

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108344.D
 Acq On : 21 Aug 2018 18:26
 Operator : JU/SJ
 Sample : J4521-13DL 10X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-12003DL

Manual Integrations
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Sohil
 8/22/2018 4:02:51 PM

Quant Time: Aug 21 18:58:07 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 08 12:24:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	174564	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	680419	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	354539	20.00	ng	-0.02
63) Phenanthrene-d10	11.55	188	691286	20.00	ng	-0.01
75) Chrysene-d12	14.20	240	379741	20.00	ng	-0.02
86) Perylene-d12	15.75	264	356653	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	121080	12.56	ng	-0.01
7) Phenol-d6	6.61	99	169910	13.26	ng	-0.02
23) Nitrobenzene-d5	7.56	82	107651	8.83	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	42039	11.89	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	222393	10.07	ng	-0.02
78) Terphenyl-d14	13.12	244	206687	13.84	ng	-0.02
Target Compounds						
57) Fluorene	10.60	166	50472	2.200	ng	99
70) Phenanthrene	11.57	178	541232	16.599	ng	98
71) Anthracene	11.62	178	206110	6.168	ng	98
74) Fluoranthene	12.77	202	853358	23.981	ng	96
77) Pyrene	13.00	202	747690	31.100	ng	99
80) Benzo(a)anthracene	14.19	228	303500	13.926	ng	100
82) Chrysene	14.22	228	245574	12.291	ng	97
85) Indeno(1,2,3-cd)pyrene	17.35	276	139508	8.059	ng	# 89
87) Benzo(b)fluoranthene	15.28	252	280948m	13.183	ng	
88) Benzo(k)fluoranthene	15.31	252	111402m	5.687	ng	
89) Benzo(a)pyrene	15.68	252	225191m	11.800	ng	
90) Dibenzo(a,h)anthracene	17.37	278	38030m	2.408	ng	
91) Benzo(a,h,i)perylene	17.85	276	126178	8.115	ng	# 90

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

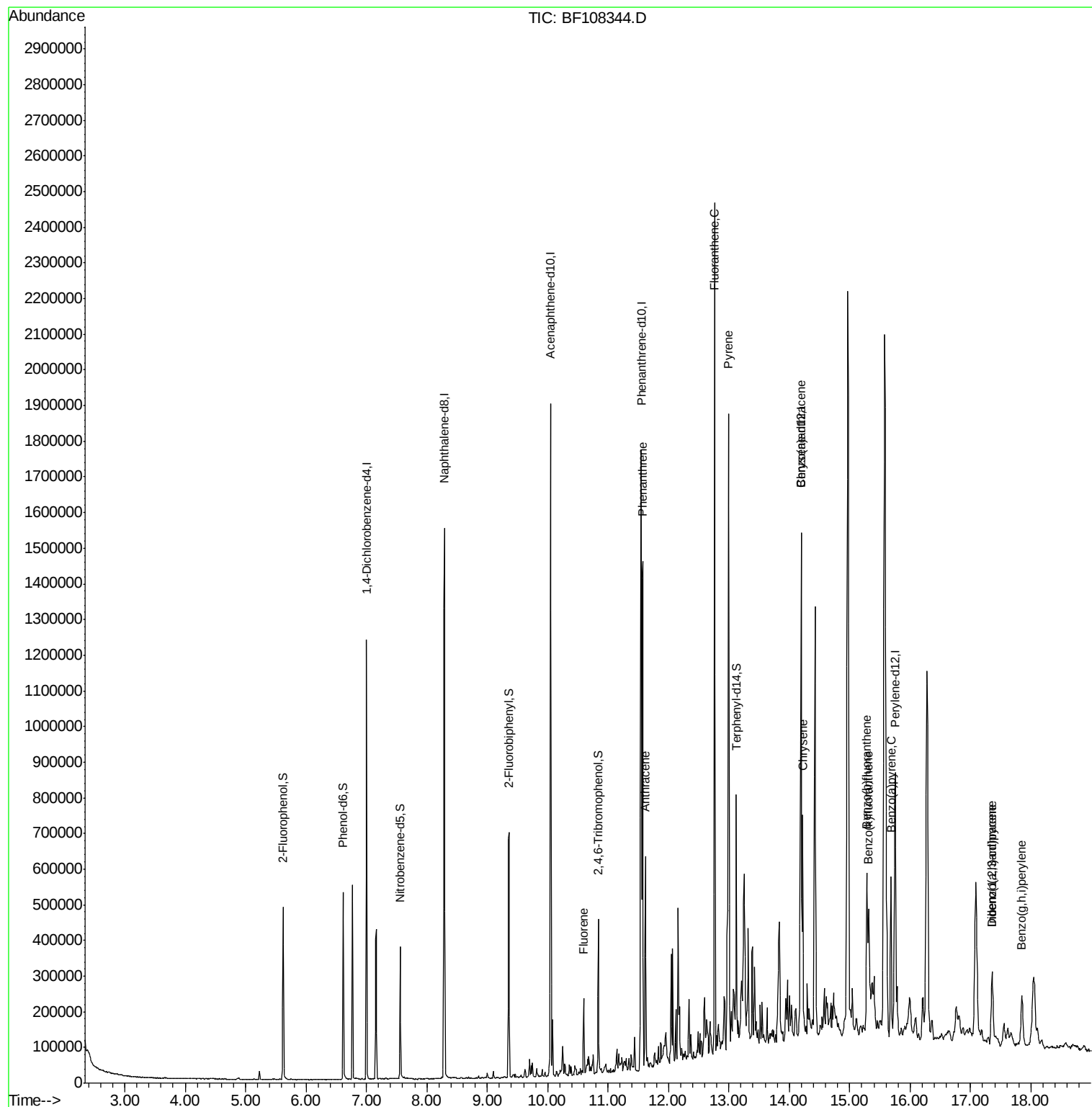
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
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#1

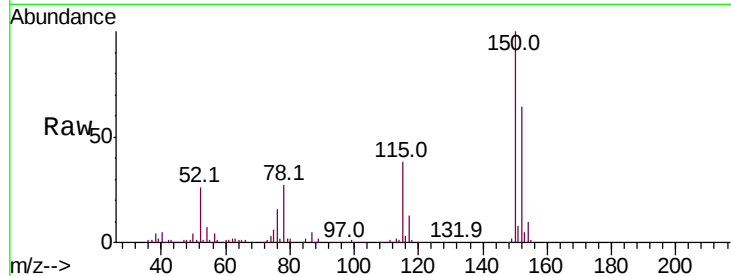
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Instrument :
BNA_F
ClientSampleId :
72-12003DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.3	124.6	186.8
115	59.7	50.1	75.1

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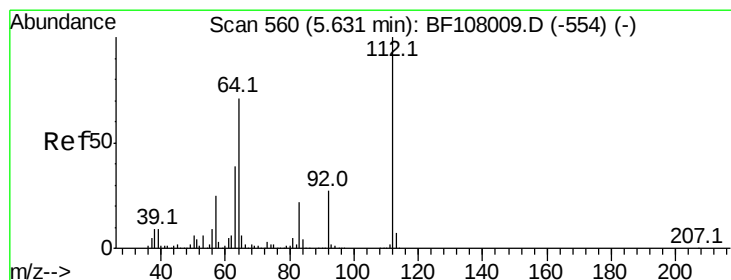
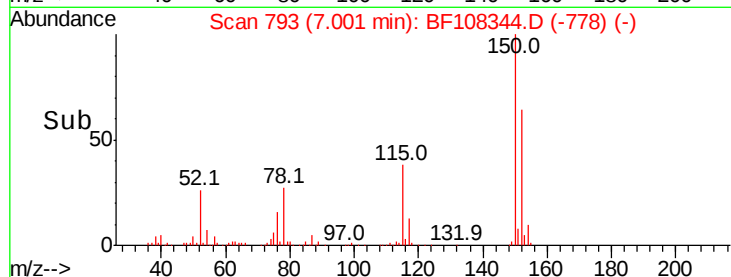
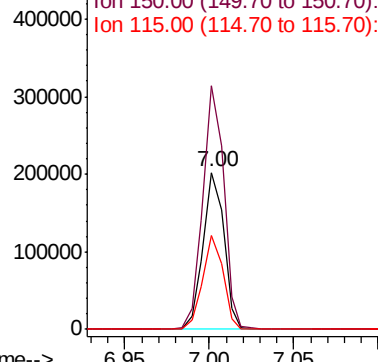


Abundance

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: 12.558 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

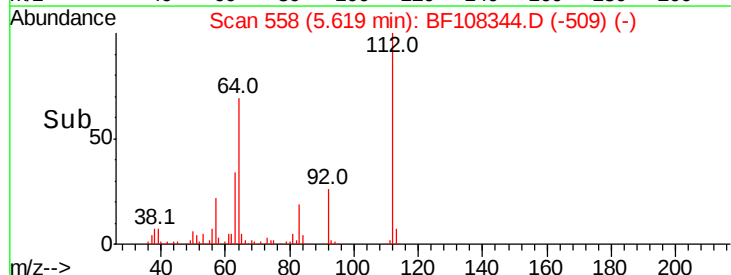
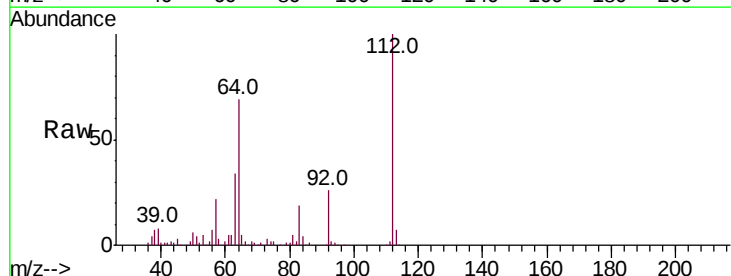
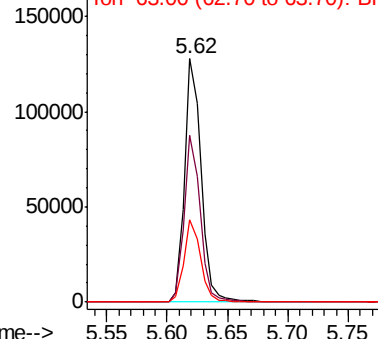
Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.5	47.9	71.9
63	34.0	23.7	35.5

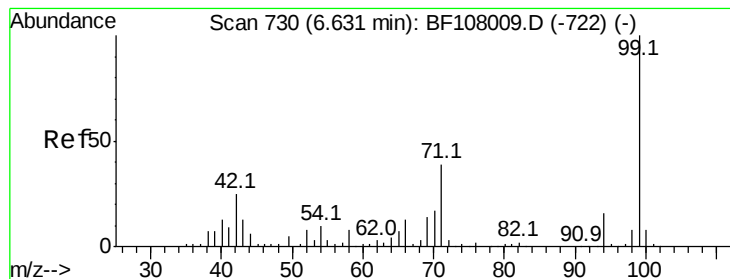
Abundance

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: 13.261 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

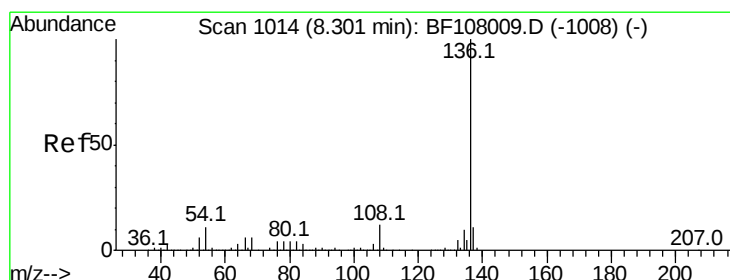
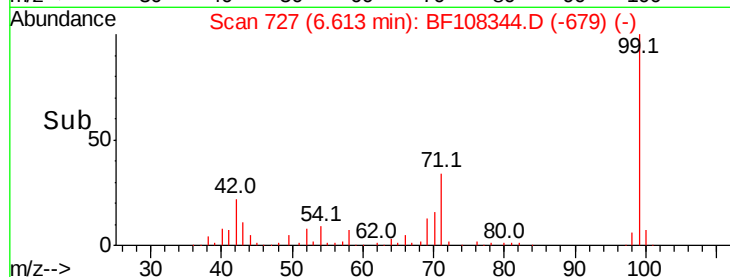
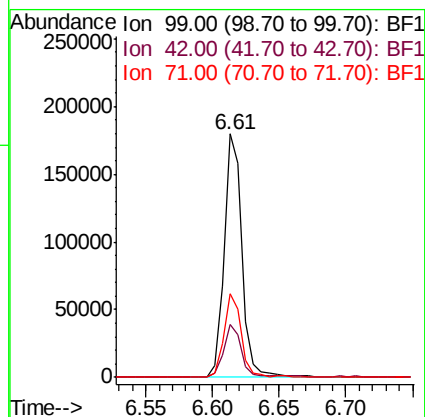
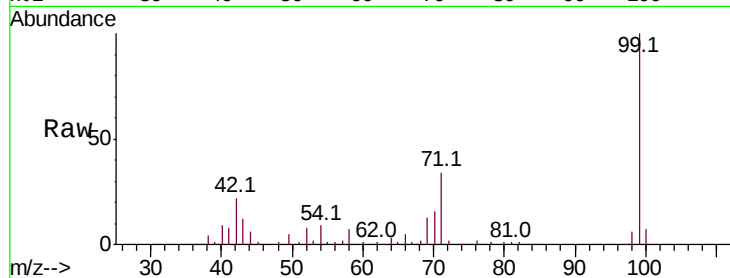
ClientSampleId :

72-12003DL

Tot Ion	Ratio	Resp	Lower	Upper
99	100	169910		
42	21.8	14.5	21.7#	
71	34.5	25.4	38.0	

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#21

Naphthalene-d8

Concen: 20.000 ng

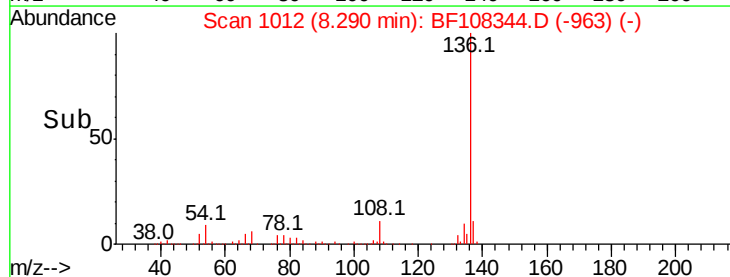
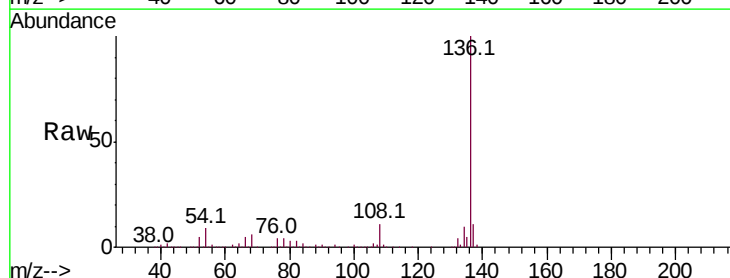
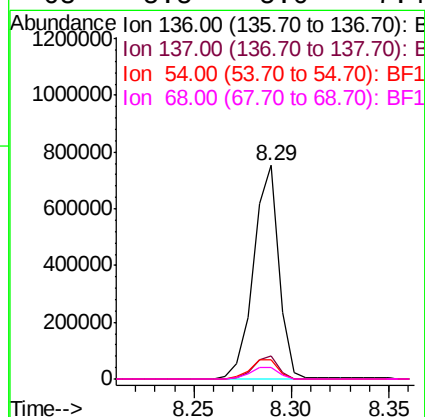
RT: 8.29 min Scan# 1012

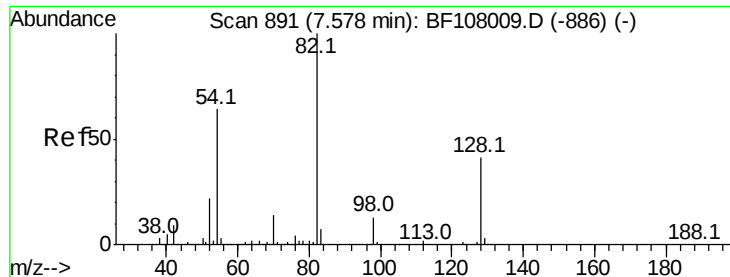
Delta R.T. -0.01 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	680419		
137	10.9	8.9	13.3	
54	9.2	6.6	9.8	
68	5.5	5.0	7.4	





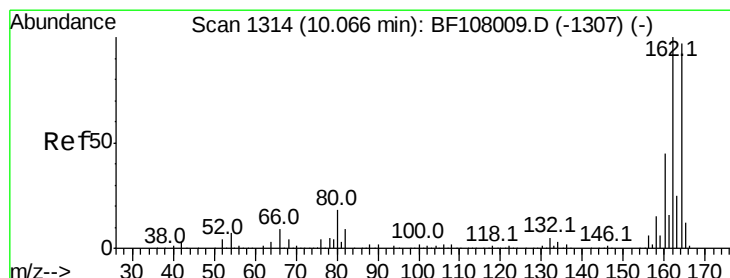
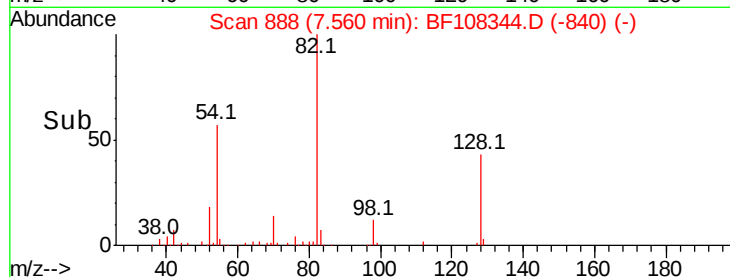
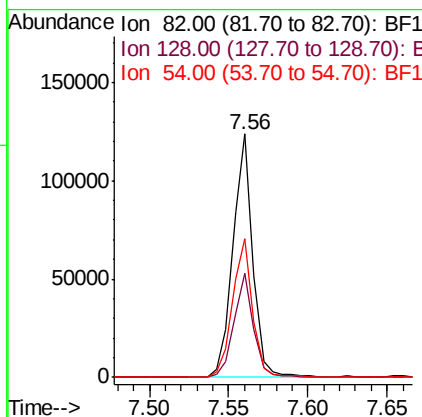
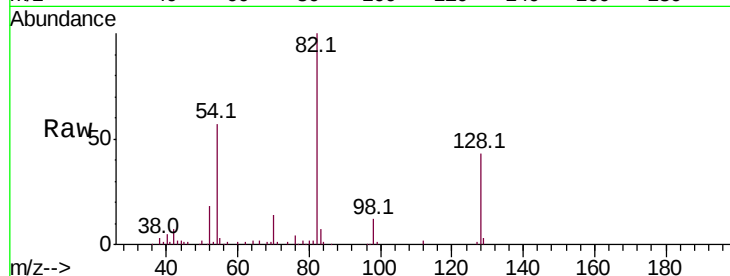
#23
 Nitrobenzene-d5
 Concen: 8.829 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108344.D
 Acq: 21 Aug 2018 18:26

Instrument :
 BNA_F
 ClientSampleId :
 72-12003DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	107651		
128	42.6	36.1	54.1	
54	56.8	41.4	62.2	

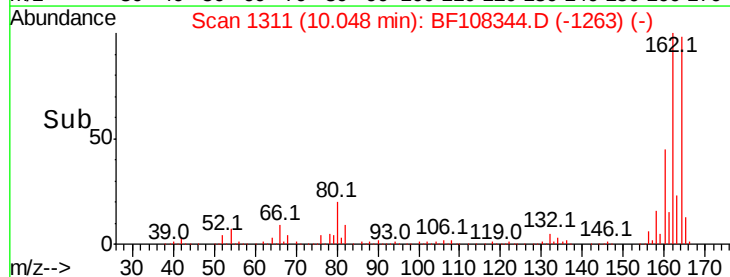
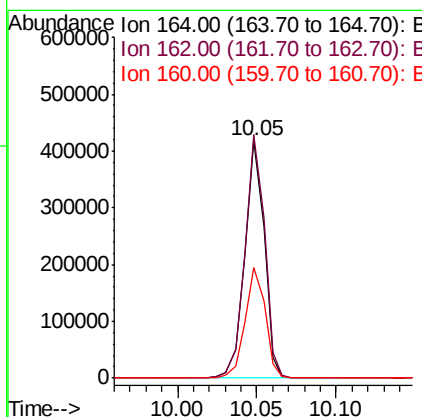
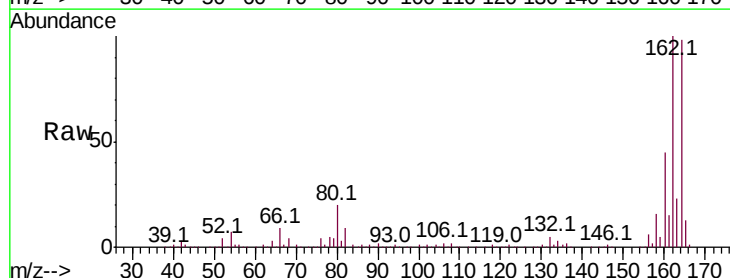
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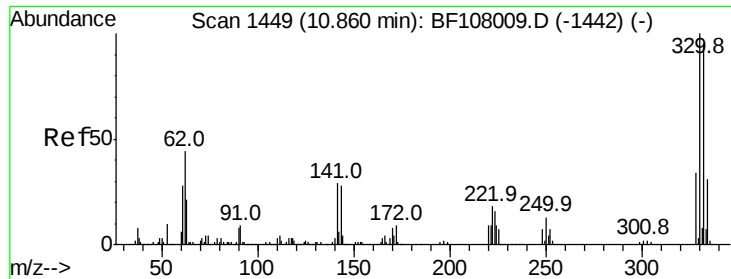
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.02 min
 Lab File: BF108344.D
 Acq: 21 Aug 2018 18:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	354539		
162	102.5	86.1	129.1	
160	46.5	38.3	57.5	





#41

2,4,6-Tribromophenol

Concen: 11.887 ng

RT: 10.84 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

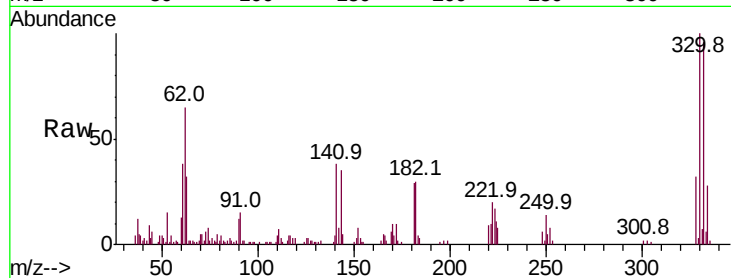
ClientSampleId :

72-12003DL

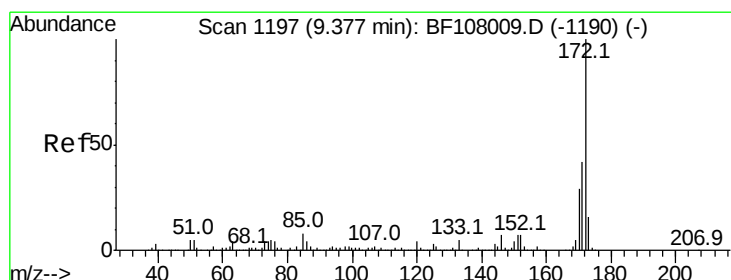
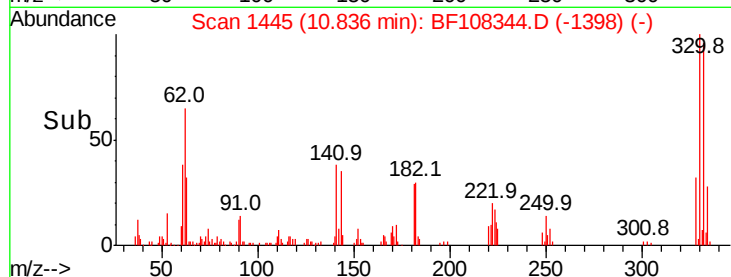
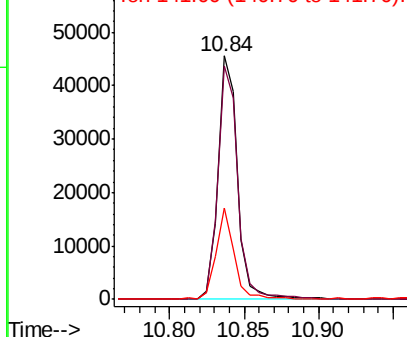
Tot Ion:	330	Resp:	42039
Ion Ratio	Lower	Upper	
330	100		
332	97.6	77.0	115.6
141	34.7	29.9	44.9

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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: 10.071 ng

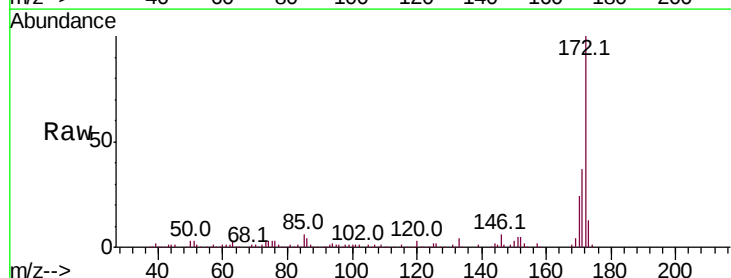
RT: 9.36 min Scan# 1194

Delta R.T. -0.02 min

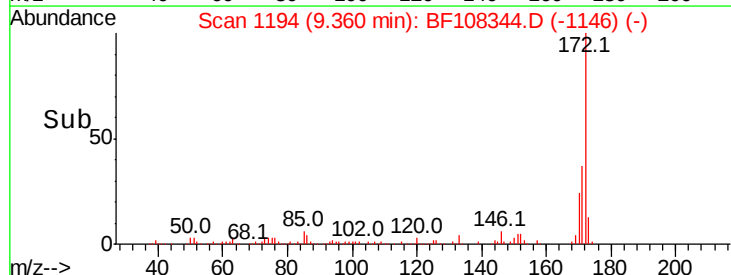
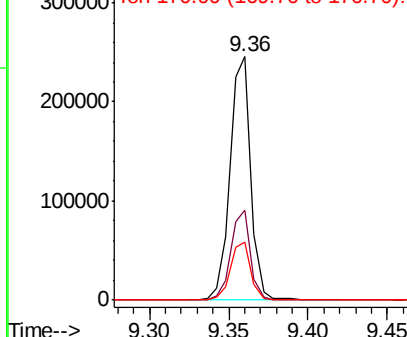
Lab File: BF108344.D

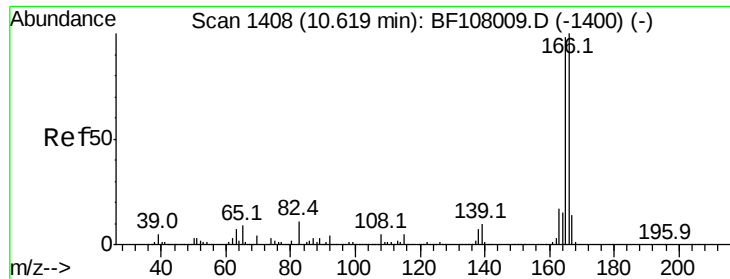
Acq: 21 Aug 2018 18:26

Tgt Ion:	172	Resp:	222393
Ion Ratio	Lower	Upper	
172	100		
171	36.9	29.7	44.5
170	23.7	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





#57

Fluorene

Concen: 2.200 ng

RT: 10.60 min Scan# 1404

Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

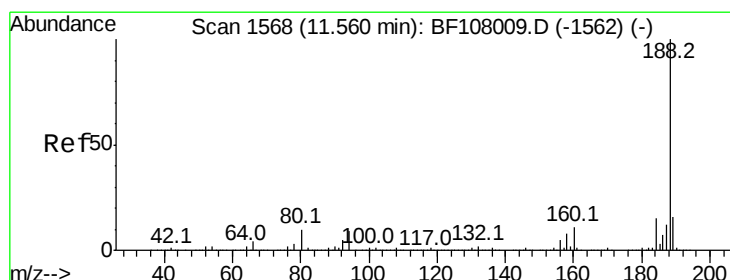
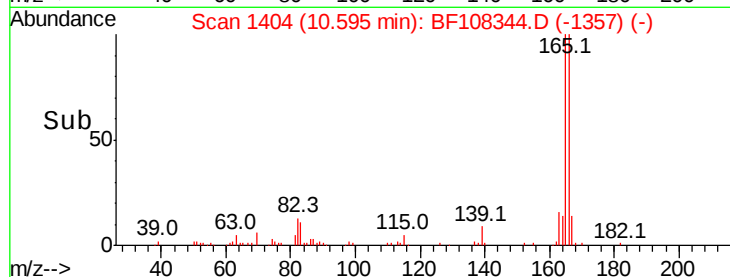
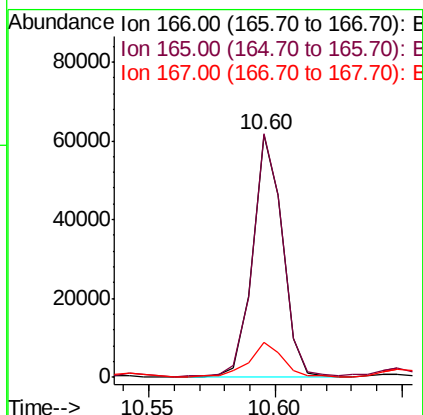
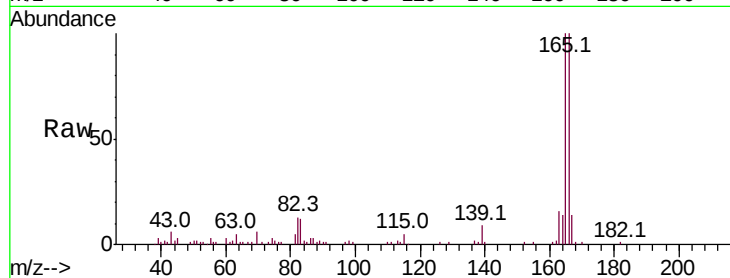
ClientSampleId :

72-12003DL

Tot Ion:	166	Resp:	50472
Ion Ratio	Lower	Upper	
166	100		
165	100.2	79.8	119.8
167	14.4	10.6	16.0

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.000 ng

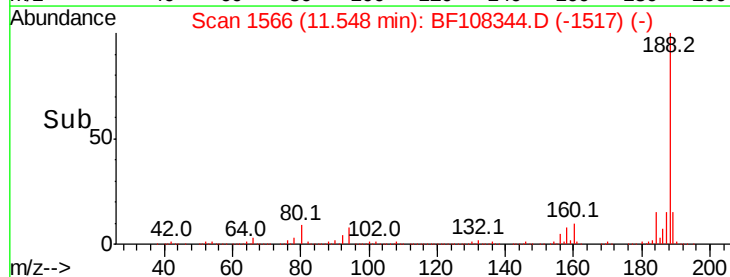
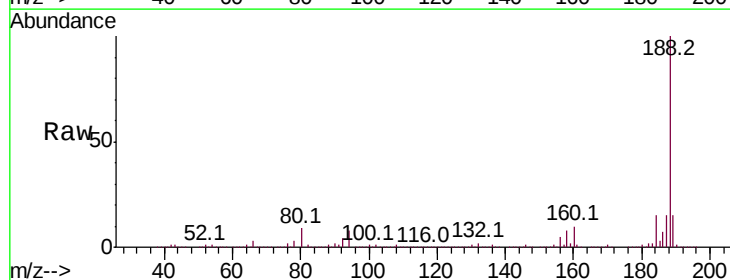
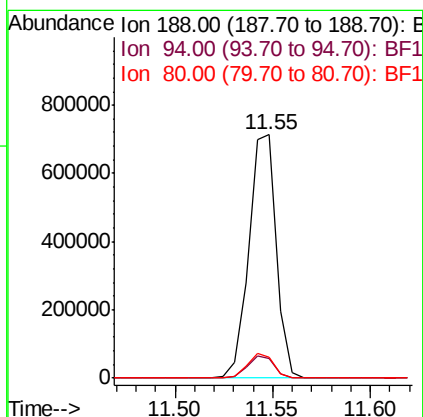
RT: 11.55 min Scan# 1566

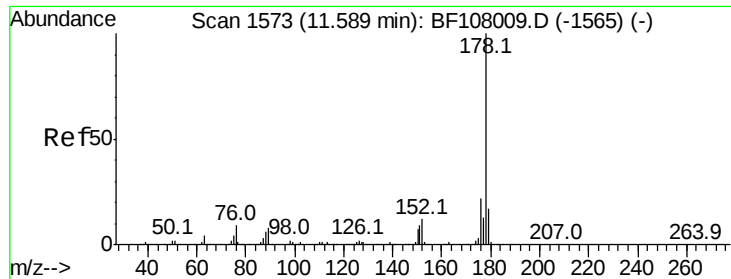
Delta R.T. -0.01 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Tgt Ion:	188	Resp:	691286
Ion Ratio	Lower	Upper	
188	100		
94	7.8	8.5	12.7#
80	8.8	9.2	13.8#





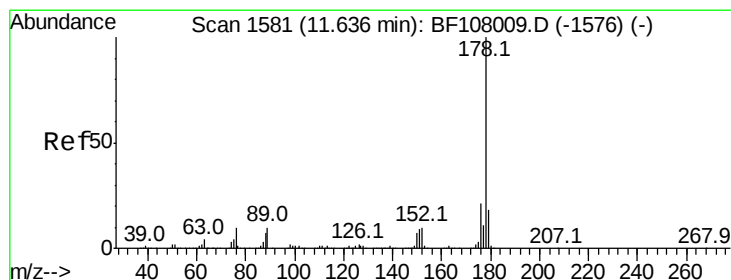
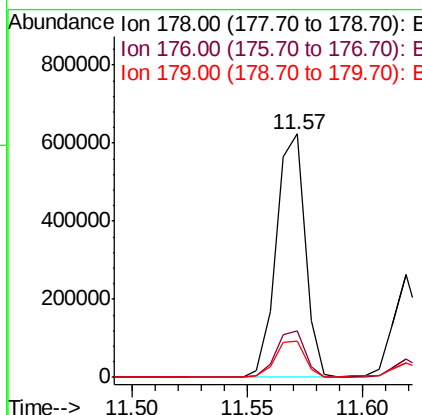
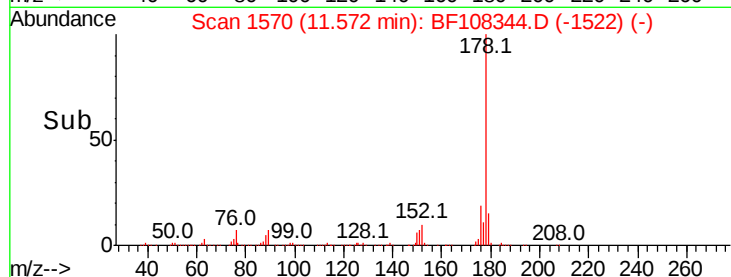
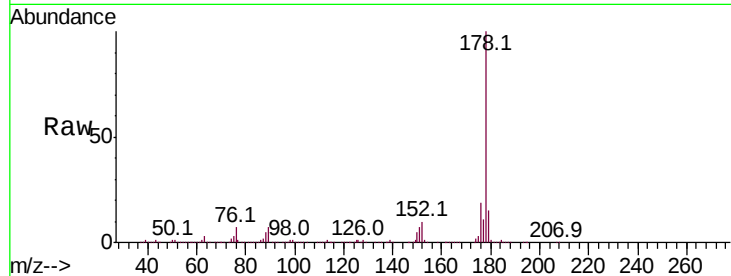
#70
Phenanthrene
Concen: 16.599 ng
RT: 11.57 min Scan# 1570
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Instrument :
BNA_F
ClientSampleId :
72-12003DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.0	13.0	19.6

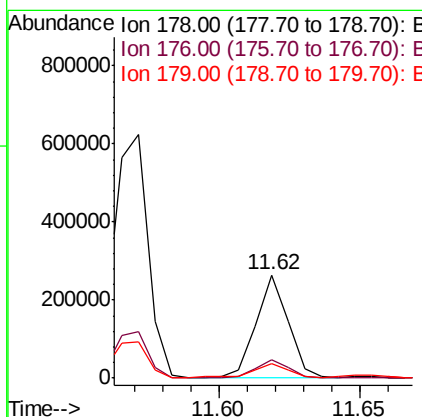
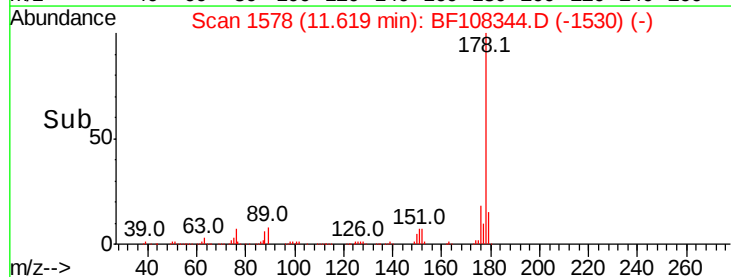
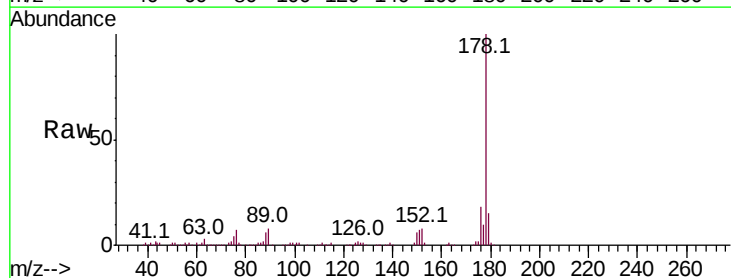
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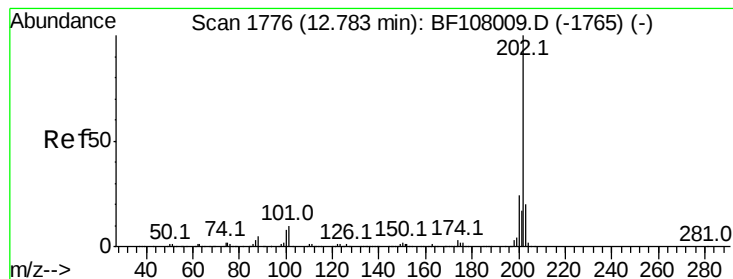
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#71
Anthracene
Concen: 6.168 ng
RT: 11.62 min Scan# 1578
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	14.6	12.6	19.0





#74

Fluoranthene

Concen: 23.981 ng

RT: 12.77 min Scan# 1773

Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

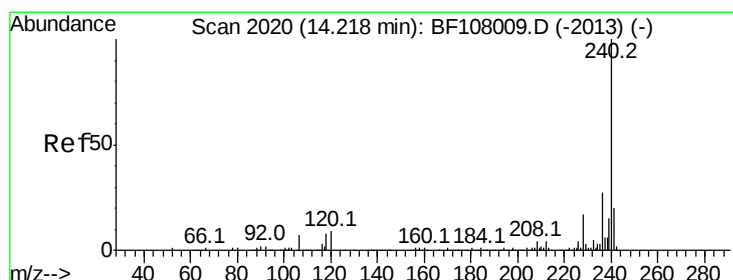
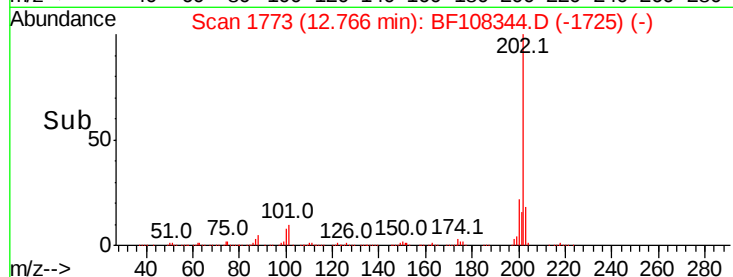
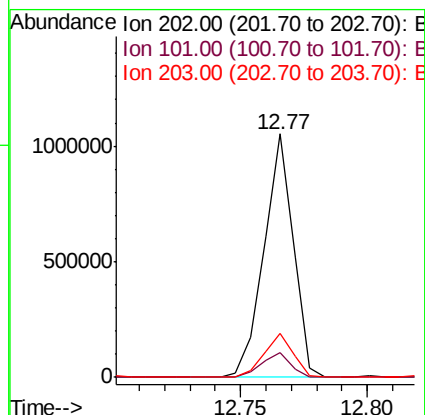
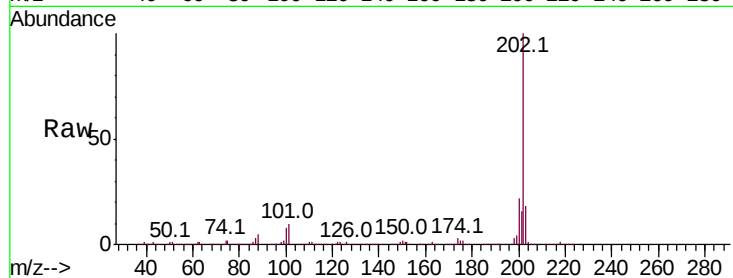
ClientSampleId :

72-12003DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	10.4	0.0	34.1		
203	18.2	0.0	38.1		

Manual Integrations
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#75

Chrysene-d12

Concen: 20.000 ng

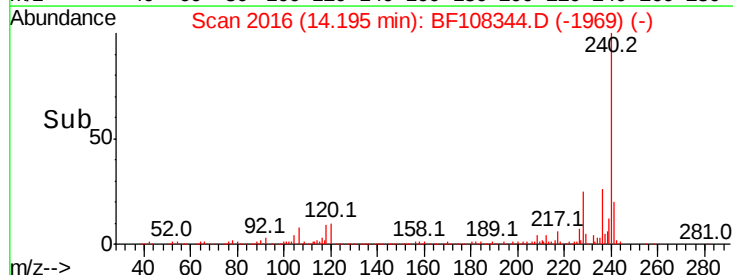
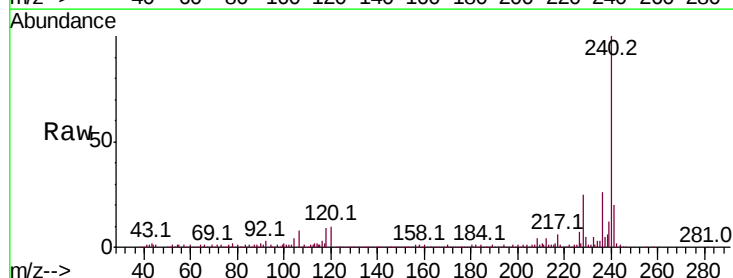
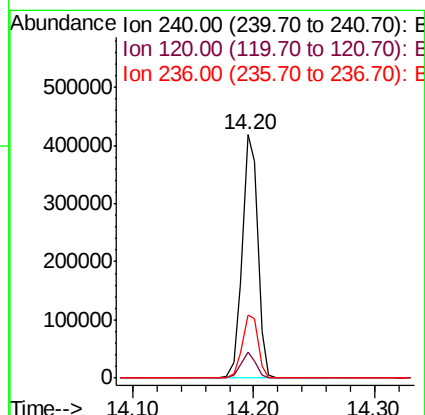
RT: 14.20 min Scan# 2016

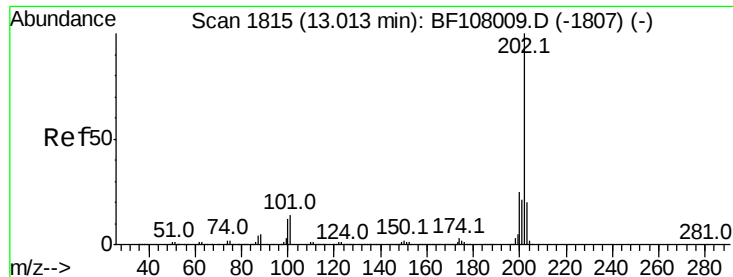
Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	10.5	9.5	14.3		
236	25.8	20.7	31.1		





#77

Pvrene

Concen: 31.100 ng

RT: 13.00 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

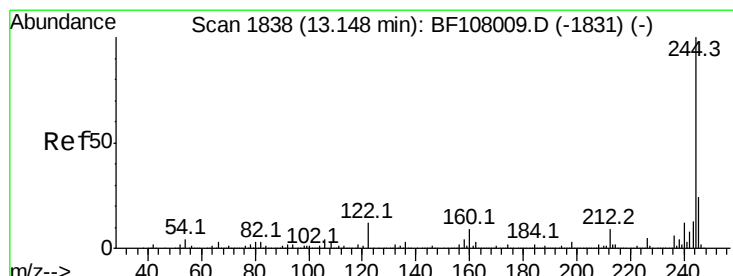
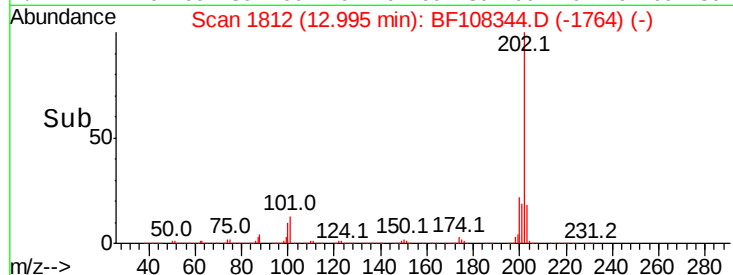
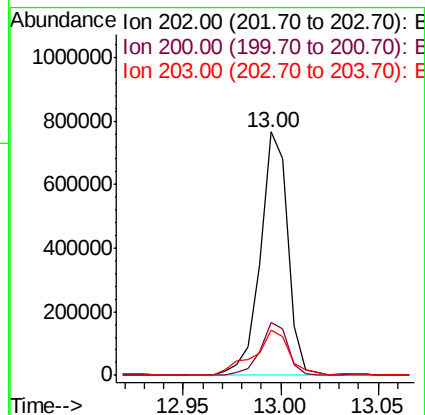
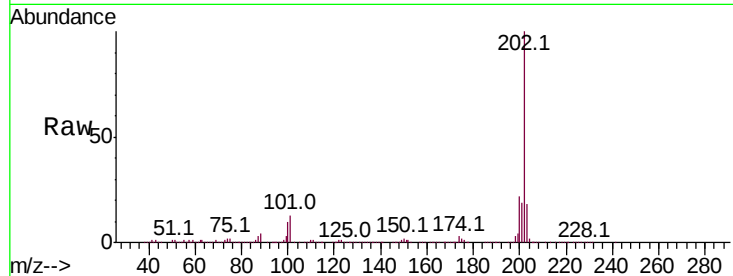
ClientSampled :

72-12003DL

Tot Ion:	202	Resp:	747690
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.4	26.2
203	18.4	14.3	21.5

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#78

Terphenyl-d14

Concen: 13.839 ng

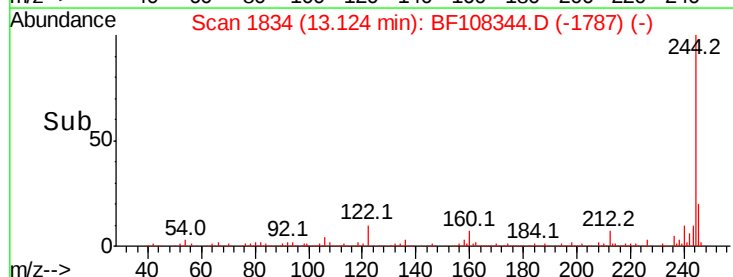
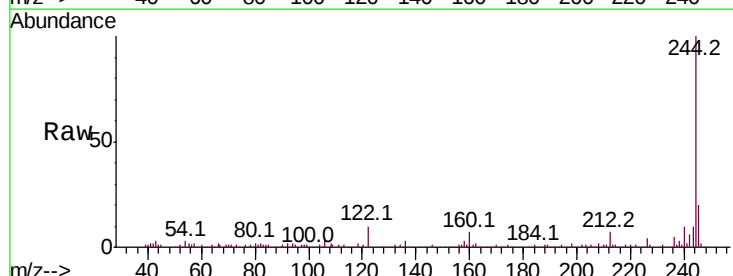
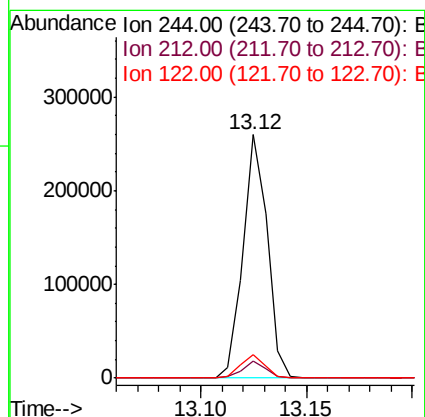
RT: 13.12 min Scan# 1834

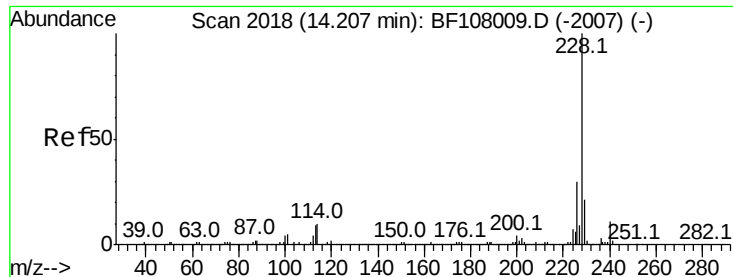
Delta R.T. -0.02 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Tgt Ion:	244	Resp:	206687
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	9.7	11.0	16.4#





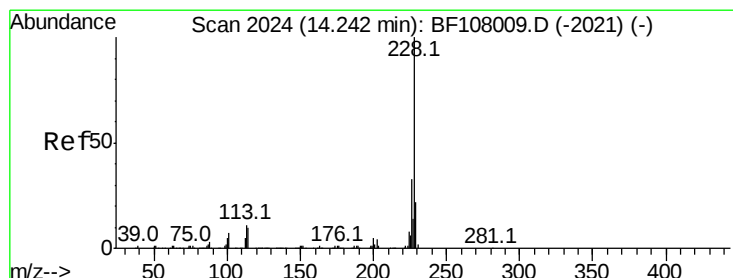
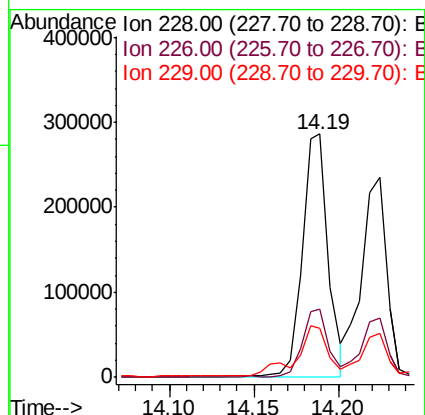
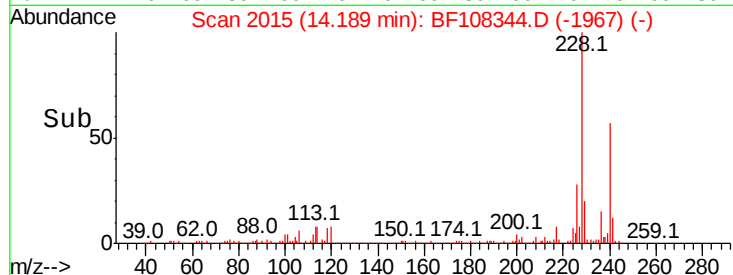
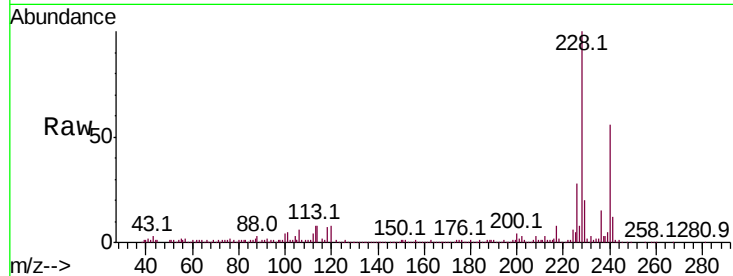
#80
Benzo(a)anthracene
Concen: 13.926 ng
RT: 14.19 min Scan# 2015
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Instrument :
BNA_F
ClientSampleId :
72-12003DL

Tot Ion:	228	Resp:	303500
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.6	33.8
229	20.1	15.8	23.6

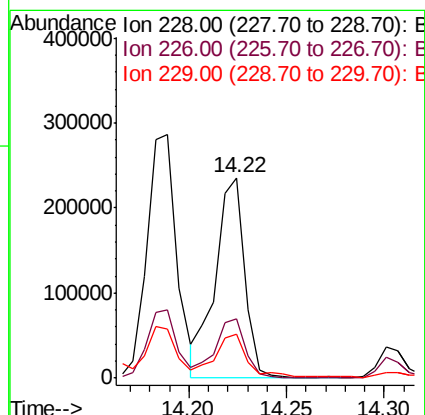
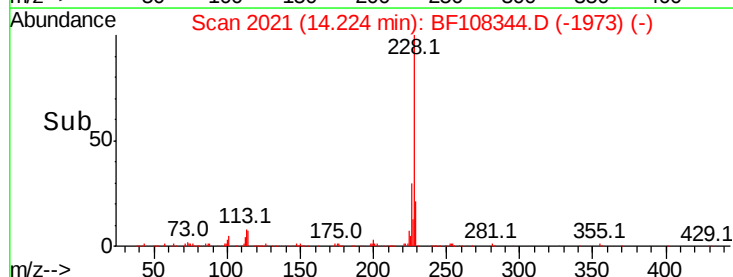
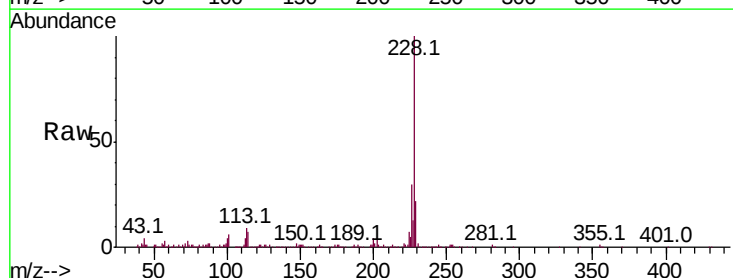
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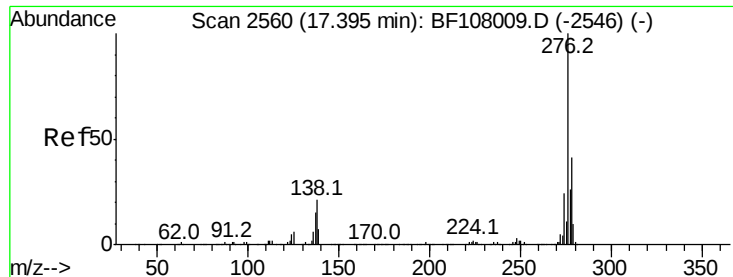
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#82
Chrysene
Concen: 12.291 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Tgt Ion:	228	Resp:	245574
Ion Ratio	Lower	Upper	
228	100		
226	29.7	25.0	37.6
229	21.7	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.059 ng

RT: 17.35 min Scan# 2553

Delta R.T. -0.04 min

Lab File: BF108344.D

Acq: 21 Aug 2018 18:26

Instrument :

BNA_F

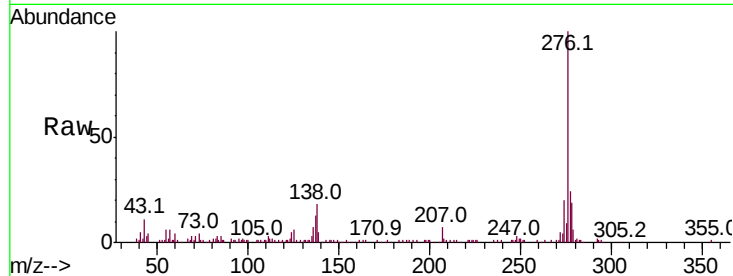
ClientSampleId :

72-12003DL

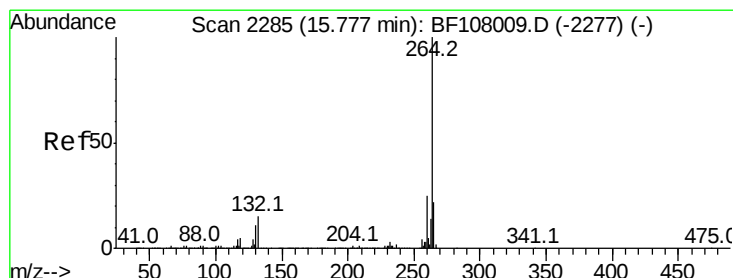
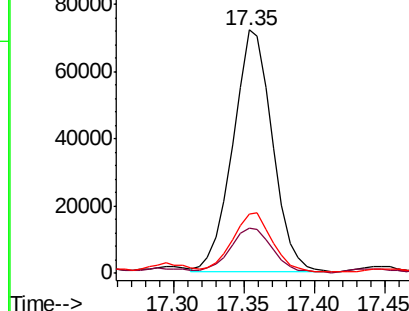
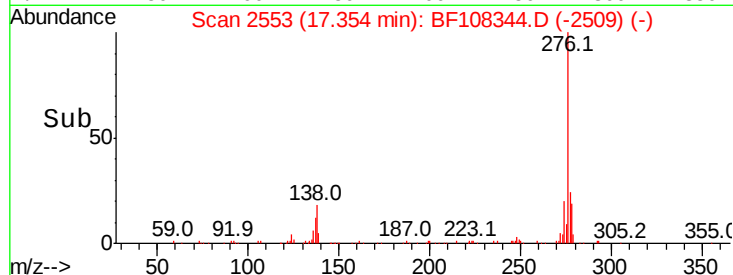
Tot Ion:	276	Resp:	139508
Ion Ratio	Lower	Upper	
276	100		
138	20.7	25.0	37.6#
277	24.5	20.1	30.1

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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

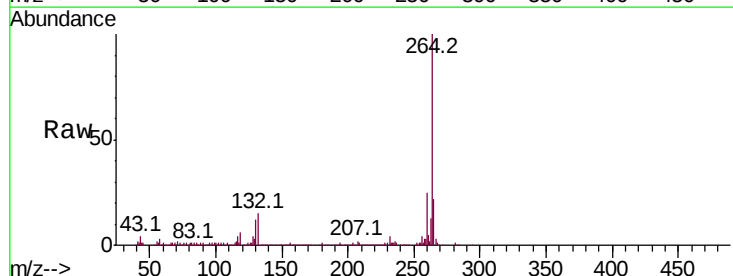
RT: 15.75 min Scan# 2281

Delta R.T. -0.02 min

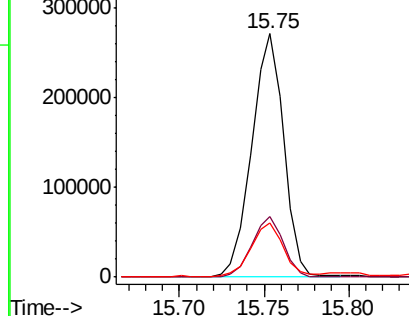
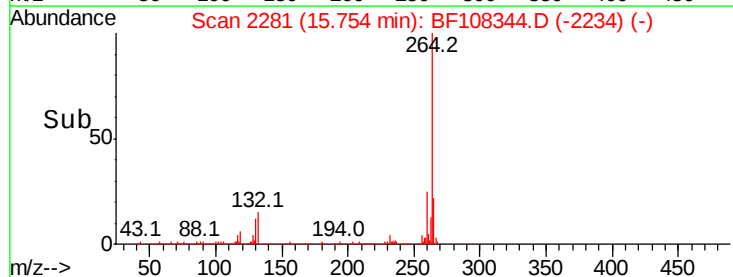
Lab File: BF108344.D

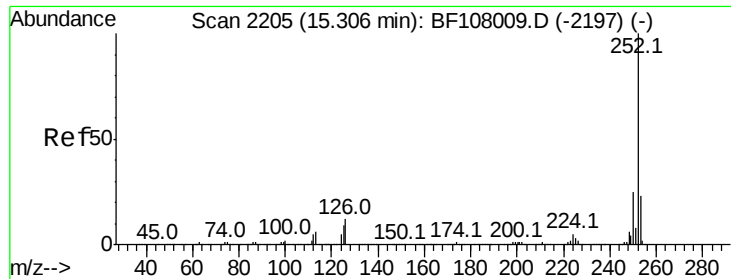
Acq: 21 Aug 2018 18:26

Tgt Ion:	264	Resp:	356653
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.2	28.8
265	22.3	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





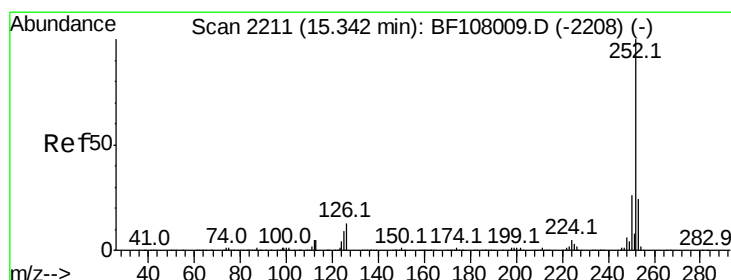
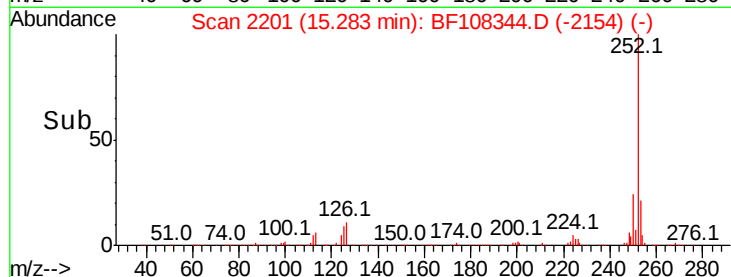
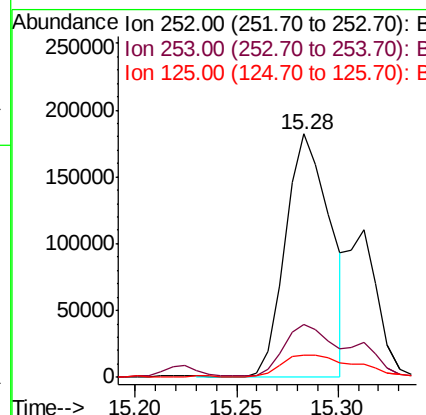
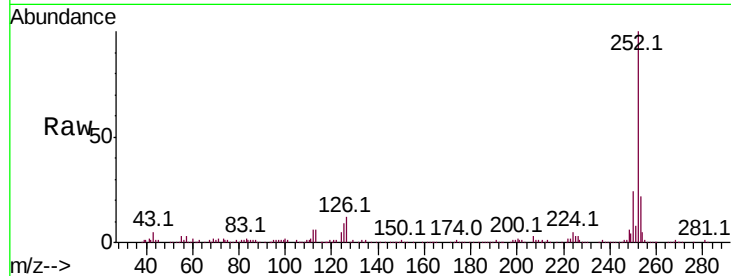
#87
Benzo(b)fluoranthene
Concen: 13.183 ng m
RT: 15.28 min Scan# 2201
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Instrument :
BNA_F
ClientSampleId :
72-12003DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.6
125	9.1	9.0	13.6

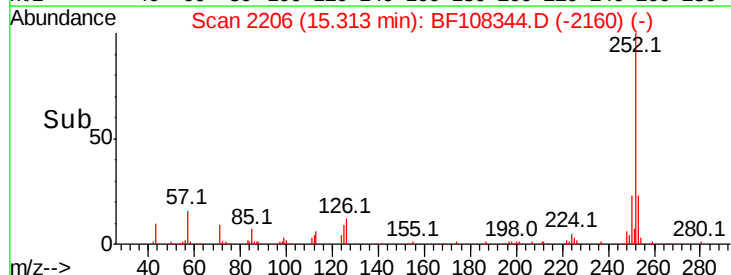
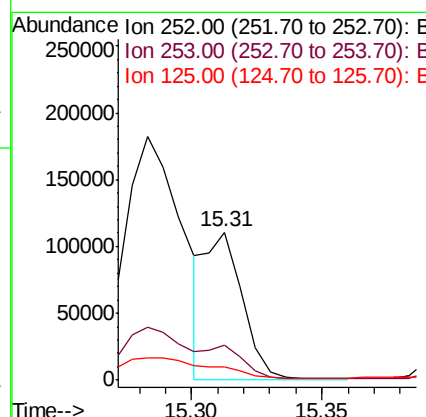
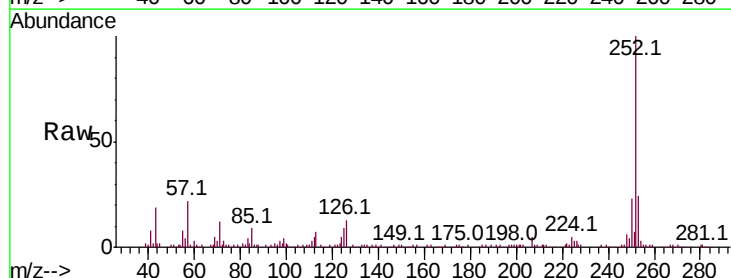
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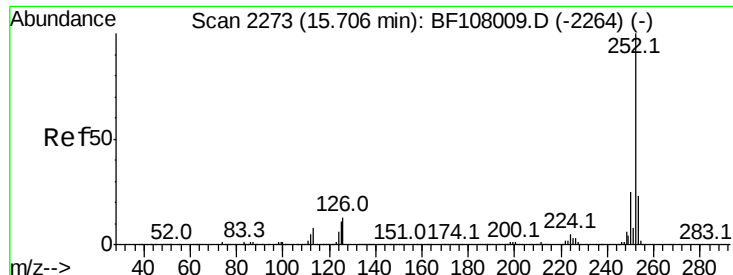
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#88
Benzo(k)fluoranthene
Concen: 5.687 ng m
RT: 15.31 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	9.3	10.2	15.2#





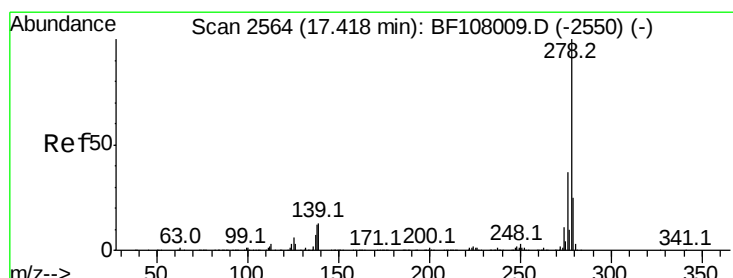
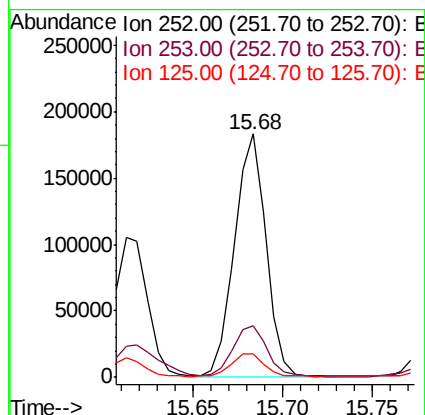
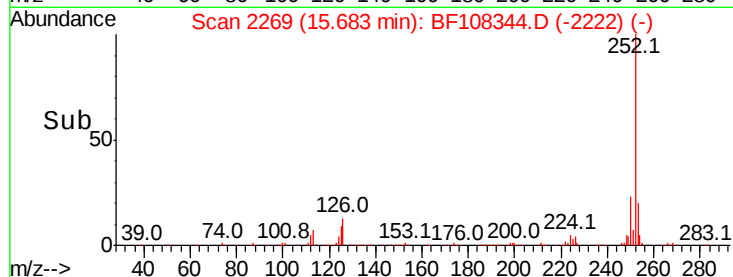
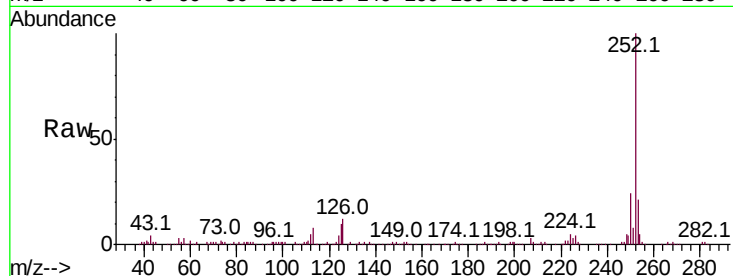
#89
Benzo(a)pyrene
Concen: 11.800 ng m
RT: 15.68 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Instrument :
BNA_F
ClientSampleID :
72-12003DL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	21.1	17.1	25.7
125	9.5	9.8	14.6

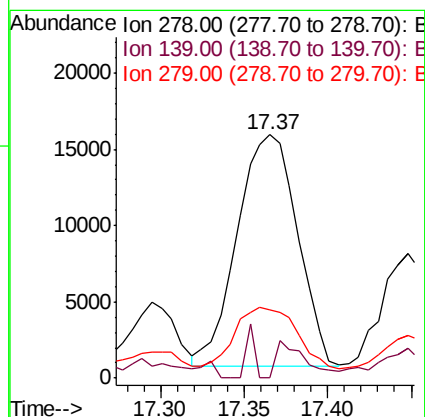
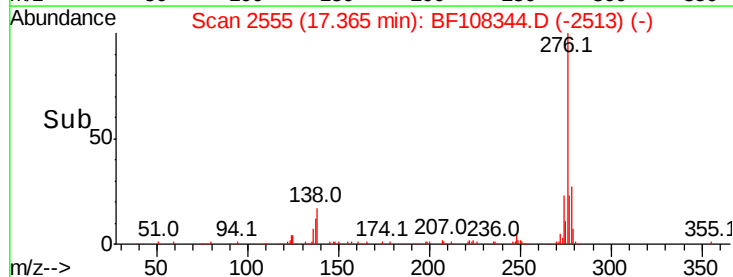
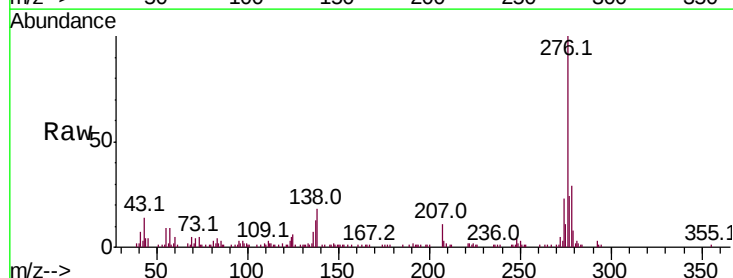
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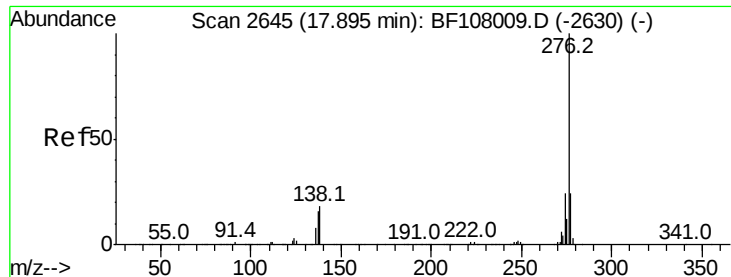
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#90
Dibenzo(a,h)anthracene
Concen: 2.408 ng m
RT: 17.37 min Scan# 2555
Delta R.T. -0.05 min
Lab File: BF108344.D
Acq: 21 Aug 2018 18:26

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	0.0	15.9	23.9
279	28.2	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 8.115 ng
 RT: 17.85 min Scan# 2637
 Delta R.T. -0.05 min
 Lab File: BF108344.D
 Acq: 21 Aug 2018 18:26

Instrument :
 BNA_F
 ClientSampleId :
 72-12003DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	18.1	21.8	32.8#

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