

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108352.D
 Acq On : 21 Aug 2018 22:03
 Operator : JU/SJ
 Sample : J4521-07DL 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 72-11969DL

Manual Integrations
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Sohil
 8/22/2018 4:03:10 PM

Quant Time: Aug 22 00:37:54 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 21 15:20:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	187361	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	719037	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	331977	20.00	ng	-0.02
63) Phenanthrene-d10	11.55	188	534706	20.00	ng	-0.01
75) Chrysene-d12	14.20	240	389715	20.00	ng	-0.02
86) Perylene-d12	15.75	264	366109	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	43535	4.21	ng	-0.01
7) Phenol-d6	6.61	99	58807	4.28	ng	-0.02
23) Nitrobenzene-d5	7.56	82	36089	2.80	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	10343	3.12	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	72113	3.49	ng	-0.02
78) Terphenyl-d14	13.12	244	52636	3.43	ng	-0.02
Target Compounds						
37) 2-Methylnaphthalene	9.00	142	70970	3.068	ng	99
51) Acenaphthene	10.08	154	156009	8.328	ng	99
54) Dibenzofuran	10.25	168	164924	6.077	ng	98
57) Fluorene	10.60	166	245182	11.412	ng	99
70) Phenanthrene	11.58	178	1560070	61.858	ng	99
71) Anthracene	11.62	178	471491	18.240	ng	99
72) Carbazole	11.77	167	55146	2.401	ng	99
74) Fluoranthene	12.77	202	1391397	50.551	ng	95
77) Pyrene	13.00	202	1196632	48.500	ng	98
80) Benzo(a)anthracene	14.19	228	634141	28.353	ng	98
82) Chrysene	14.22	228	470496	22.946	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	173919	9.789	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	558600m	25.534	ng	
88) Benzo(k)fluoranthene	15.31	252	200018m	9.946	ng	
89) Benzo(a)pyrene	15.69	252	405016	20.675	ng	95
90) Dibenzo(a,h)anthracene	17.37	278	49765m	3.070	ng	
91) Benzo(a,h,i)perylene	17.85	276	145797	9.135	ng	# 93

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

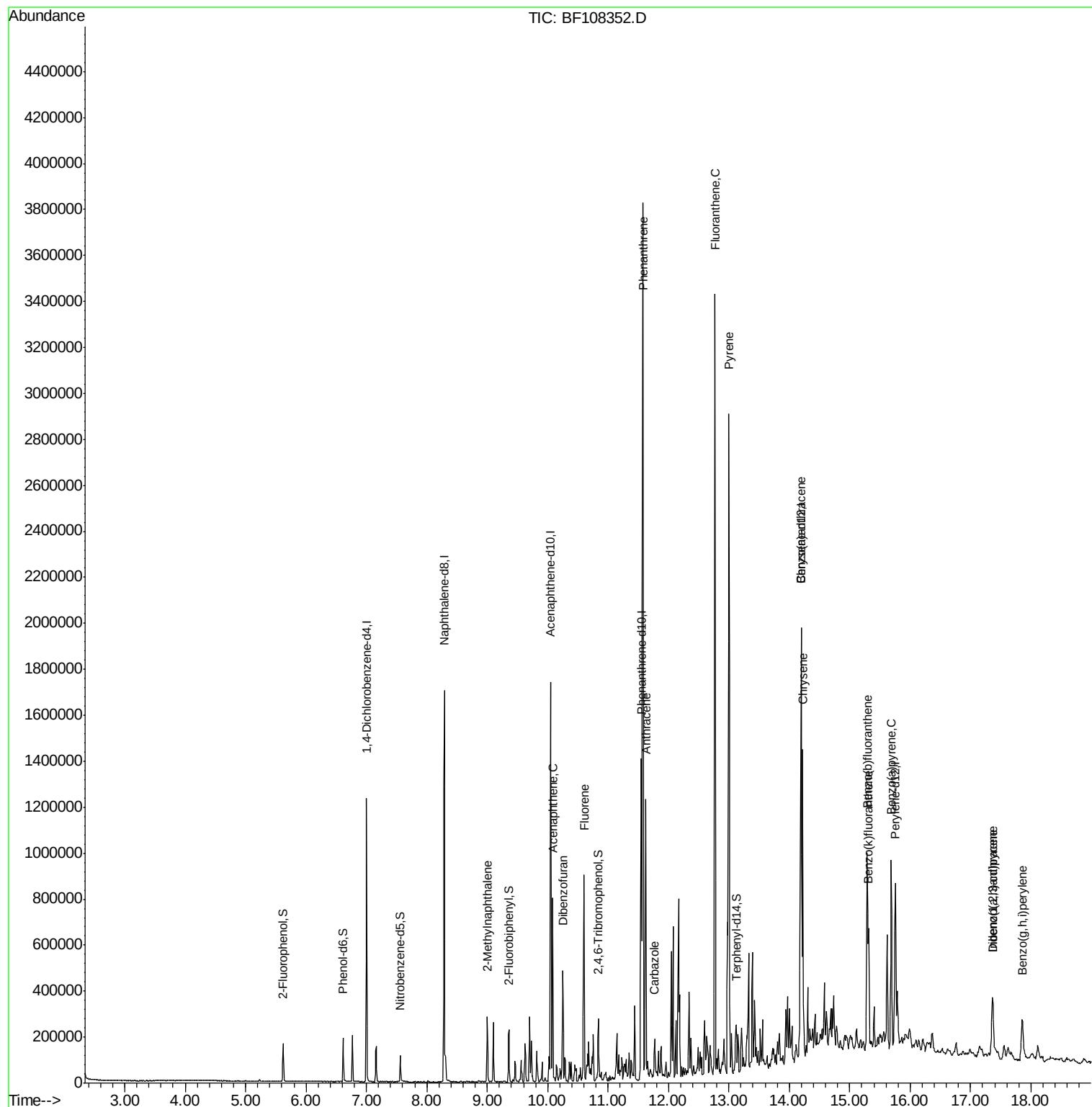
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
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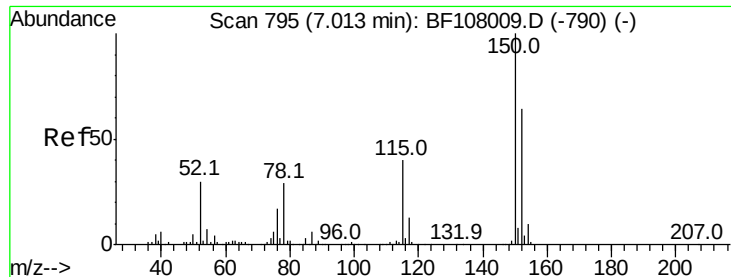
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#1

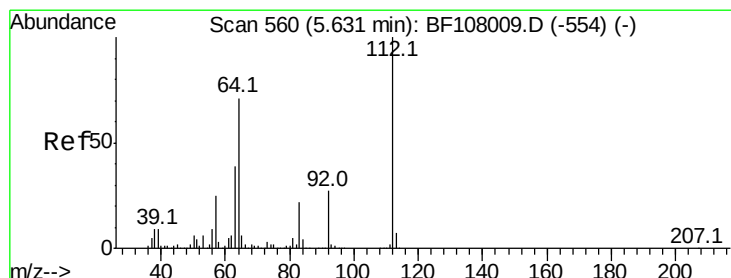
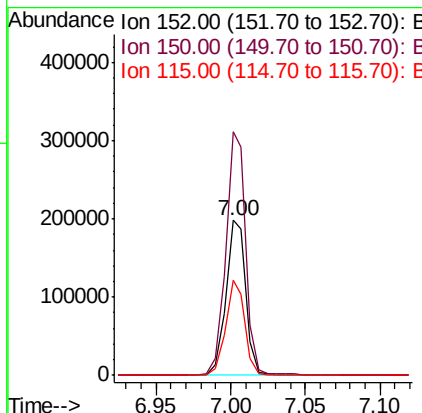
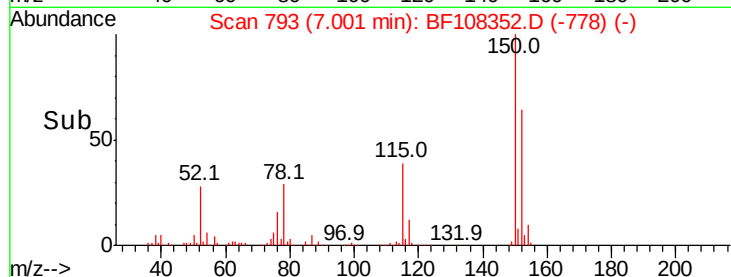
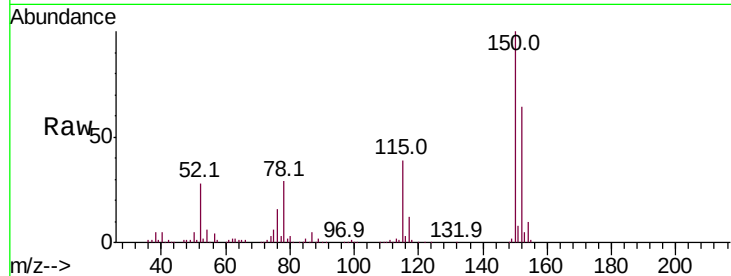
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.6	186.8
115	61.9	50.1	75.1

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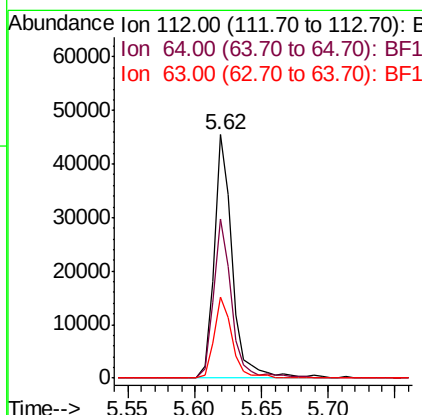
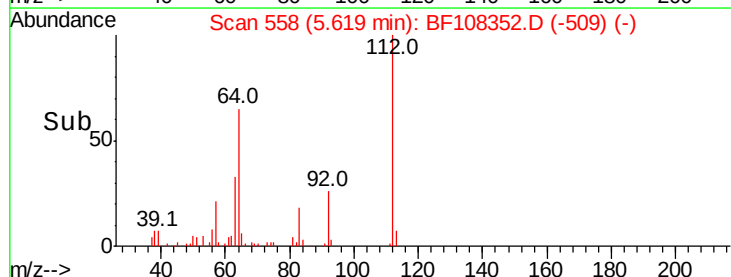
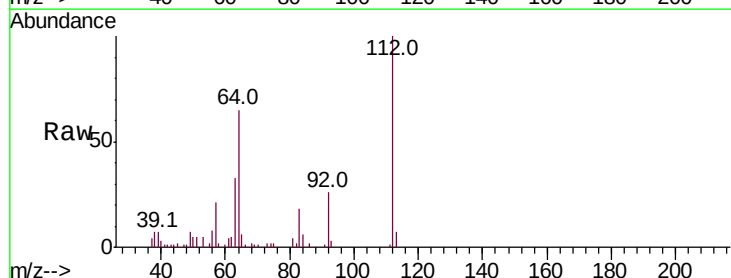
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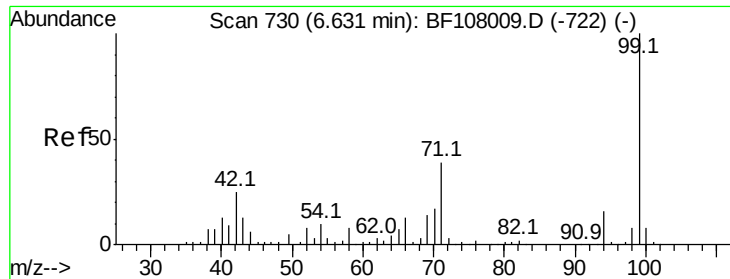


#5

2-Fluorophenol
Concen: 4.207 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.5	47.9	71.9
63	33.5	23.7	35.5





#7

Phenol-d6

Concen: 4.276 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

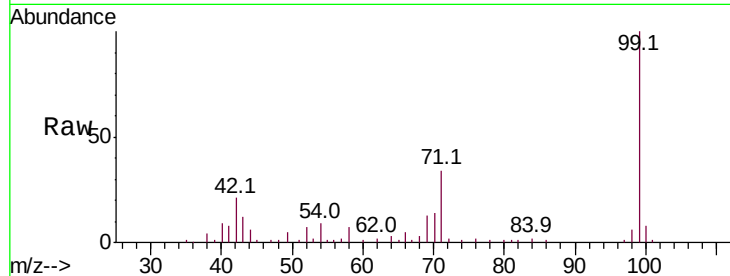
ClientSampled :

72-11969DL

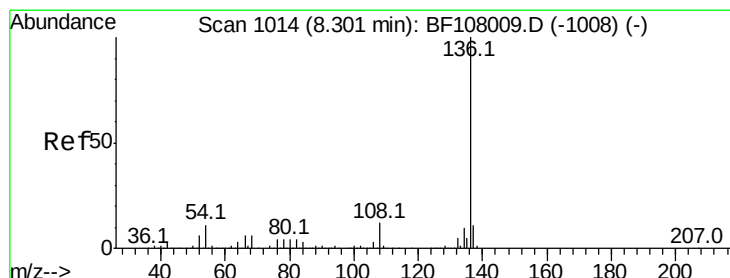
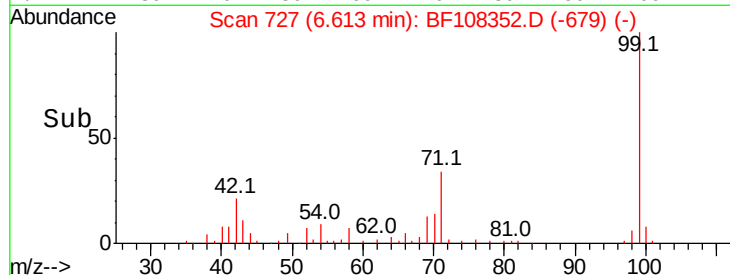
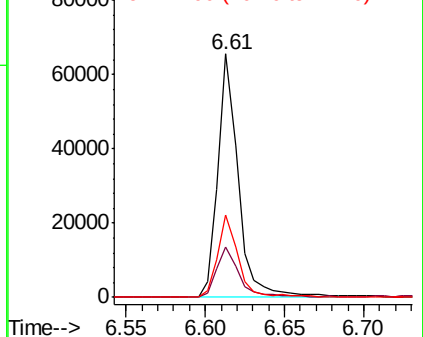
Tot Ion:	99	Resp:	58807
Ion Ratio	Lower	Upper	
99	100		
42	20.9	14.5	21.7
71	33.9	25.4	38.0

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1012

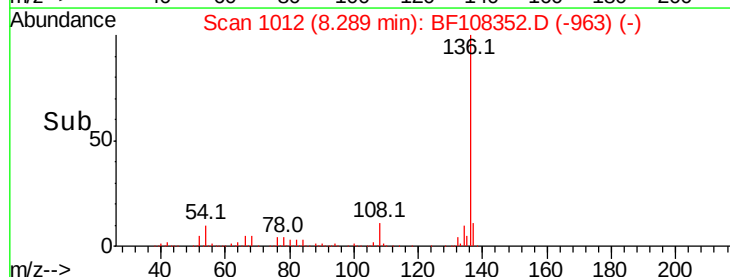
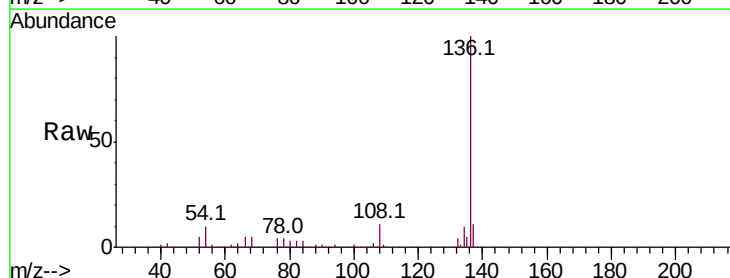
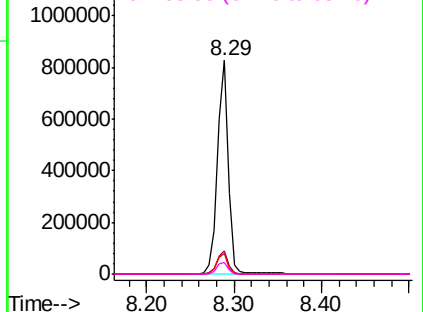
Delta R.T. -0.01 min

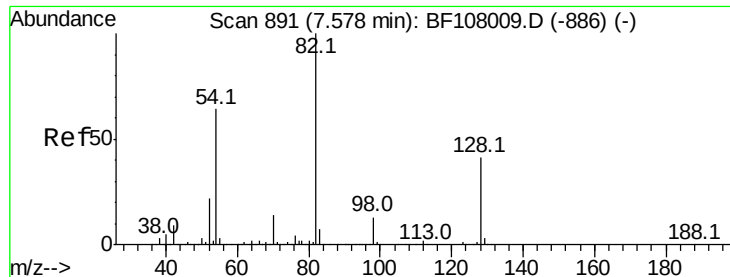
Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Tgt Ion:	136	Resp:	719037
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	9.6	6.6	9.8
68	5.4	5.0	7.4

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF1
Ion 68.00 (67.70 to 68.70): BF1





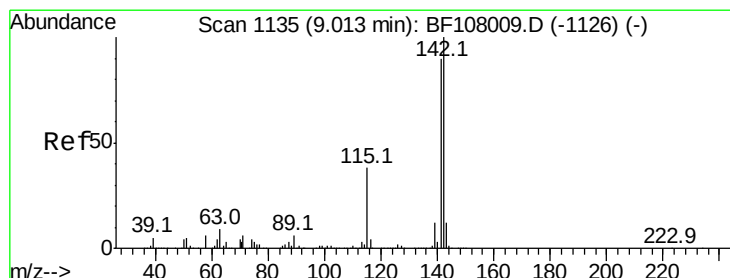
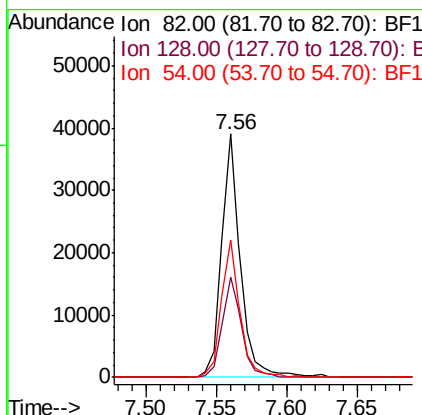
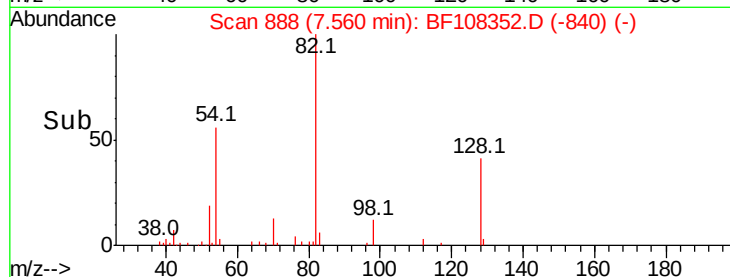
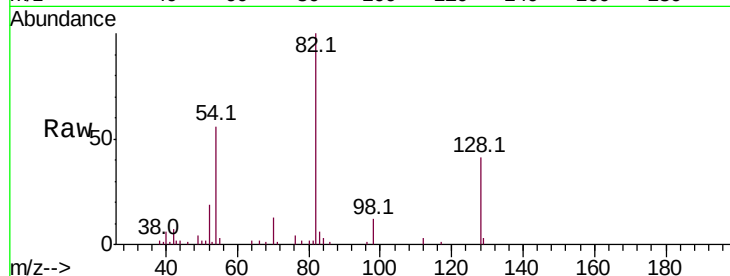
#23
 Nitrobenzene-d5
 Concen: 2.801 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleID :
 72-11969DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.1	36.1	54.1
54	56.3	41.4	62.2

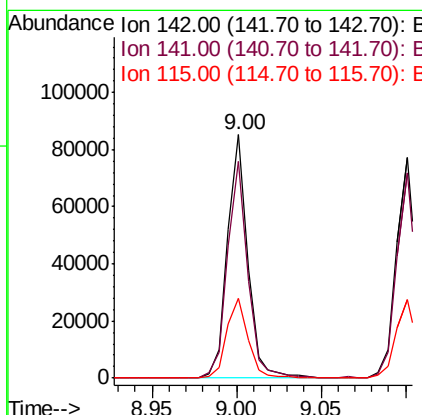
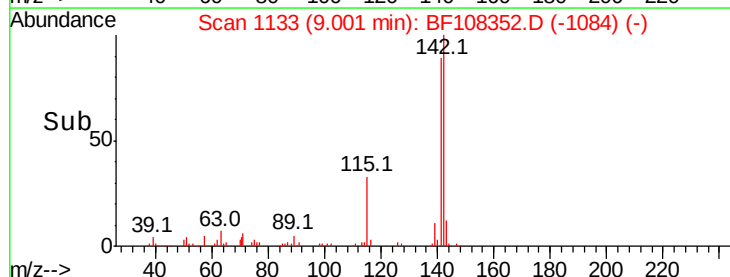
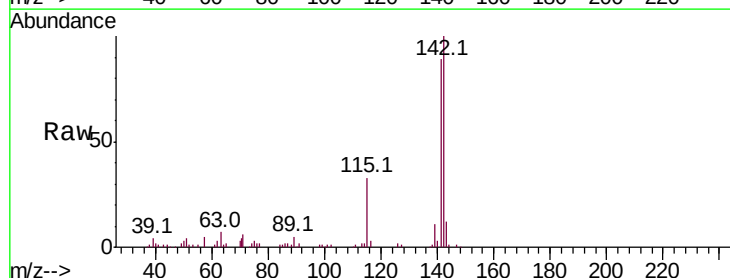
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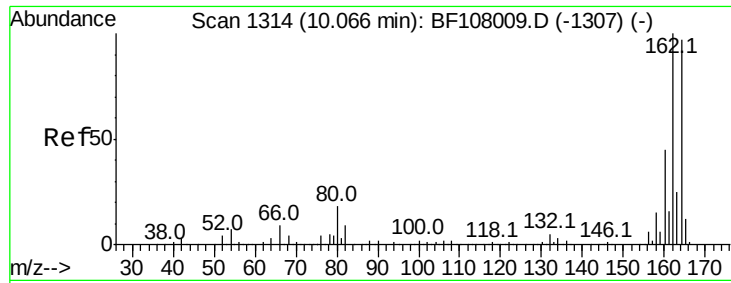
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#37
 2-Methylnaphthalene
 Concen: 3.068 ng
 RT: 9.00 min Scan# 1133
 Delta R.T. -0.01 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.8	106.2
115	32.8	26.1	39.1





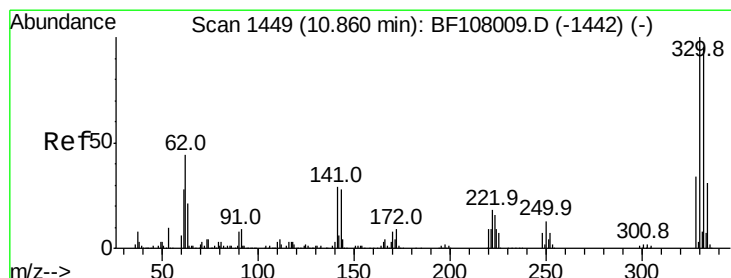
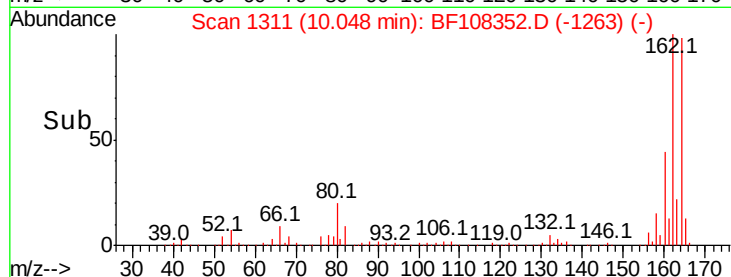
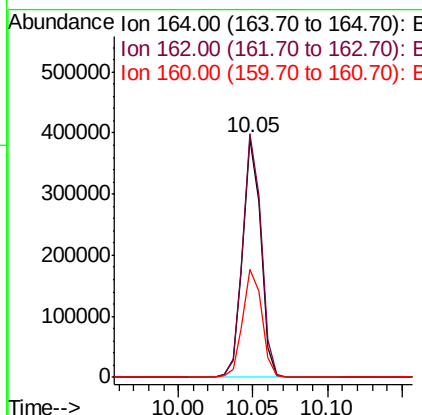
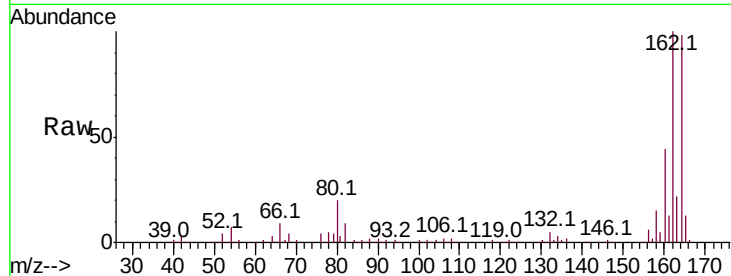
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.05 min Scan# 1311
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampled :
72-11969DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.0	86.1	129.1
160	45.1	38.3	57.5

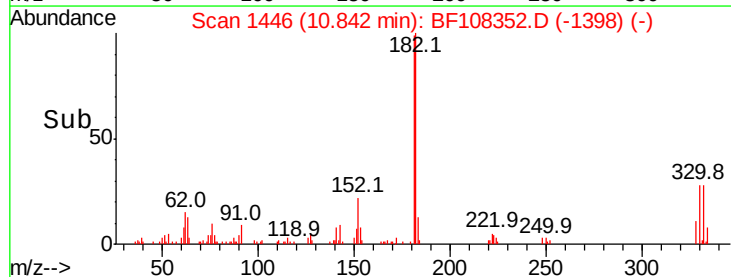
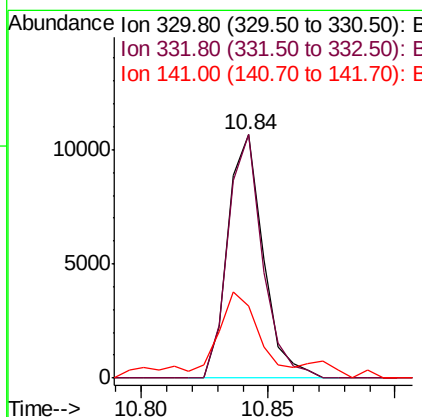
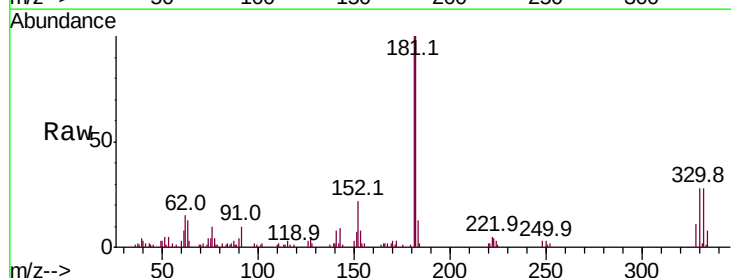
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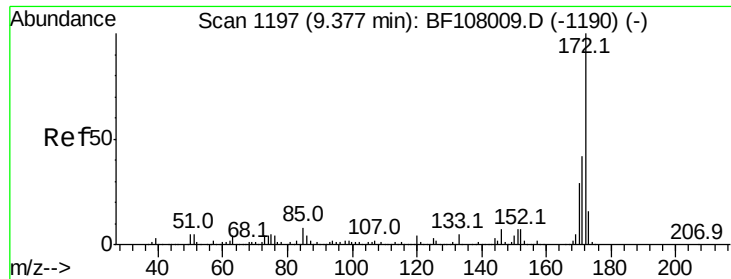
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#41
2,4,6-Tribromophenol
Concen: 3.123 ng
RT: 10.84 min Scan# 1446
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.0	115.6
141	47.5	29.9	44.9#





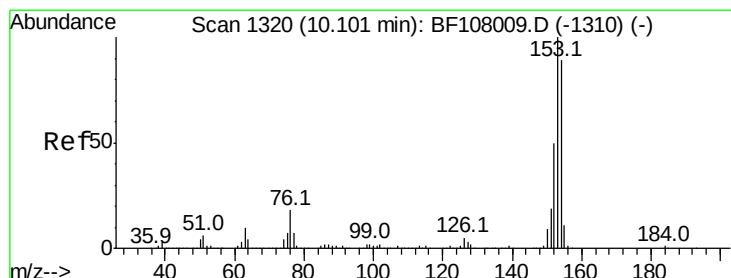
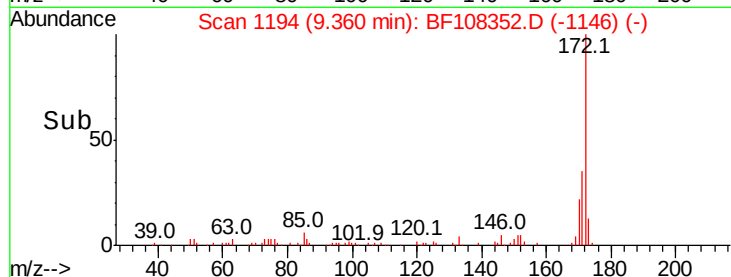
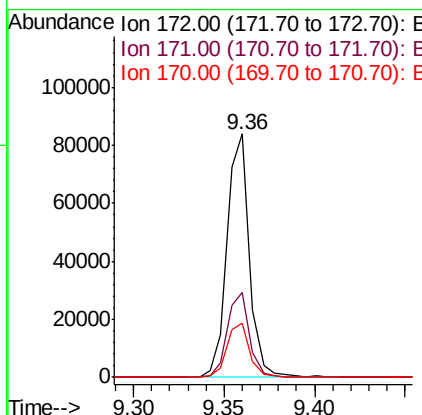
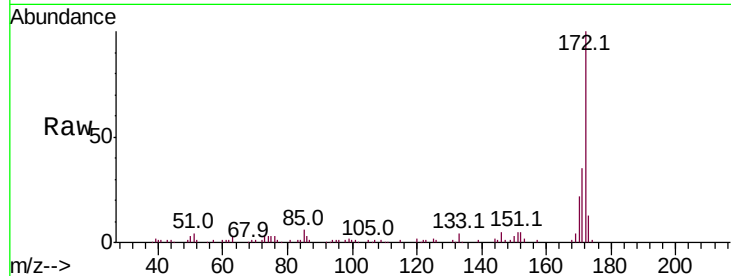
#44
 2-Fluorobiphenyl
 Concen: 3.487 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleID :
 72-11969DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.7	44.5
170	22.1	19.6	29.4

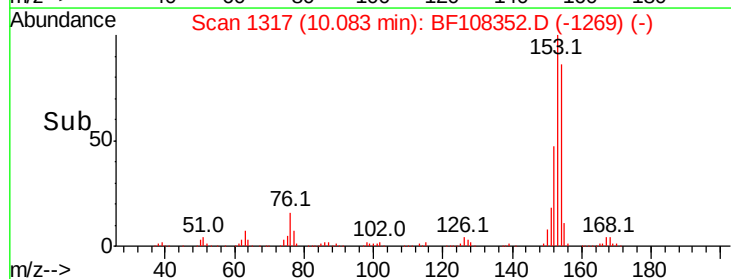
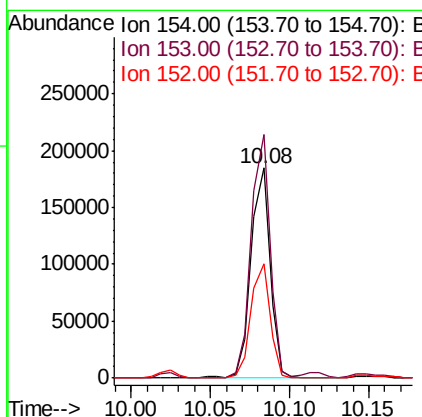
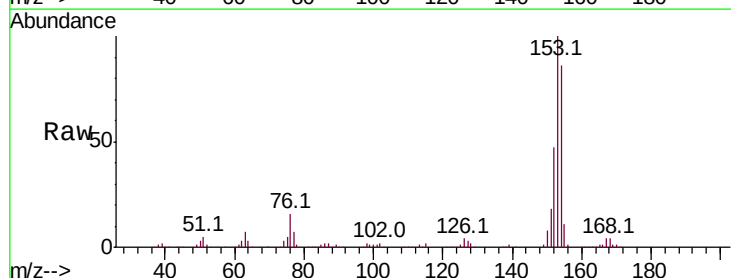
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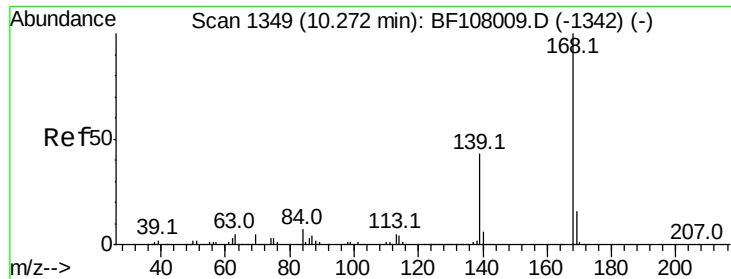
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#51
 Acenaphthene
 Concen: 8.328 ng
 RT: 10.08 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.8	91.2	136.8
152	54.2	43.8	65.8





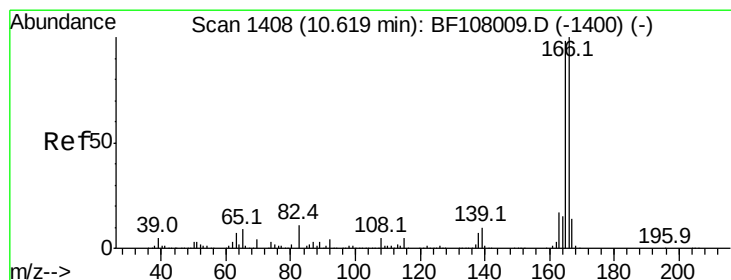
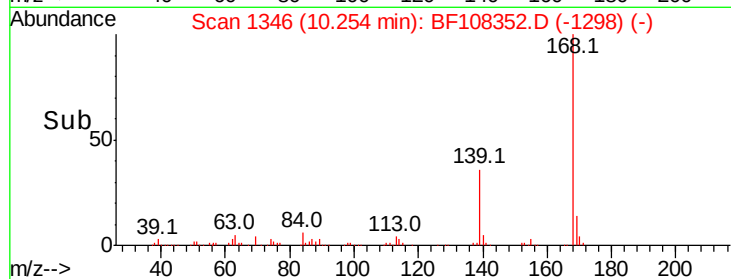
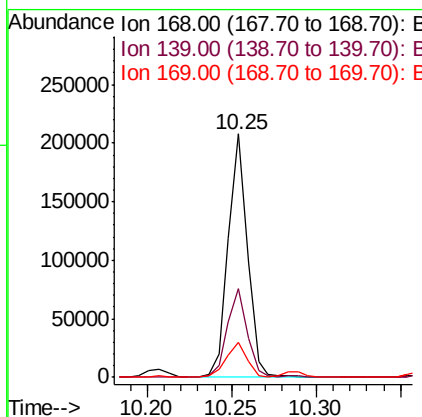
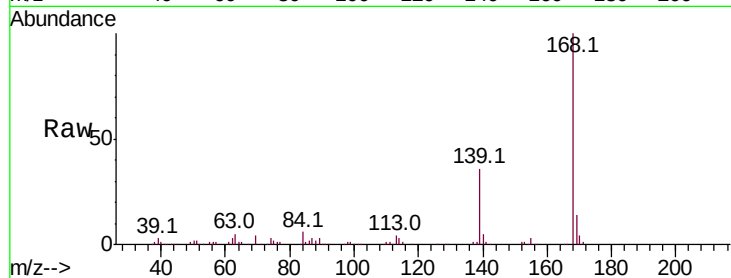
#54
Dibenzofuran
Concen: 6.077 ng
RT: 10.25 min Scan# 1346
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampled :
72-11969DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.3	30.1	45.1
169	14.2	10.9	16.3

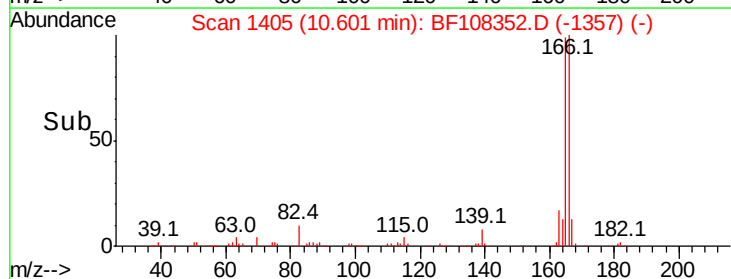
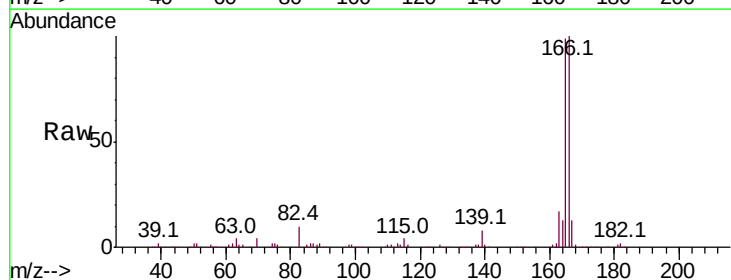
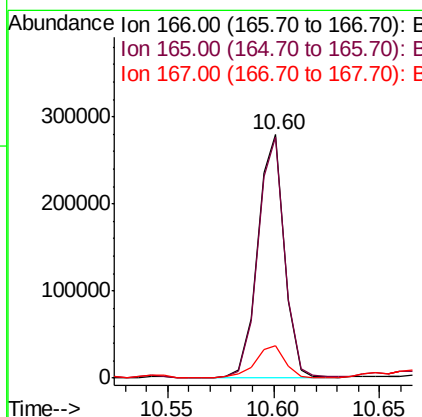
Manual Integrations
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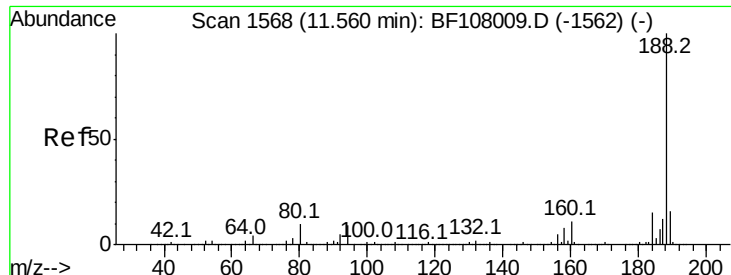
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#57
Fluorene
Concen: 11.412 ng
RT: 10.60 min Scan# 1405
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.8	119.8
167	13.4	10.6	16.0





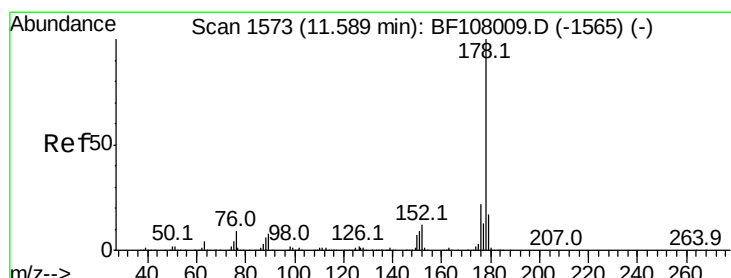
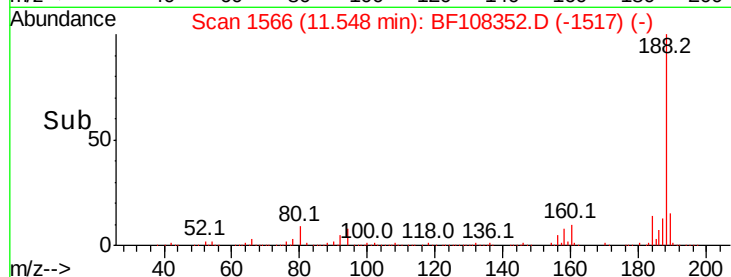
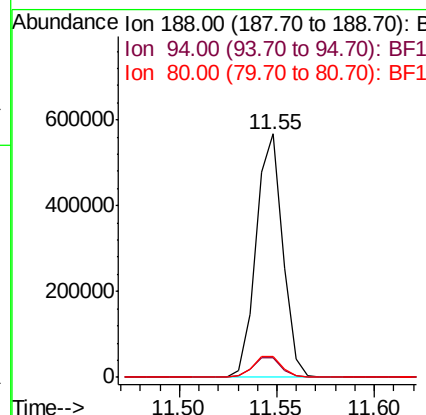
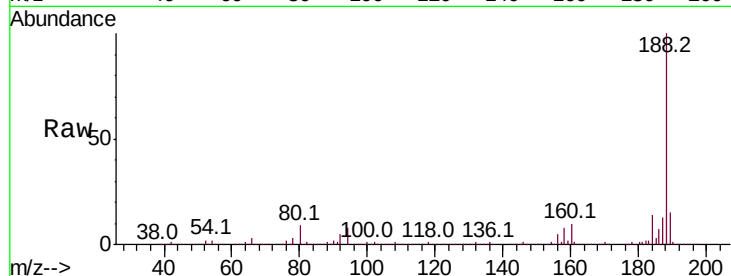
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.55 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.3	8.5	12.7#
80	8.7	9.2	13.8#

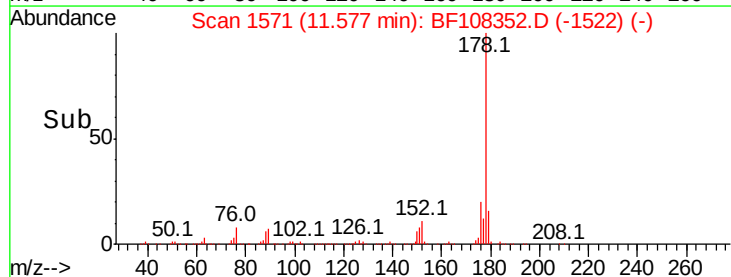
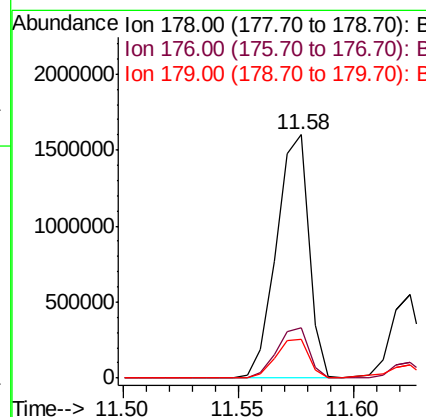
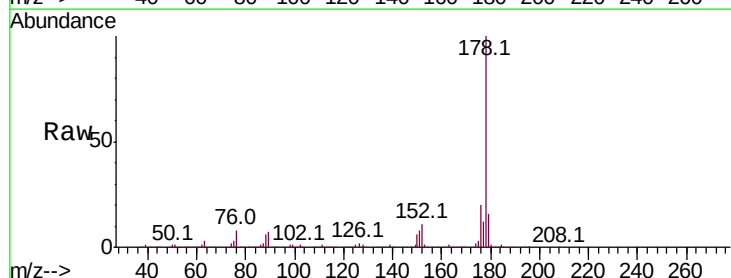
Manual Integrations
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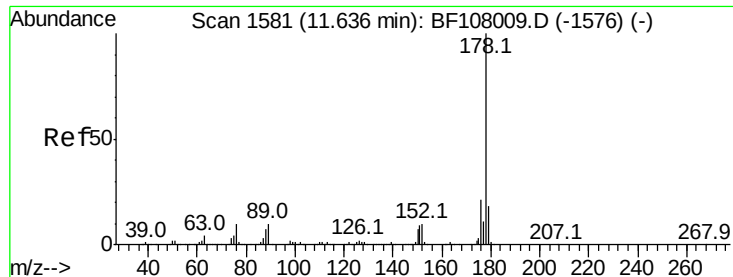
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#70
Phenanthrene
Concen: 61.858 ng
RT: 11.58 min Scan# 1571
Delta R.T. -0.01 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.4	15.8	23.8
179	15.8	13.0	19.6





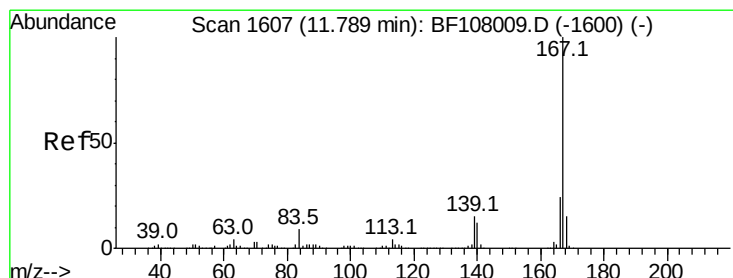
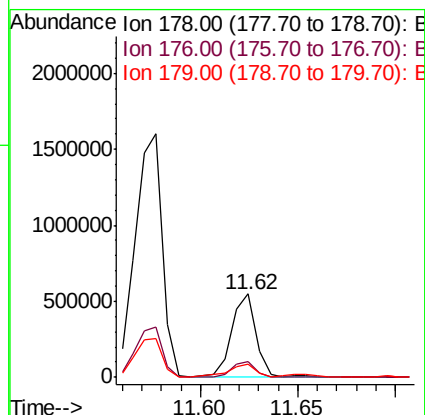
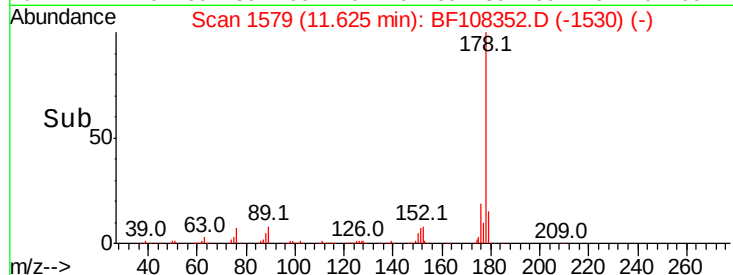
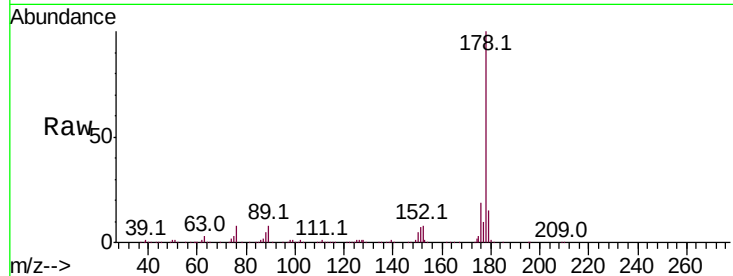
#71
 Anthracene
 Concen: 18.240 ng
 RT: 11.62 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.6	19.0

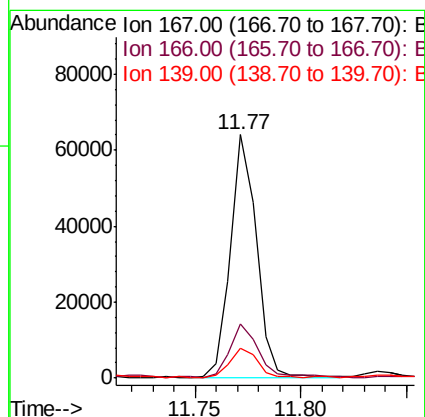
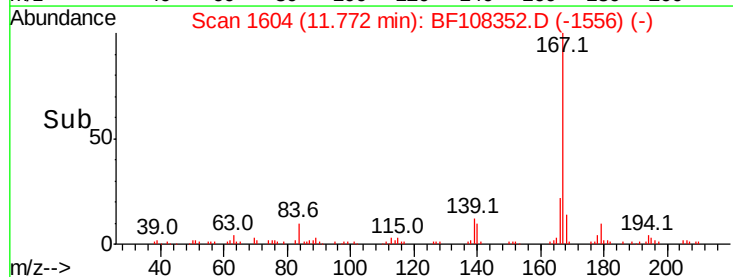
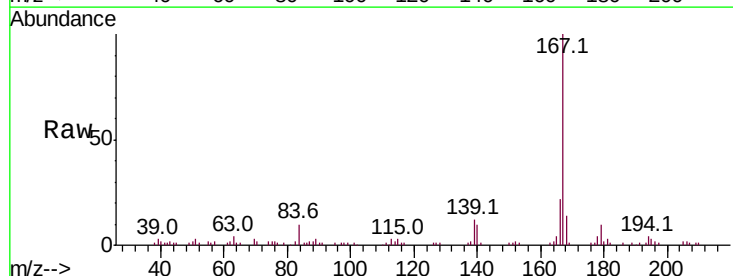
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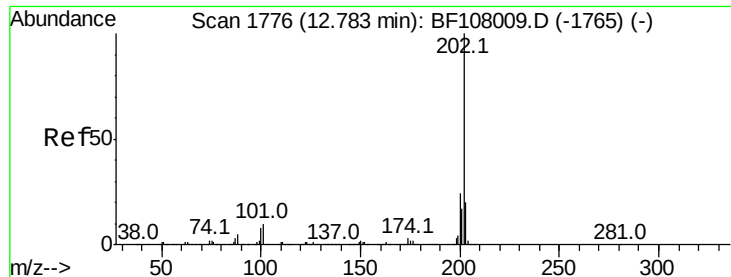
Sohil
 8/22/2018 4:03:10 PM



#72
 Carbazole
 Concen: 2.401 ng
 RT: 11.77 min Scan# 1604
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.6	26.4
139	12.2	10.9	16.3





#74

Fluoranthene

Concen: 50.551 ng

RT: 12.77 min Scan# 1774

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

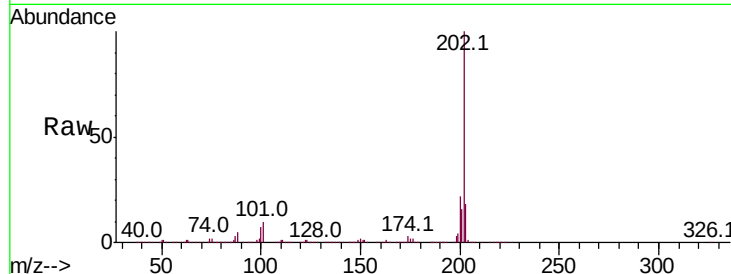
ClientSampleId :

72-11969DL

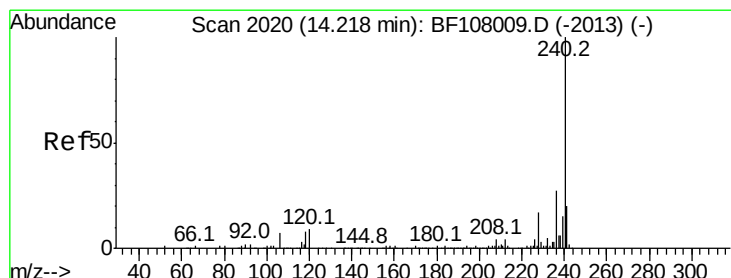
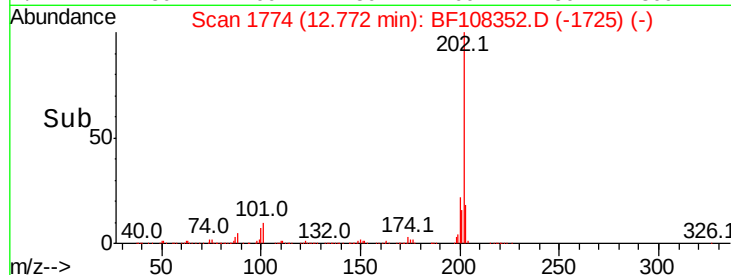
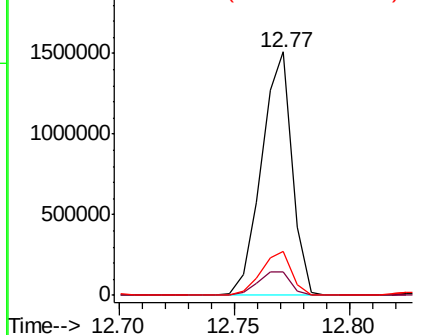
Tot Ion	Ratio	Resp	Lower	Upper
202	100	1391397		
101	9.8	0.0	34.1	
203	18.3	0.0	38.1	

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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

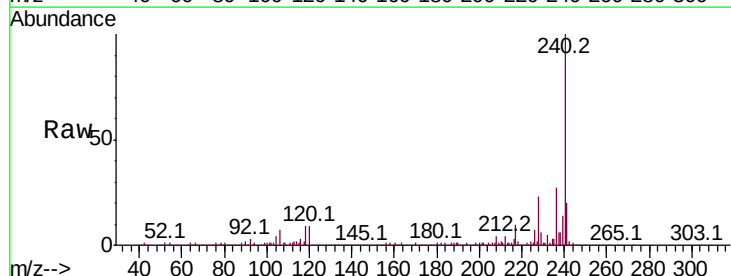
RT: 14.20 min Scan# 2017

Delta R.T. -0.02 min

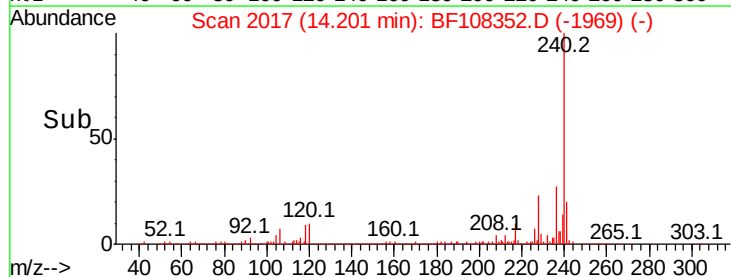
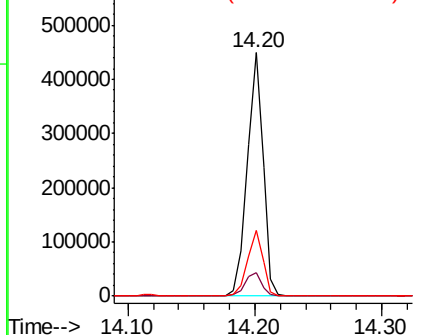
Lab File: BF108352.D

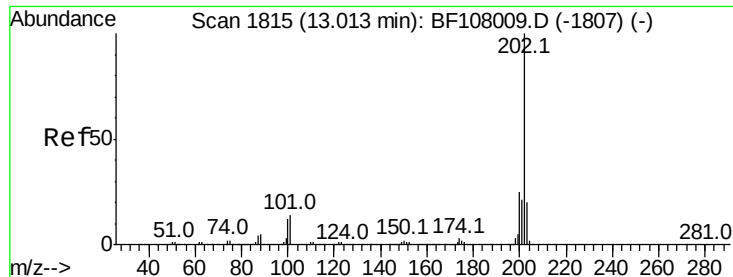
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	389715		
120	9.5	9.5	14.3#	
236	26.9	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: 48.500 ng

RT: 13.00 min Scan# 1813

Delta R.T. -0.01 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Instrument :

BNA_F

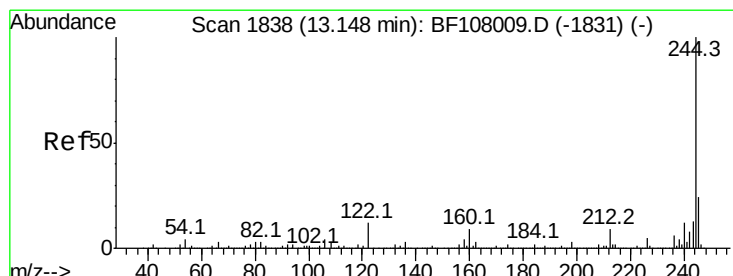
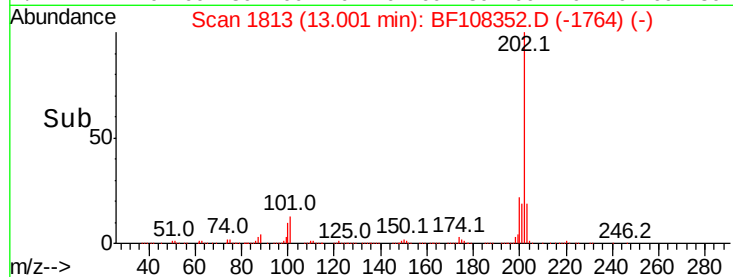
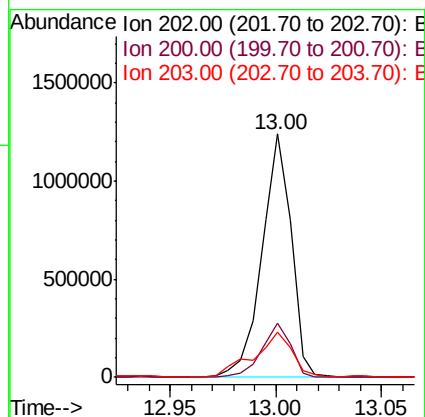
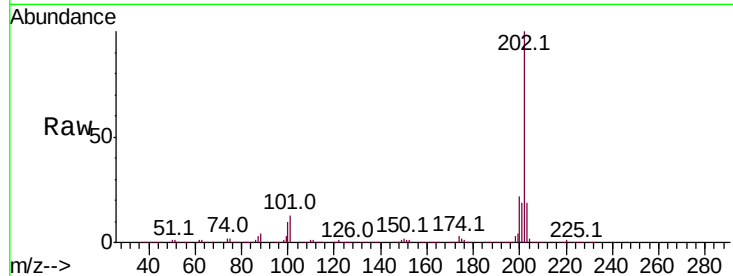
ClientSampleId :

72-11969DL

Tot Ion:	202	Resp:	1196632
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.4	26.2
203	18.8	14.3	21.5

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#78

Terphenyl-d14

Concen: 3.434 ng

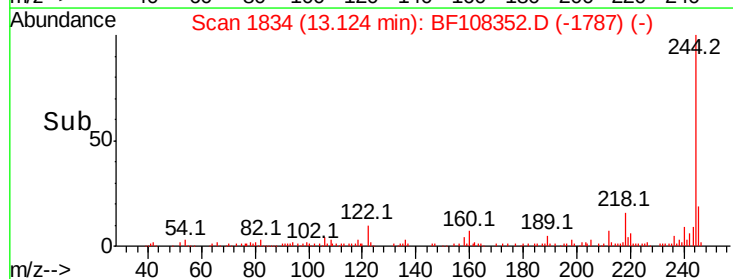
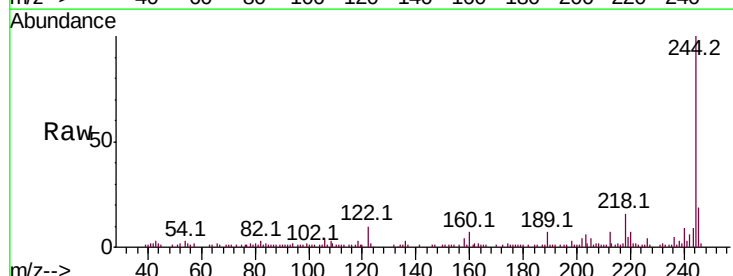
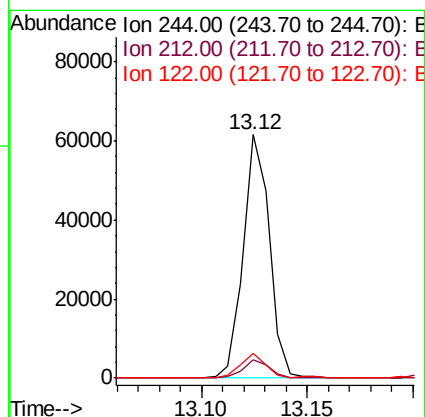
RT: 13.12 min Scan# 1834

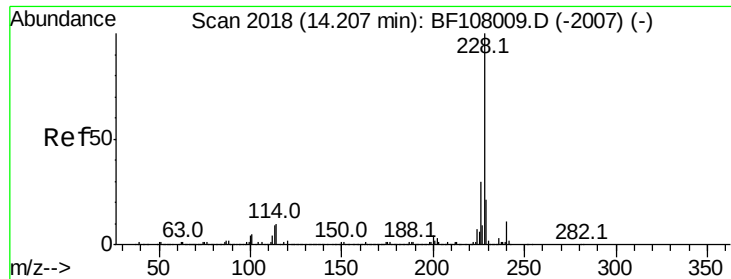
Delta R.T. -0.02 min

Lab File: BF108352.D

Acq: 21 Aug 2018 22:03

Tgt Ion:	244	Resp:	52636
Ion Ratio	Lower	Upper	
244	100		
212	7.5	5.4	8.0
122	10.4	11.0	16.4#





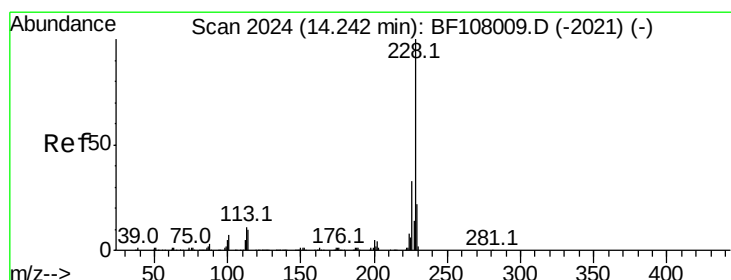
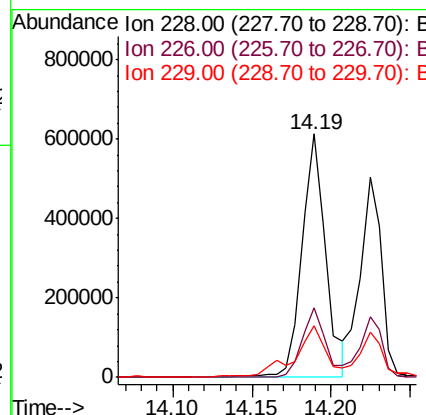
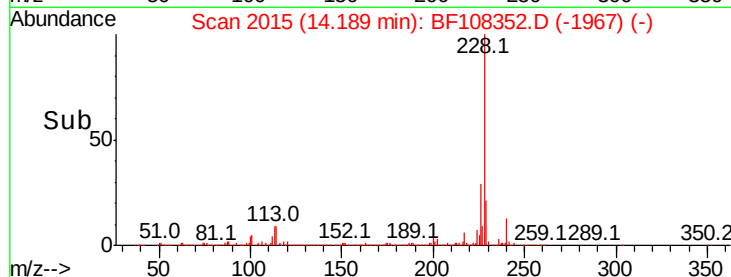
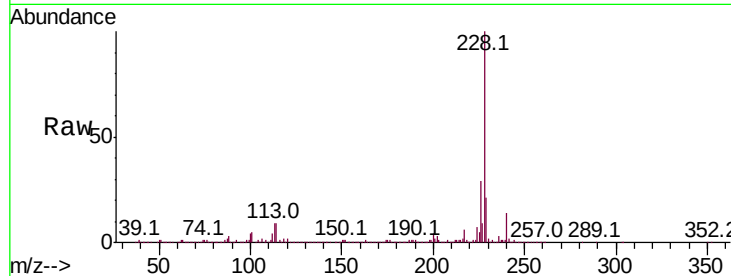
#80
Benzo(a)anthracene
Concen: 28.353 ng
RT: 14.19 min Scan# 2015
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	21.0	15.8	23.6

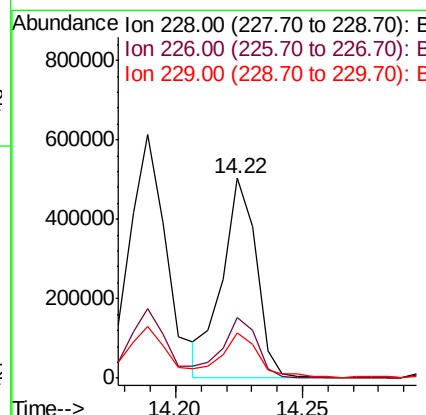
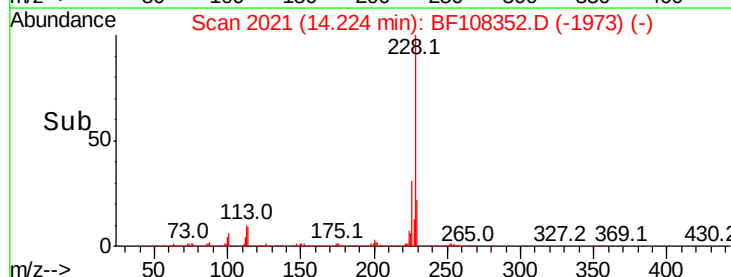
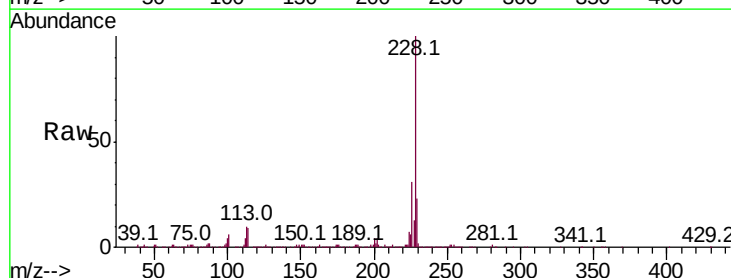
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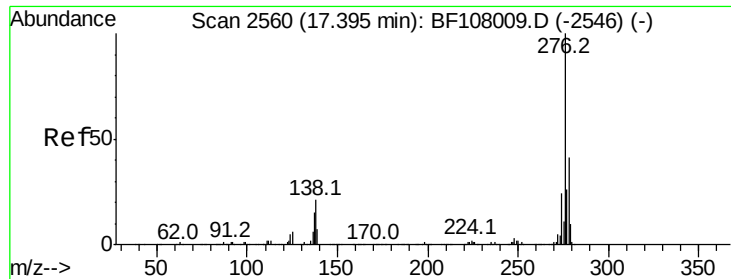
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#82
Chrysene
Concen: 22.946 ng
RT: 14.22 min Scan# 2021
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.6
229	22.9	16.2	24.4





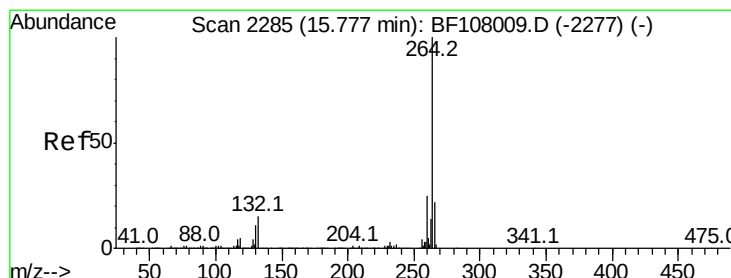
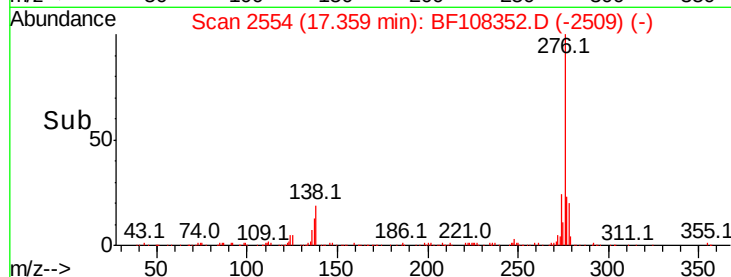
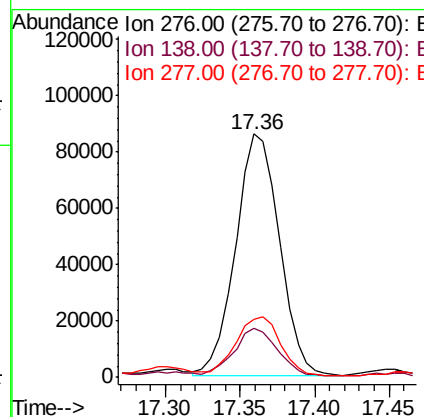
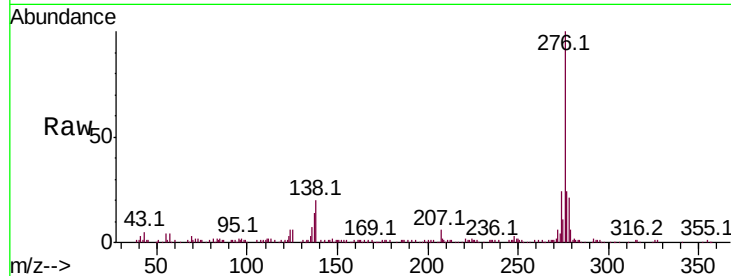
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.789 ng
 RT: 17.36 min Scan# 2554
 Delta R.T. -0.04 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	19.6	25.0	37.6#
277	25.3	20.1	30.1

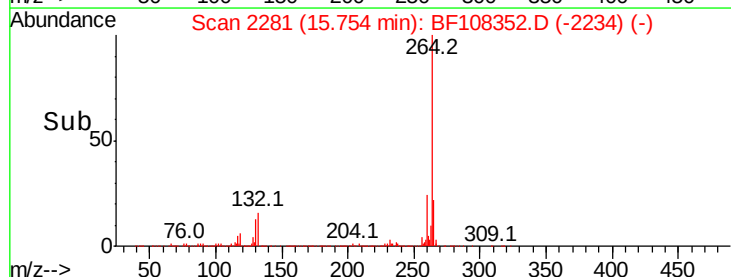
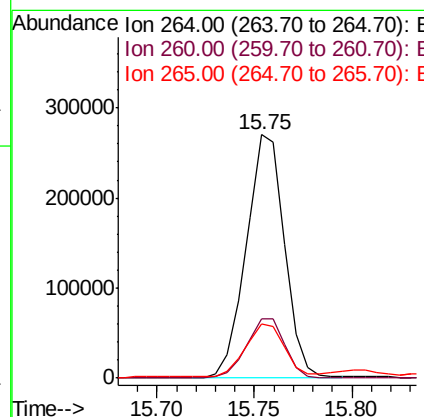
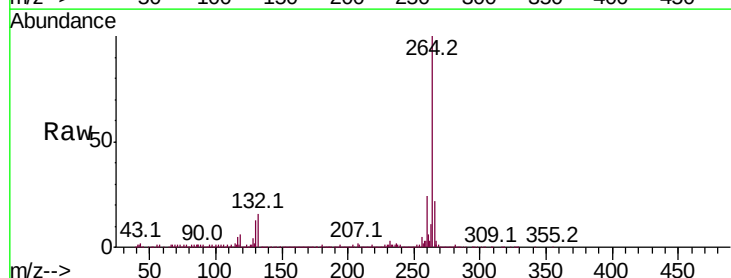
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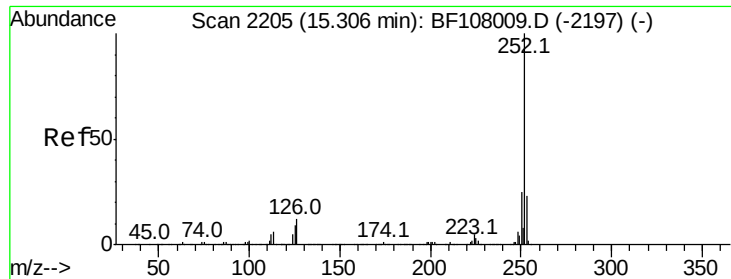
Sohil
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#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.75 min Scan# 2281
 Delta R.T. -0.02 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.3	17.5	26.3





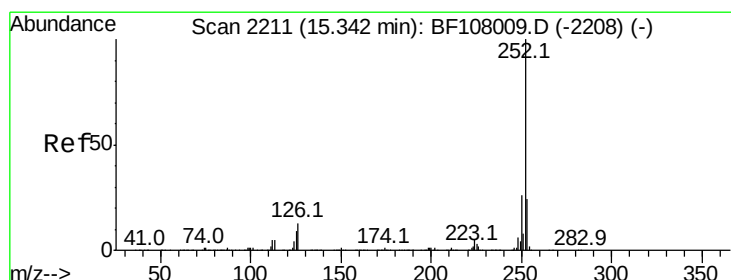
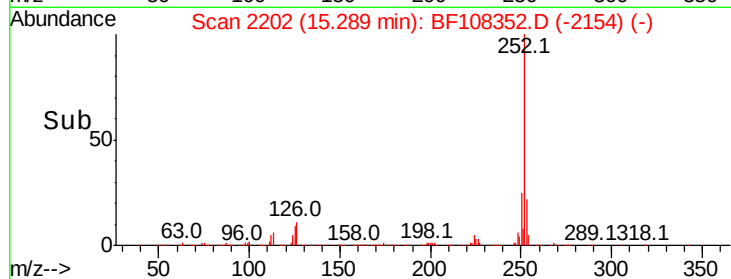
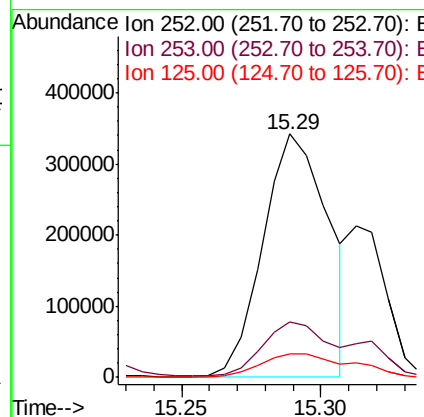
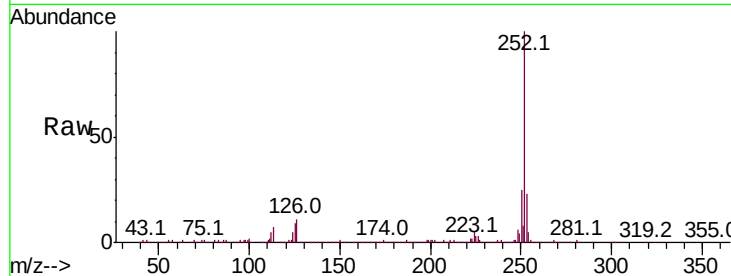
#87
Benzo(b)fluoranthene
Concen: 25.534 ng m
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampleId :
72-11969DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	9.4	9.0	13.6

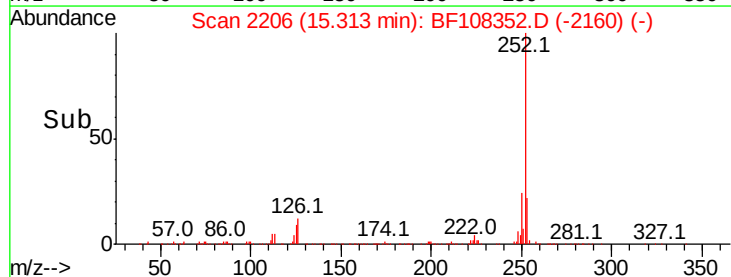
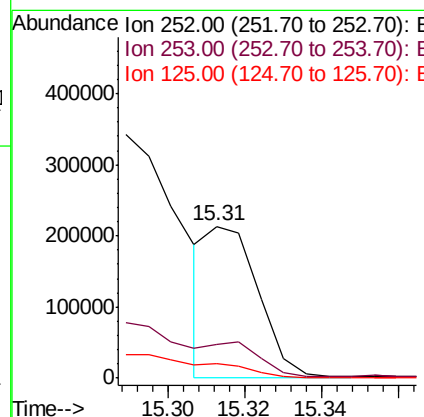
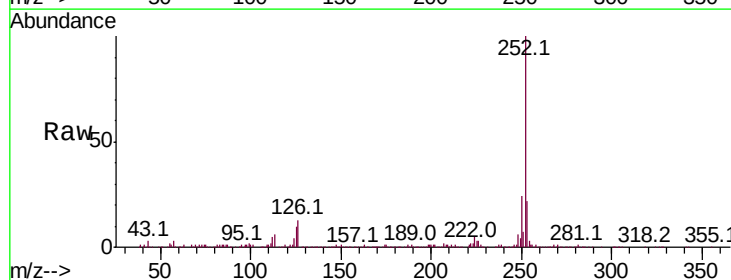
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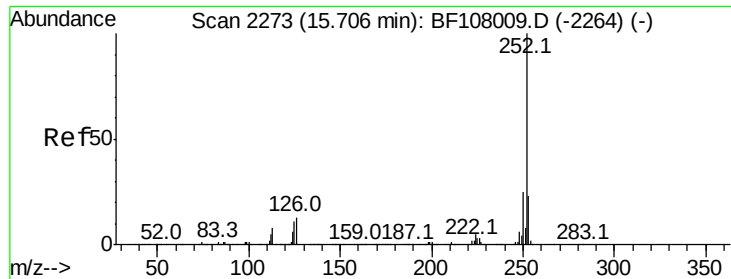
Sohil
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#88
Benzo(k)fluoranthene
Concen: 9.946 ng m
RT: 15.31 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	9.7	10.2	15.2#





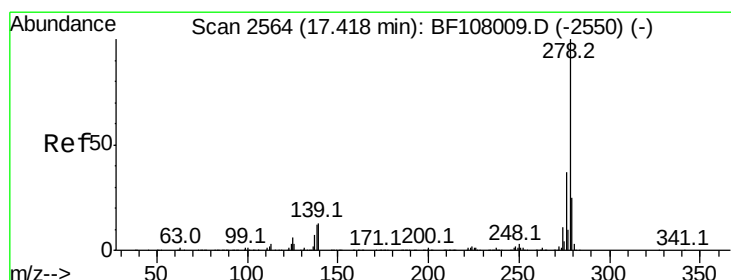
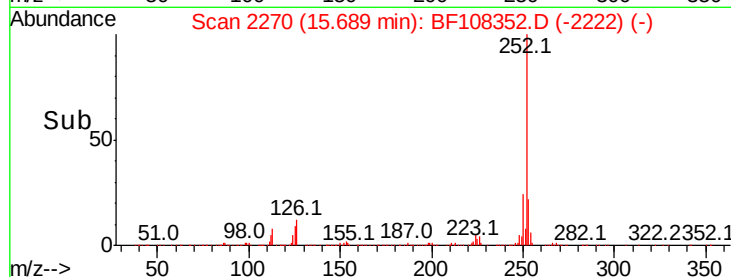
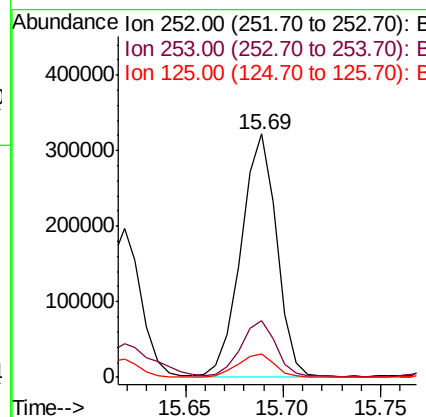
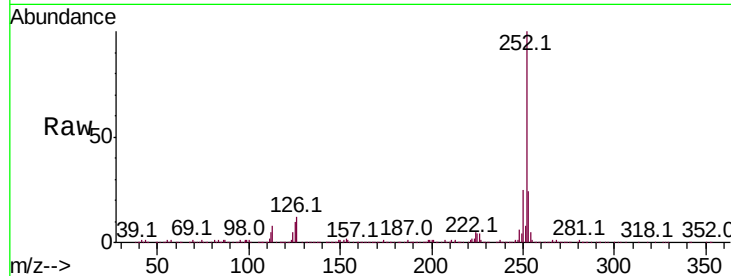
#89
Benzo(a)pyrene
Concen: 20.675 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.02 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Instrument :
BNA_F
ClientSampled :
72-11969DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.1	25.7
125	9.8	9.8	14.6

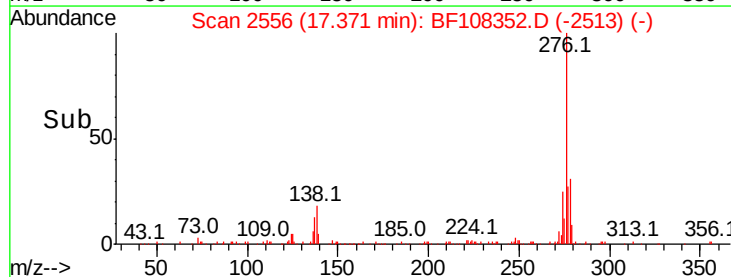
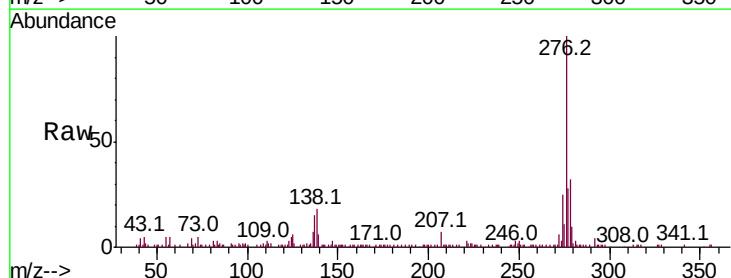
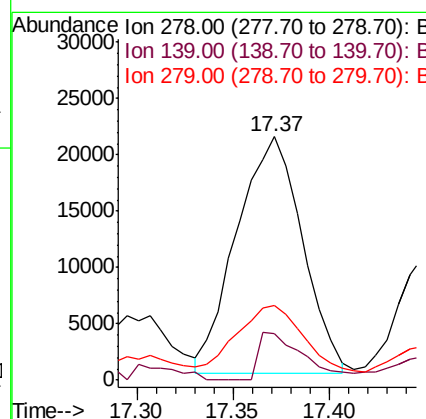
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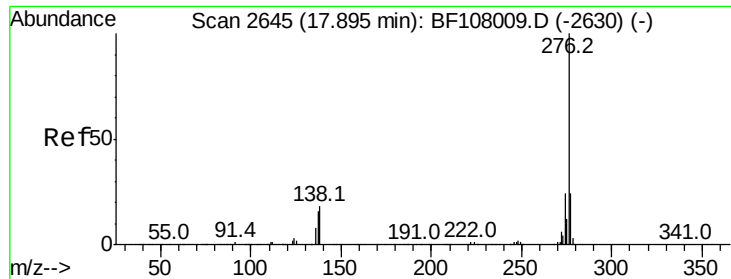
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 3.070 ng m
RT: 17.37 min Scan# 2556
Delta R.T. -0.05 min
Lab File: BF108352.D
Acq: 21 Aug 2018 22:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.9	15.9	23.9
279	30.5	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 9.135 ng
 RT: 17.85 min Scan# 2638
 Delta R.T. -0.04 min
 Lab File: BF108352.D
 Acq: 21 Aug 2018 22:03

Instrument :
 BNA_F
 ClientSampleId :
 72-11969DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	21.7	21.8	32.8#

Manual Integrations
 APPROVED

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