

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
 Data File : BF113095.D
 Acq On : 18 Mar 2019 17:27
 Operator : JU/SJ
 Sample : K1901-05 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

Manual Integrations
 APPROVED

Sohil
 3/19/2019 5:09:51 PM

Quant Time: Mar 19 05:31:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	147982	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	555124	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	281919	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	406717	20.00	ng	0.00
76) Chrysene-d12	13.87	240	368759	20.00	ng	0.00
87) Perylene-d12	15.28	264	374481	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	146662	15.42	ng	0.00
7) Phenol-d6	6.37	99	202346	16.93	ng	0.00
23) Nitrobenzene-d5	7.29	82	110215	11.88	ng	-0.01
42) 2,4,6-Tribromophenol	10.54	330	39228	13.11	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	237066	10.12	ng	-0.01
79) Terphenyl-d14	12.82	244	193836	10.19	ng	0.00
Target Compounds						
71) Phenanthrene	11.26	178	434831	21.488	ng	Qvalue 98
72) Anthracene	11.31	178	105597	4.985	ng	97
75) Fluoranthene	12.44	202	785287	36.221	ng	98
78) Pyrene	12.67	202	855536	27.520	ng	99
81) Benzo(a)anthracene	13.86	228	518157	20.274	ng	100
83) Chrysene	13.89	228	475780	19.005	ng	96
86) Indeno(1,2,3-cd)pyrene	16.64	276	201033	9.419	ng	# 89
88) Benzo(b)fluoranthene	14.88	252	576114m	23.784	ng	
89) Benzo(k)fluoranthene	14.90	252	156211m	7.120	ng	
90) Benzo(a)pyrene	15.22	252	403543	18.835	ng	97
91) Dibenzo(a,h)anthracene	16.64	278	59084	3.232	ng	94
92) Benzo(a,h,i)perylene	17.05	276	185134	10.085	ng	95

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

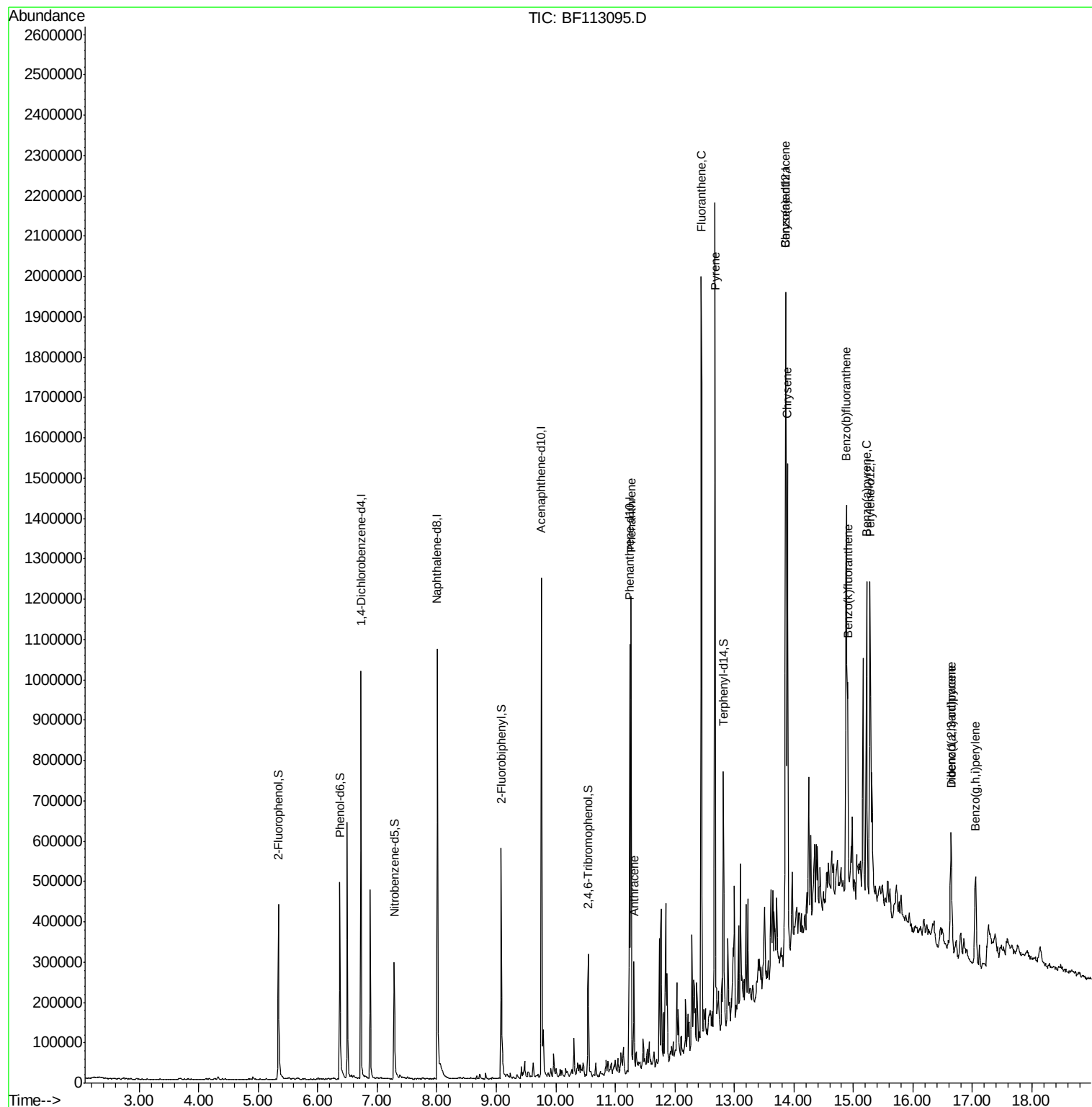
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

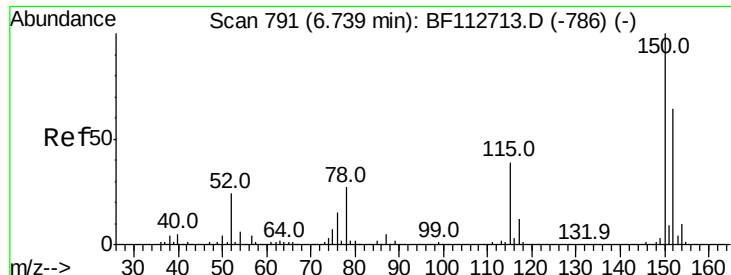
Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
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#1

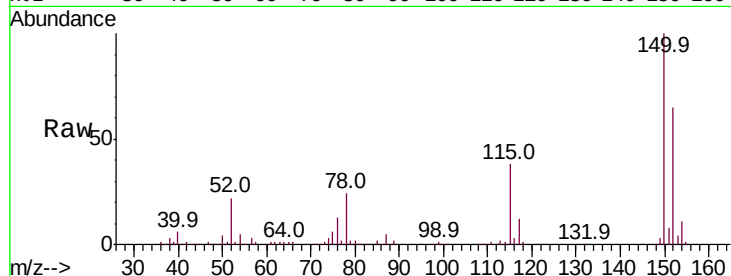
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.2	186.2
115	58.5	48.2	72.4

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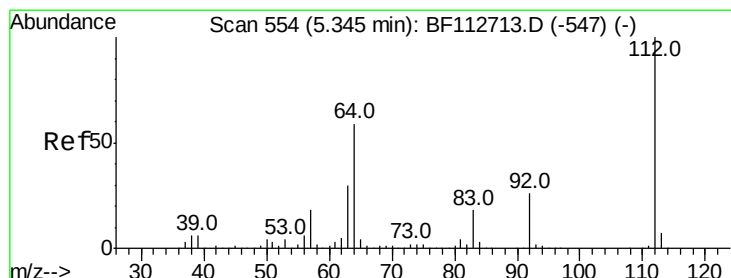
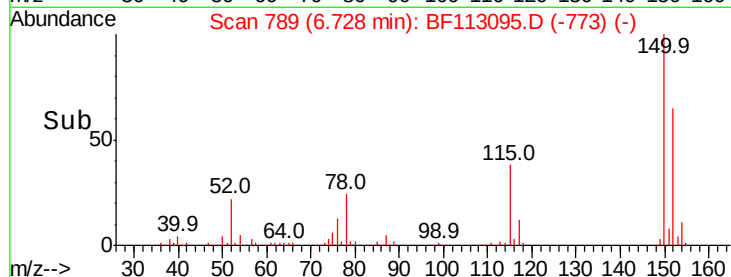
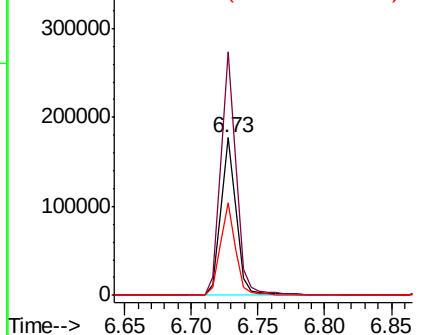


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

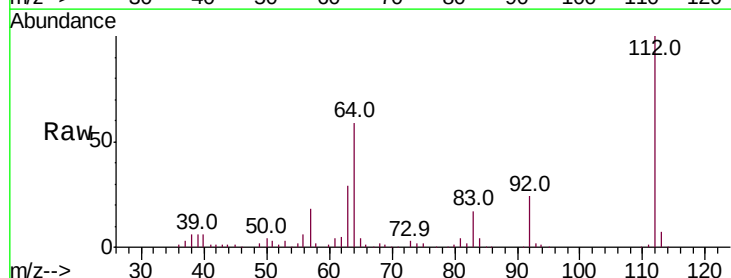
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 15.417 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.5	47.6	71.4
63	29.4	24.4	36.6

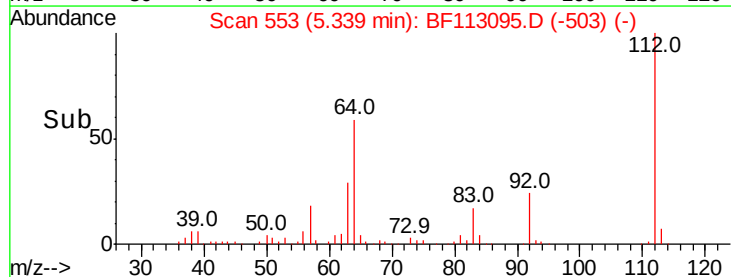
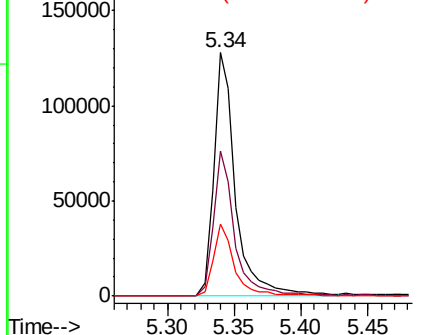


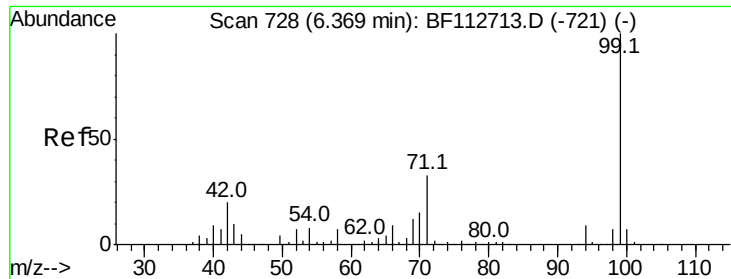
Abundance

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: 16.933 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

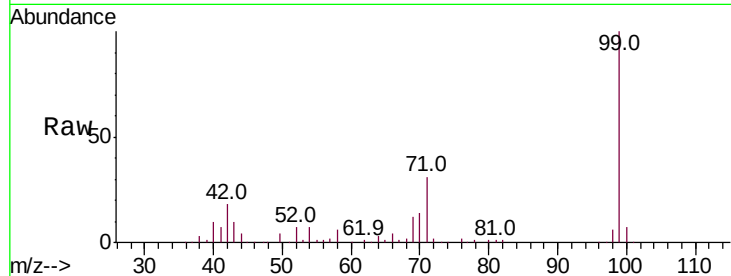
ClientSampled :

SB-4(0.5-1.5)

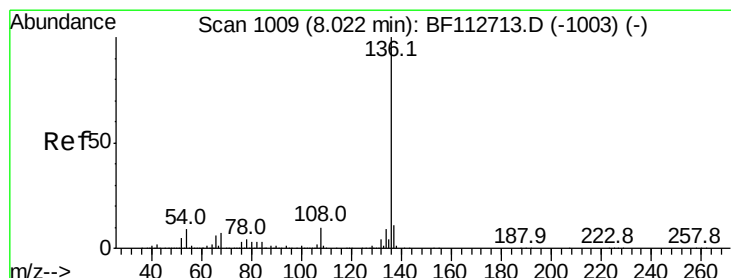
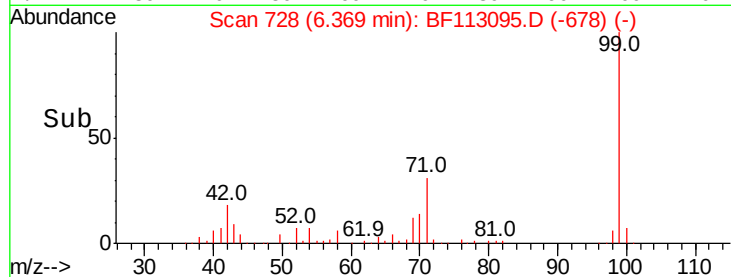
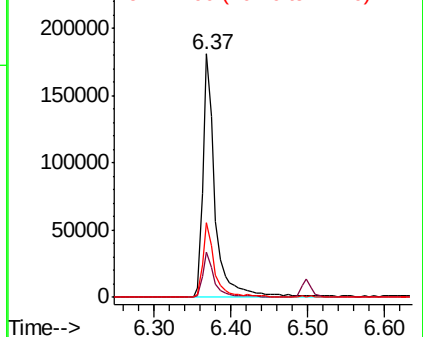
Tot Ion	99	Resp	202346
Ion Ratio	Lower	Upper	
99	100		
42	18.3	16.3	24.5
71	30.9	26.2	39.4

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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: 8.01 min Scan# 1007

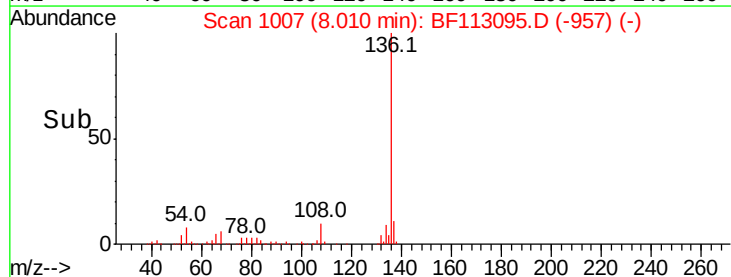
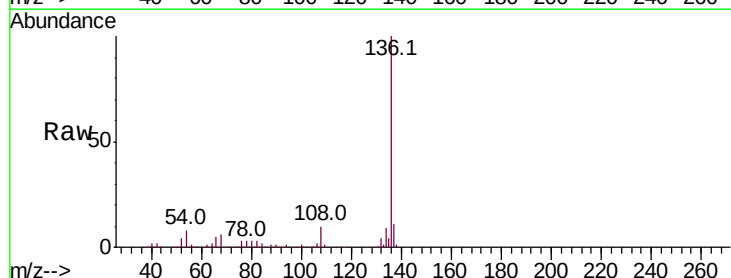
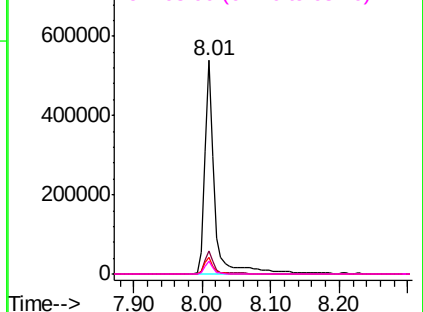
Delta R.T. -0.01 min

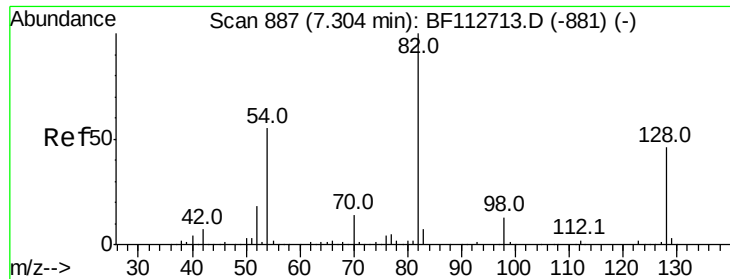
Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Tgt Ion	136	Resp	555124
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.9	13.3
54	8.0	7.3	10.9
68	5.7	5.4	8.2

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





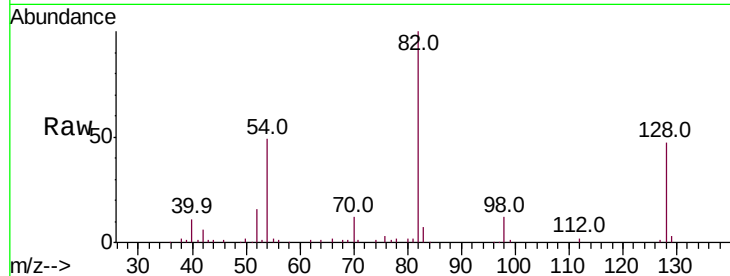
#23
Nitrobenzene-d5
Concen: 11.880 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampled :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.9	36.3	54.5
54	49.0	43.7	65.5

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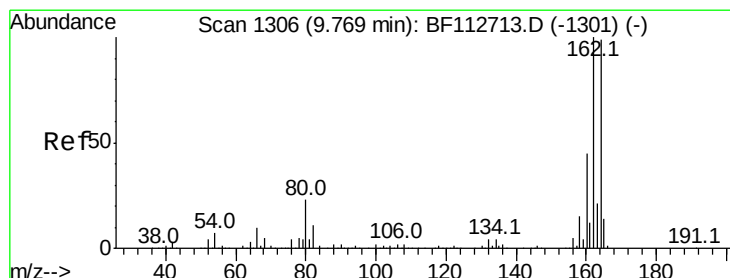
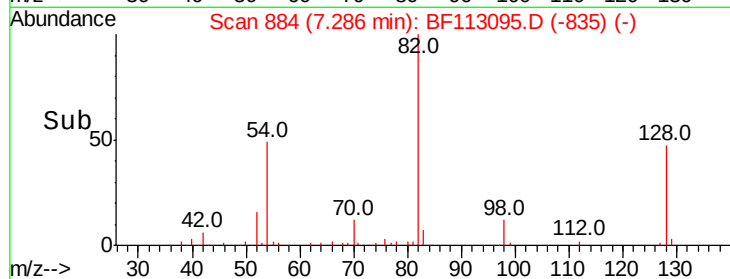
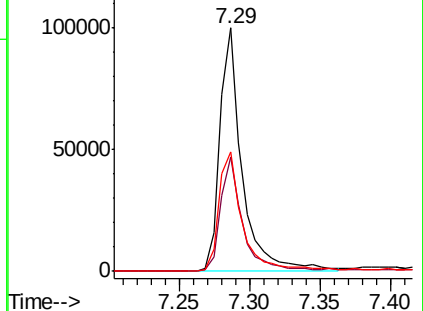


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

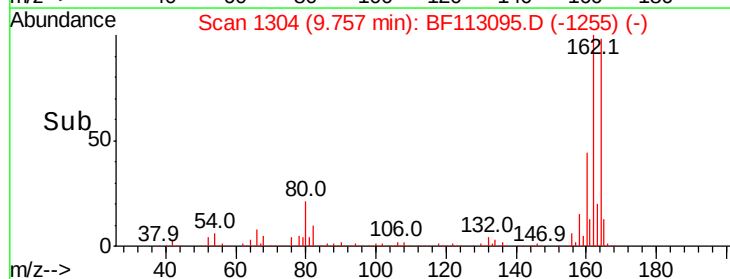
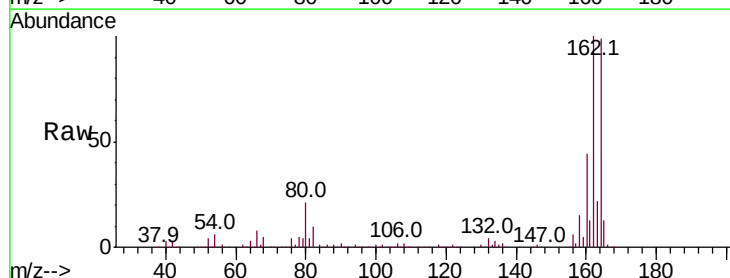
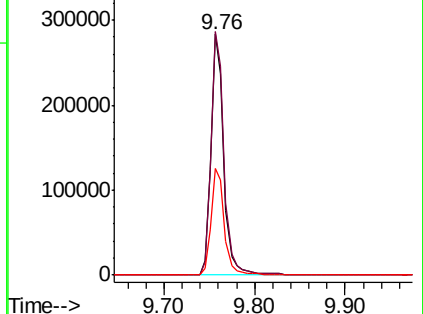
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.3	80.6	120.8
160	44.4	36.0	54.0

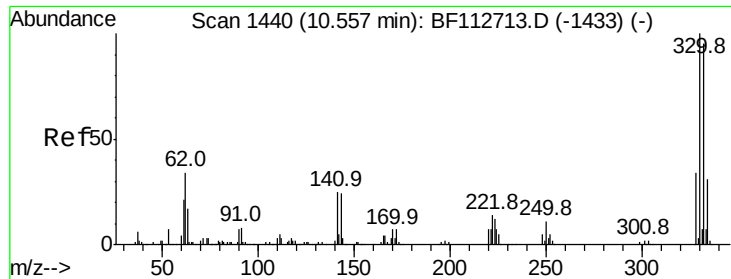
Abundance

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: 13.107 ng

RT: 10.54 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

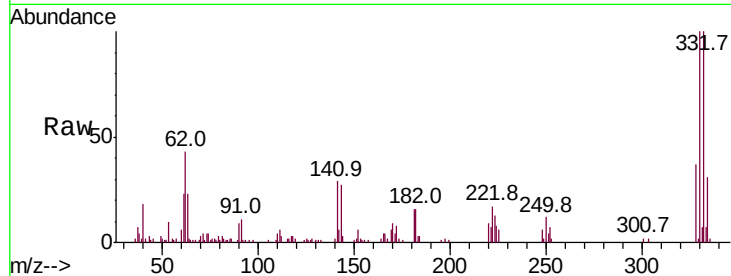
ClientSampled :

SB-4(0.5-1.5)

Tot Ion:	330	Resp:	39228
Ion Ratio	Lower	Upper	
330	100		
332	97.8	76.2	114.4
141	32.4	27.0	40.6

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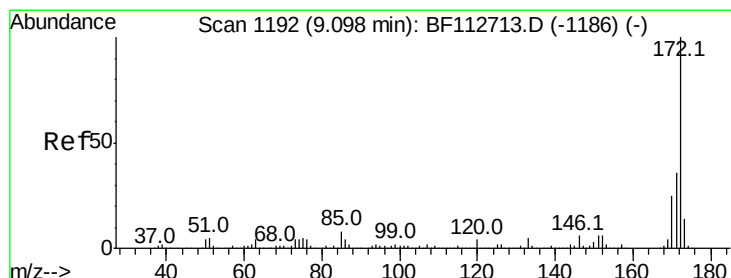
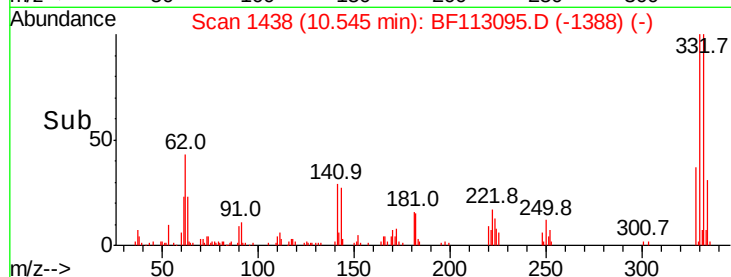
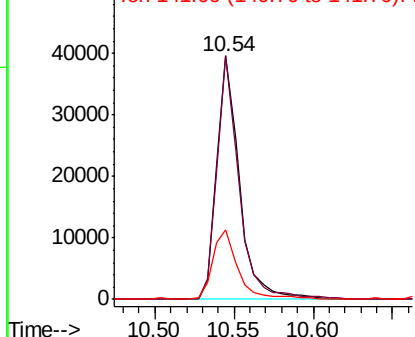


Abundance

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



#45

2-Fluorobiphenyl

Concen: 10.116 ng

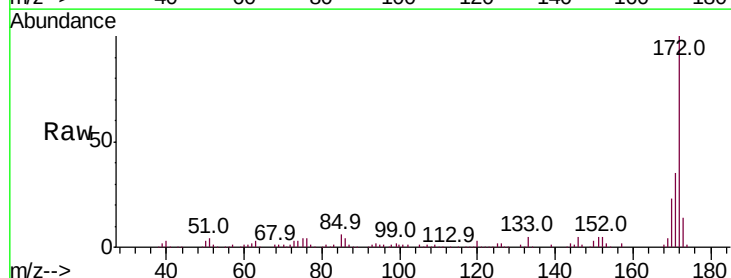
RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Tgt Ion:	172	Resp:	237066
Ion Ratio	Lower	Upper	
172	100		
171	34.9	29.0	43.4
170	22.7	20.0	30.0

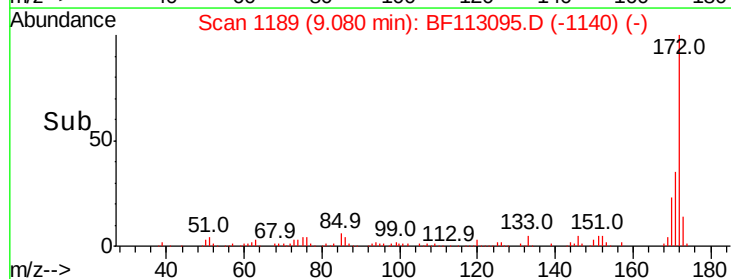
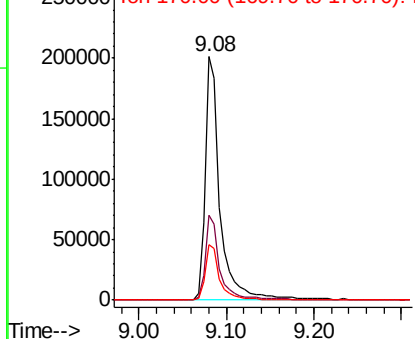


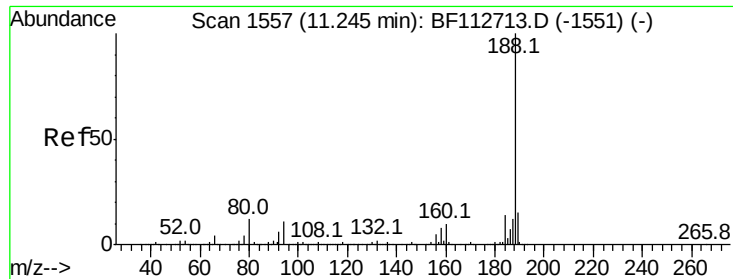
Abundance

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





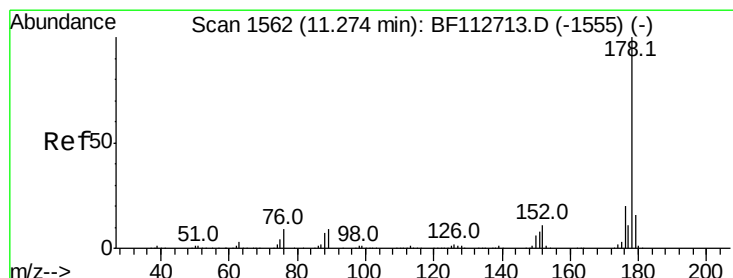
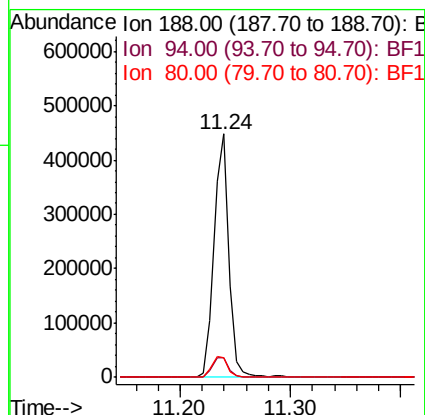
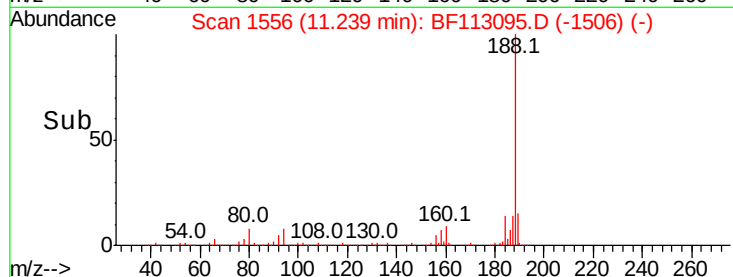
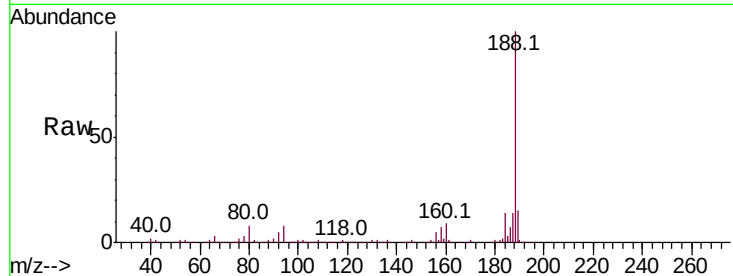
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1556
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.2	9.0	13.4#
80	8.3	9.2	13.8#

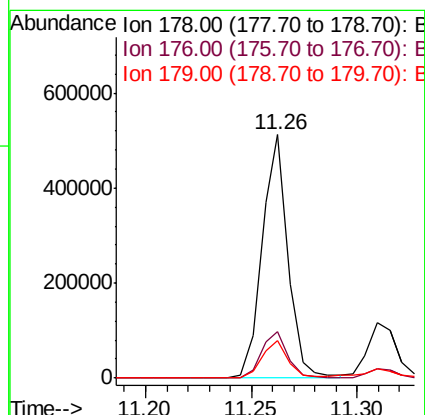
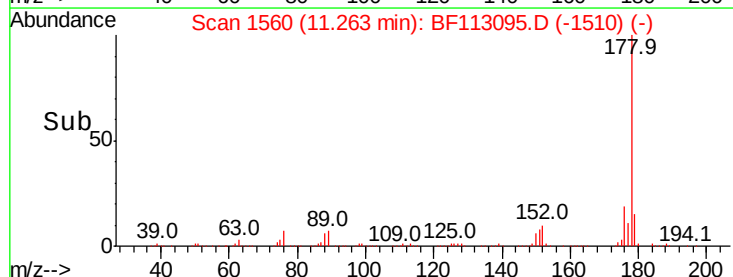
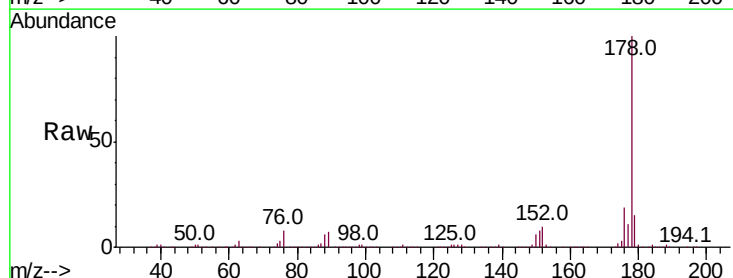
Manual Integrations
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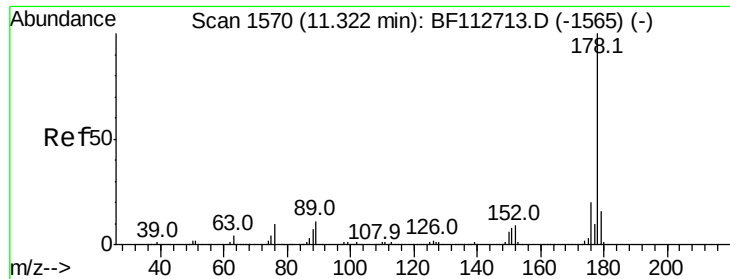
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#71
Phenanthrene
Concen: 21.488 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.2	16.3	24.5
179	15.3	12.7	19.1





#72

Anthracene

Concen: 4.985 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Instrument :

BNA_F

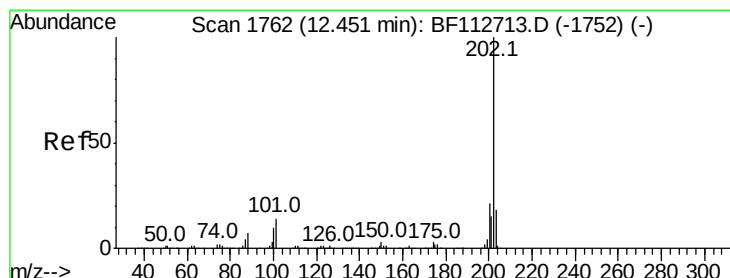
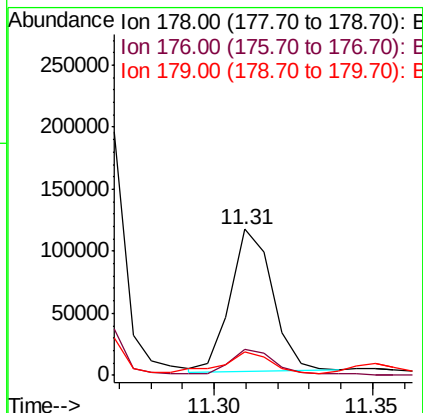
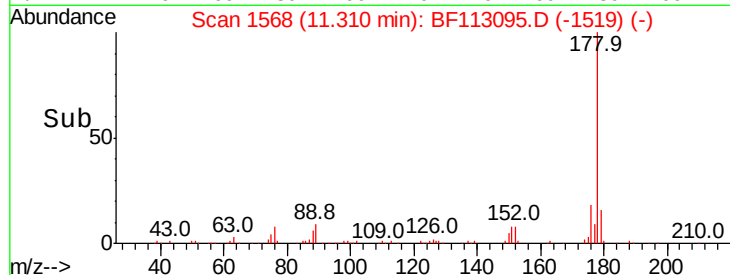
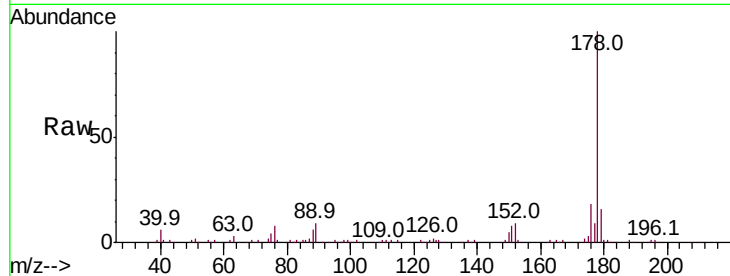
ClientSampleId :

SB-4(0.5-1.5)

Tot Ion:	178	Resp:	105597
Ion Ratio	Lower	Upper	
178	100		
176	17.7	15.8	23.6
179	16.0	13.0	19.6

Manual Integrations
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#75

Fluoranthene

Concen: 36.221 ng

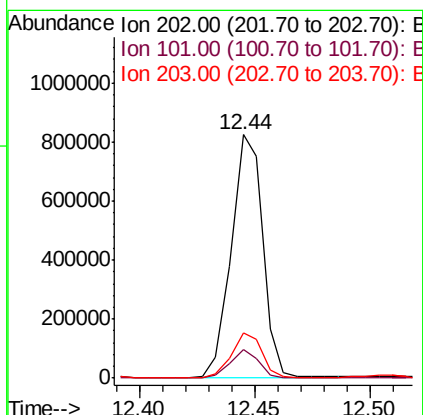
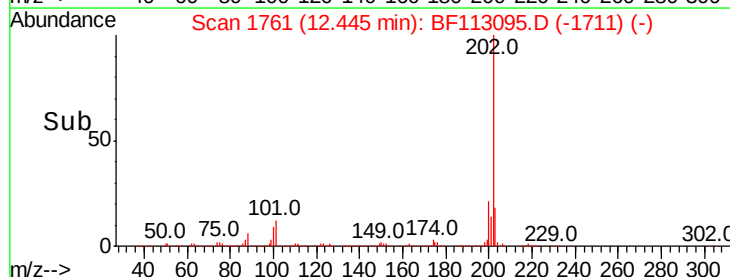
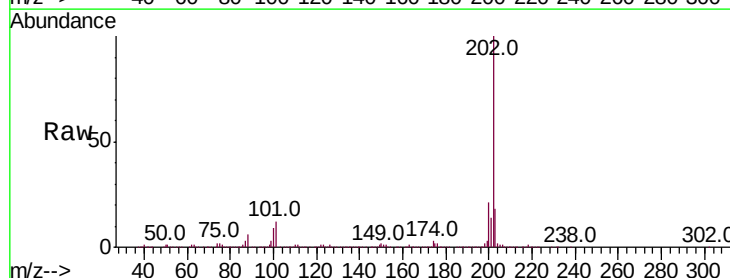
RT: 12.44 min Scan# 1761

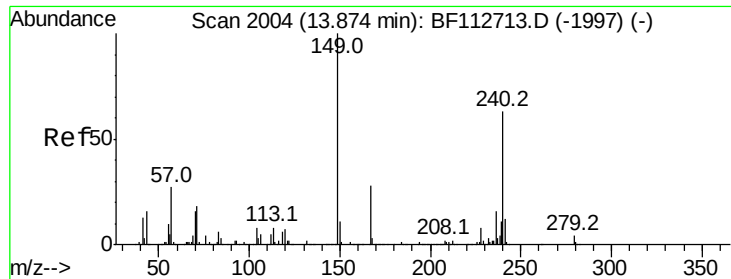
Delta R.T. -0.01 min

Lab File: BF113095.D

Acq: 18 Mar 2019 17:27

Tgt Ion:	202	Resp:	785287
Ion Ratio	Lower	Upper	
202	100		
101	11.7	0.0	33.8
203	18.5	0.0	38.4





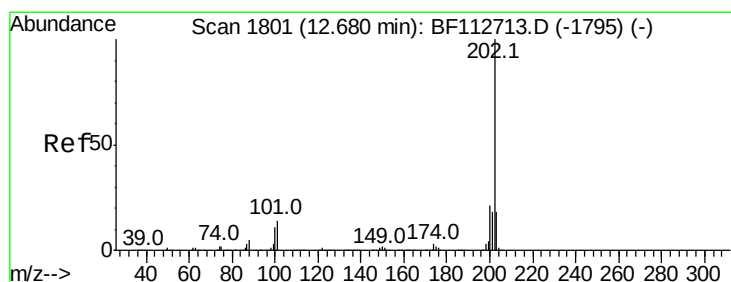
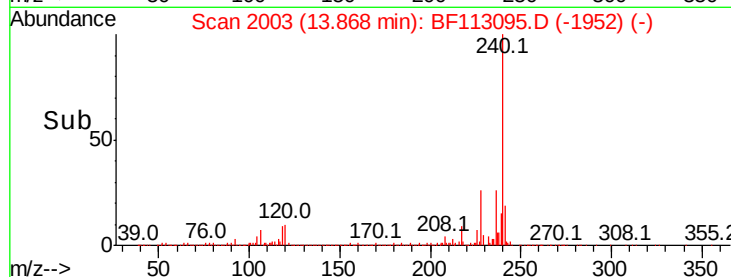
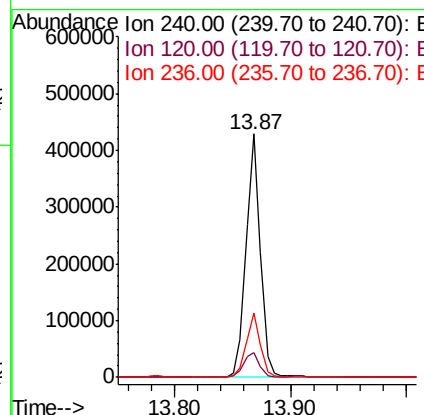
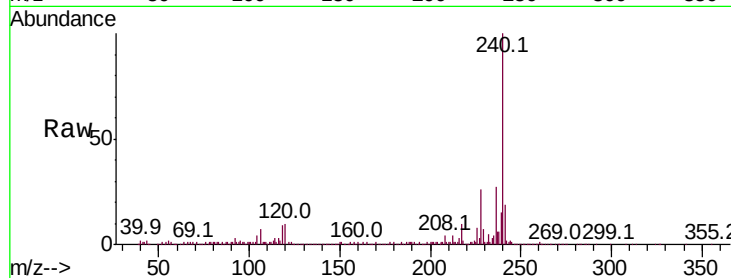
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.87 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	10.1	8.9	13.3	
236	26.6	20.7	31.1	

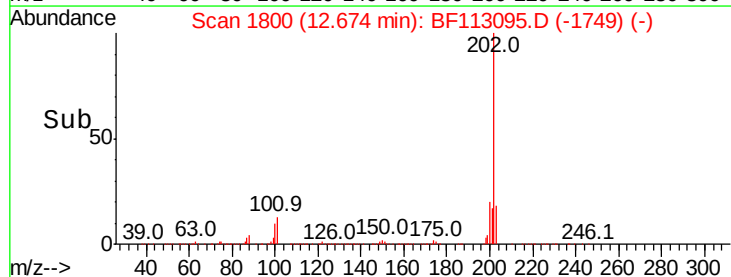
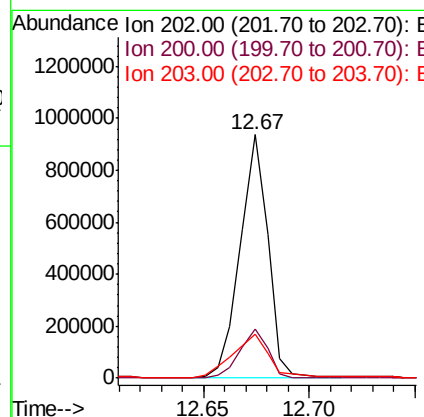
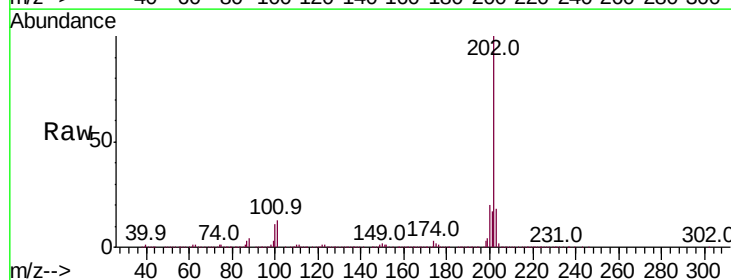
Manual Integrations
APPROVED

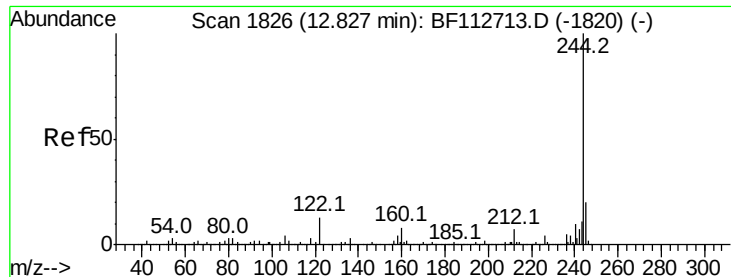
Sohil
3/19/2019 5:09:51 PM



#78
Pyrene
Concen: 27.520 ng
RT: 12.67 min Scan# 1800
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	20.4	17.0	25.4	
203	18.1	14.4	21.6	





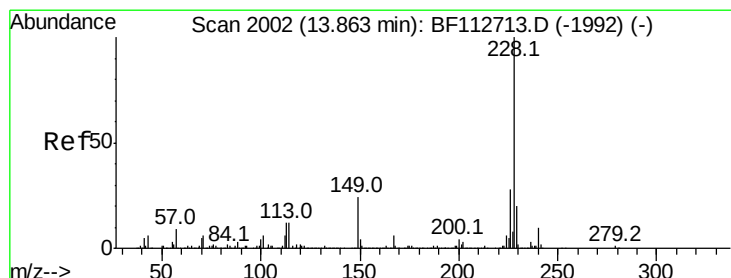
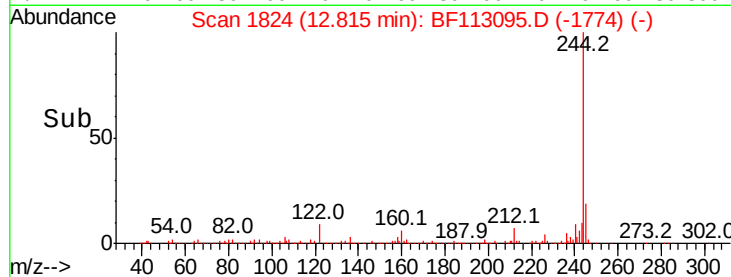
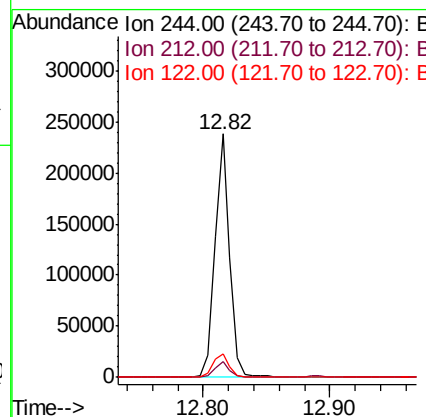
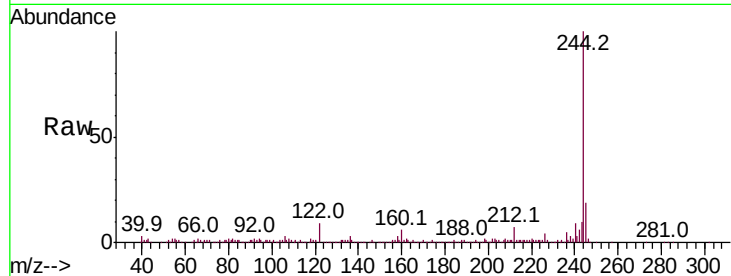
#79
 Terphenyl-d14
 Concen: 10.190 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	9.4	10.5	15.7#

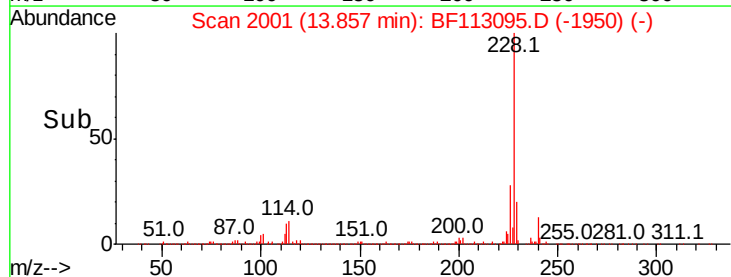
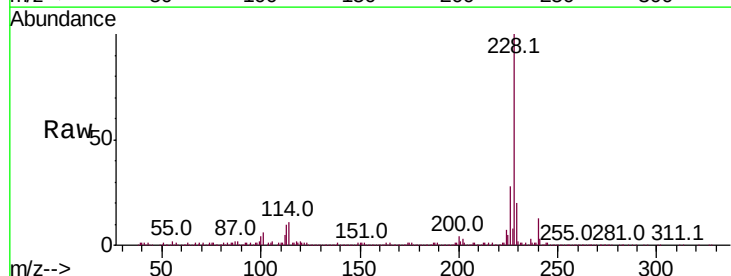
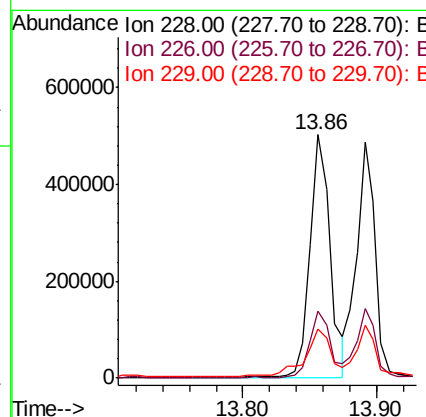
Manual Integrations
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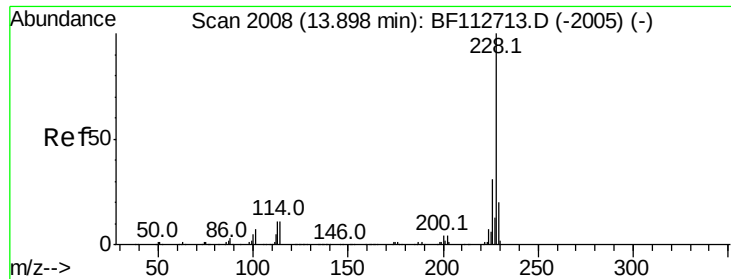
Sohil
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#81
 Benzo(a)anthracene
 Concen: 20.274 ng
 RT: 13.86 min Scan# 2001
 Delta R.T. -0.00 min
 Lab File: BF113095.D
 Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	20.2	16.0	24.0





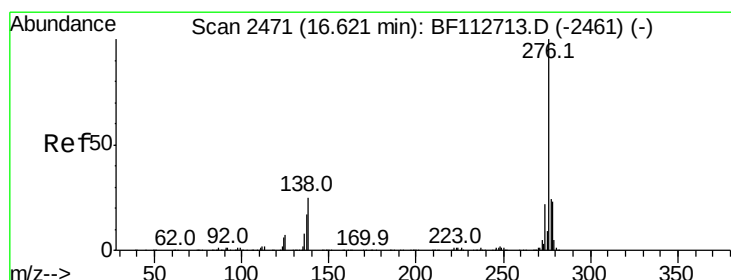
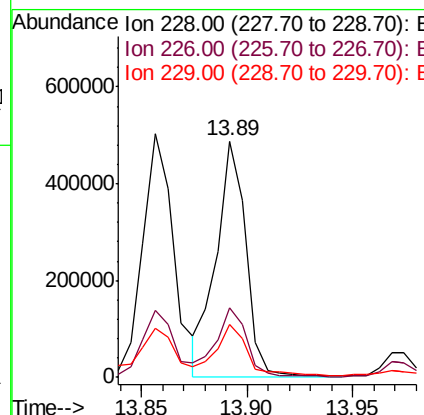
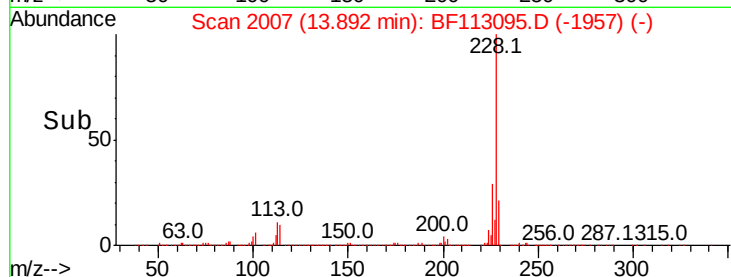
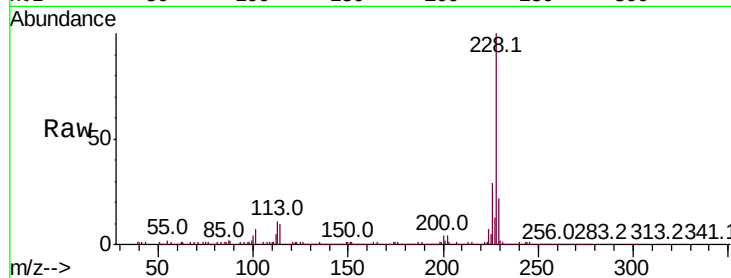
#83
Chrysene
Concen: 19.005 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.9	37.3
229	22.2	16.3	24.5

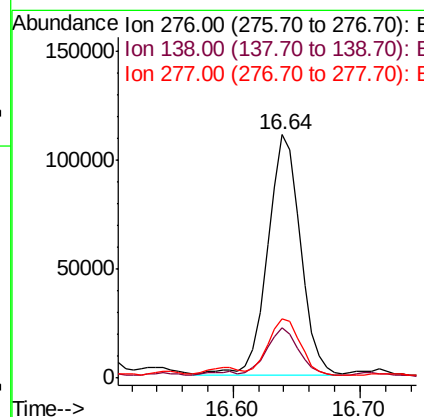
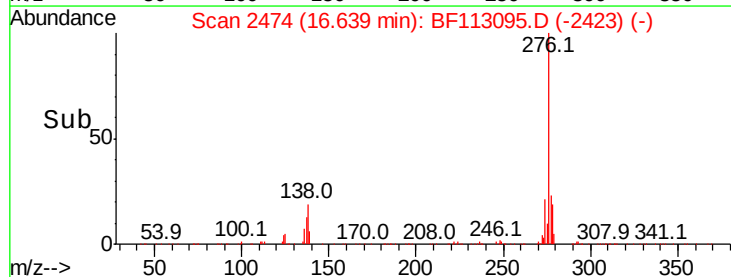
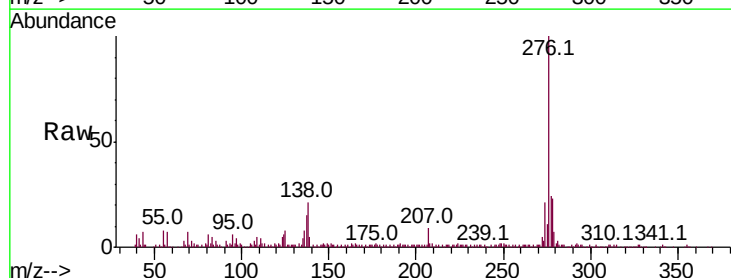
Manual Integrations
APPROVED

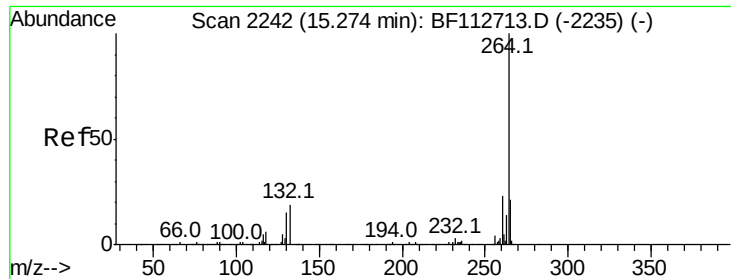
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#86
Indeno(1,2,3-cd)pyrene
Concen: 9.419 ng
RT: 16.64 min Scan# 2474
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.1	23.2	34.8#
277	23.5	19.9	29.9





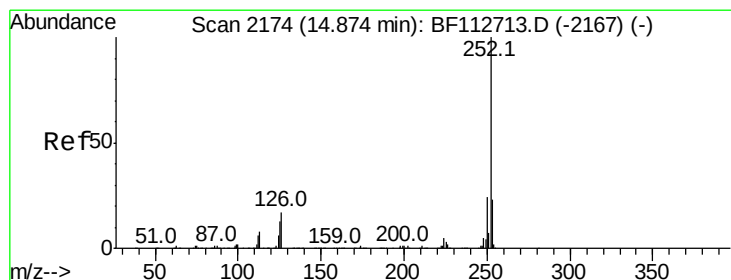
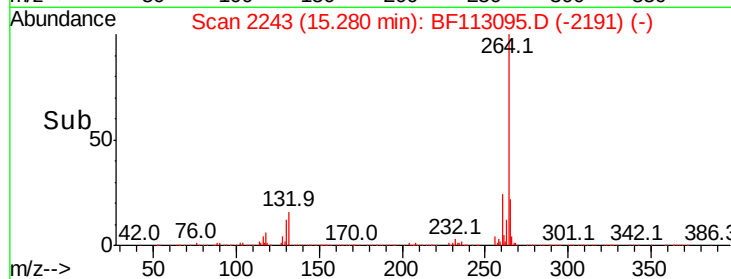
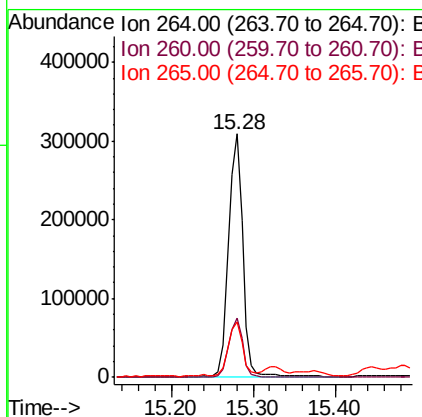
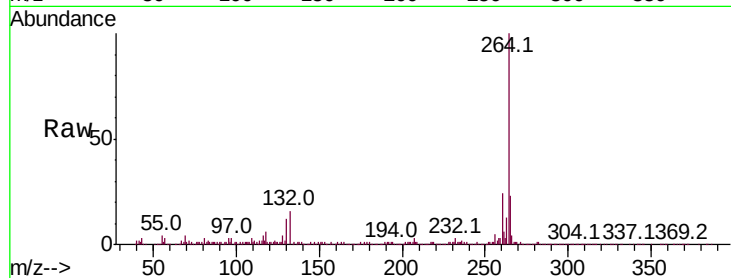
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	23.0	17.2	25.8

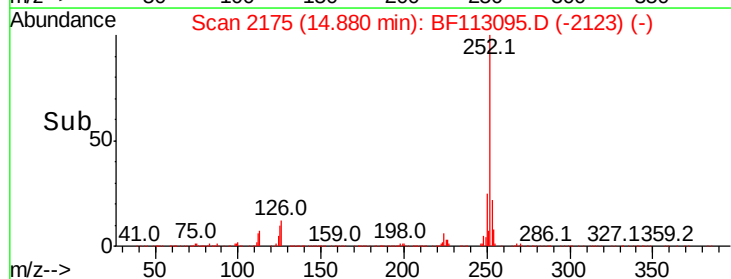
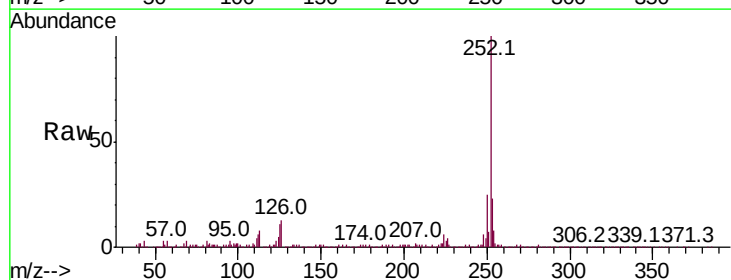
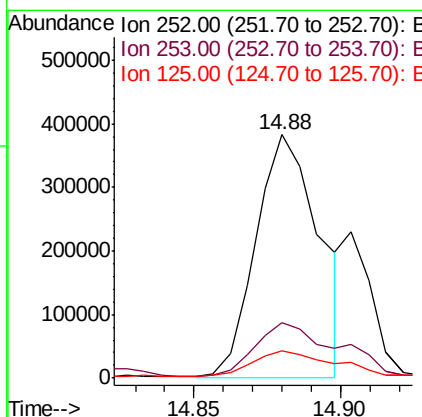
Manual Integrations
APPROVED

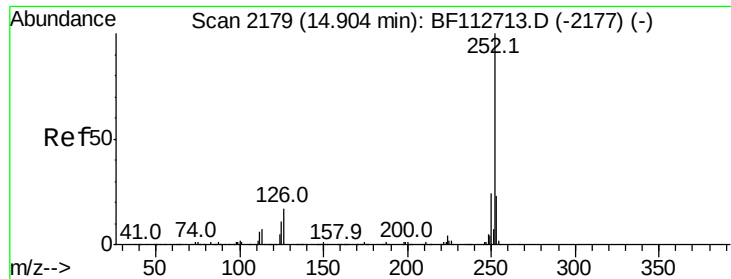
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#88
Benzo(b)fluoranthene
Concen: 23.784 ng m
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.0	27.0
125	11.4	10.2	15.2





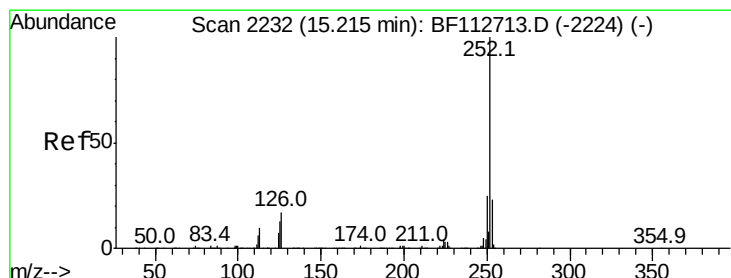
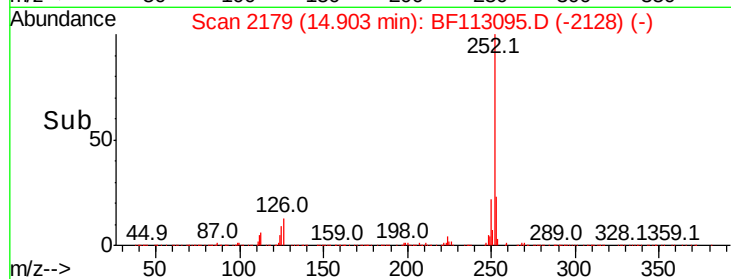
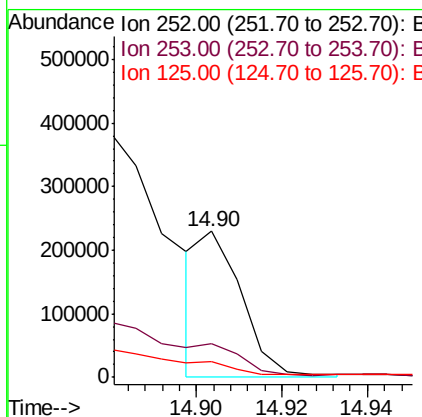
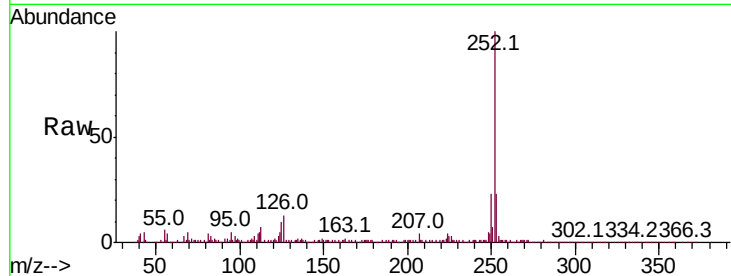
#89
Benzo(k)fluoranthene
Concen: 7.120 ng m
RT: 14.90 min Scan# 2179
Delta R.T. -0.00 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampled :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.2	27.2
125	10.4	9.8	14.6

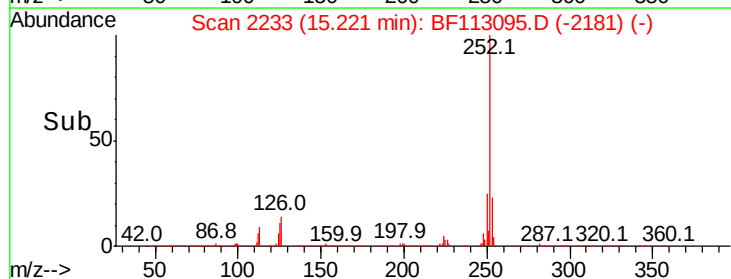
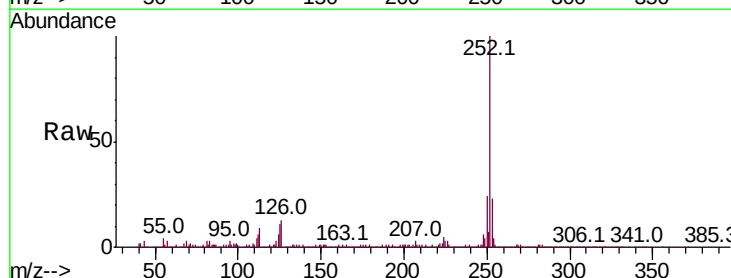
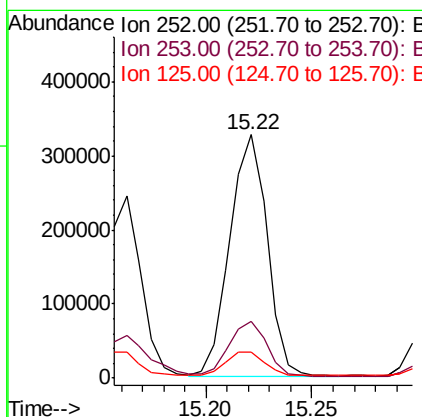
Manual Integrations
APPROVED

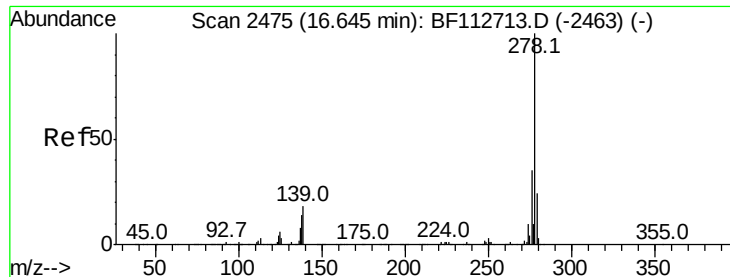
Sohil
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#90
Benzo(a)pyrene
Concen: 18.835 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	10.9	10.7	16.1





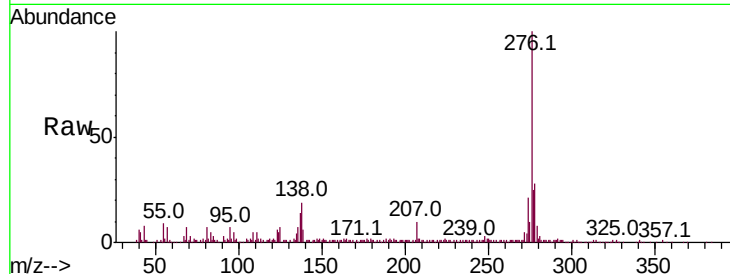
#91
Dibenzo(a,h)anthracene
Concen: 3.232 ng
RT: 16.64 min Scan# 2475
Delta R.T. -0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.3	21.5
279	27.5	19.4	29.0

Manual Integrations
APPROVED

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3/19/2019 5:09:51 PM

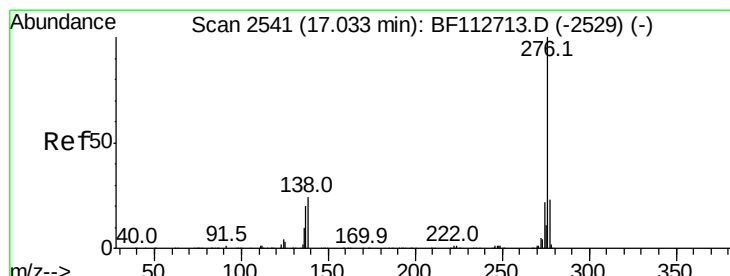
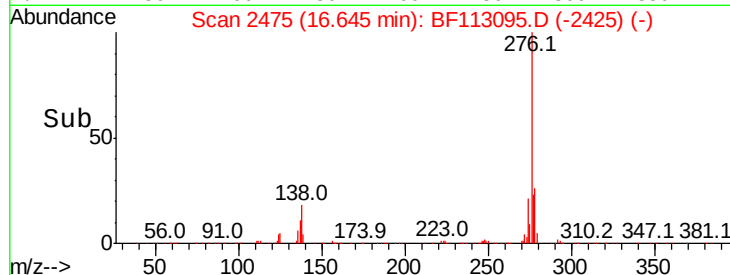
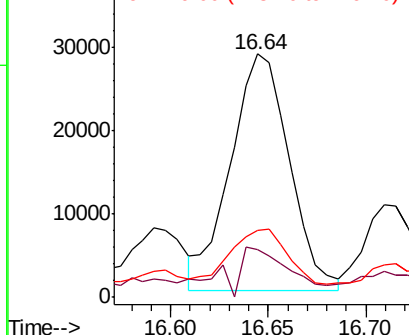


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 10.085 ng
RT: 17.05 min Scan# 2544
Delta R.T. 0.01 min
Lab File: BF113095.D
Acq: 18 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	27.8
138	19.9	19.4	29.0

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

