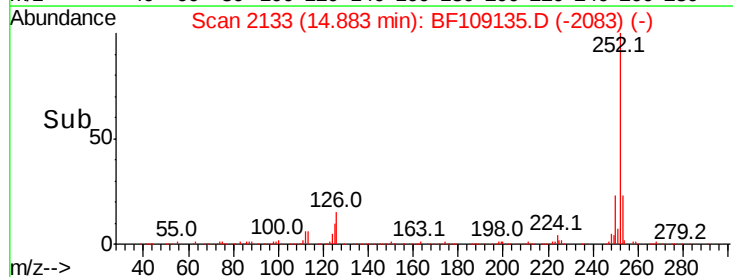
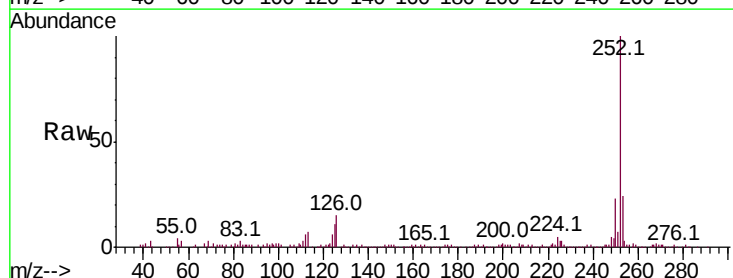
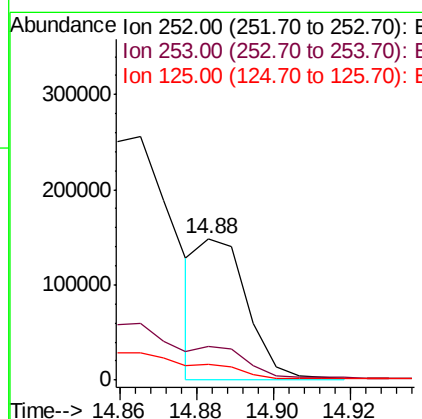
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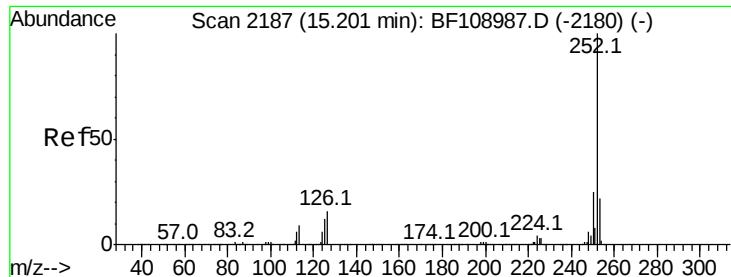
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#88
Benzo(k)fluoranthene
Concen: 7.368 ng m
RT: 14.88 min Scan# 2133
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	11.0	10.2	15.2





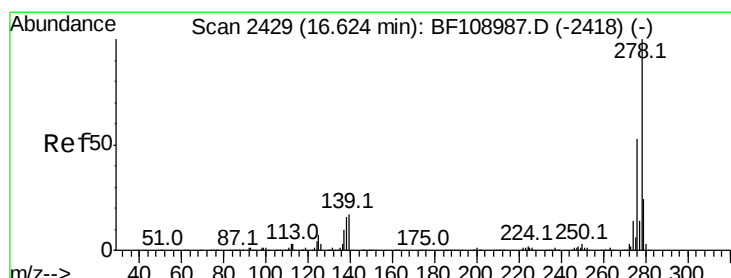
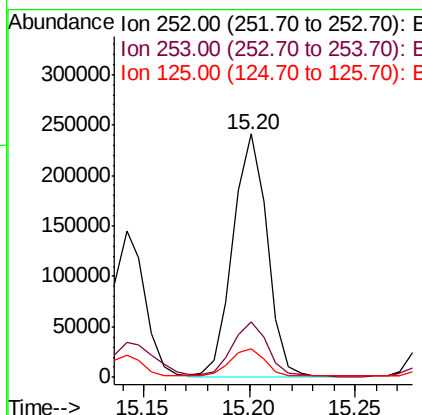
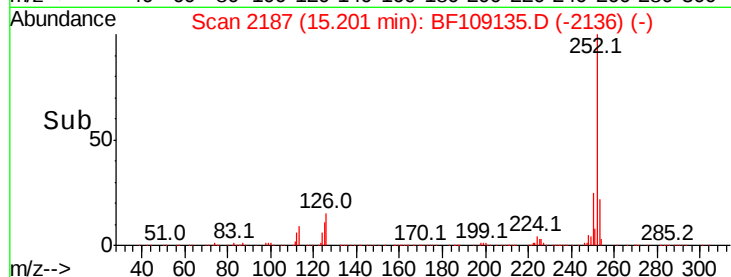
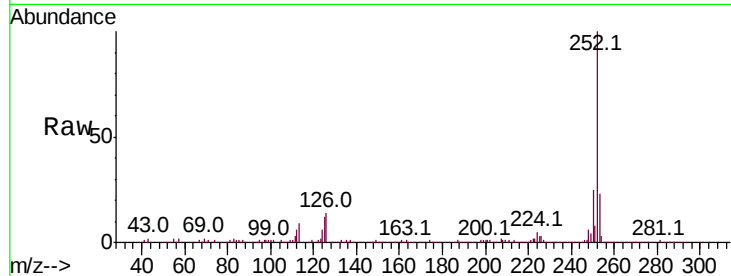
#89
Benzo(a)pyrene
Concen: 16.016 ng
RT: 15.20 min Scan# 2187
Delta R.T. 0.00 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Instrument :
BNA_F
ClientSampleId :
BACKFILL-SW2DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	11.6	9.8	14.6

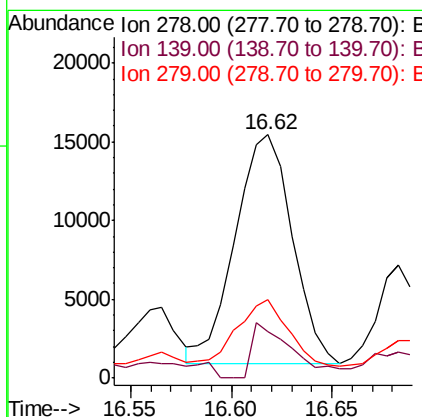
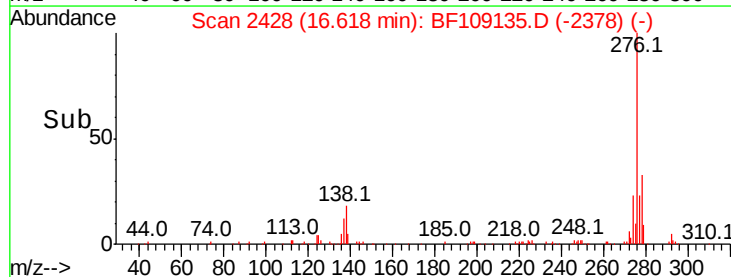
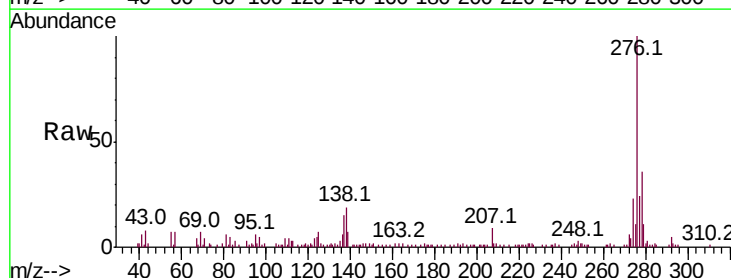
Manual Integrations
APPROVED

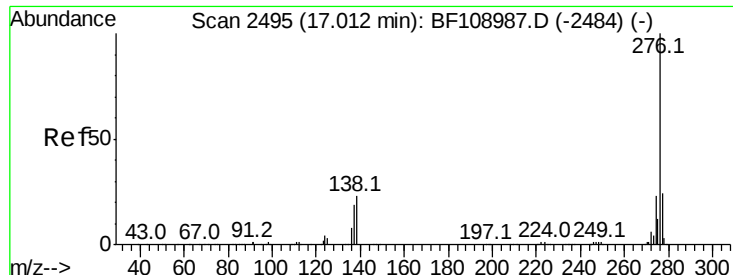
Sohil
9/19/2018 4:24:21 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.036 ng m
RT: 16.62 min Scan# 2428
Delta R.T. -0.01 min
Lab File: BF109135.D
Acq: 19 Sep 2018 9:37

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.1	15.9	23.9
279	32.1	19.0	28.4





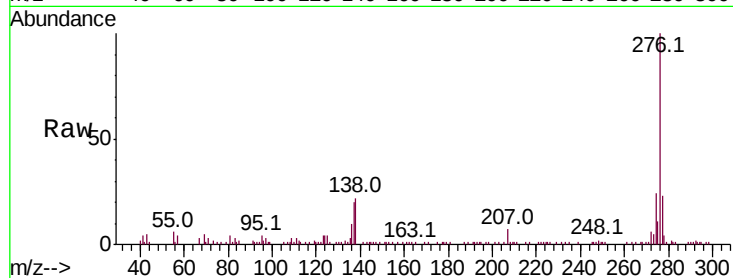
#91
 Benzo(a,h,i)perylene
 Concen: 7.488 ng
 RT: 17.01 min Scan# 2495
 Delta R.T. 0.00 min
 Lab File: BF109135.D
 Acq: 19 Sep 2018 9:37

Instrument :
 BNA_F
 ClientSampleId :
 BACKFILL-SW2DL

Tot Ion:	276	Resp:	105866
Ion Ratio		Lower	Upper
276	100		
277	22.9	17.9	26.9
138	22.3	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 9/19/2018 4:24:21 PM



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

