

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121318\
 Data File : BF111401.D
 Acq On : 14 Dec 2018 6:40
 Operator : JU/SJ
 Sample : J6214-19DL 100X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 SB-9(0-2)DL

Manual Integrations
 APPROVED

Sohil
 12/14/2018 12:54:17 PM

Quant Time: Dec 14 07:30:59 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 12 13:16:52 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.79	152	225425	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	888235	20.00	ng	0.00
39) Acenaphthene-d10	9.83	164	421932	20.00	ng	0.00
64) Phenanthrene-d10	11.31	188	611483	20.00	ng	0.00
76) Chrysene-d12	13.95	240	433440	20.00	ng	0.00
87) Perylene-d12	15.39	264	338645	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	8994	0.67	ng	0.00
7) Phenol-d6	6.43	99	12915	0.72	ng	0.00
23) Nitrobenzene-d5	7.35	82	6315	0.40	ng	-0.01
42) 2,4,6-Tribromophenol	10.62	330	1848	0.50	ng	0.00
45) 2-Fluorobiphenyl	9.15	172	18162	0.69	ng	0.00
79) Terphenyl-d14	12.89	244	20100	1.02	ng	-0.01

Target Compounds					Qvalue	
31) Naphthalene	8.10	128	84918	2.052	ng	96
52) Acenaphthene	9.86	154	165844	6.528	ng	95
55) Dibenzofuran	10.03	168	97964	2.671	ng	93
58) Fluorene	10.37	166	137642	5.246	ng	98
71) Phenanthrene	11.34	178	1357841	42.961	ng	94
72) Anthracene	11.39	178	404345	12.564	ng	94
73) Carbazole	11.54	167	148701	4.469	ng	93
75) Fluoranthene	12.53	202	1660830	53.827	ng	99
78) Pyrene	12.75	202	1345030	40.208	ng	98
81) Benzo(a)anthracene	13.94	228	568407	23.438	ng	99
83) Chrysene	13.97	228	513654	20.760	ng	97
86) Indeno(1,2,3-cd)pyrene	16.79	276	196332m	10.145	ng	
88) Benzo(b)fluoranthene	14.97	252	487253m	25.303	ng	
89) Benzo(k)fluoranthene	14.99	252	192622m	10.021	ng	
90) Benzo(a)pyrene	15.32	252	332021	18.518	ng	99
91) Dibenzo(a,h)anthracene	16.80	278	51988	3.485	ng	95
92) Benzo(g,h,i)perylene	17.22	276	186602	12.512	ng	98

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

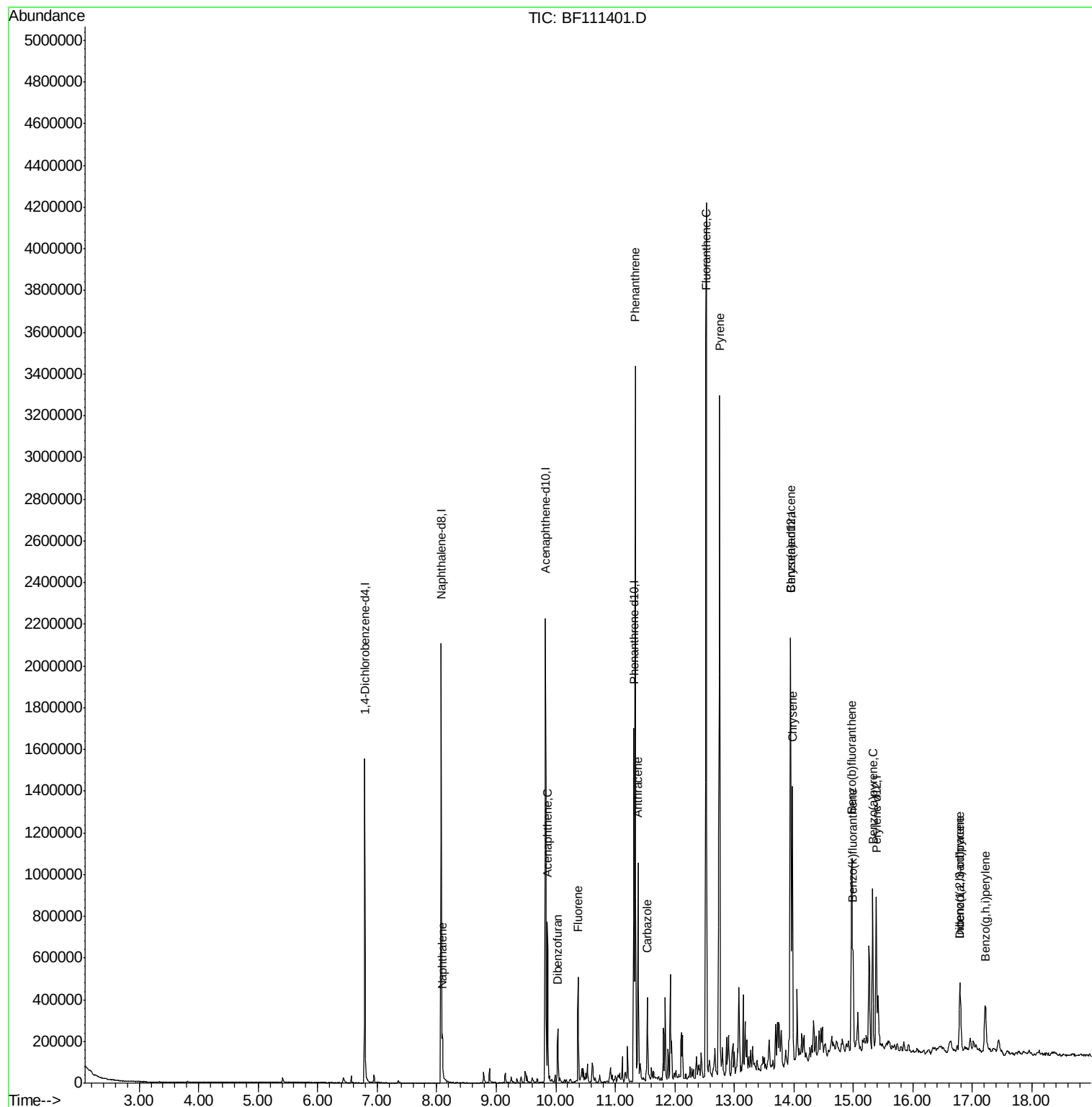
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121318\
Data File : BF111401.D
Acq On : 14 Dec 2018 6:40
Operator : JU/SJ
Sample : J6214-19DL 100X
Misc :
ALS Vial : 29 Sample Multiplier: 1

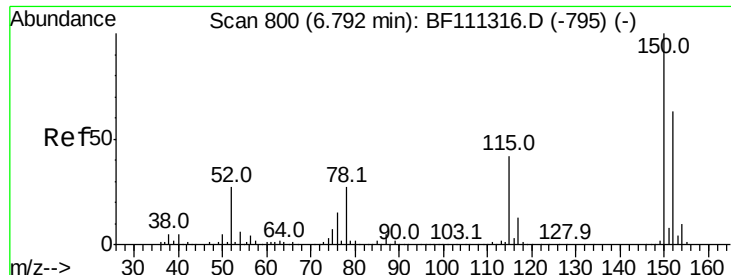
Instrument :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

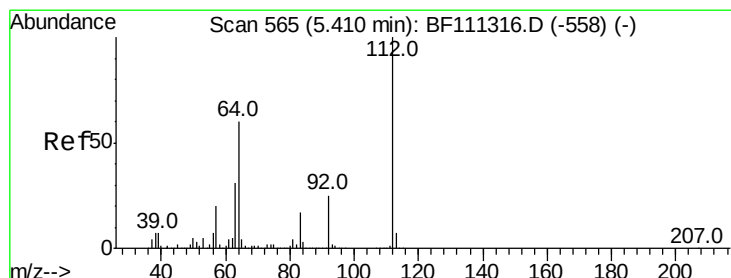
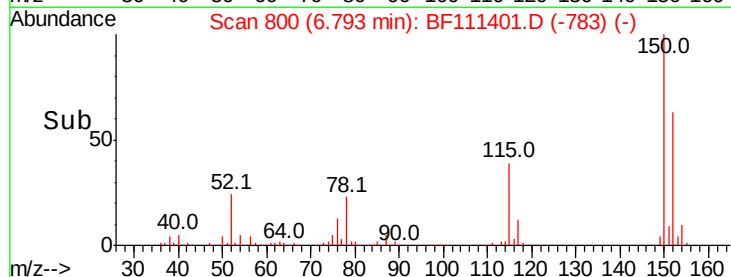
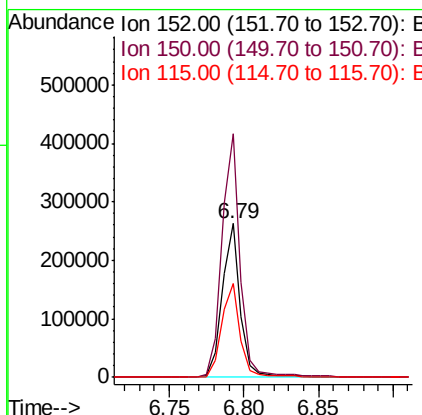
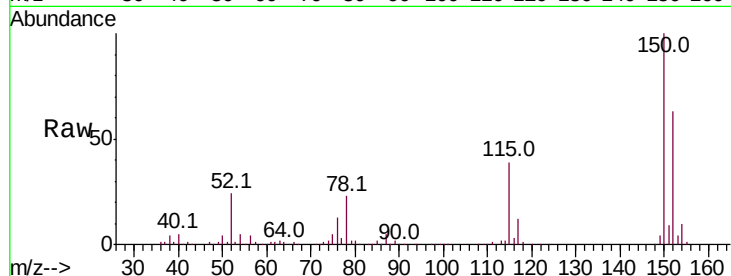
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.79 min Scan# 800
Delta R.T. 0.00 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.6	126.6	189.8
115	61.2	50.7	76.1

Manual Integrations
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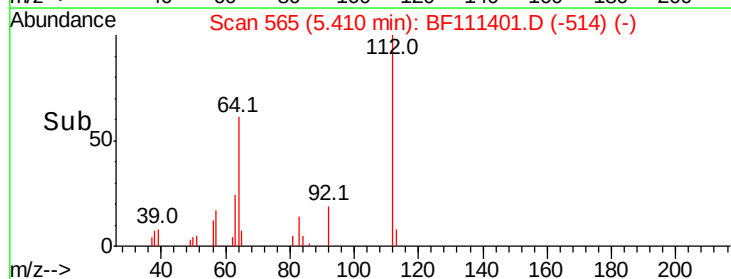
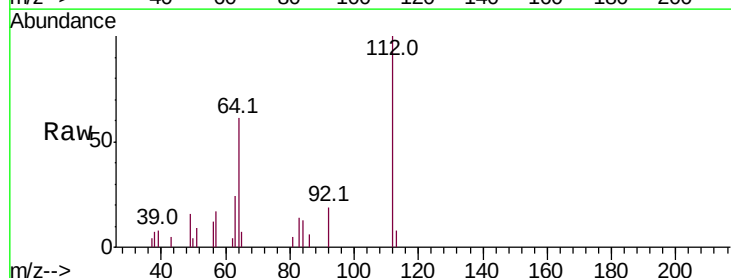
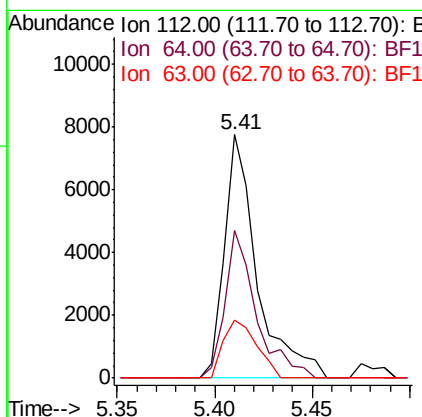
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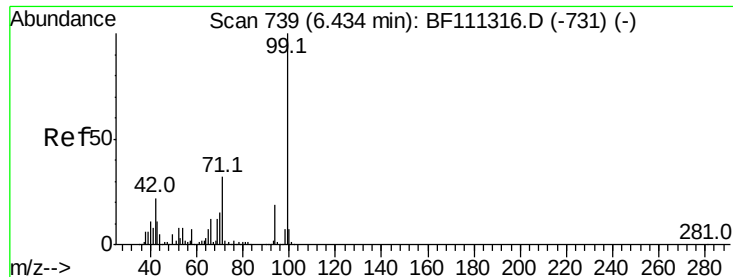


#5

2-Fluorophenol
Concen: 0.675 ng
RT: 5.41 min Scan# 565
Delta R.T. 0.00 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.8	51.8	77.6
63	24.0	26.8	40.2





#7

Phenol-d6

Concen: 0.719 ng

RT: 6.43 min Scan# 739

Delta R.T. 0.00 min

Lab File: BF111401.D

Acq: 14 Dec 2018 6:40

Instrument :

BNA_F

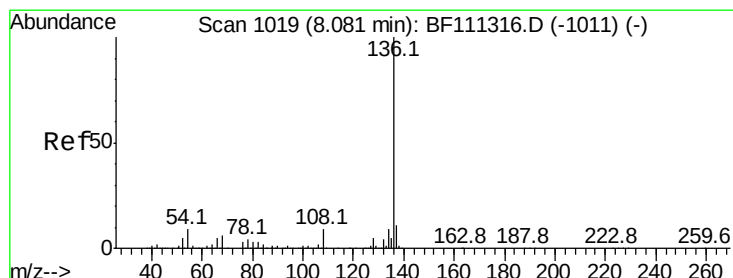
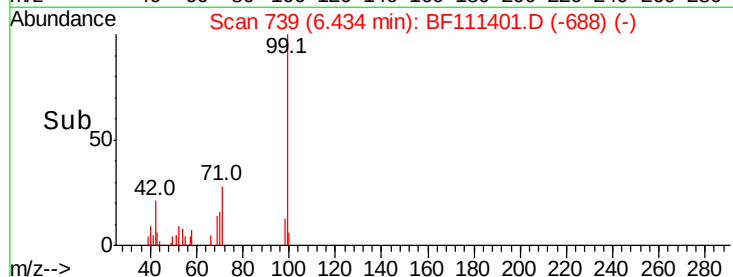
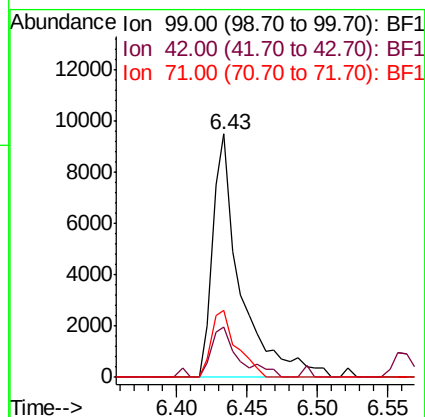
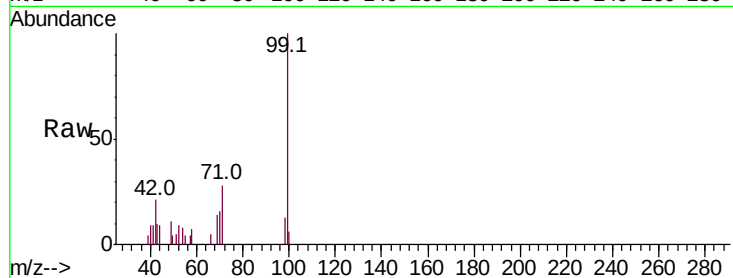
ClientSampled :

SB-9(0-2)DL

Tot Ion:	99	Resp:	12915
Ion Ratio	Lower	Upper	
99	100		
42	20.5	17.4	26.0
71	27.7	26.1	39.1

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#21

Naphthalene-d8

Concen: 20.000 ng

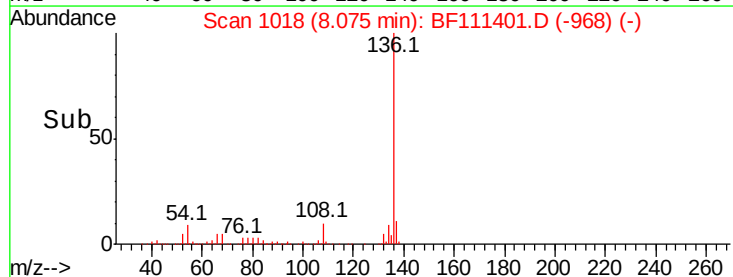
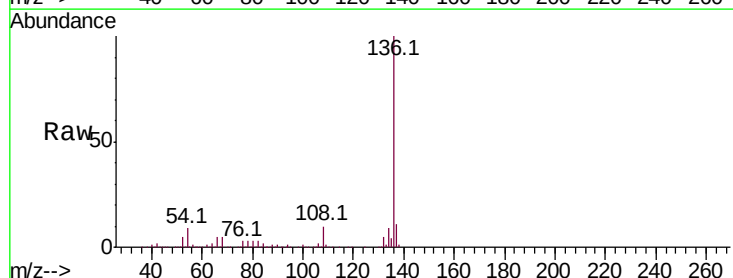
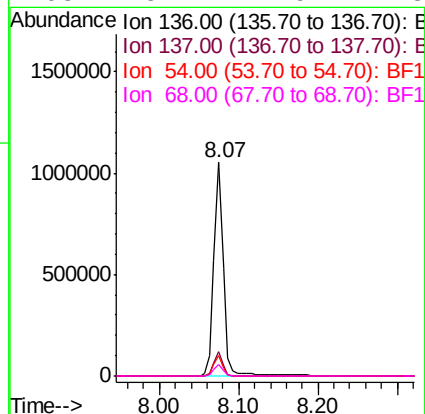
RT: 8.07 min Scan# 1018

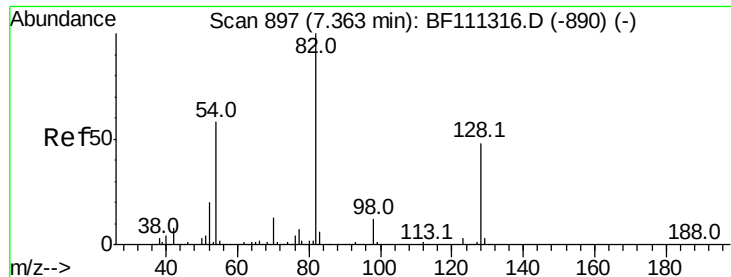
Delta R.T. -0.01 min

Lab File: BF111401.D

Acq: 14 Dec 2018 6:40

Tgt Ion:	136	Resp:	888235
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.1	13.7
54	9.3	7.7	11.5
68	5.4	4.9	7.3





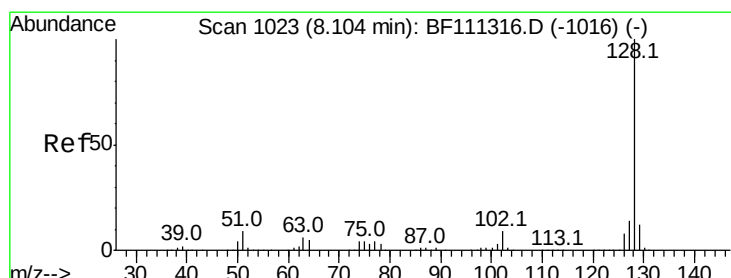
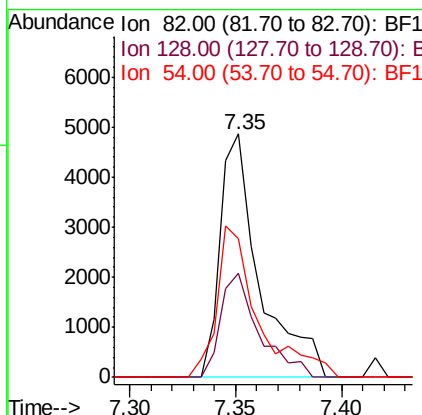
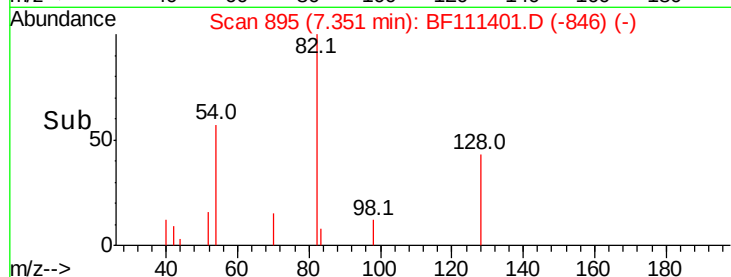
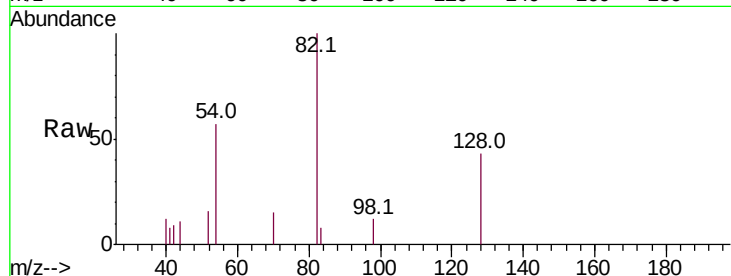
#23
Nitrobenzene-d5
Concen: 0.401 ng
RT: 7.35 min Scan# 895
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	37.4	56.2
54	57.1	47.6	71.4

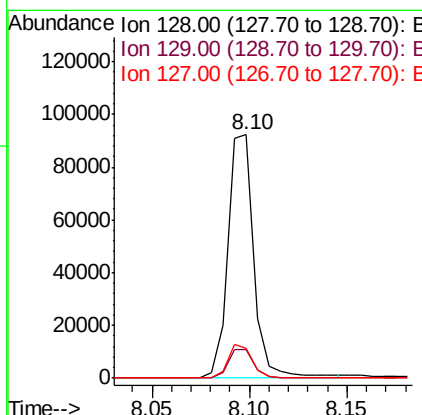
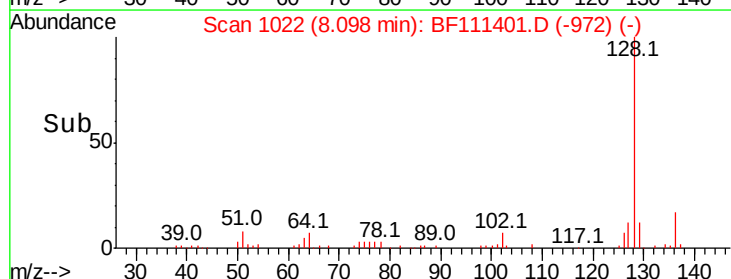
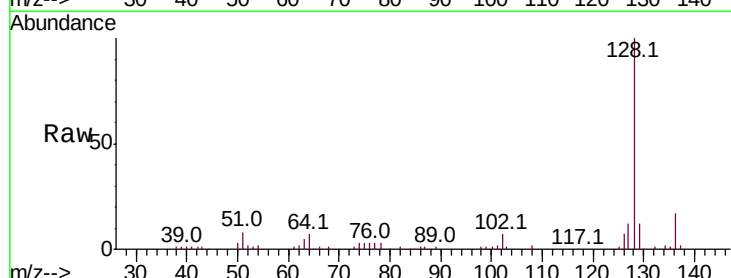
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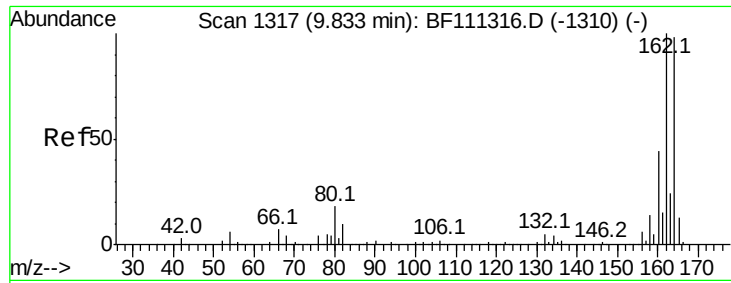
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#31
Naphthalene
Concen: 2.052 ng
RT: 8.10 min Scan# 1022
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.8
127	12.3	12.0	18.0





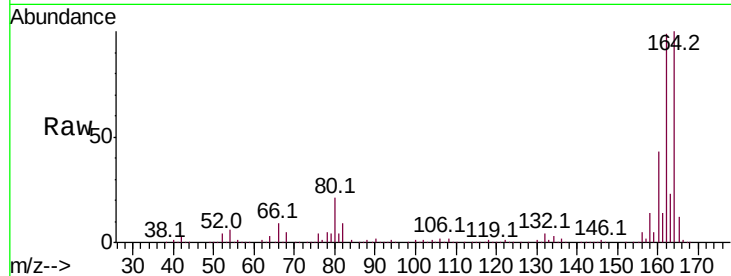
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)DL

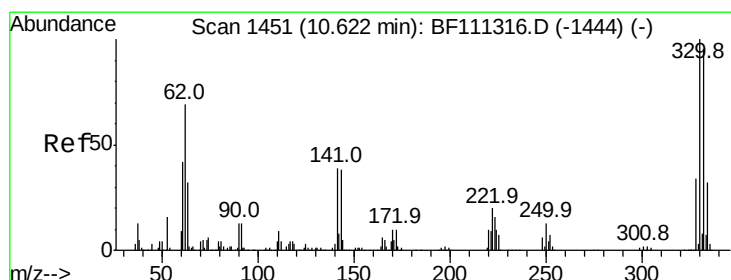
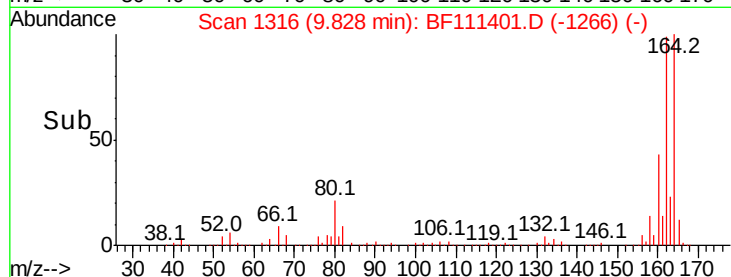
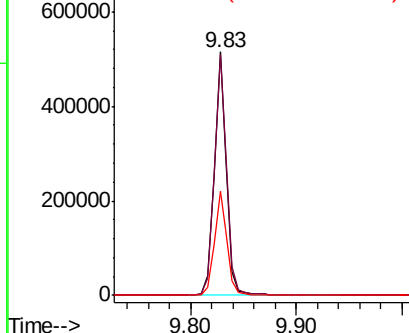
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	99.1	81.4	122.0	
160	42.6	35.7	53.5	

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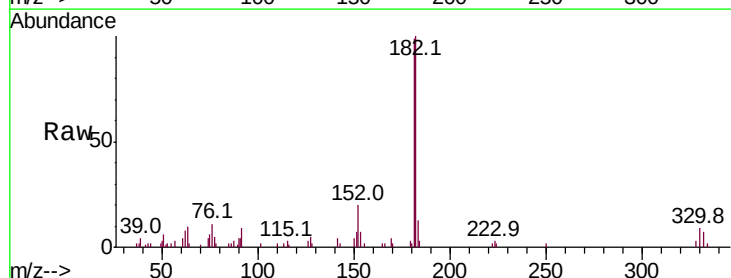


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

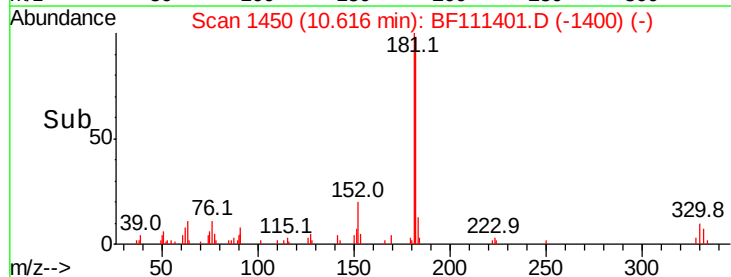
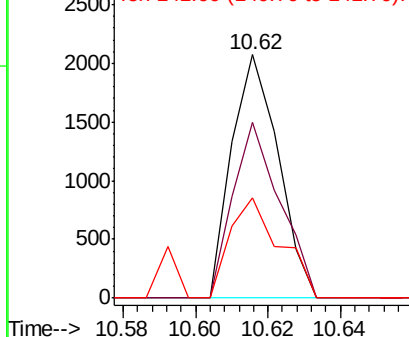


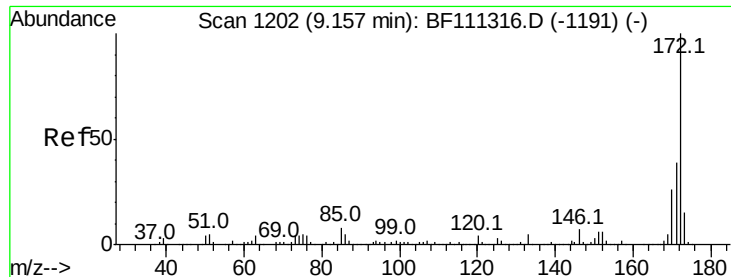
#42
2,4,6-Tribromophenol
Concen: 0.497 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	73.0	76.0	114.0	#
141	44.5	31.0	46.6	



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





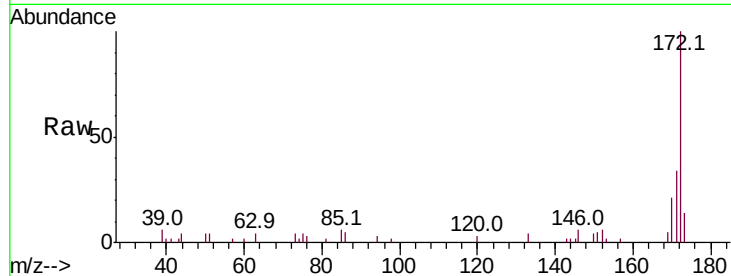
#45
2-Fluorobiphenyl
Concen: 0.691 ng
RT: 9.15 min Scan# 1201
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)DL

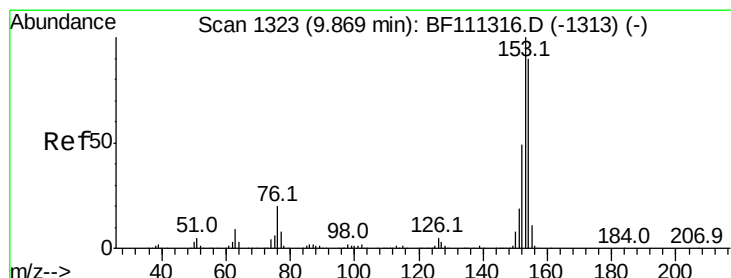
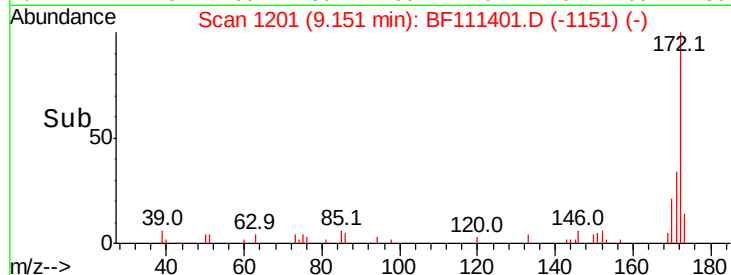
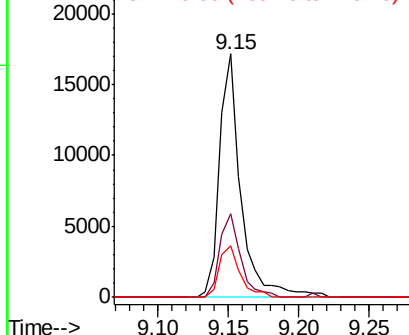
Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	34.2	33.0	49.4
170	21.1	22.3	33.5#

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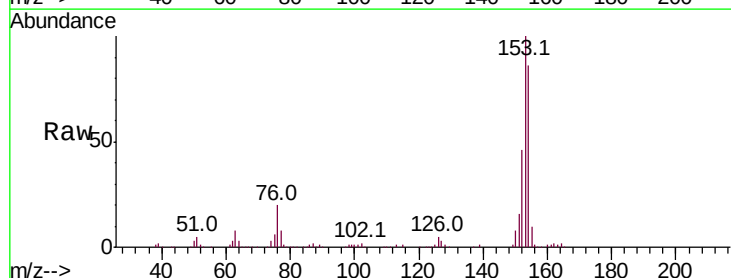


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

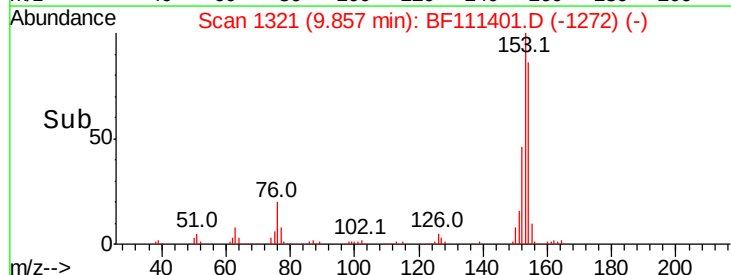
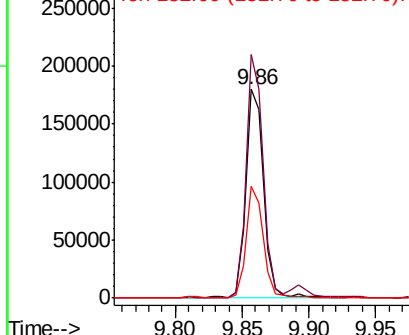


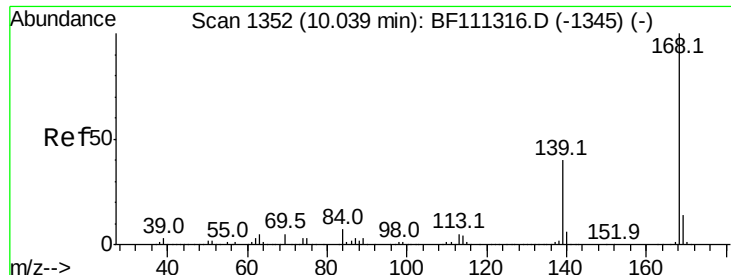
#52
Acenaphthene
Concen: 6.528 ng
RT: 9.86 min Scan# 1321
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	116.8	87.8	131.8
152	53.6	43.4	65.2



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





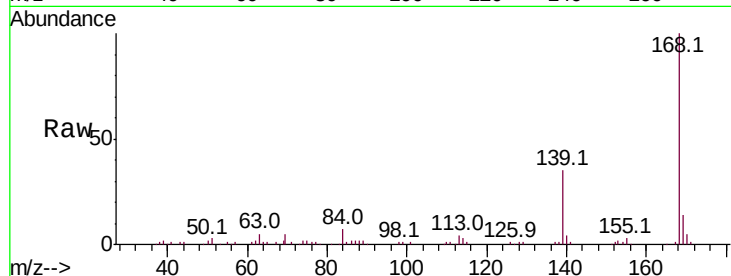
#55
Dibenzenofuran
Concen: 2.671 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
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SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	35.5	32.6	49.0
169	13.8	11.8	17.6

Manual Integrations
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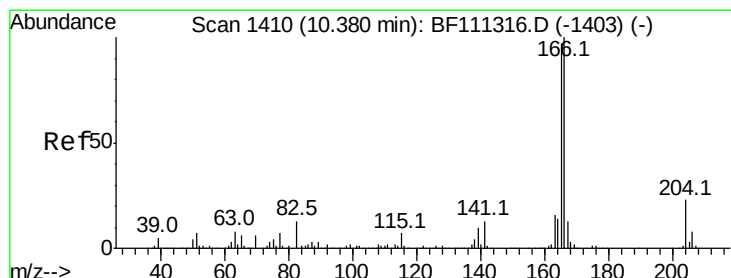
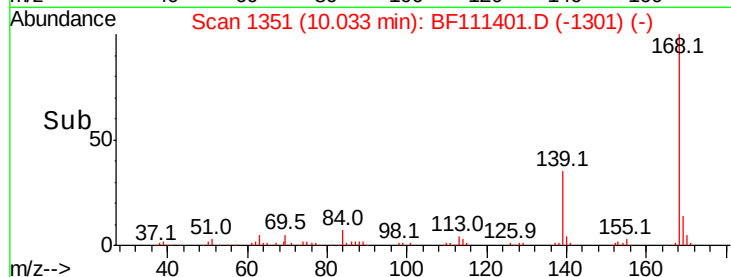
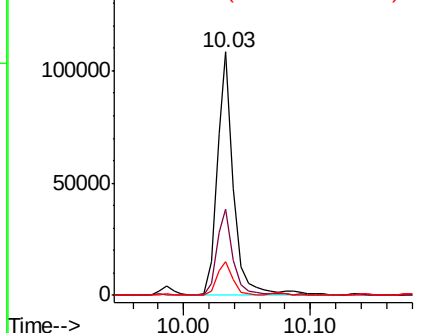


Abundance

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



#58
Fluorene
Concen: 5.246 ng
RT: 10.37 min Scan# 1409
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

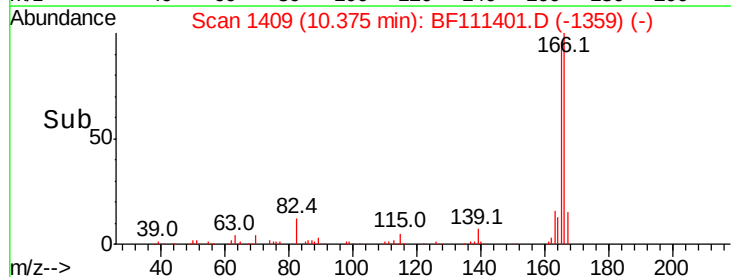
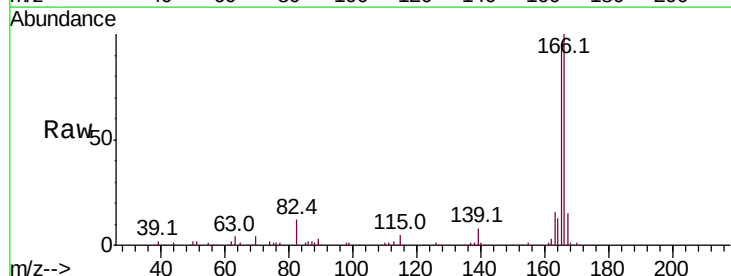
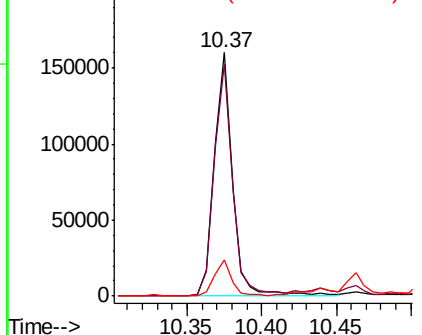
Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.6	78.4	117.6
167	15.0	11.2	16.8

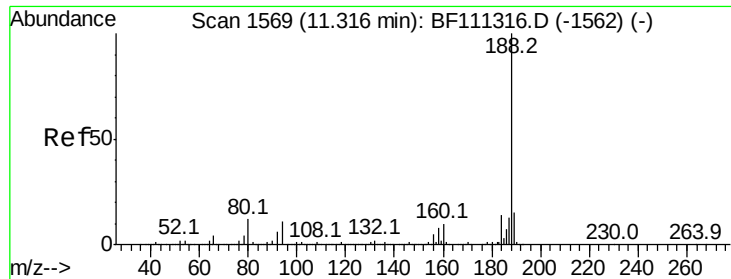
Abundance

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





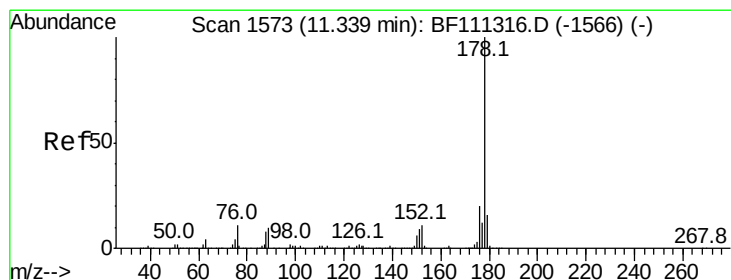
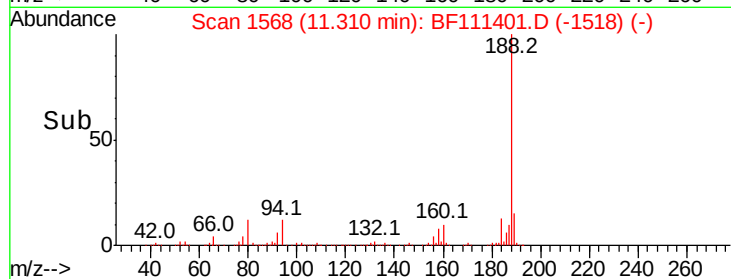
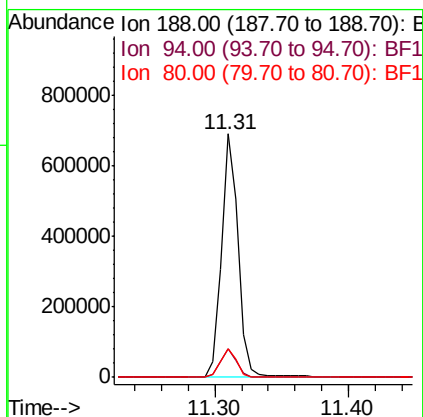
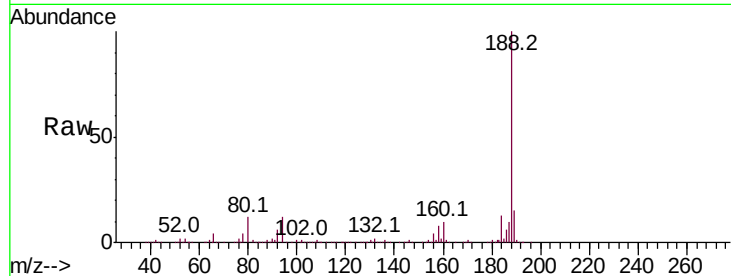
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.31 min Scan# 1568
 Delta R.T. -0.01 min
 Lab File: BF111401.D
 Acq: 14 Dec 2018 6:40

Instrument :
 BNA_F
 ClientSampleId :
 SB-9(0-2)DL

Tot Ion	Ratio	Resp	Lower	Upper
188	100	611483		
94	11.5		9.6	14.4
80	11.6		9.8	14.6

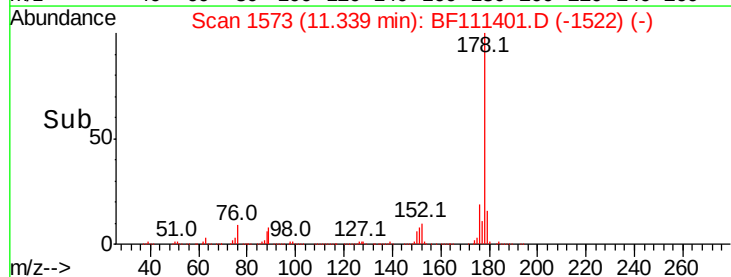
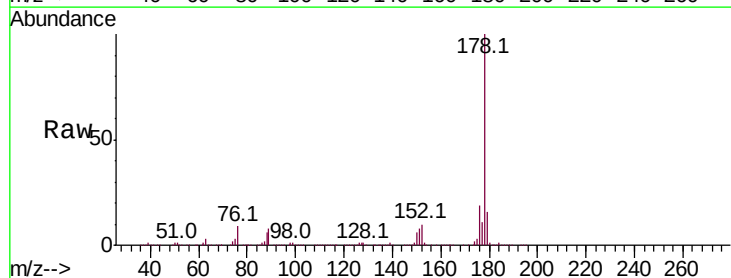
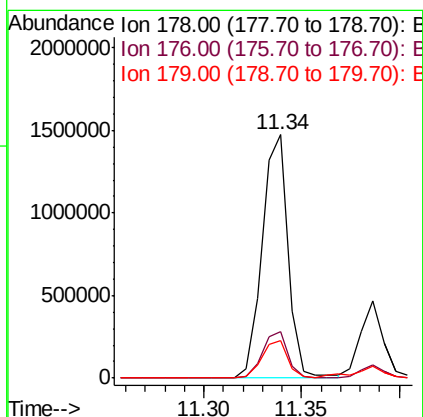
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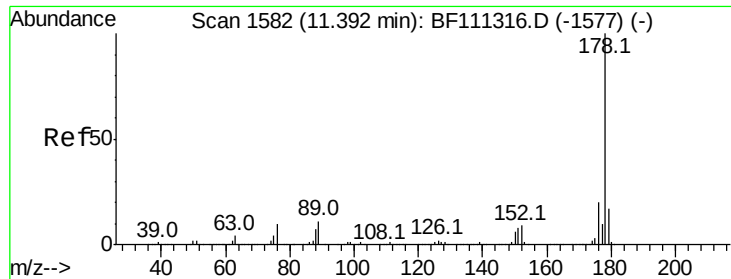
Sohil
 12/14/2018 12:54:17 PM



#71
 Phenanthrene
 Concen: 42.961 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: BF111401.D
 Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1357841		
176	19.3		18.1	27.1
179	15.5		14.0	21.0





#72

Anthracene

Concen: 12.564 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF111401.D

Acq: 14 Dec 2018 6:40

Instrument :

BNA_F

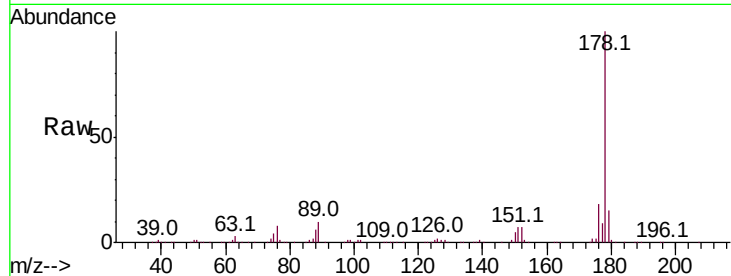
ClientSampleId :

SB-9(0-2)DL

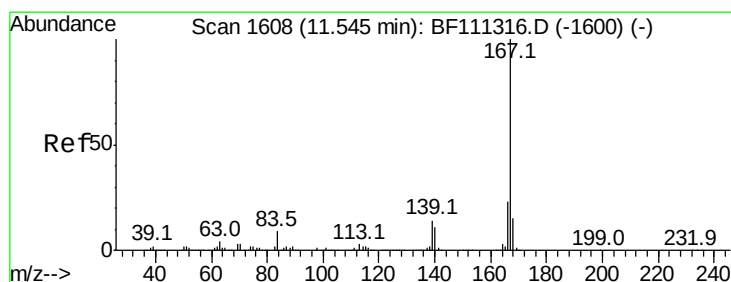
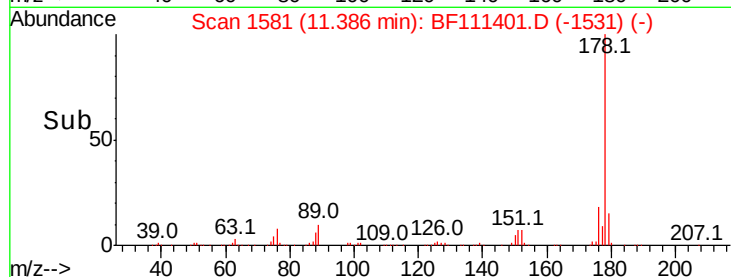
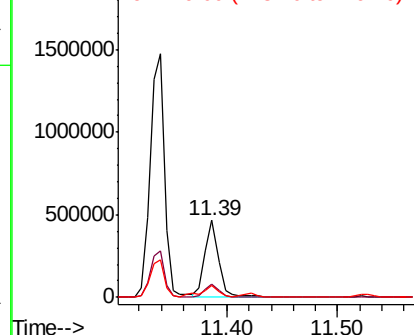
Tot Ion:	178	Resp:	404345
Ion Ratio	Lower	Upper	
178	100		
176	17.7	17.2	25.8
179	15.4	13.8	20.8

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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



#73

Carbazole

Concen: 4.469 ng

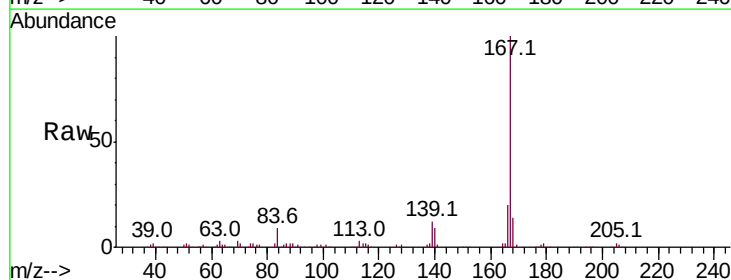
RT: 11.54 min Scan# 1607

Delta R.T. -0.01 min

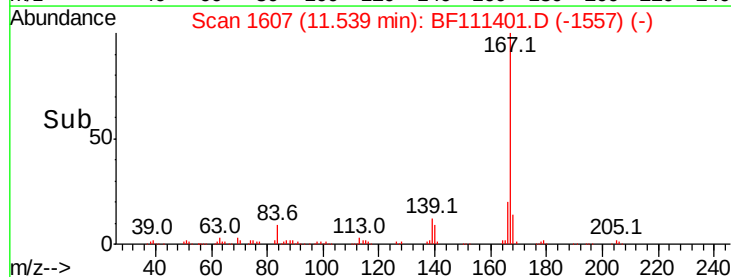
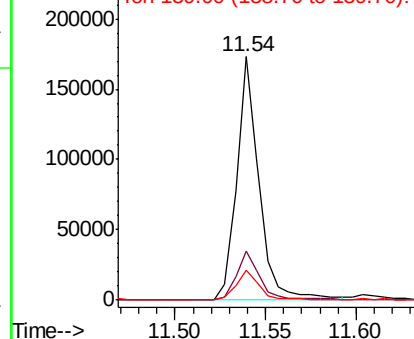
Lab File: BF111401.D

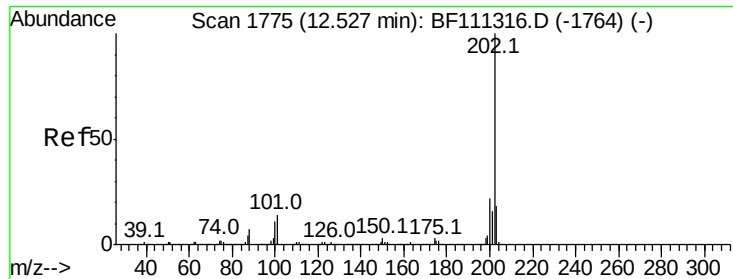
Acq: 14 Dec 2018 6:40

Tgt Ion:	167	Resp:	148701
Ion Ratio	Lower	Upper	
167	100		
166	20.4	19.3	28.9
139	12.2	11.9	17.9



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





#75

Fluoranthene

Concen: 53.827 ng

RT: 12.53 min Scan# 1775

Delta R.T. 0.00 min

Lab File: BF111401.D

Acq: 14 Dec 2018 6:40

Instrument :

BNA_F

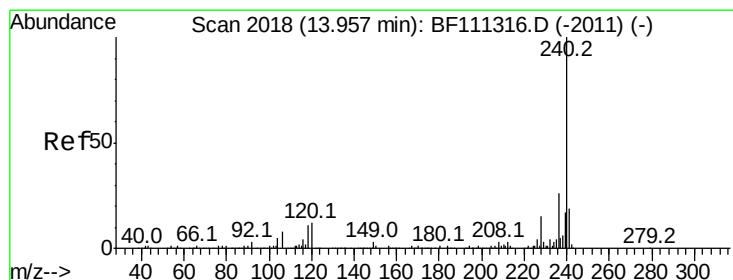
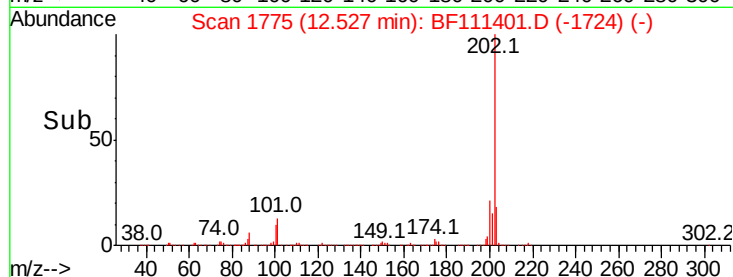
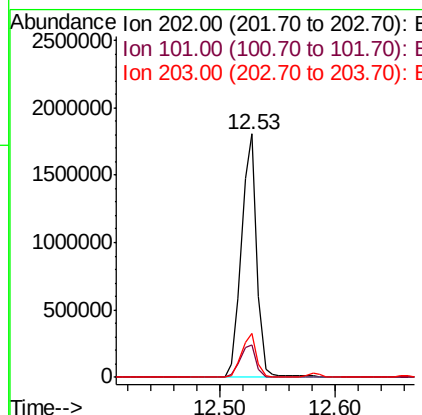
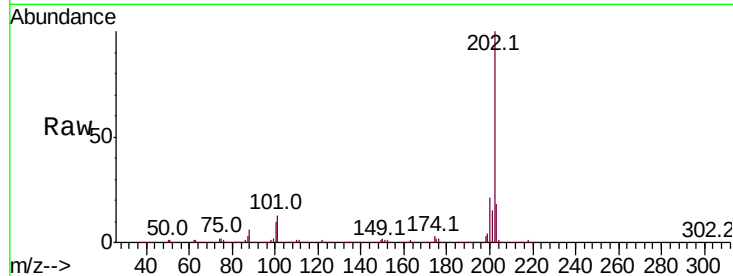
ClientSampled :

SB-9(0-2)DL

Tot Ion:	202	Resp:	1660830
Ion Ratio	Lower	Upper	
202	100		
101	13.3	0.0	33.8
203	18.1	0.0	38.6

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#76

Chrysene-d12

Concen: 20.000 ng

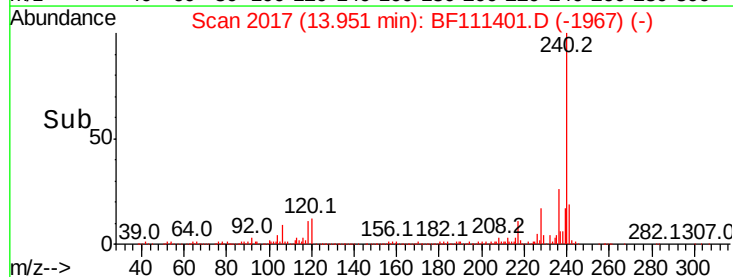
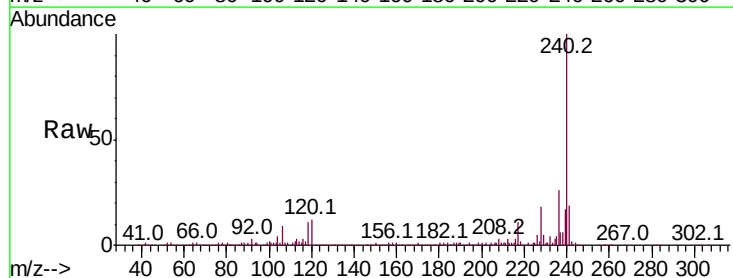
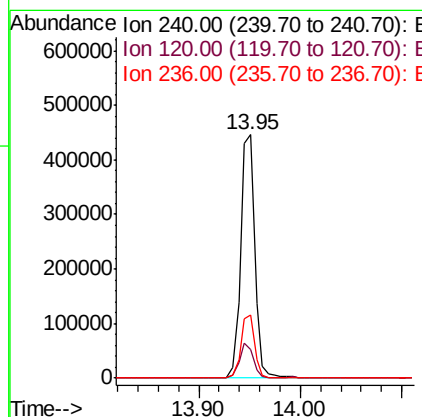
RT: 13.95 min Scan# 2017

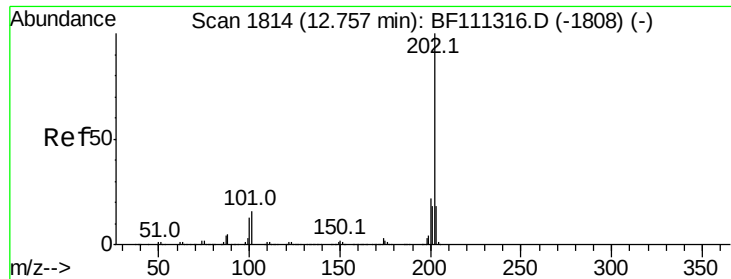
Delta R.T. -0.01 min

Lab File: BF111401.D

Acq: 14 Dec 2018 6:40

Tgt Ion:	240	Resp:	433440
Ion Ratio	Lower	Upper	
240	100		
120	11.7	12.2	18.2#
236	25.7	20.2	30.2





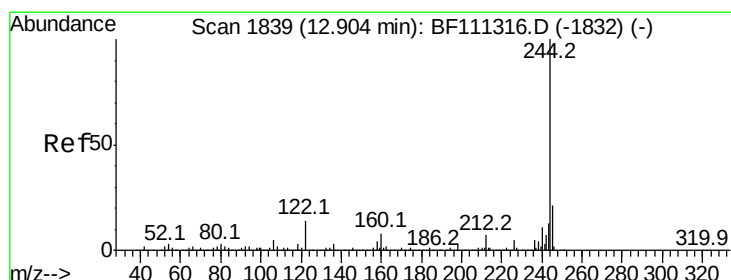
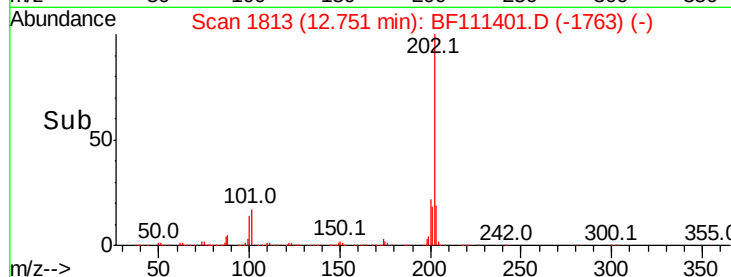
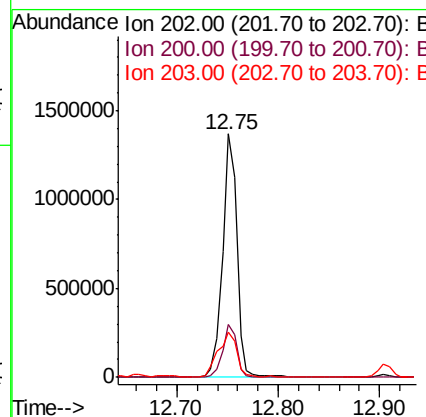
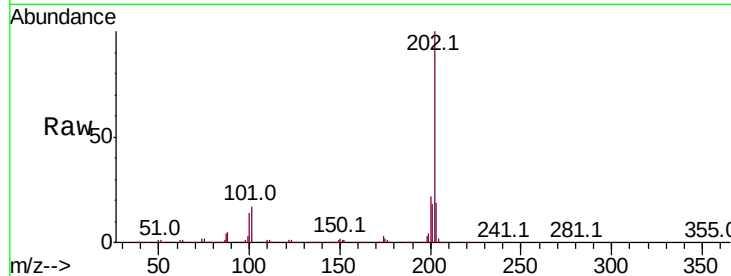
#78
Pvrene
Concen: 40.208 ng
RT: 12.75 min Scan# 1813
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.8	19.0	28.4
203	18.7	15.2	22.8

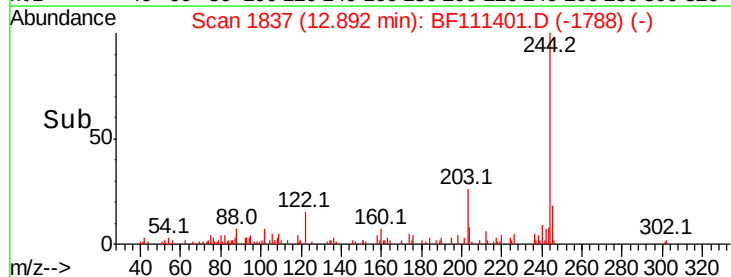
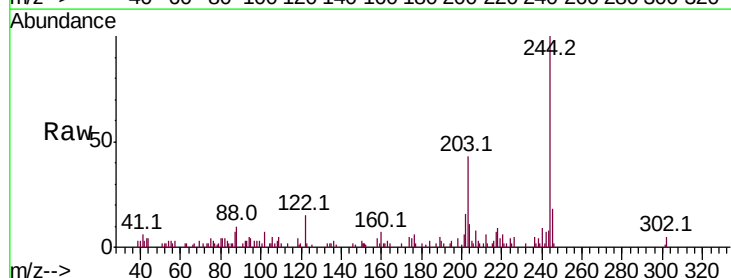
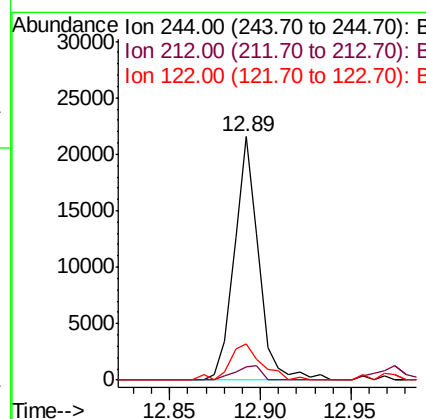
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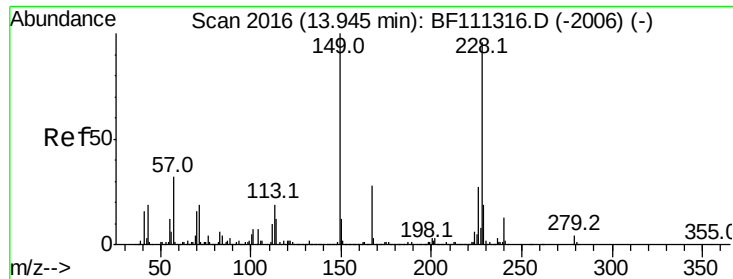
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#79
Terphenyl-d14
Concen: 1.021 ng
RT: 12.89 min Scan# 1837
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.5	5.7	8.5#
122	14.7	13.1	19.7





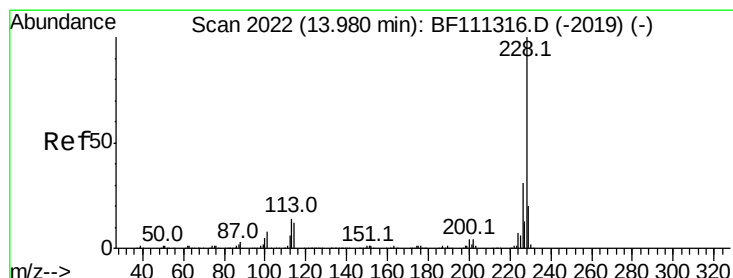
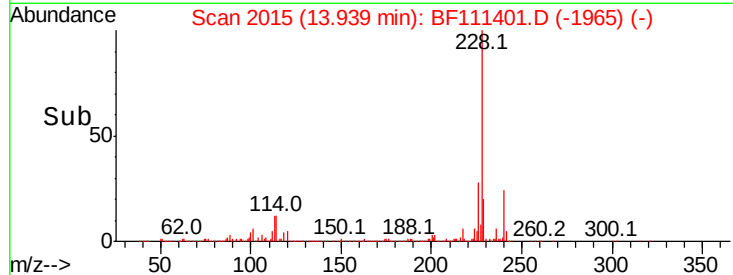
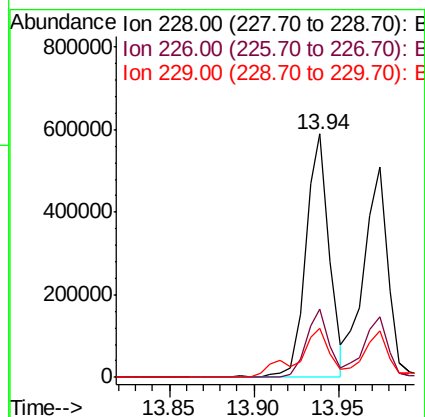
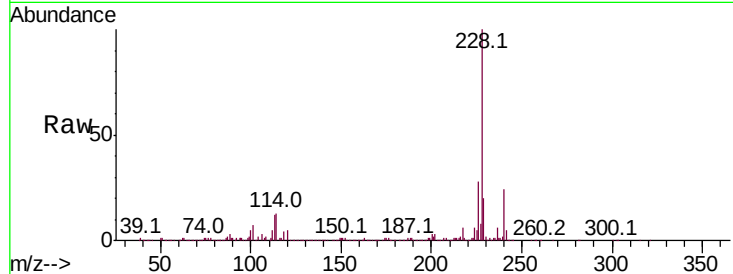
#81
Benzo(a)anthracene
Concen: 23.438 ng
RT: 13.94 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	34.0
229	20.0	16.3	24.5

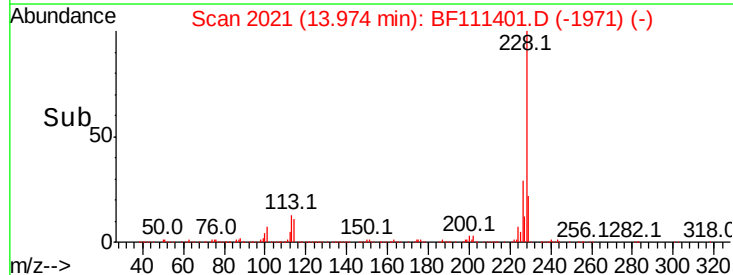
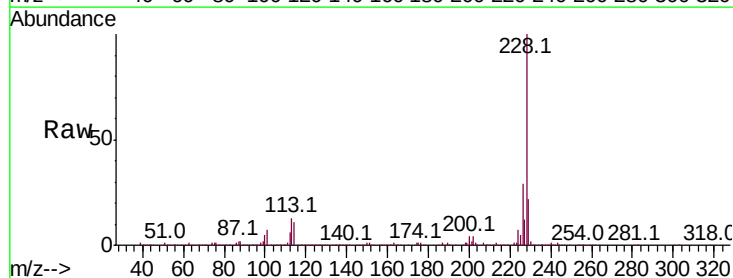
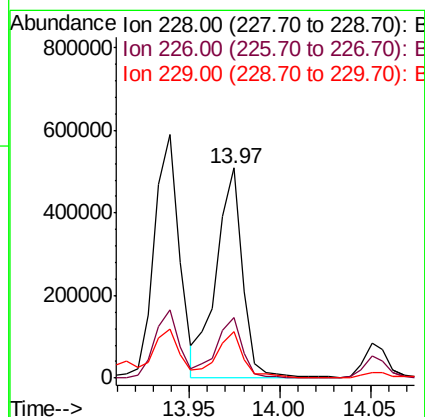
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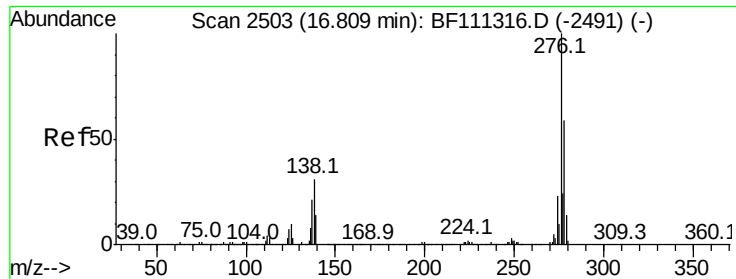
Sohil
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#83
Chrysene
Concen: 20.760 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	25.3	37.9
229	21.9	17.2	25.8





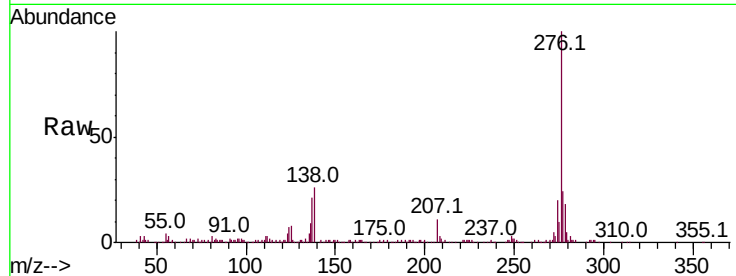
#86
Indeno(1,2,3-cd)pyrene
Concen: 10.145 ng
RT: 16.79 min Scan# 2500
Delta R.T. -0.02 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampled :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	6.0	27.8	41.6#
277	4.6	20.1	30.1#

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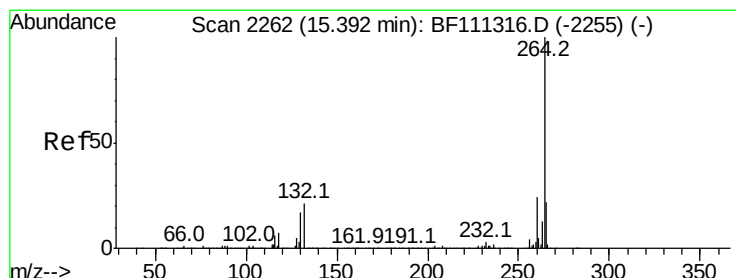
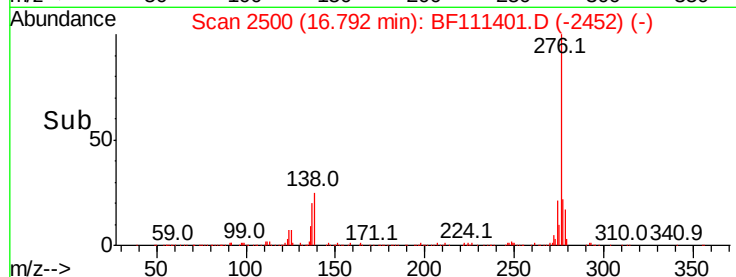
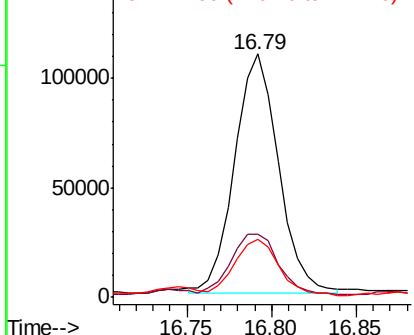


Abundance

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



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.39 min Scan# 2261
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

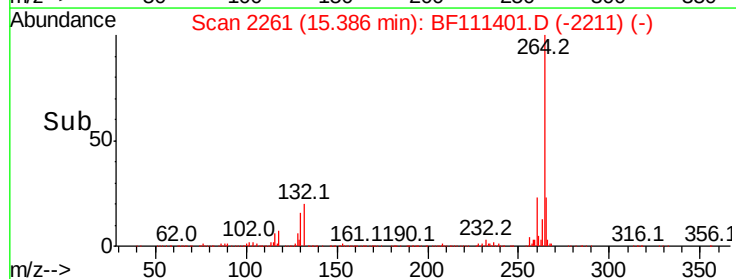
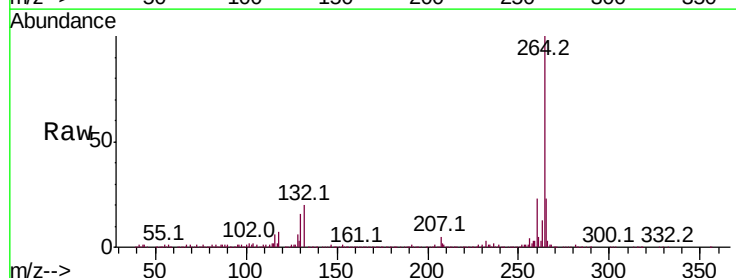
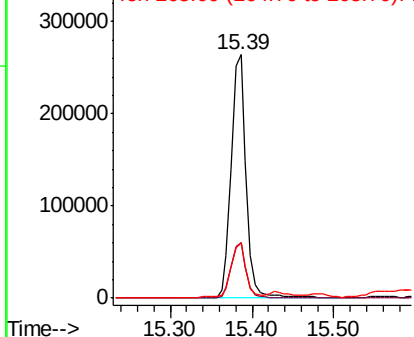
Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.3	27.5
265	22.9	17.7	26.5

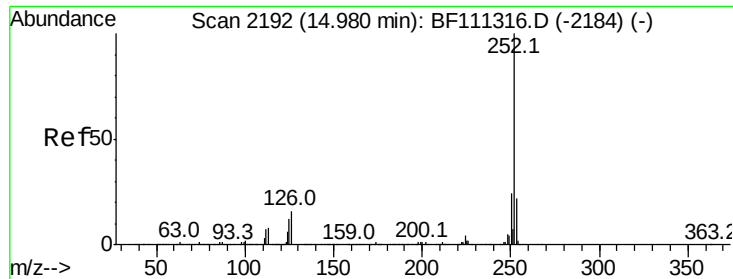
Abundance

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





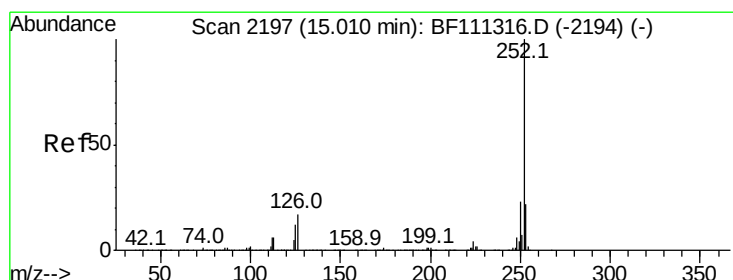
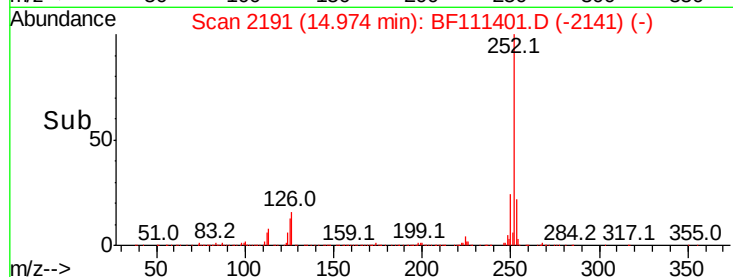
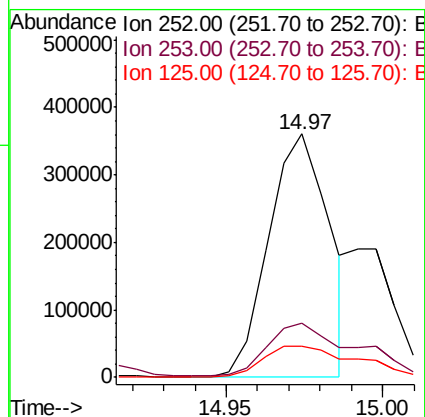
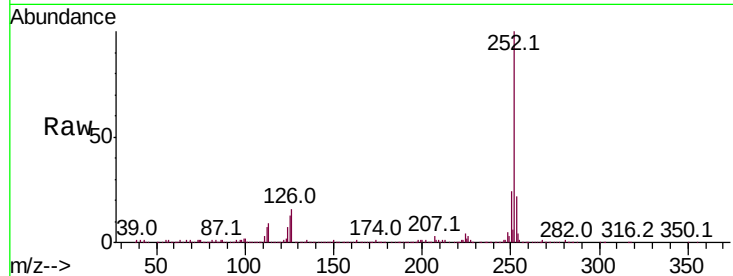
#88
Benzo(b)fluoranthene
Concen: 25.303 ng m
RT: 14.97 min Scan# 2191
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampleID :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.2	27.2
125	13.0	10.4	15.6

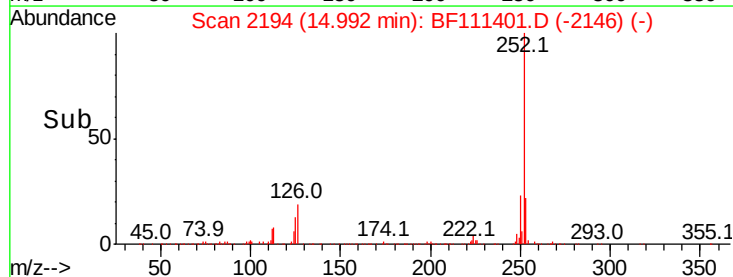
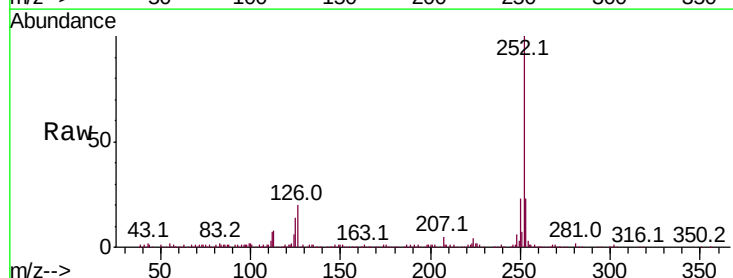
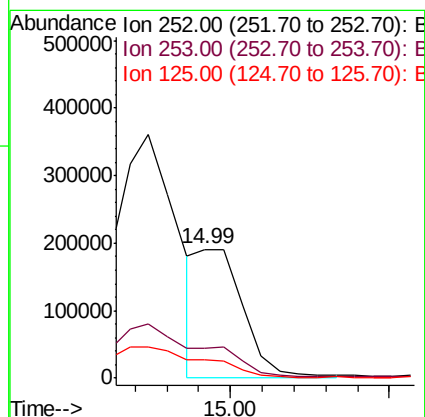
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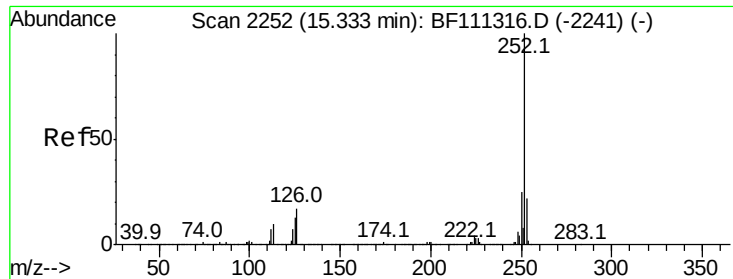
Sohil
12/14/2018 12:54:17 PM



#89
Benzo(k)fluoranthene
Concen: 10.021 ng m
RT: 14.99 min Scan# 2194
Delta R.T. -0.02 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	13.8	9.8	14.8





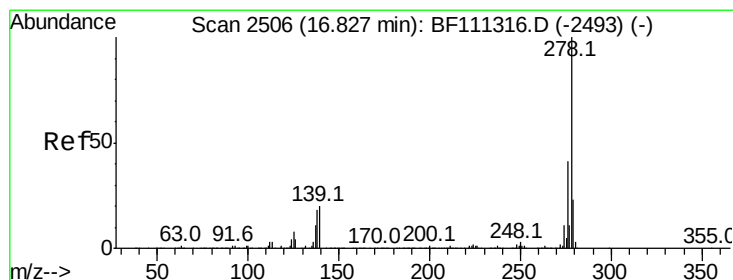
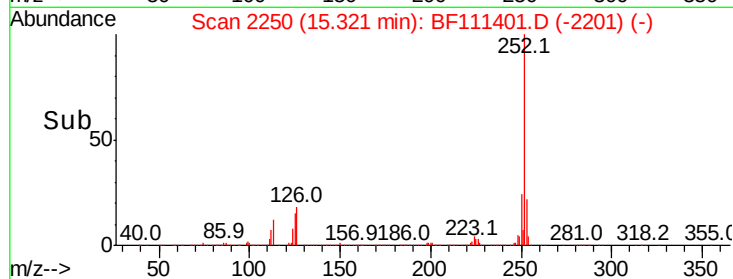
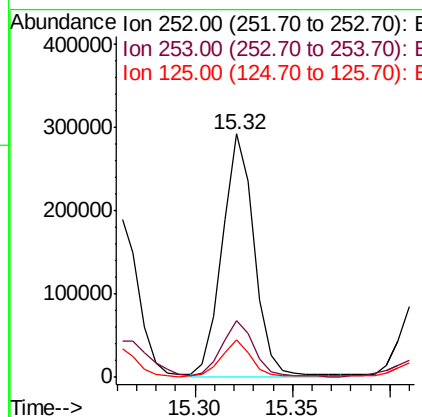
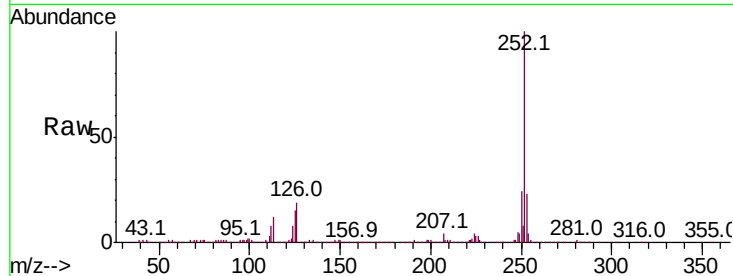
#90
Benzo(a)pyrene
Concen: 18.518 ng
RT: 15.32 min Scan# 2250
Delta R.T. -0.01 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Instrument :
BNA_F
ClientSampleId :
SB-9(0-2)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	15.2	12.3	18.5

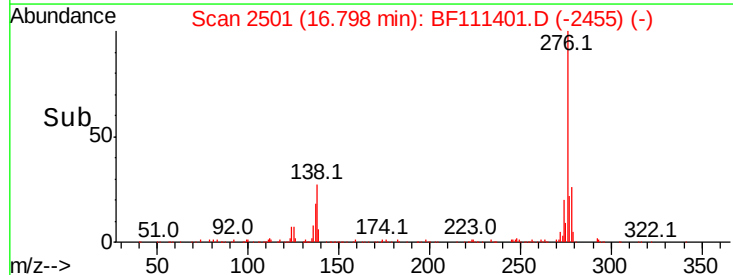
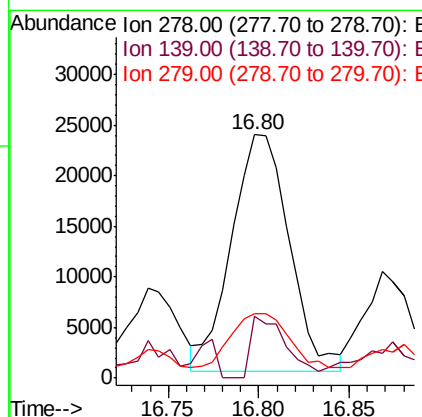
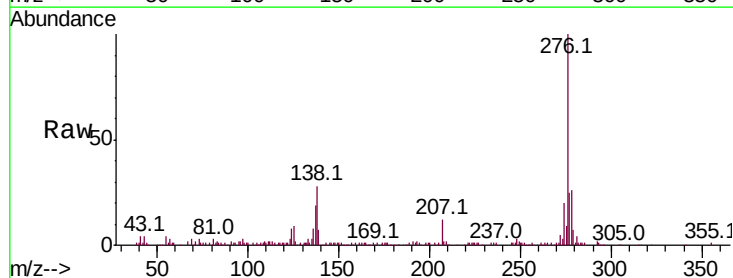
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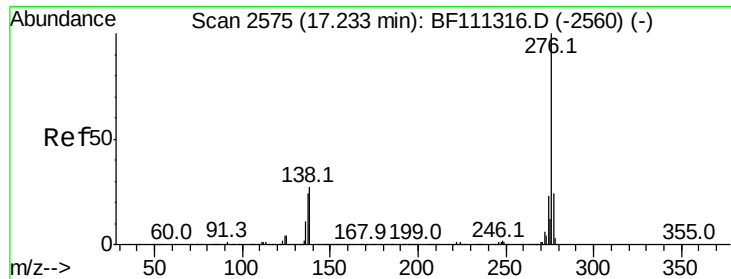
Sohil
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#91
Dibenzo(a,h)anthracene
Concen: 3.485 ng
RT: 16.80 min Scan# 2501
Delta R.T. -0.03 min
Lab File: BF111401.D
Acq: 14 Dec 2018 6:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	25.4	18.2	27.4
279	26.3	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 12.512 ng
 RT: 17.22 min Scan# 2572
 Delta R.T. -0.02 min
 Lab File: BF111401.D
 Acq: 14 Dec 2018 6:40

Instrument :
 BNA_F
 ClientSampled :
 SB-9(0-2)DL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	24.1	19.2	28.8
138	29.2	24.9	37.3

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