

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
 Data File : BF108348.D
 Acq On : 21 Aug 2018 20:14
 Operator : JU/SJ
 Sample : J4521-25DL 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 72-11988DL

Manual Integrations
 APPROVED

Sohil
 8/22/2018 4:03:00 PM

Quant Time: Aug 22 00:16:31 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	172673	20.00	ng	-0.01
21) Naphthalene-d8	8.29	136	646207	20.00	ng	-0.01
38) Acenaphthene-d10	10.05	164	321106	20.00	ng	-0.02
63) Phenanthrene-d10	11.54	188	553958	20.00	ng	-0.02
75) Chrysene-d12	14.20	240	362866	20.00	ng	-0.02
86) Perylene-d12	15.75	264	363524	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	183501	19.24	ng	-0.01
7) Phenol-d6	6.61	99	252724	19.94	ng	-0.02
23) Nitrobenzene-d5	7.56	82	162863	14.06	ng	-0.02
41) 2,4,6-Tribromophenol	10.84	330	54575	17.04	ng	-0.02
44) 2-Fluorobiphenyl	9.36	172	311111	15.55	ng	-0.02
78) Terphenyl-d14	13.12	244	232011	16.26	ng	-0.02
Target Compounds						
70) Phenanthrene	11.57	178	327930	12.551	ng	Qvalue 100
71) Anthracene	11.62	178	123097	4.597	ng	98
74) Fluoranthene	12.77	202	731071	25.637	ng	95
77) Pyrene	13.00	202	662656	28.845	ng	99
80) Benzo(a)anthracene	14.19	228	330002	15.847	ng	99
82) Chrysene	14.22	228	275953	14.454	ng	97
85) Indeno(1,2,3-cd)pyrene	17.36	276	130062	7.862	ng	# 88
87) Benzo(b)fluoranthene	15.29	252	364605m	16.785	ng	
88) Benzo(k)fluoranthene	15.31	252	115181m	5.768	ng	
89) Benzo(a)pyrene	15.68	252	267968	13.776	ng	96
90) Dibenzo(a,h)anthracene	17.37	278	36648m	2.277	ng	
91) Benzo(a,h,i)perylene	17.85	276	110919	6.999	ng	# 88

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

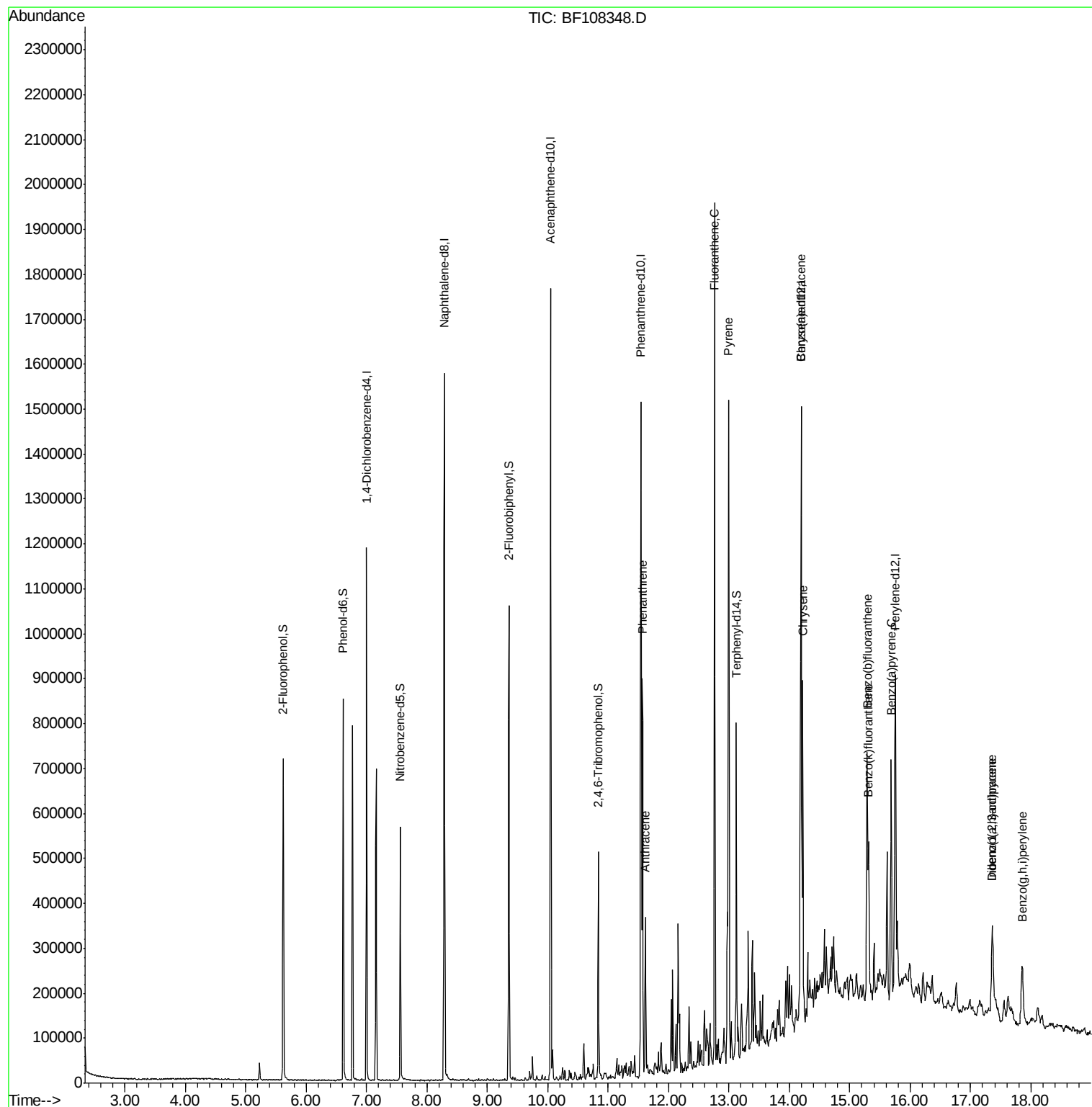
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082118\
Data File : BF108348.D
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Operator : JU/SJ
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ALS Vial : 7 Sample Multiplier: 1

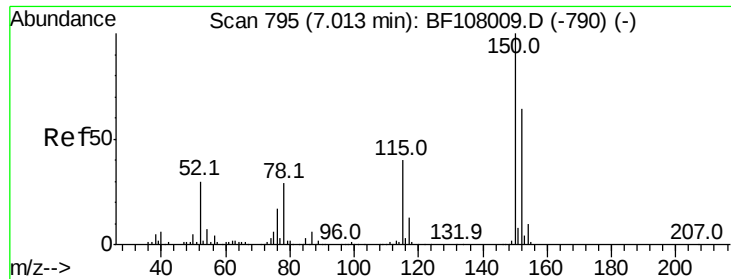
Instrument :
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Quant Time: Aug 22 00:16:31 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF080818.M
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#1

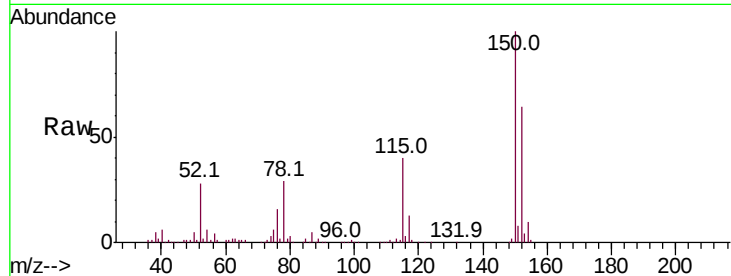
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.00 min Scan# 793
Delta R.T. -0.01 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Instrument :
BNA_F
ClientSampleId :
72-11988DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	124.6	186.8
115	63.4	50.1	75.1

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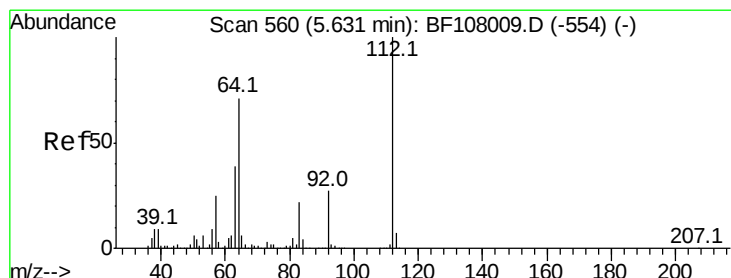
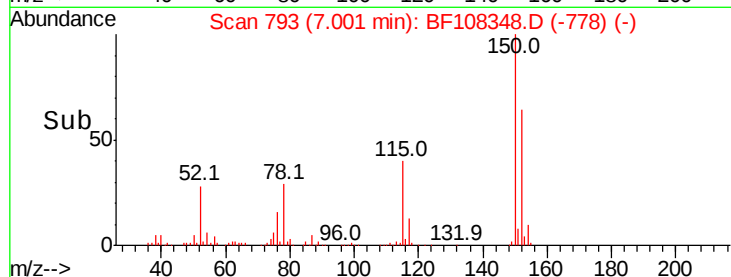
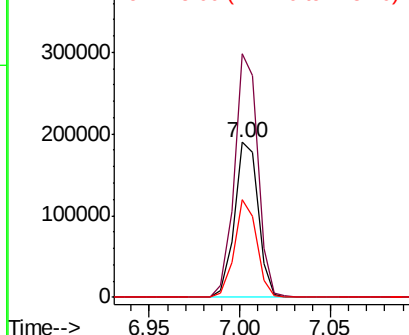


Abundance

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: 19.240 ng
RT: 5.62 min Scan# 558
Delta R.T. -0.01 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

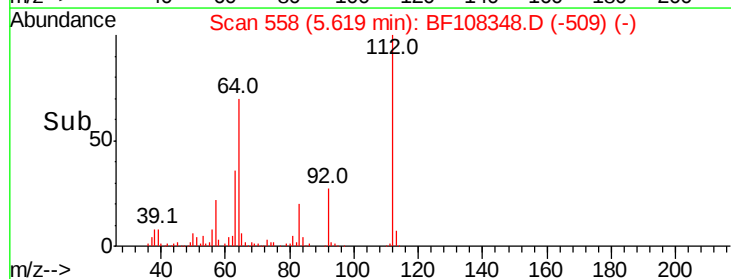
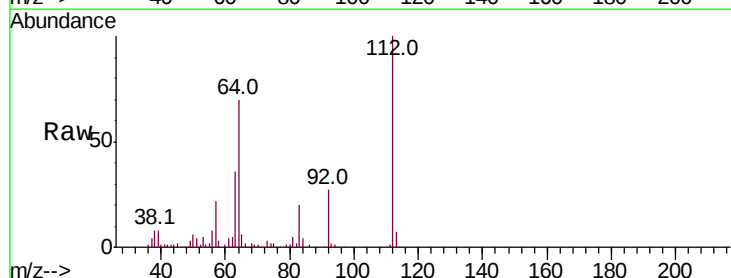
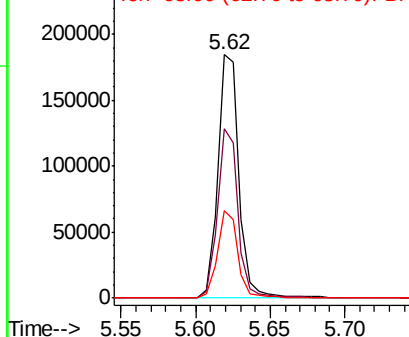
Tgt Ion	Ratio	Lower	Upper
112	100		
64	69.5	47.9	71.9
63	36.2	23.7	35.5#

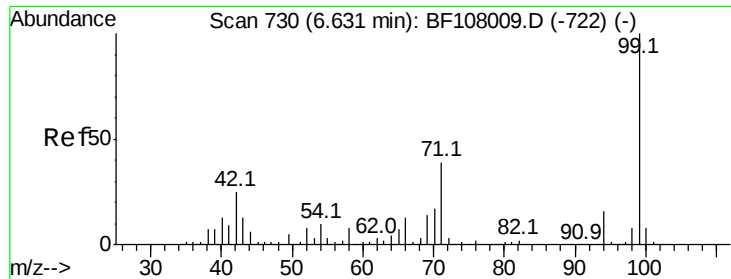
Abundance

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: 19.940 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Instrument :

BNA_F

ClientSampleId :

72-11988DL

Tot Ion: 99 Resp: 252724

Ion Ratio Lower Upper

99 100

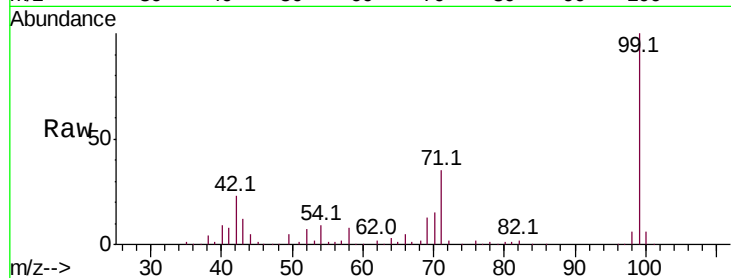
42 23.0 14.5 21.7#

71 35.3 25.4 38.0

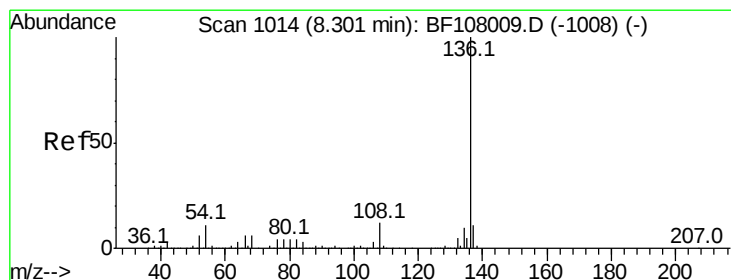
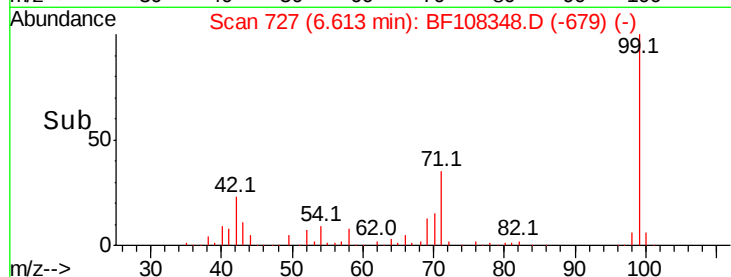
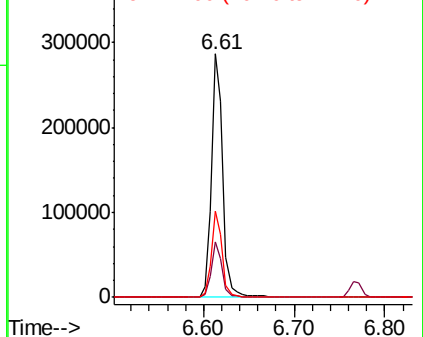
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Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.29 min Scan# 1012

Delta R.T. -0.01 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Tgt Ion: 136 Resp: 646207

Ion Ratio Lower Upper

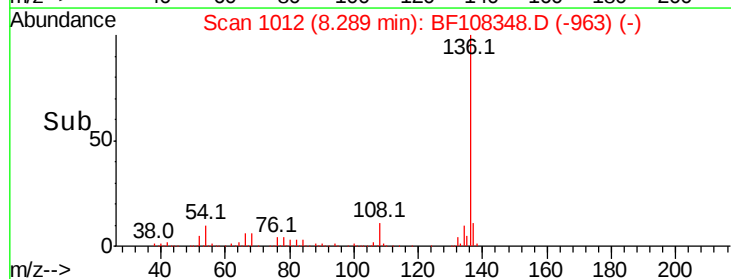
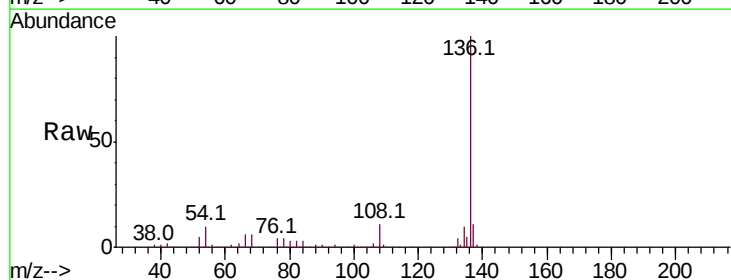
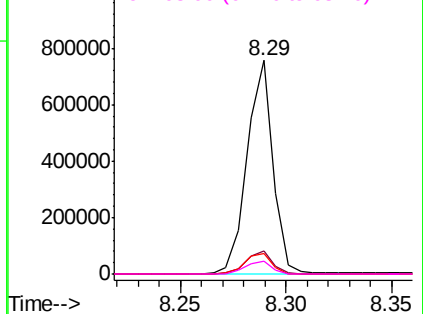
136 100

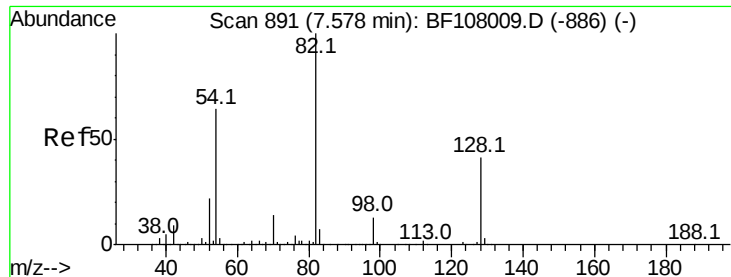
137 11.1 8.9 13.3

54 9.9 6.6 9.8#

68 6.0 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





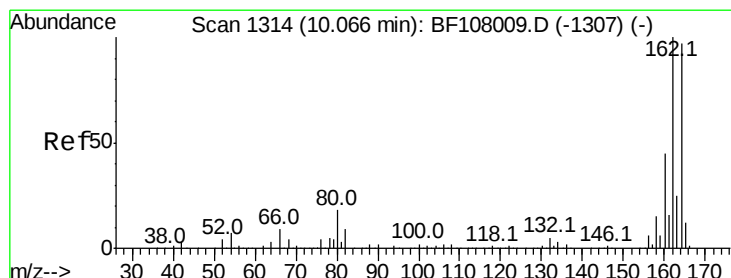
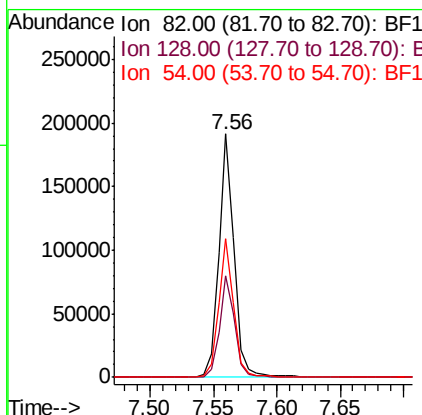
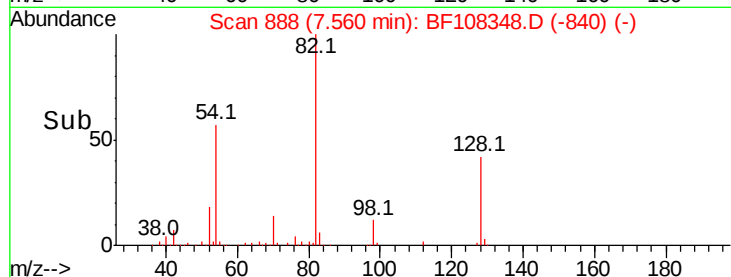
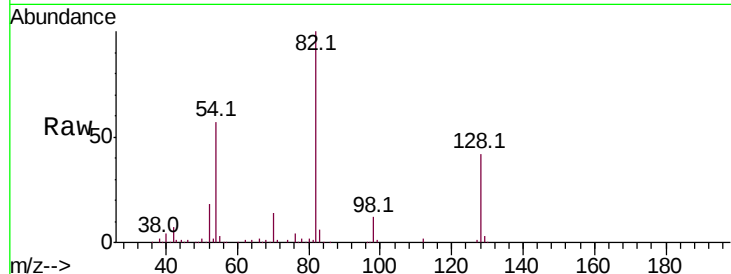
#23
 Nitrobenzene-d5
 Concen: 14.064 ng
 RT: 7.56 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Instrument :
 BNA_F
 ClientSampleID :
 72-11988DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	41.7	36.1	54.1
54	56.9	41.4	62.2

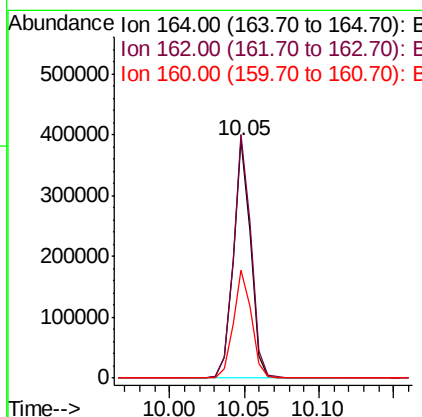
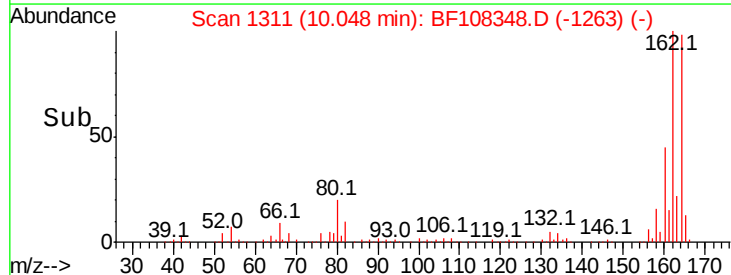
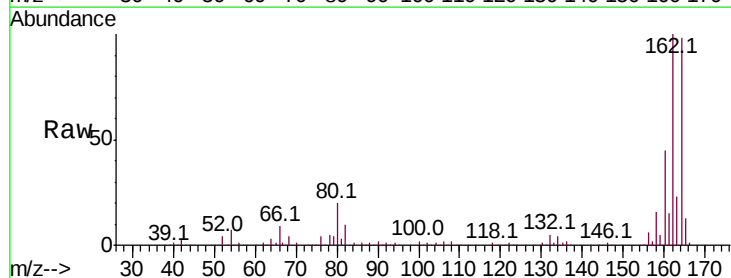
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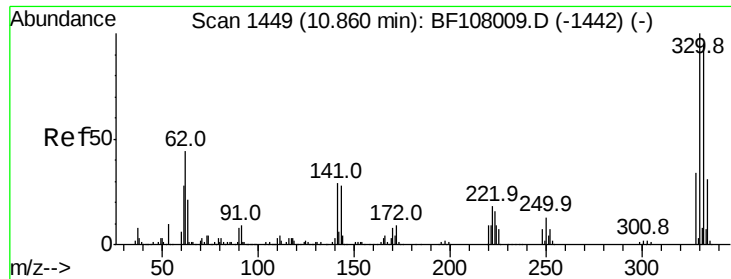
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.05 min Scan# 1311
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.3	86.1	129.1
160	45.5	38.3	57.5





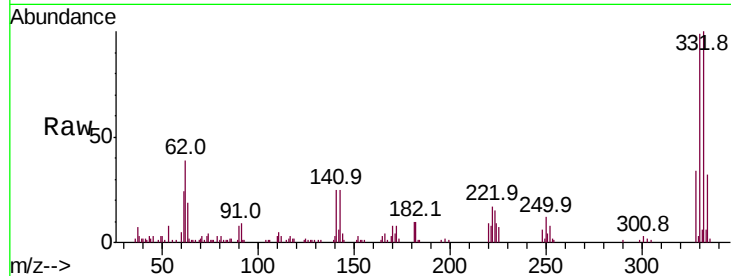
#41
 2,4,6-Tribromophenol
 Concen: 17.039 ng
 RT: 10.84 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Instrument :
 BNA_F
 ClientSampleId :
 72-11988DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.6	77.0	115.6	
141	33.5	29.9	44.9	

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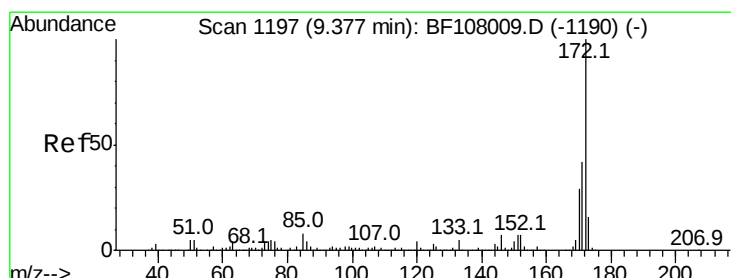
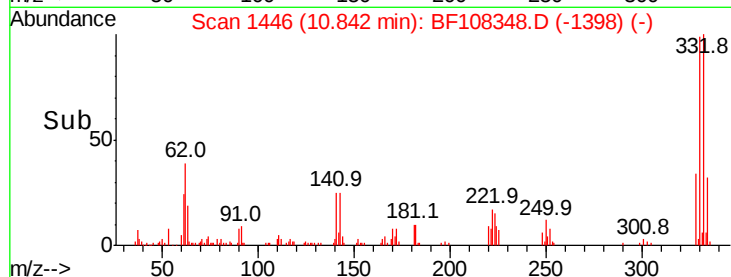
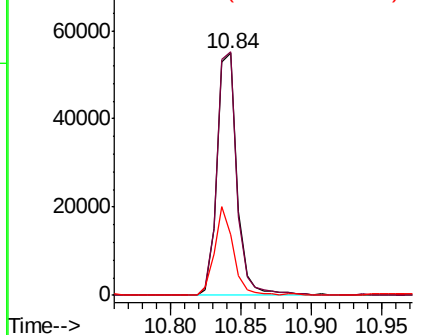


Abundance

Ion 329.80 (329.50 to 330.50): E

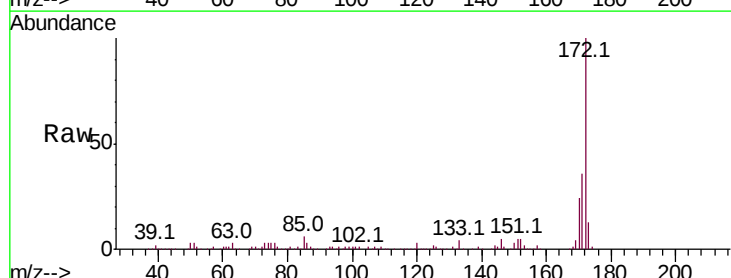
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 15.555 ng
 RT: 9.36 min Scan# 1194
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	29.7	44.5	
170	23.8	19.6	29.4	

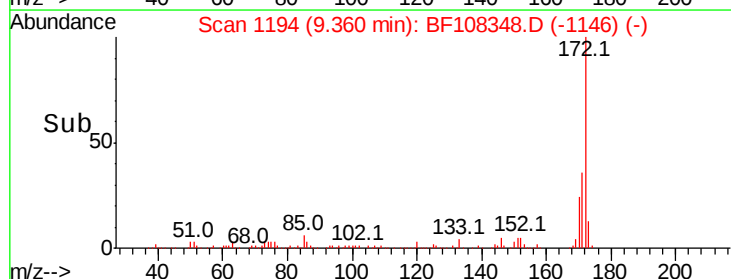
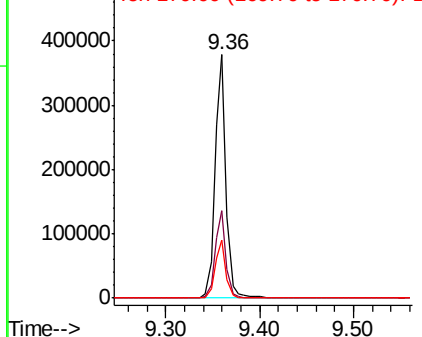


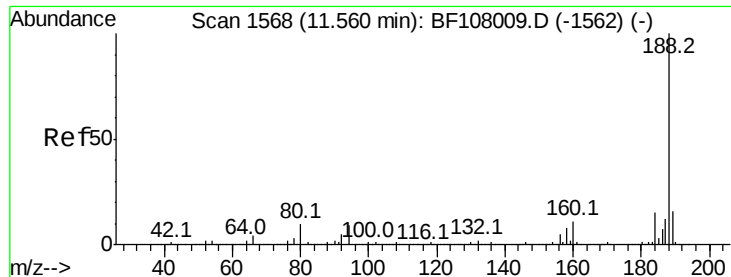
Abundance

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





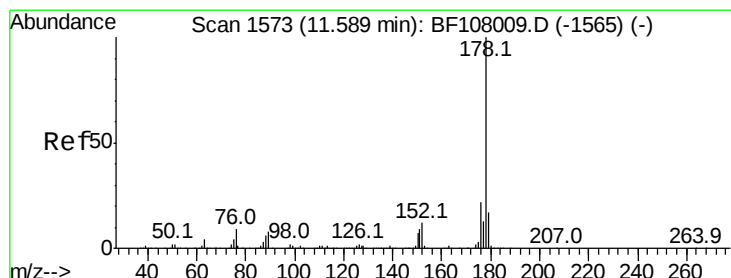
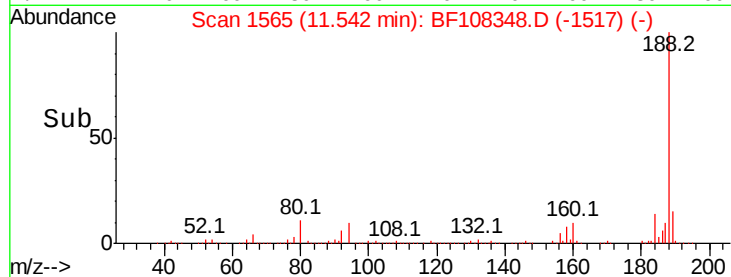
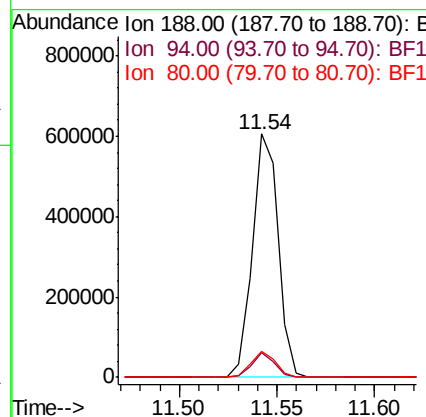
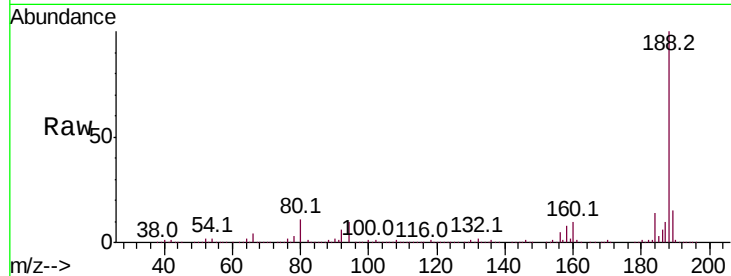
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.54 min Scan# 1565
Delta R.T. -0.02 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Instrument :
BNA_F
ClientSampleId :
72-11988DL

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.0	8.5	12.7
80	10.7	9.2	13.8

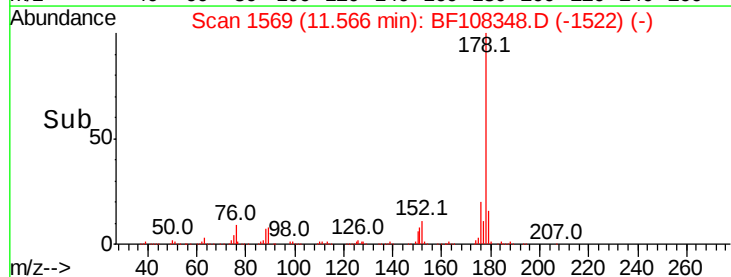
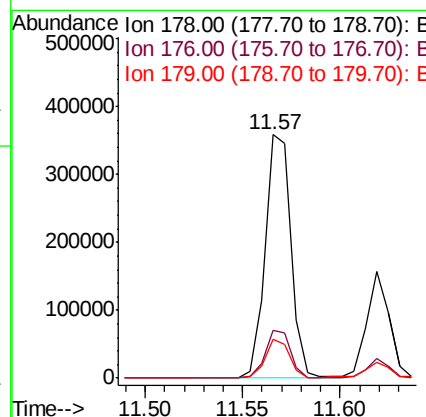
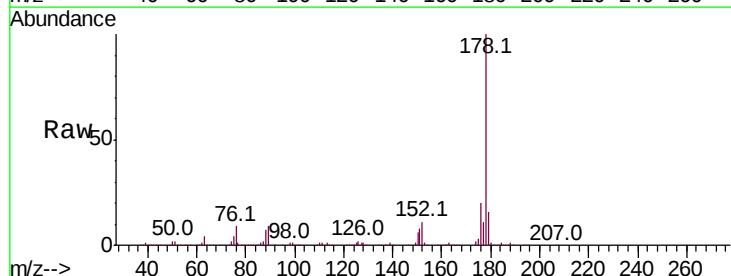
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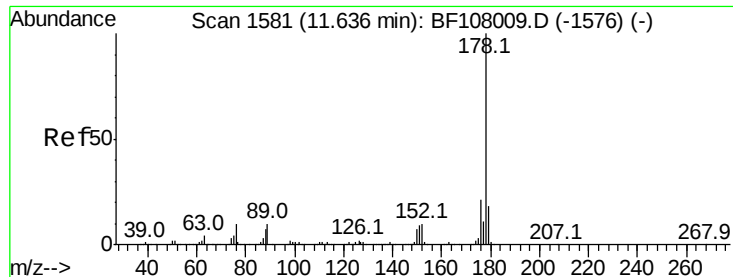
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#70
Phenanthrene
Concen: 12.551 ng
RT: 11.57 min Scan# 1569
Delta R.T. -0.02 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.7	15.8	23.8
179	16.1	13.0	19.6





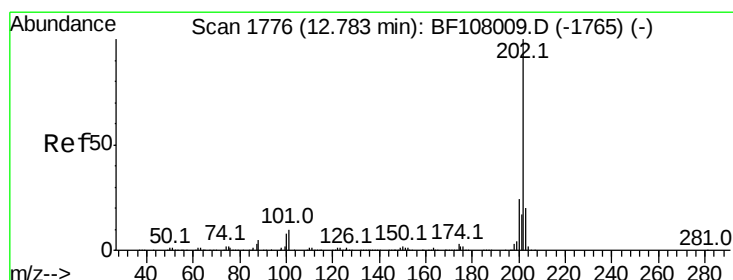
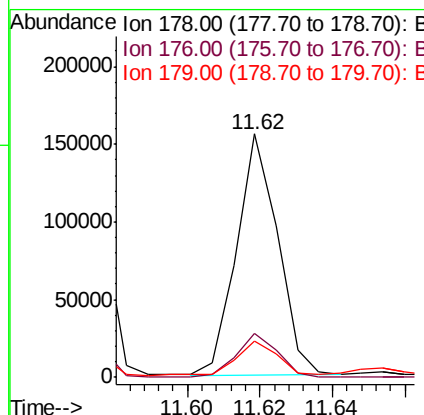
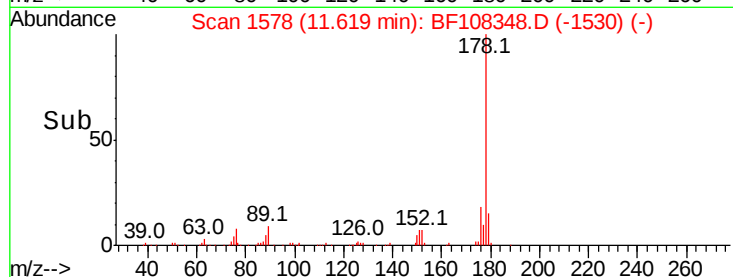
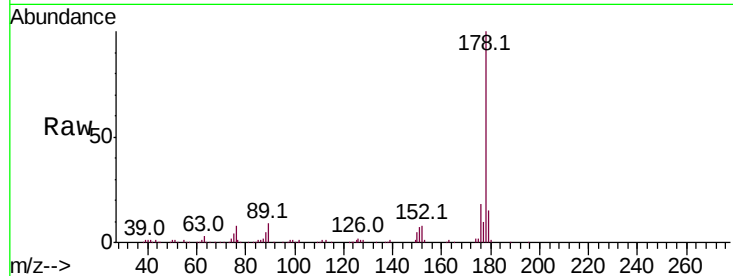
#71
 Anthracene
 Concen: 4.597 ng
 RT: 11.62 min Scan# 1578
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Instrument :
 BNA_F
 ClientSampleId :
 72-11988DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.4	23.2
179	14.9	12.6	19.0

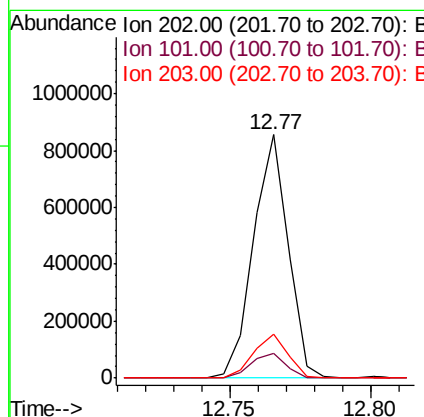
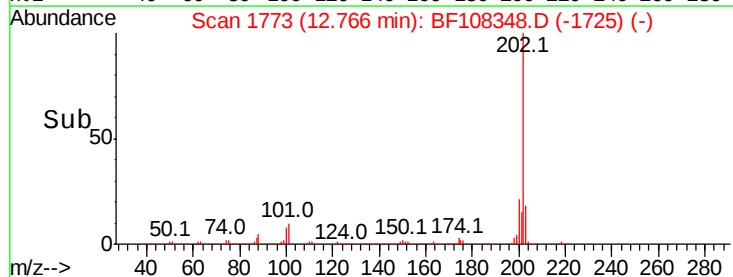
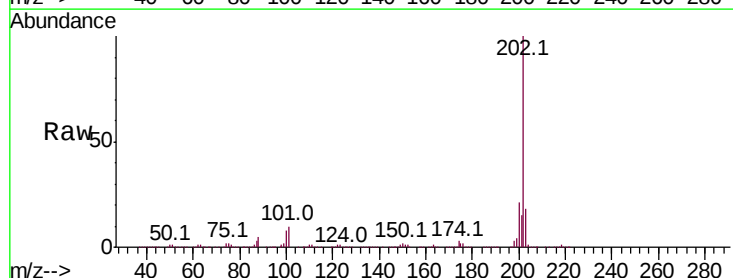
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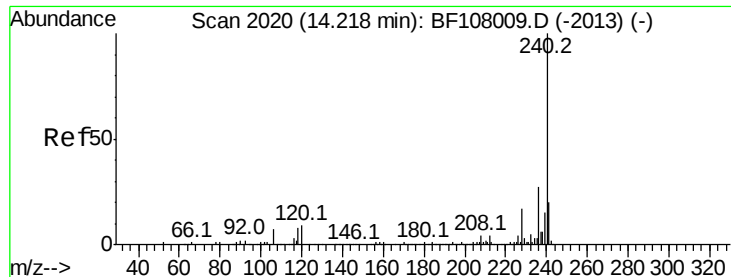
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#74
 Fluoranthene
 Concen: 25.637 ng
 RT: 12.77 min Scan# 1773
 Delta R.T. -0.02 min
 Lab File: BF108348.D
 Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.20 min Scan# 2017

Delta R.T. -0.02 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Instrument :

BNA_F

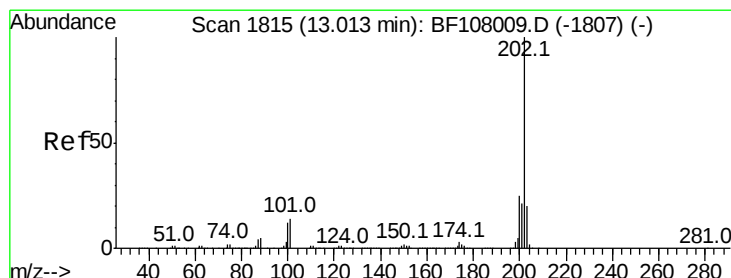
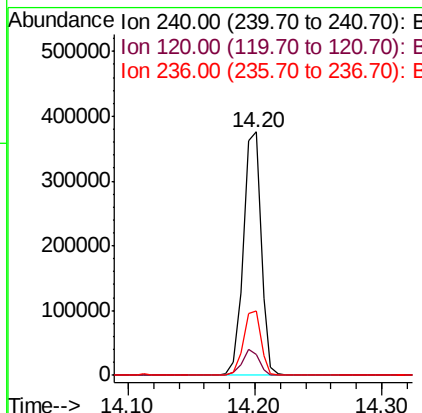
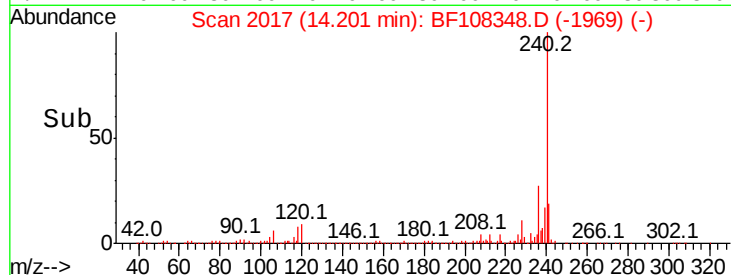
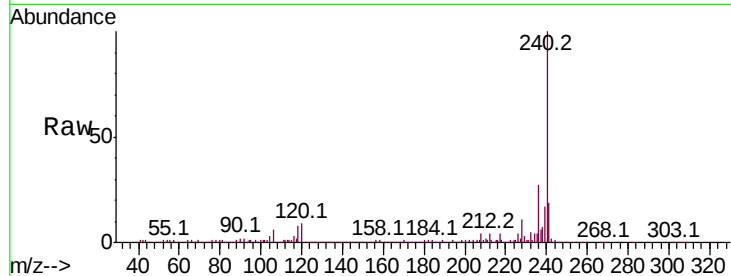
ClientSampleID :

72-11988DL

Tot Ion:	240	Resp:	362866
Ion Ratio	Lower	Upper	
240	100		
120	8.7	9.5	14.3#
236	26.5	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 28.845 ng

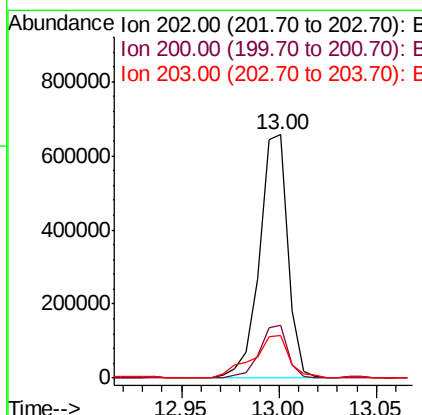
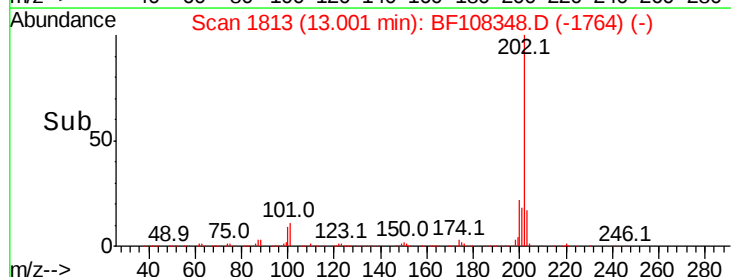
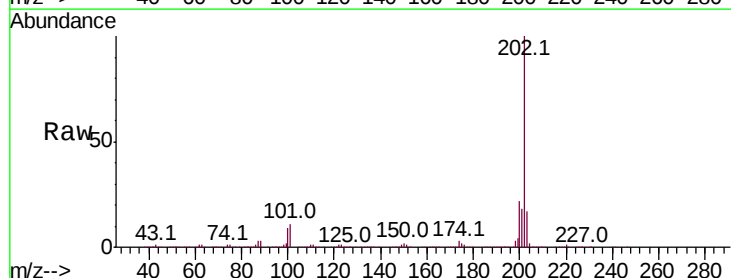
RT: 13.00 min Scan# 1813

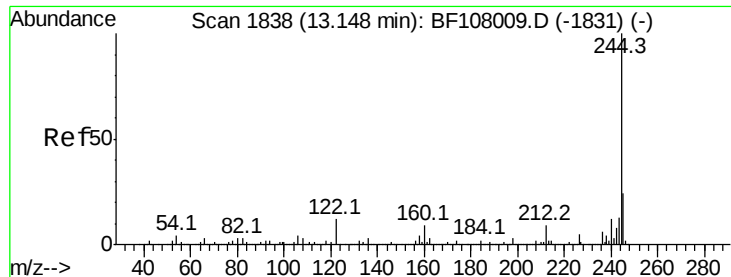
Delta R.T. -0.01 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Tgt Ion:	202	Resp:	662656
Ion Ratio	Lower	Upper	
202	100		
200	21.6	17.4	26.2
203	17.3	14.3	21.5





#78

Terphenyl-d14

Concen: 16.257 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Instrument :

BNA_F

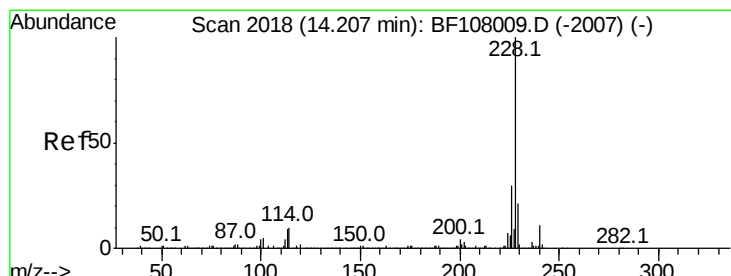
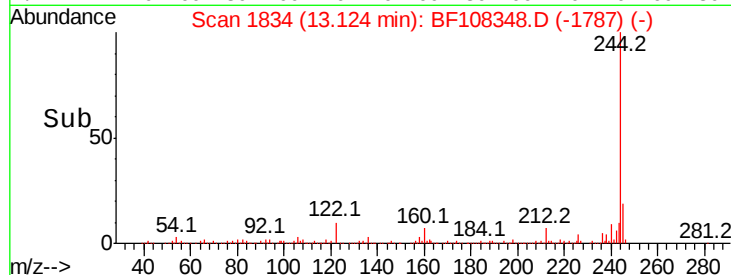
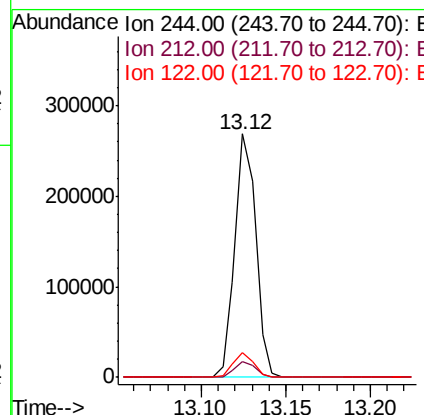
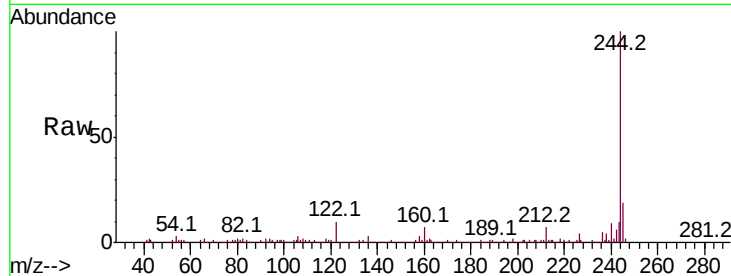
ClientSampled :

72-11988DL

Tot Ion:	244	Resp:	232011
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	10.2	11.0	16.4#

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#80

Benzo(a)anthracene

Concen: 15.847 ng

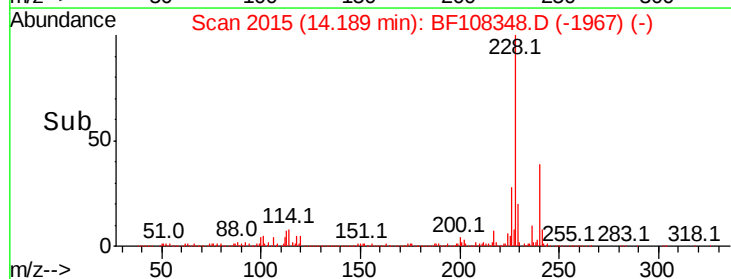
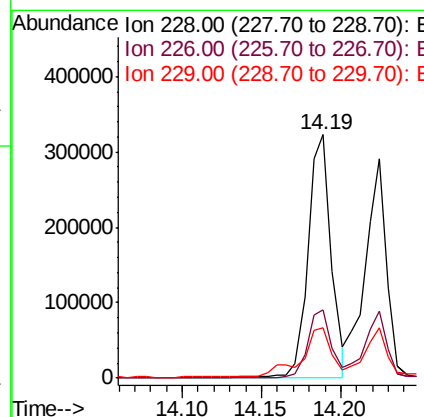
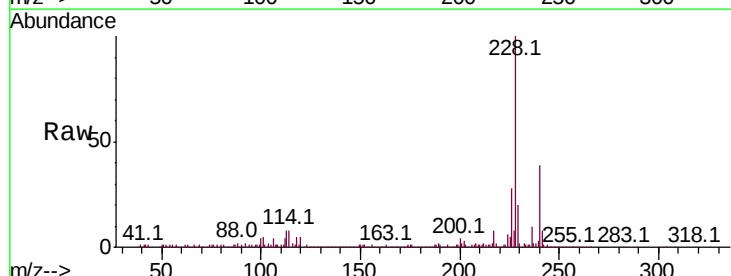
RT: 14.19 min Scan# 2015

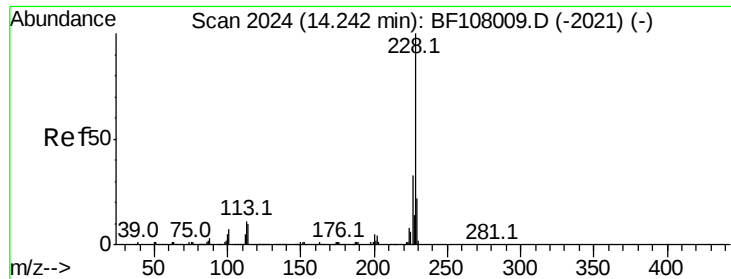
Delta R.T. -0.02 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Tgt Ion:	228	Resp:	330002
Ion Ratio	Lower	Upper	
228	100		
226	28.3	22.6	33.8
229	20.4	15.8	23.6





#82

Chrysene

Concen: 14.454 ng

RT: 14.22 min Scan# 2021

Delta R.T. -0.02 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Instrument :

BNA_F

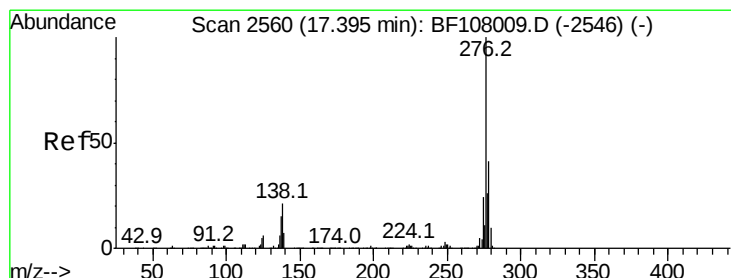
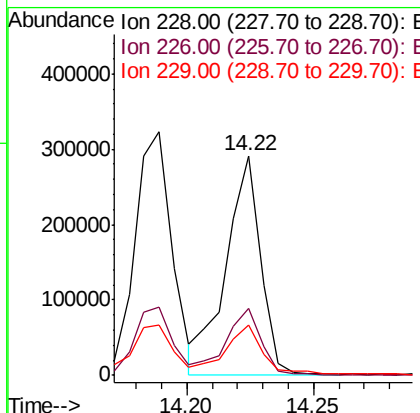
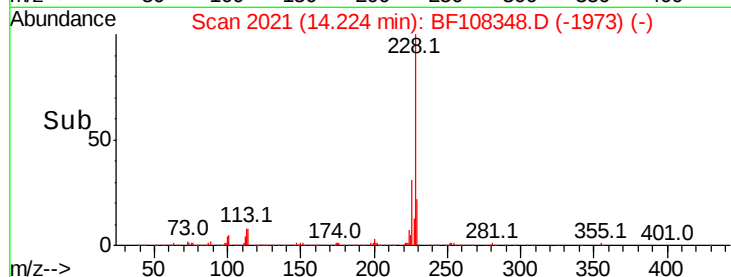
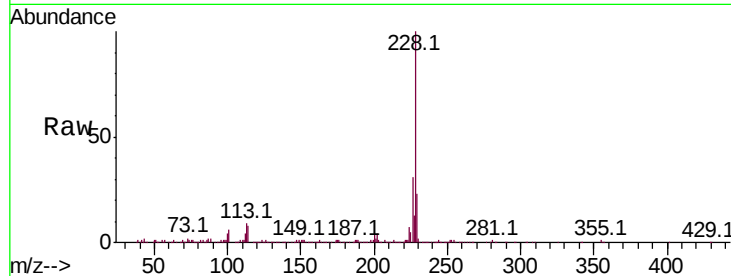
ClientSampleId :

72-11988DL

Tot Ion:	228	Resp:	275953
Ion Ratio	Lower	Upper	
228	100		
226	30.8	25.0	37.6
229	22.9	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 7.862 ng

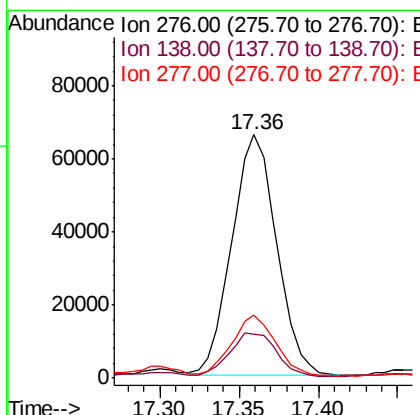
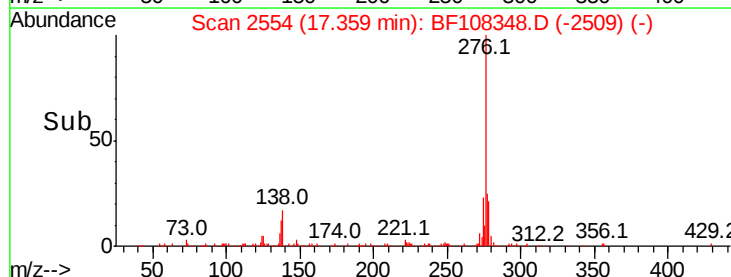
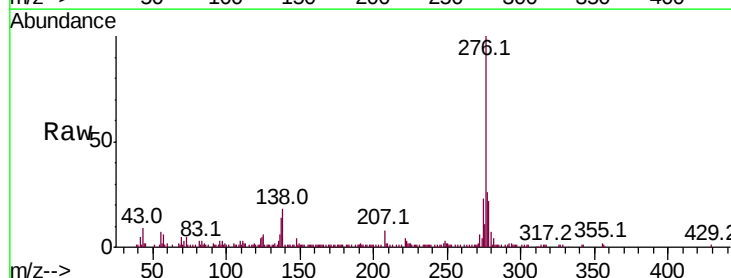
RT: 17.36 min Scan# 2554

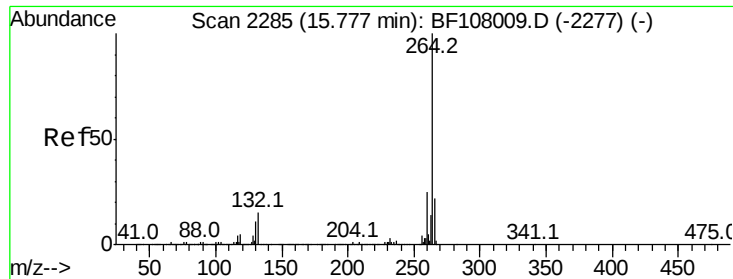
Delta R.T. -0.04 min

Lab File: BF108348.D

Acq: 21 Aug 2018 20:14

Tgt Ion:	276	Resp:	130062
Ion Ratio	Lower	Upper	
276	100		
138	19.2	25.0	37.6#
277	24.7	20.1	30.1





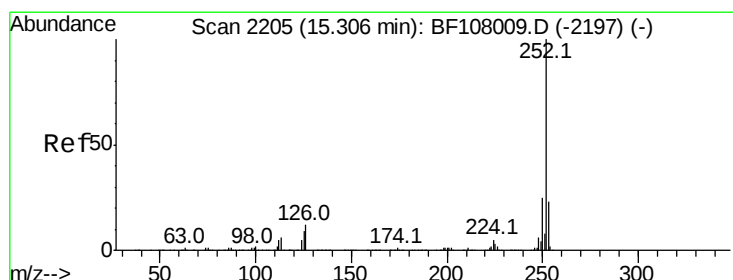
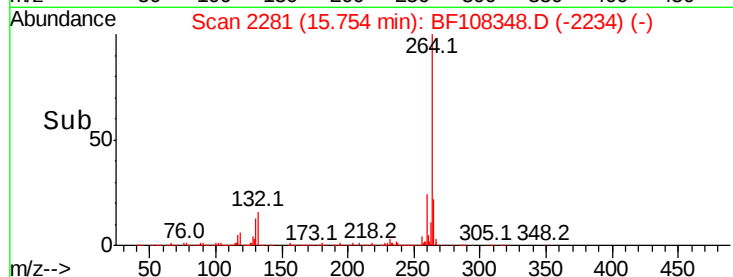
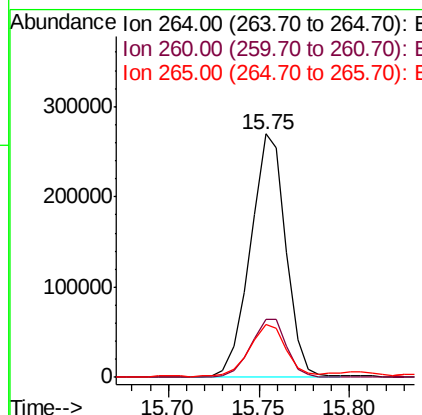
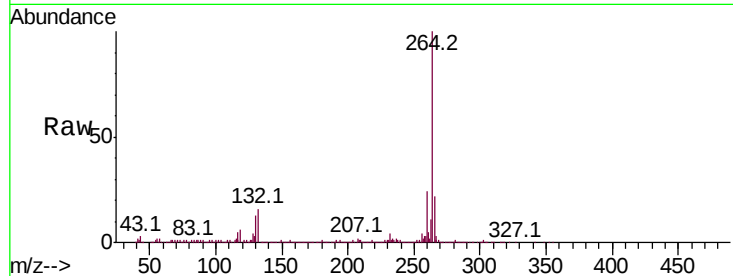
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.75 min Scan# 2281
Delta R.T. -0.02 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Instrument :
BNA_F
ClientSampleId :
72-11988DL

Tot Ion:	264	Resp:	363524
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.2	28.8
265	21.8	17.5	26.3

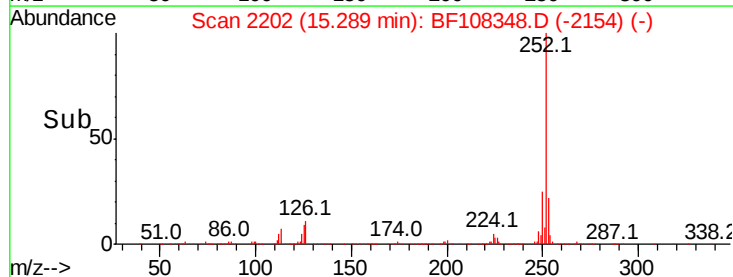
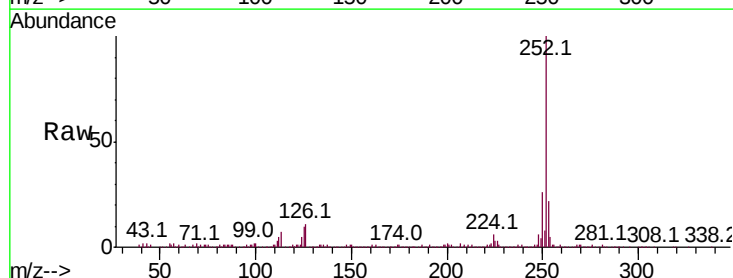
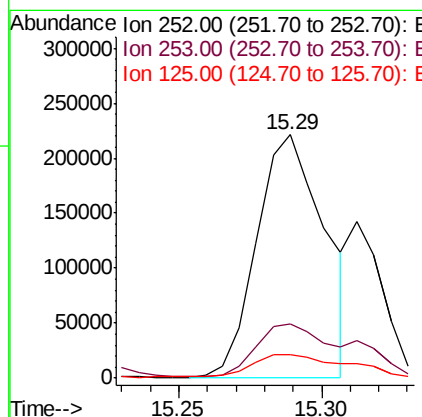
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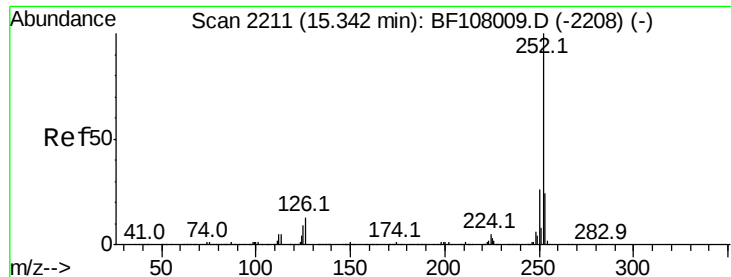
Sohil
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#87
Benzo(b)fluoranthene
Concen: 16.785 ng m
RT: 15.29 min Scan# 2202
Delta R.T. -0.02 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Tgt Ion:	252	Resp:	364605
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.0	25.6
125	9.8	9.0	13.6





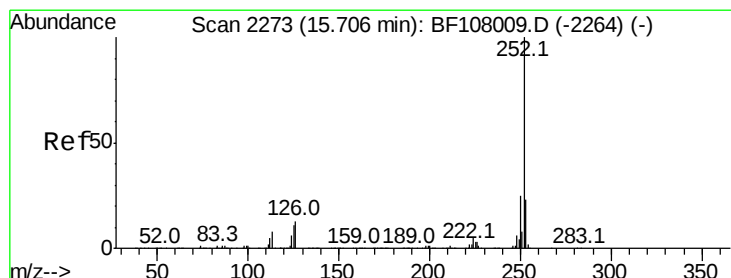
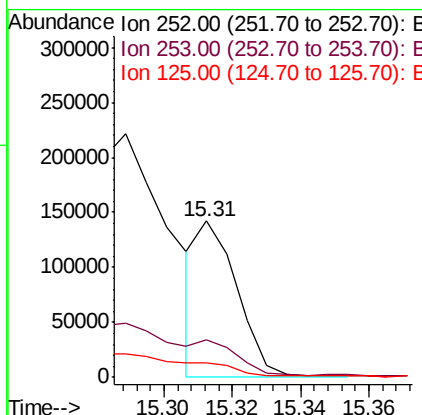
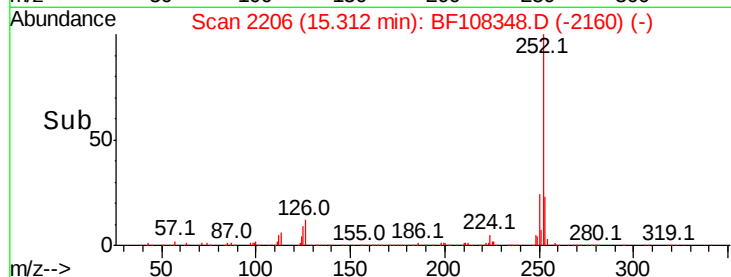
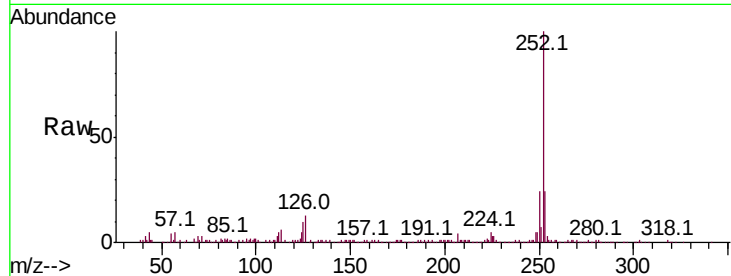
#88
Benzo(k)fluoranthene
Concen: 5.768 ng/mL
RT: 15.31 min Scan# 2206
Delta R.T. -0.03 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Instrument :
BNA_F
ClientSampleID :
72-11988DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.9	26.9
125	9.6	10.2	15.2

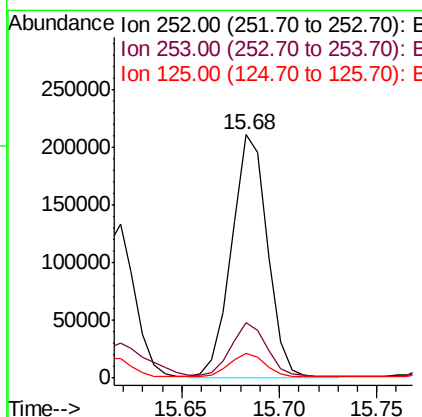
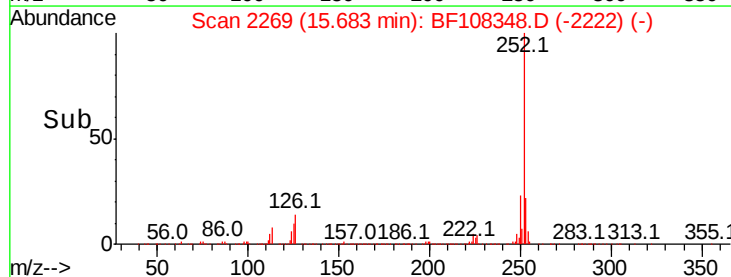
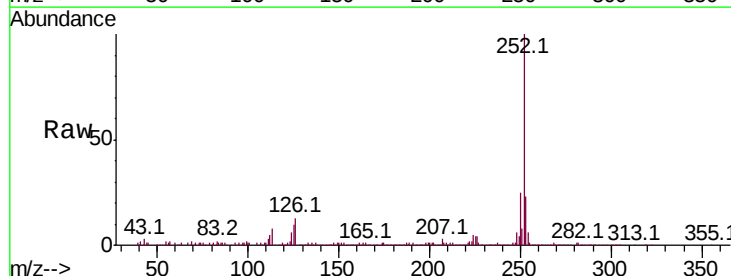
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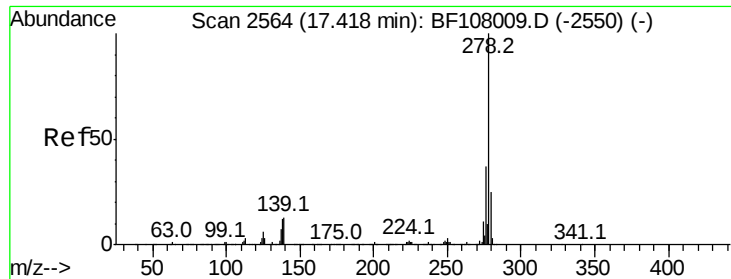
Sohil
8/22/2018 4:03:00 PM



#89
Benzo(a)pyrene
Concen: 13.776 ng/mL
RT: 15.68 min Scan# 2269
Delta R.T. -0.02 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	10.3	9.8	14.6





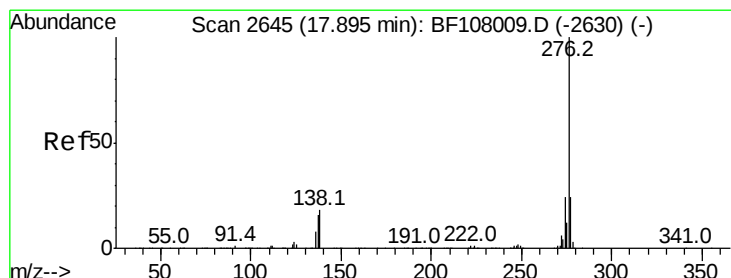
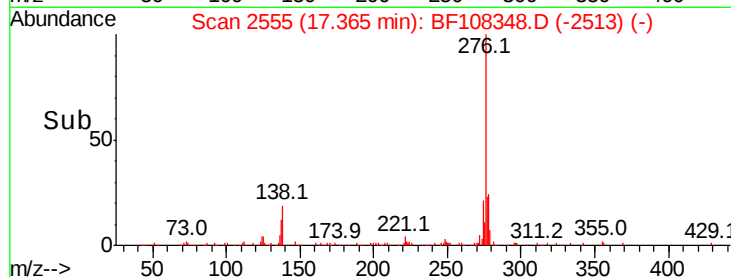
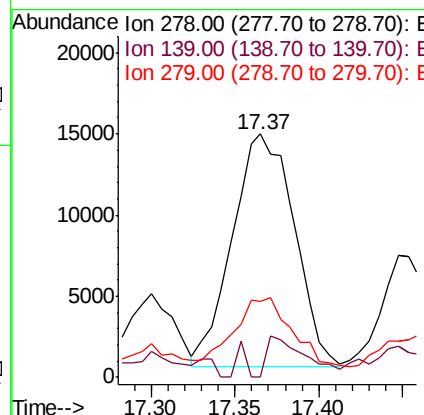
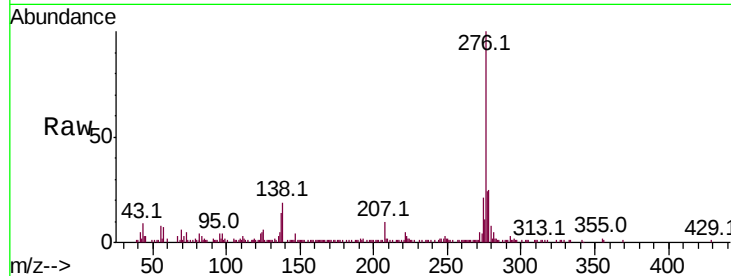
#90
Dibenzo(a,h)anthracene
Concen: 2.277 ng/mL
RT: 17.37 min Scan# 2555
Delta R.T. -0.05 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Instrument :
BNA_F
ClientSampled :
72-11988DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	31.2	19.0	28.4#

Manual Integrations
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8/22/2018 4:03:00 PM



#91
Benzo(g,h,i)perylene
Concen: 6.999 ng/mL
RT: 17.85 min Scan# 2638
Delta R.T. -0.04 min
Lab File: BF108348.D
Acq: 21 Aug 2018 20:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	17.9	26.9
138	17.5	21.8	32.8#

