

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
 Data File : BF111169.D
 Acq On : 7 Dec 2018 6:22
 Operator : JU/SJ
 Sample : J6168-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S1

Manual Integrations
 APPROVED

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Quant Time: Dec 07 08:09:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 05 17:30:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	424973	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	1501574	20.00	ng	0.00
39) Acenaphthene-d10	9.85	164	576760	20.00	ng	0.00
64) Phenanthrene-d10	11.33	188	908585	20.00	ng	0.00
76) Chrysene-d12	13.96	240	657796	20.00	ng	0.01
87) Perylene-d12	15.40	264	493277	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	2803012	102.92	ng	0.01
7) Phenol-d6	6.44	99	3469511	98.90	ng	0.00
23) Nitrobenzene-d5	7.37	82	2089845	82.40	ng	0.00
42) 2,4,6-Tribromophenol	10.63	330	506996	110.59	ng	0.00
45) 2-Fluorobiphenyl	9.17	172	2953898	96.80	ng	0.00
79) Terphenyl-d14	12.92	244	2281619	71.04	ng	0.01

Target Compounds				Qvalue		
10) Phenol	6.45	94	269716	7.051	ng	92
31) Naphthalene	8.11	128	214824	3.286	ng	# 93
50) Dimethylphthalate	9.56	163	494771	12.326	ng	99
52) Acenaphthene	9.87	154	104107	3.073	ng	98
55) Dibenzofuran	10.05	168	93336	2.000	ng	91
58) Fluorene	10.39	166	117674	3.576	ng	99
71) Phenanthrene	11.35	178	1343787	30.747	ng	96
72) Anthracene	11.40	178	304106	6.903	ng	96
73) Carbazole	11.55	167	155338	3.389	ng	# 91
75) Fluoranthene	12.54	202	1753522	41.003	ng	96
78) Pyrene	12.77	202	1567269	30.583	ng	95
81) Benzo(a)anthracene	13.95	228	648687	16.831	ng	99
83) Chrysene	13.99	228	544827	14.240	ng	98
84) Bis(2-ethylhexyl)phthalate	13.96	149	446748	14.940	ng	# 99
86) Indeno(1,2,3-cd)pyrene	16.81	276	247858	8.068	ng	# 93
88) Benzo(b)fluoranthene	14.99	252	589661m	21.096	ng	
89) Benzo(k)fluoranthene	15.01	252	174395m	6.454	ng	
90) Benzo(a)pyrene	15.34	252	400425	15.618	ng	98
91) Dibenzo(a,h)anthracene	16.82	278	59616	2.771	ng	# 82
92) Benzo(a,h,i)perylene	17.23	276	234099	10.828	ng	97

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

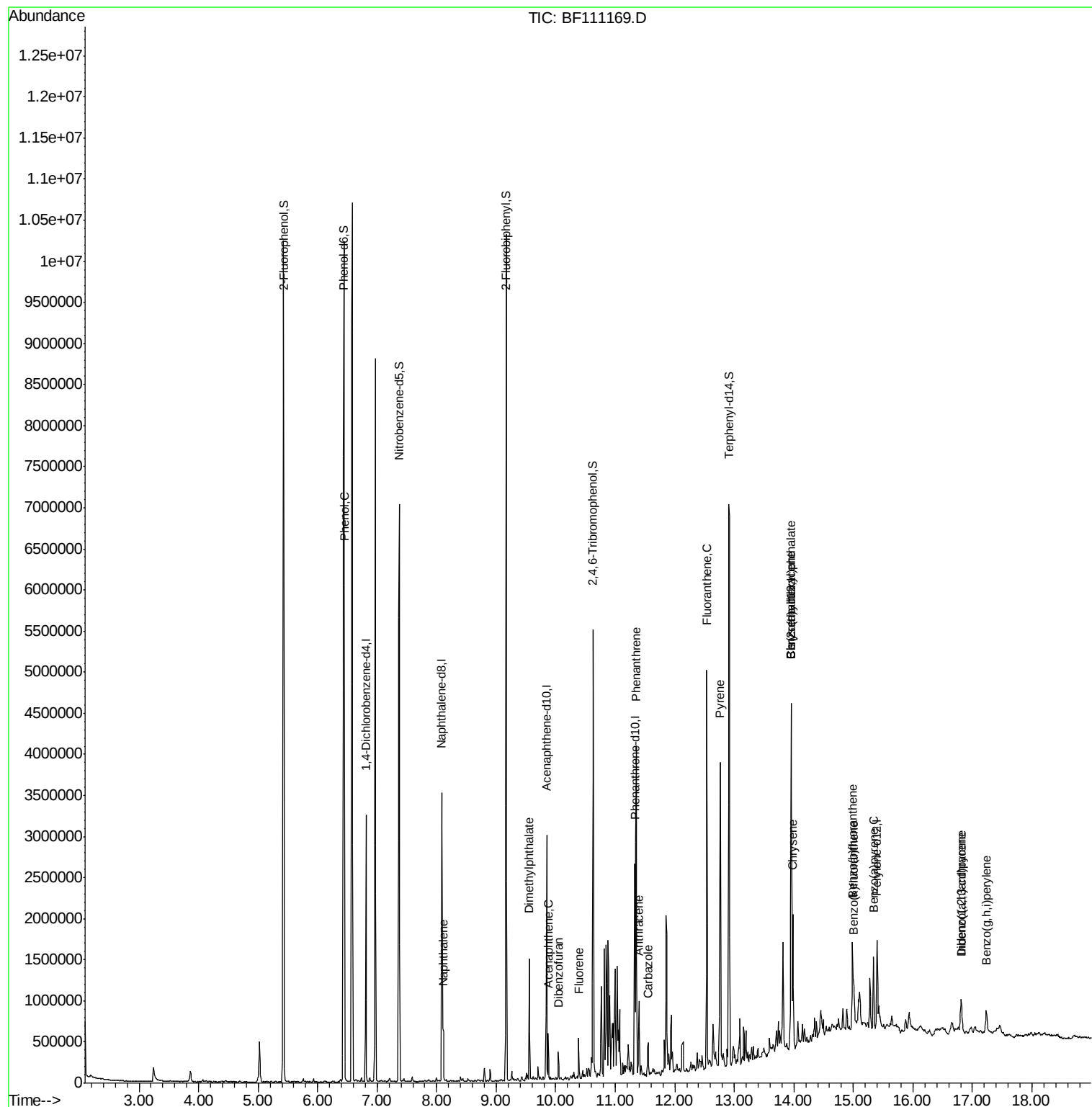
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120618\
Data File : BF111169.D
Acq On : 7 Dec 2018 6:22
Operator : JU/SJ
Sample : J6168-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

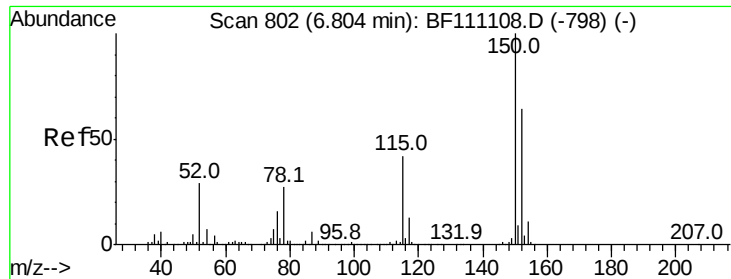
Instrument :
BNA_F
ClientSampleId :
S1

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Quant Time: Dec 07 08:09:32 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 05 17:30:55 2018
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#1

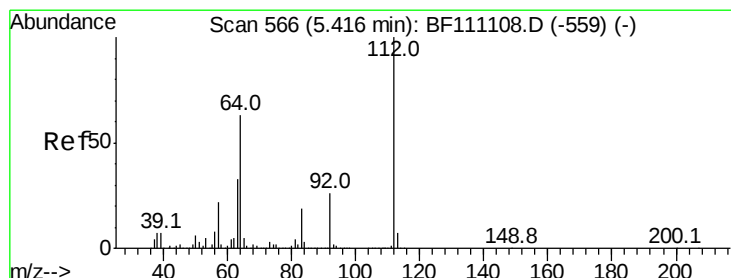
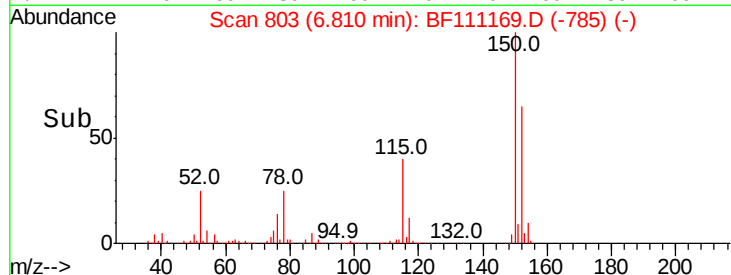
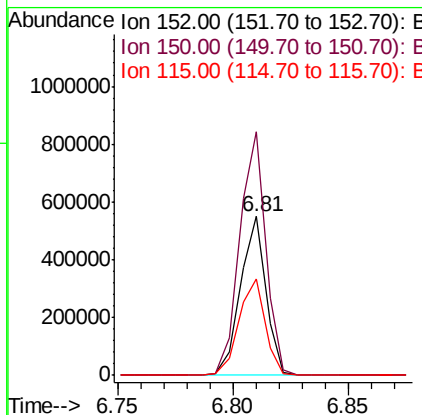
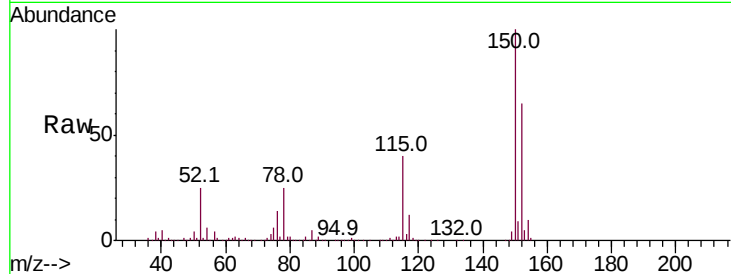
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.6	187.0
115	60.6	52.2	78.2

Manual Integrations
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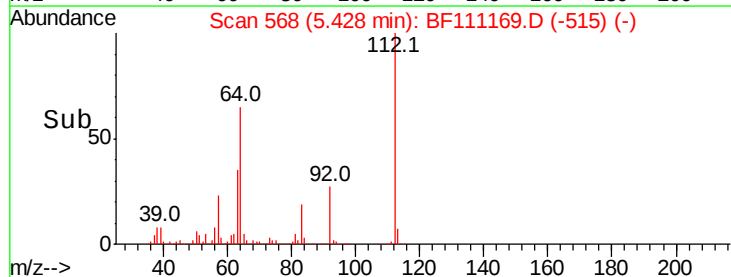
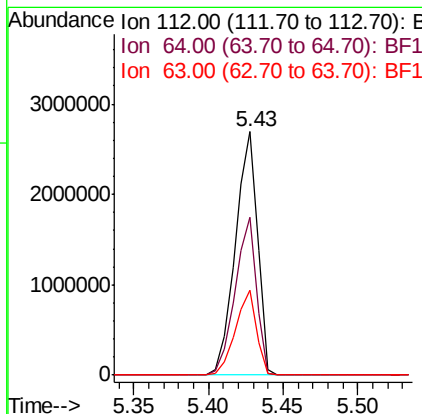
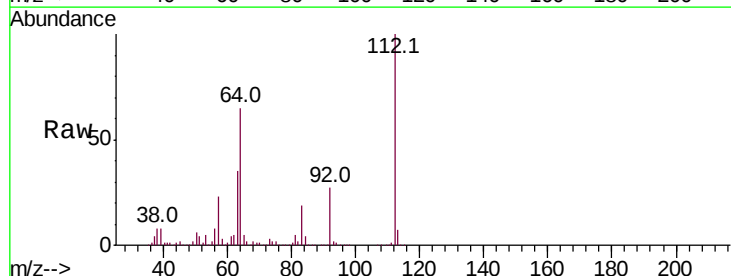
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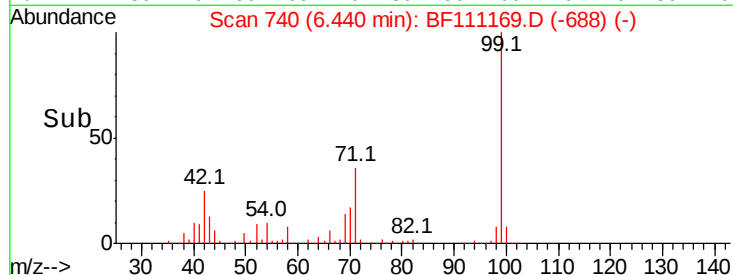
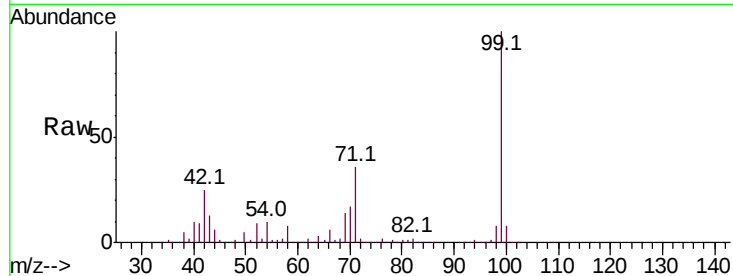
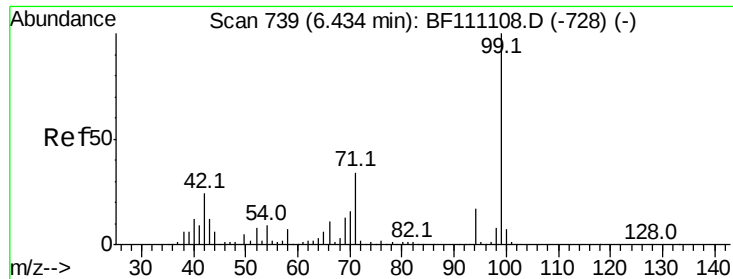


#5

2-Fluorophenol
Concen: 102.924 ng
RT: 5.43 min Scan# 568
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.0	50.2	75.4
63	34.8	26.6	39.8





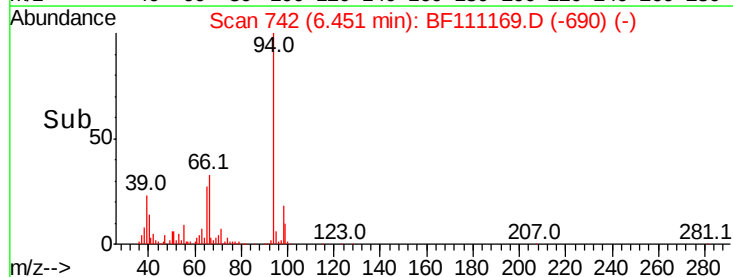
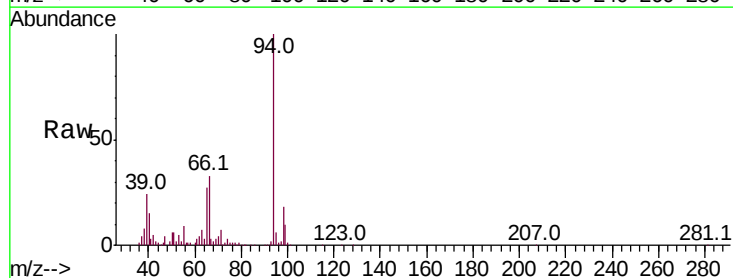
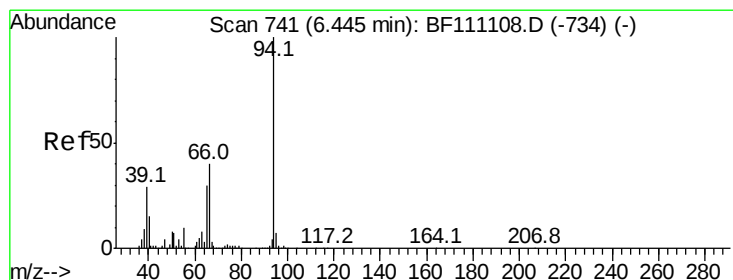
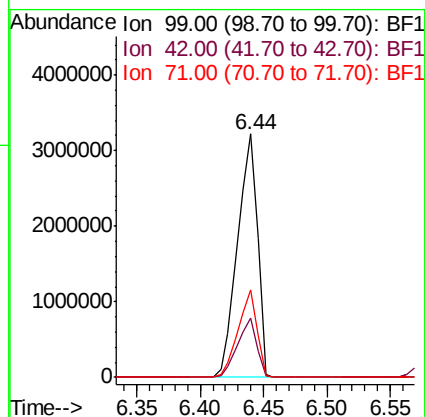
#7
Phenol-d6
Concen: 98.897 ng
RT: 6.44 min Scan# 740
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tot Ion: 99 Resp: 3469511
Ion Ratio Lower Upper
99 100
42 24.6 19.3 28.9
71 35.9 27.4 41.2

Instrument :
BNA_F
ClientSampled :
S1

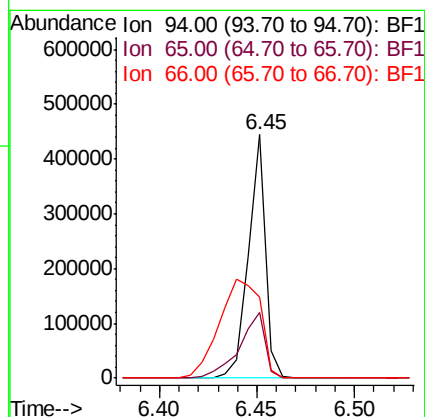
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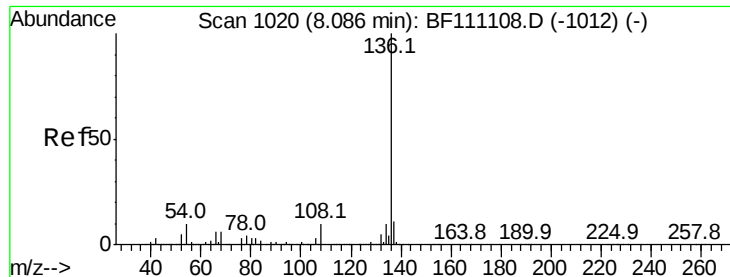
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#10
Phenol
Concen: 7.051 ng
RT: 6.45 min Scan# 742
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion: 94 Resp: 269716
Ion Ratio Lower Upper
94 100
65 27.2 10.5 50.5
66 33.4 19.8 59.8





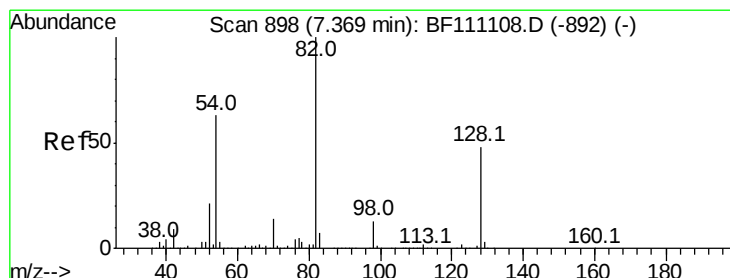
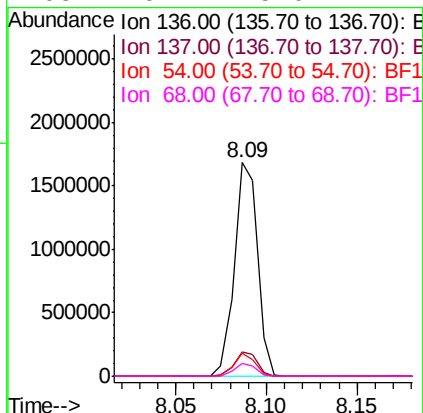
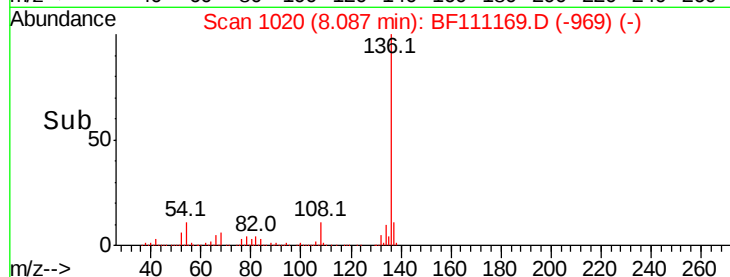
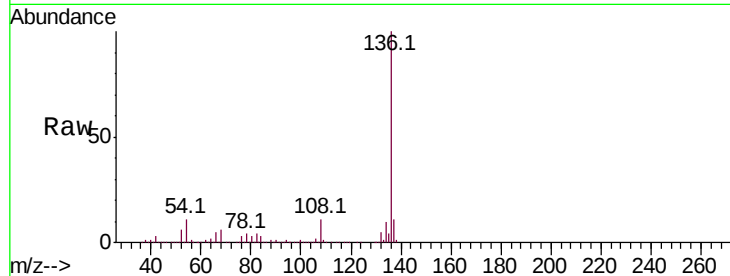
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.09 min Scan# 1020
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.0	13.6
54	10.9	8.4	12.6
68	6.1	5.0	7.4

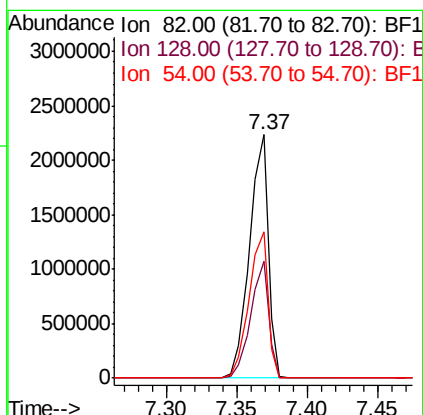
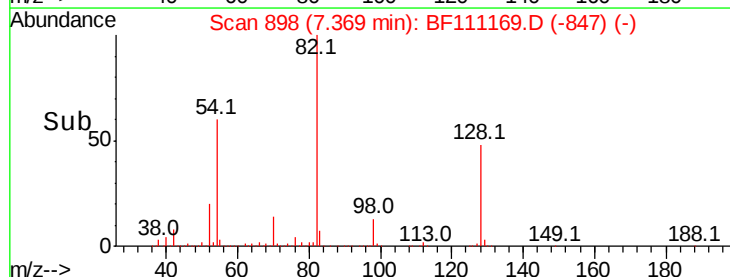
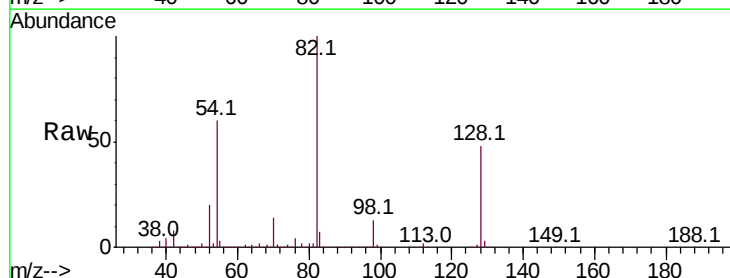
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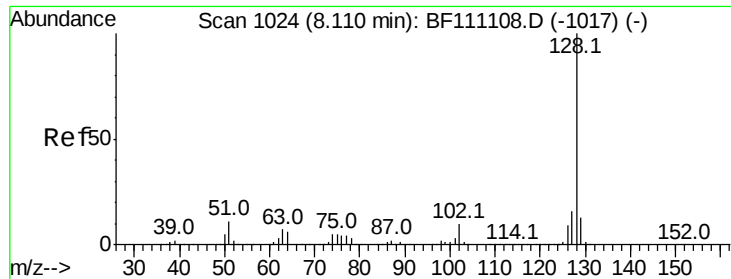
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#23
Nitrobenzene-d5
Concen: 82.398 ng
RT: 7.37 min Scan# 898
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.1	38.1	57.1
54	60.3	50.3	75.5





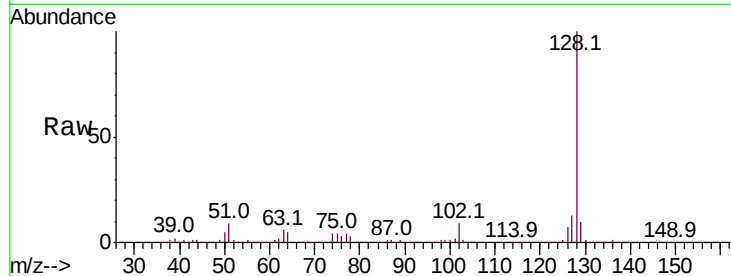
#31
Naphthalene
Concen: 3.286 ng
RT: 8.11 min Scan# 1024
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampleId :
S1

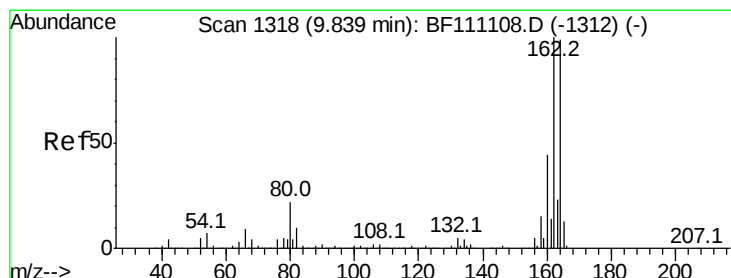
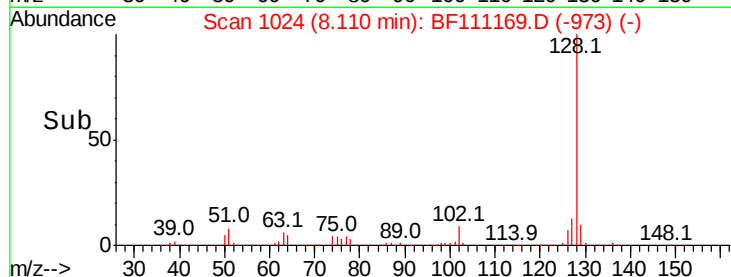
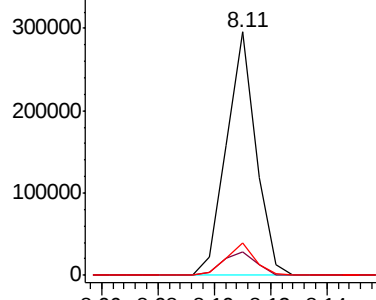
Tot Ion	Ratio	Lower	Upper
128	100		
129	9.9	10.5	15.7#
127	13.1	12.5	18.7

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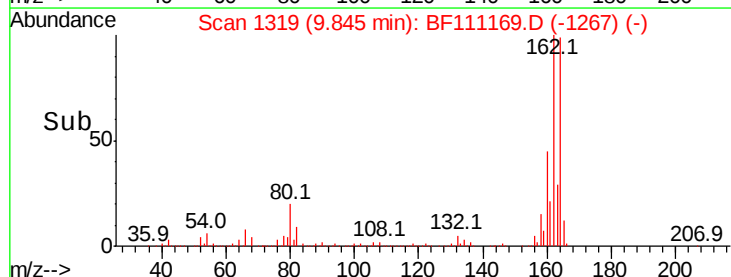
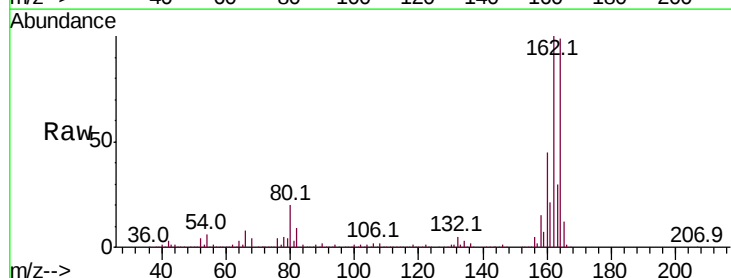
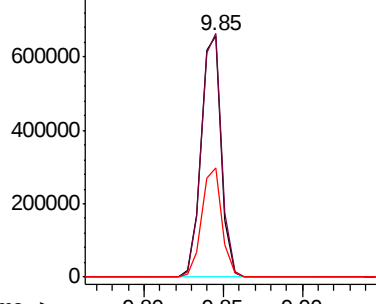
Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

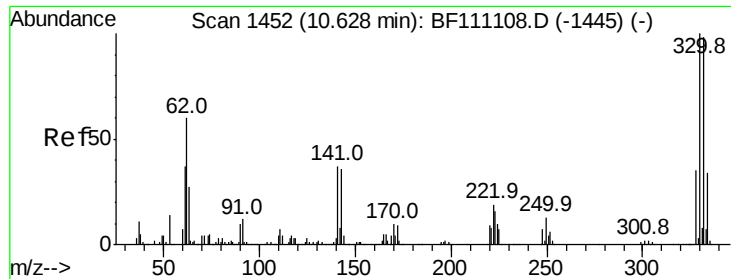


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	120.8
160	45.2	35.5	53.3

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: 110.587 ng

RT: 10.63 min Scan# 1452

Delta R.T. 0.00 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

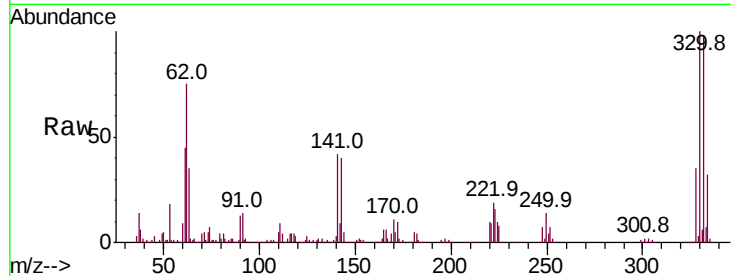
ClientSampled :

S1

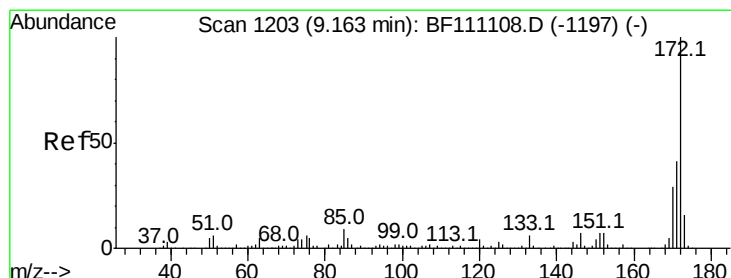
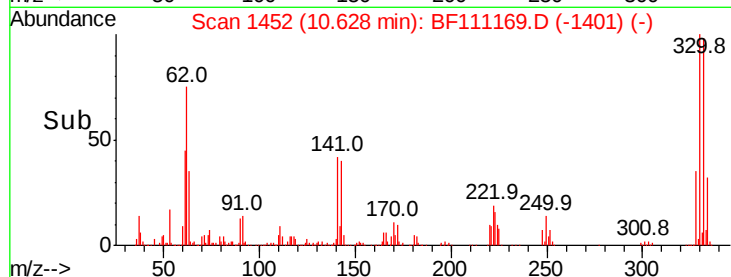
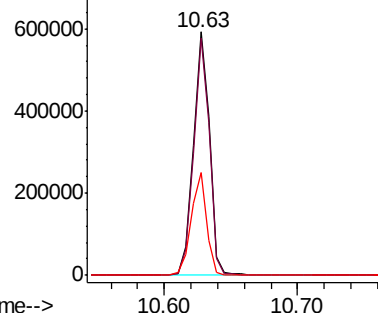
Tot Ion:	330	Resp:	506996
Ion Ratio	Lower	Upper	
330	100		
332	95.7	77.2	115.8
141	40.9	36.1	54.1

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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: 96.798 ng

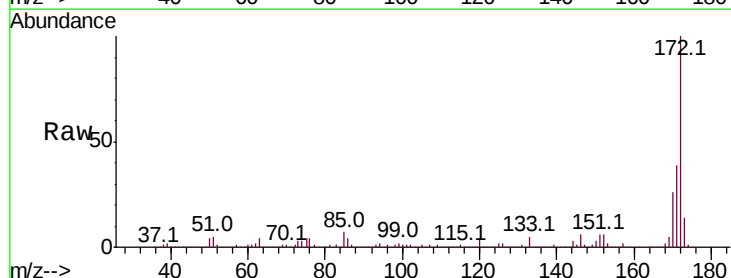
RT: 9.17 min Scan# 1204

Delta R.T. 0.01 min

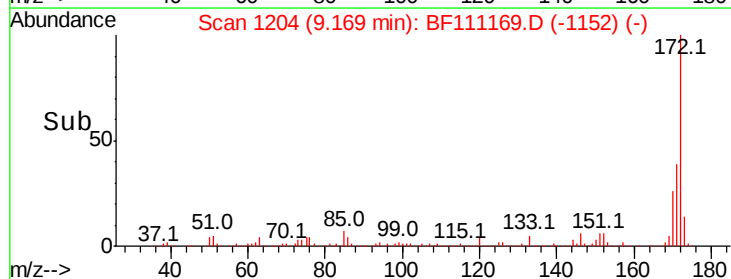
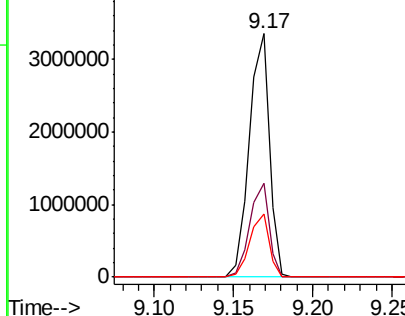
Lab File: BF111169.D

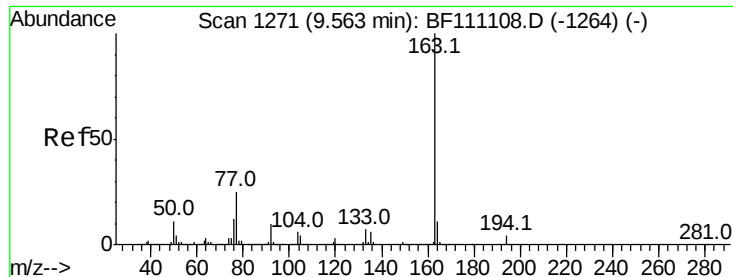
Acq: 7 Dec 2018 6:22

Tgt Ion:	172	Resp:	2953898
Ion Ratio	Lower	Upper	
172	100		
171	38.6	33.2	49.8
170	26.0	22.9	34.3



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





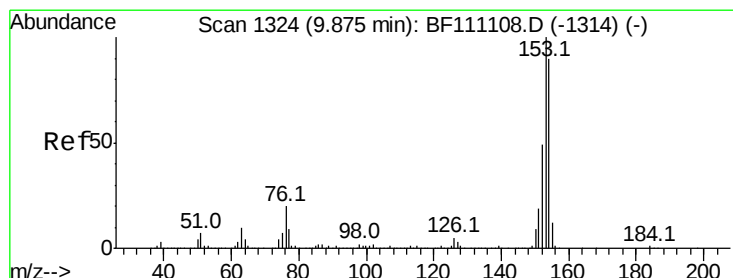
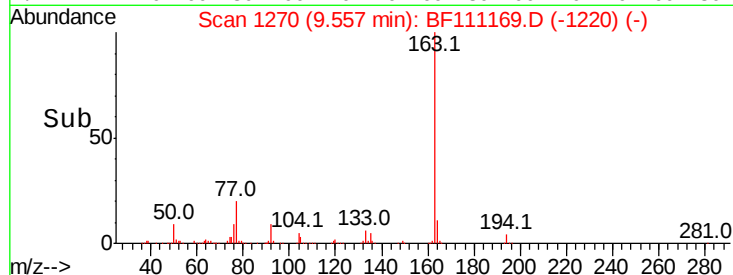
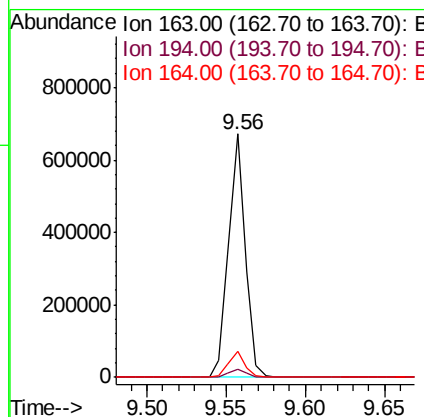
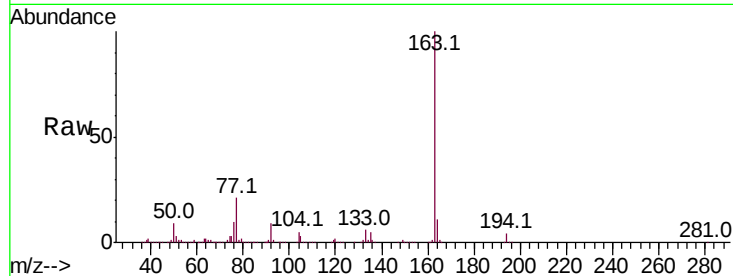
#50
Dimethylphthalate
Concen: 12.326 ng
RT: 9.56 min Scan# 1270
Delta R.T. -0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	494771		
194	3.6		3.0	4.4
164	10.6		8.9	13.3

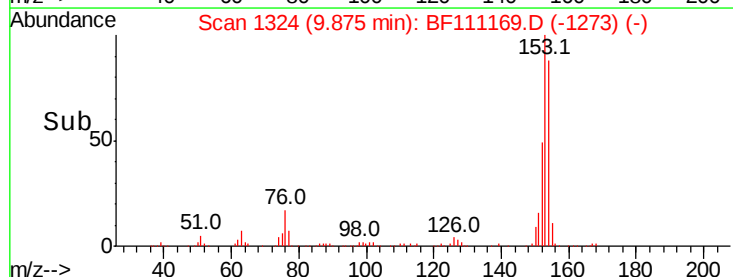
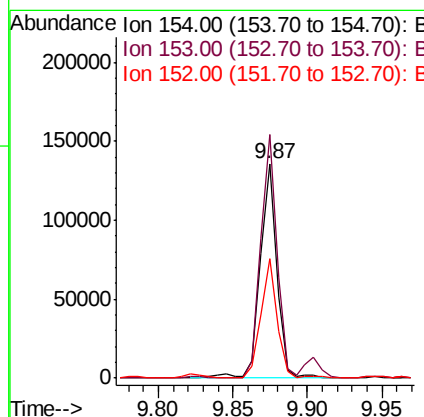
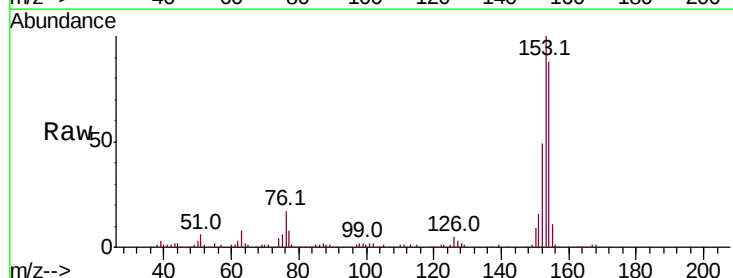
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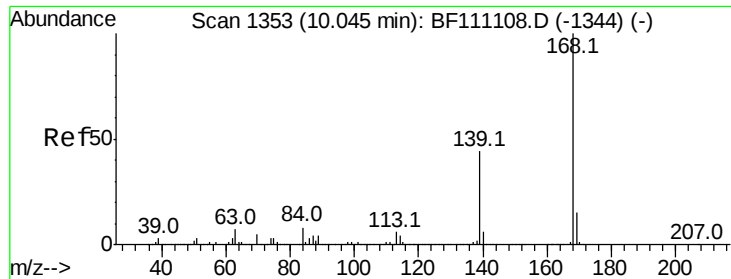
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#52
Acenaphthene
Concen: 3.073 ng
RT: 9.87 min Scan# 1324
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	104107		
153	113.5		88.7	133.1
152	55.4		43.8	65.8





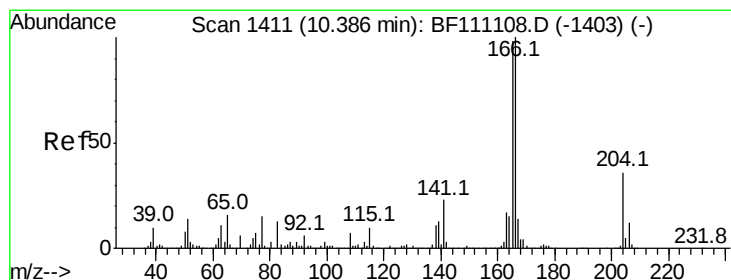
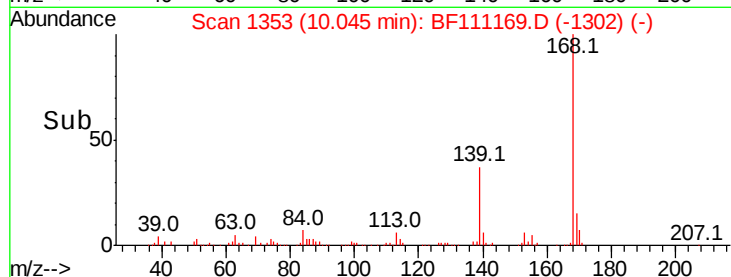
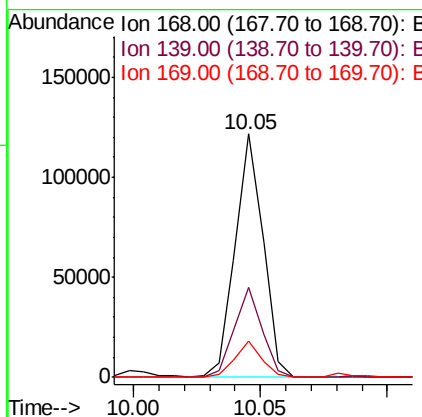
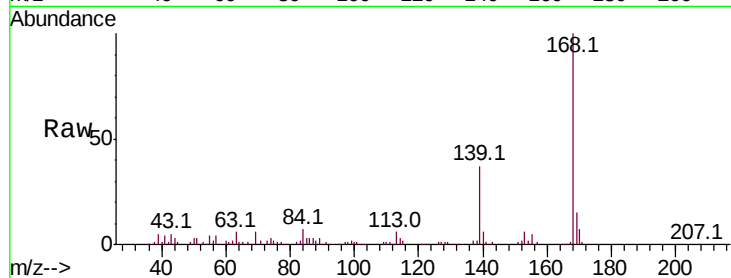
#55
Dibenzofuran
Concen: 2.000 ng
RT: 10.05 min Scan# 1353
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.8	35.1	52.7
169	14.7	12.2	18.4

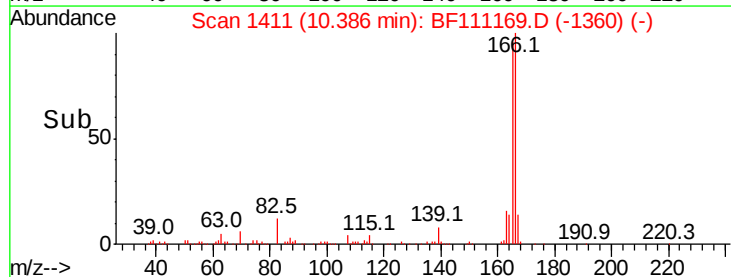
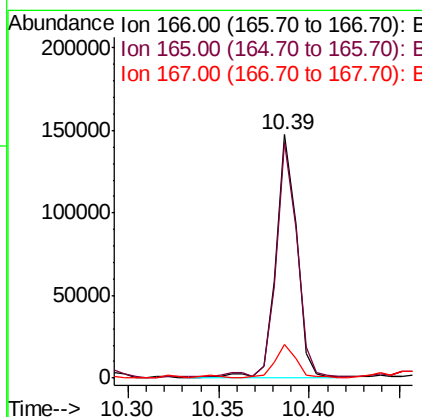
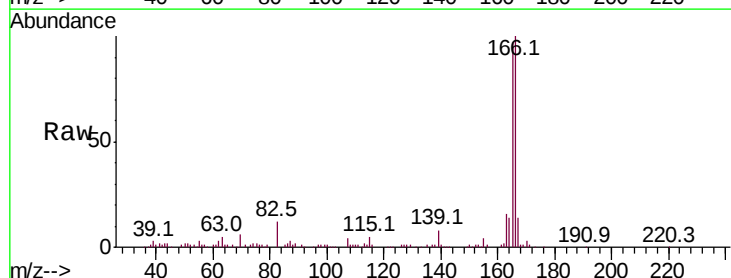
Manual Integrations
APPROVED

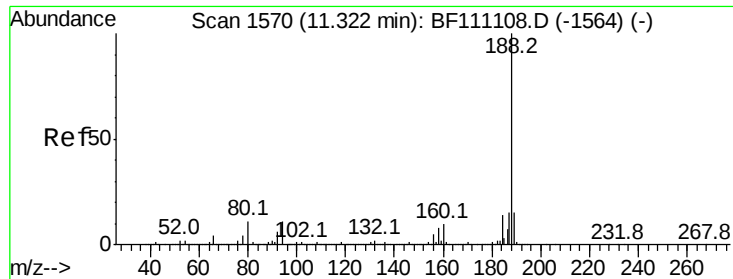
mohammad
12/10/2018 12:19:36 PM



#58
Fluorene
Concen: 3.576 ng
RT: 10.39 min Scan# 1411
Delta R.T. 0.00 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.4	117.6
167	13.6	11.4	17.2





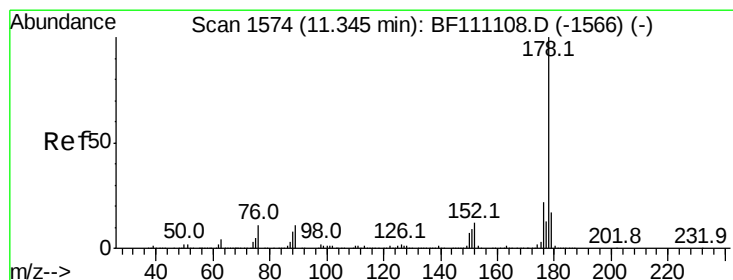
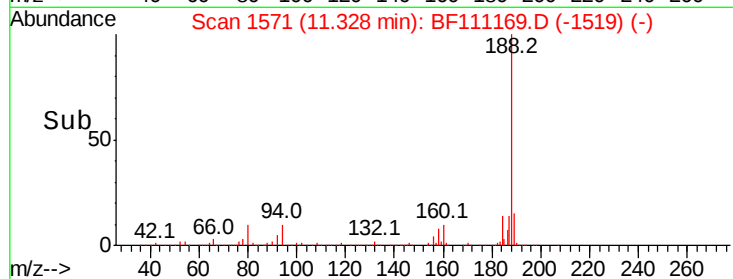
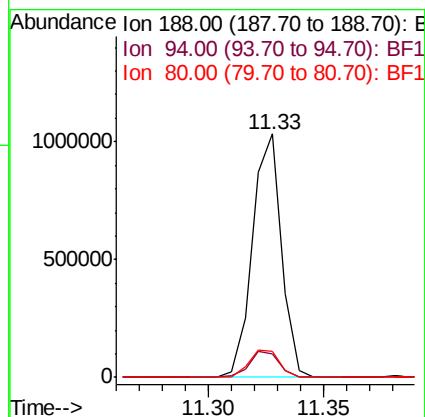
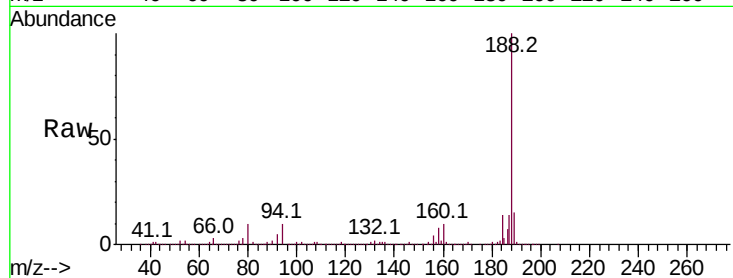
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.33 min Scan# 1571
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	9.9	8.5	12.7
80	10.5	9.0	13.6

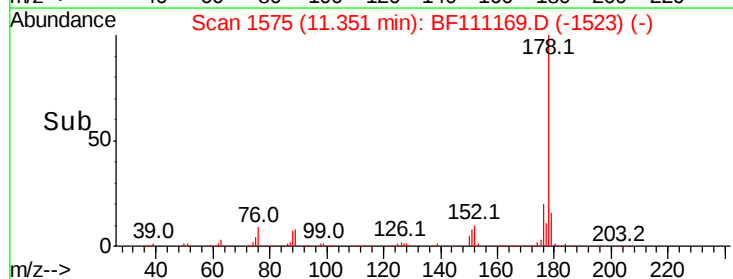
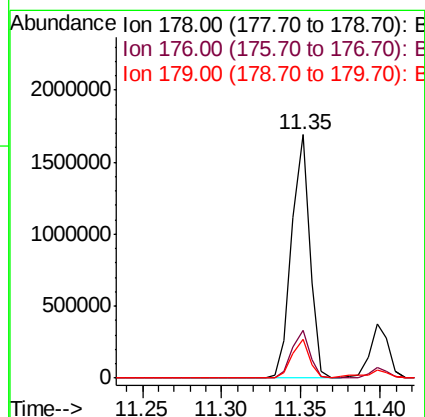
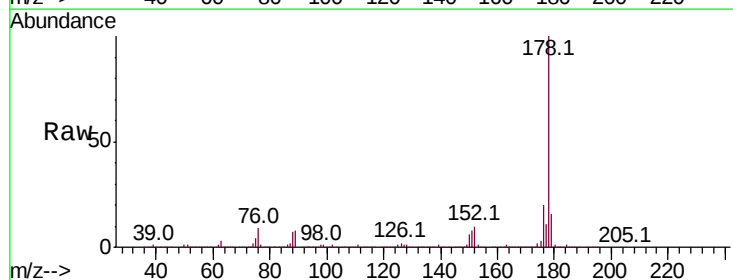
Manual Integrations
APPROVED

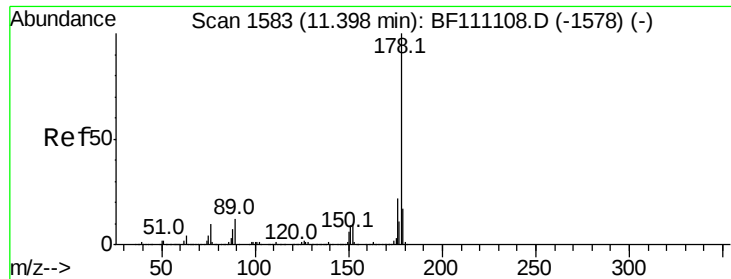
mohammad
12/10/2018 12:19:36 PM



#71
Phenanthrene
Concen: 30.747 ng
RT: 11.35 min Scan# 1575
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.8	17.7	26.5
179	15.7	14.0	21.0





#72

Anthracene

Concen: 6.903 ng

RT: 11.40 min Scan# 1583

Delta R.T. 0.00 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

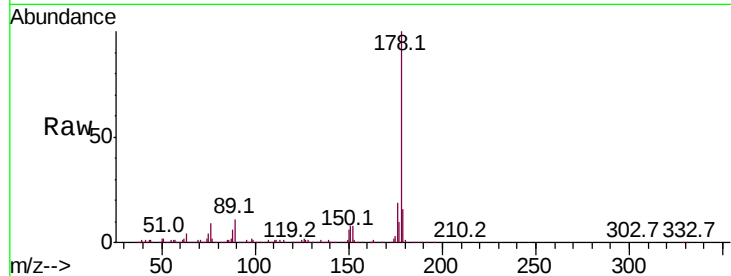
ClientSampled :

S1

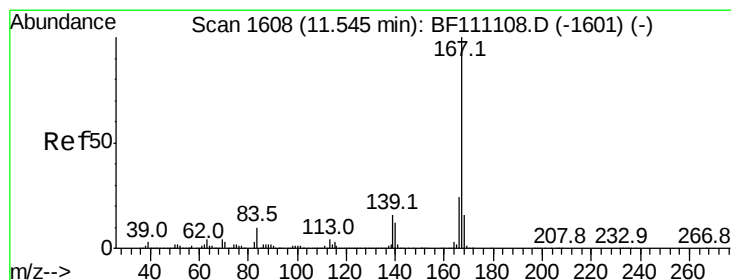
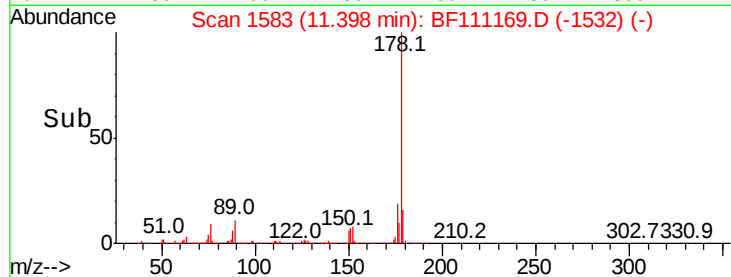
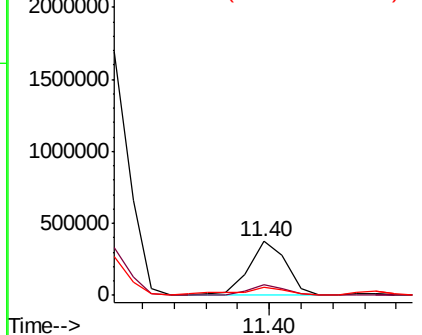
Tot Ion:	178	Resp:	304106
Ion Ratio	Lower	Upper	
178	100		
176	19.2	17.3	25.9
179	15.8	13.8	20.8

Manual Integrations
APPROVED

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12/10/2018 12:19:36 PM



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: 3.389 ng

RT: 11.55 min Scan# 1609

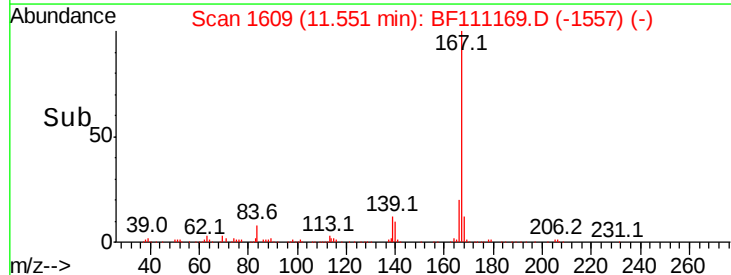
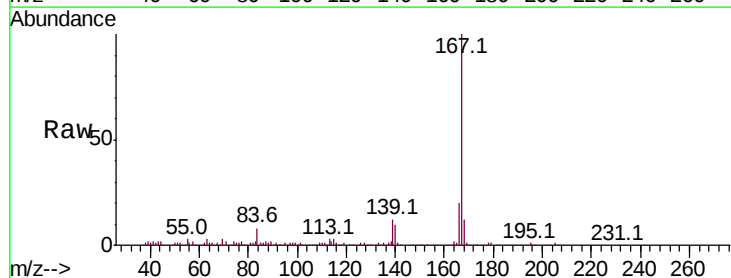
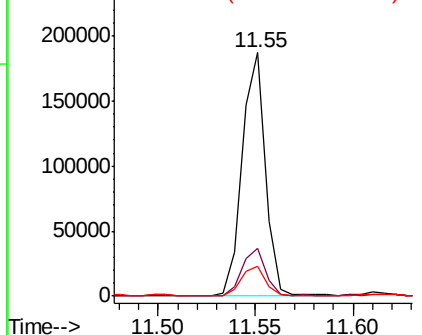
Delta R.T. 0.01 min

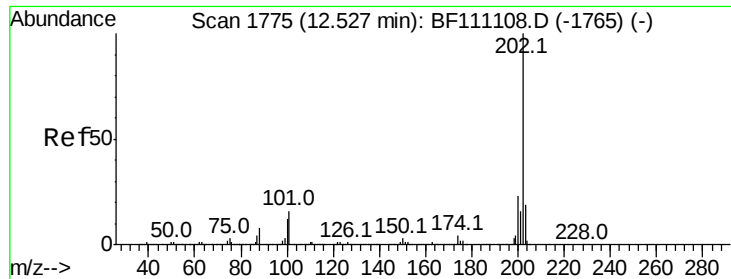
Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Tgt Ion:	167	Resp:	155338
Ion Ratio	Lower	Upper	
167	100		
166	19.6	19.4	29.0
139	12.5	12.6	18.8#

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: 41.003 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

ClientSampleId :

S1

Tot Ion:202 Resp: 1753522

Ion Ratio Lower Upper

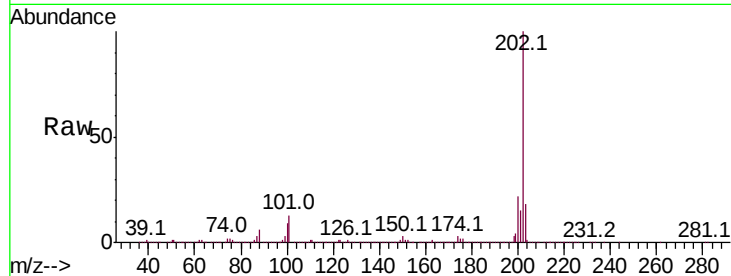
202 100

101 12.6 0.0 35.8

203 18.2 0.0 38.6

Manual Integrations
APPROVED

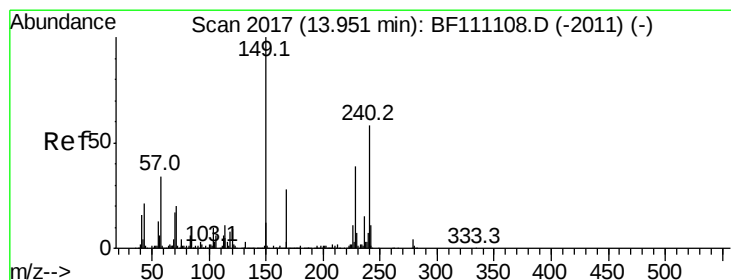
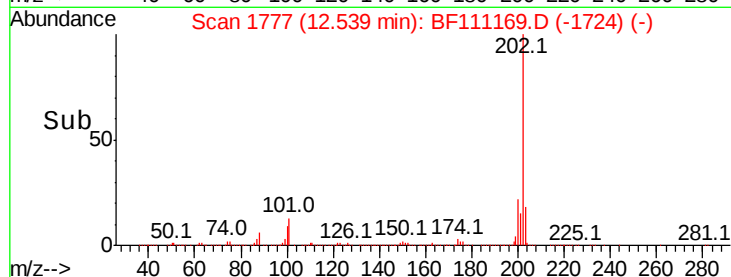
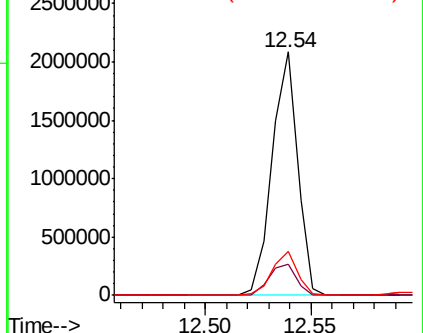
mohammad
12/10/2018 12:19:36 PM



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.01 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

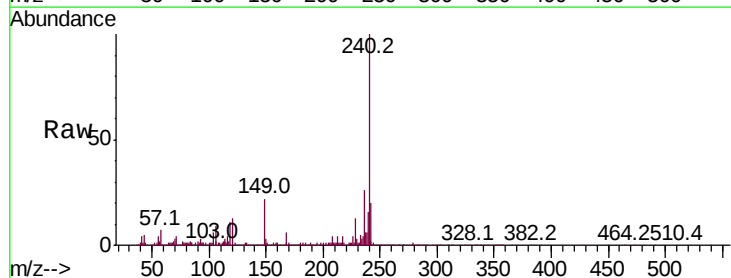
Tgt Ion:240 Resp: 657796

Ion Ratio Lower Upper

240 100

120 13.0 12.8 19.2

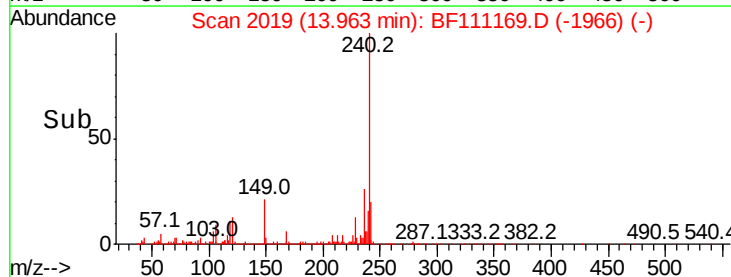
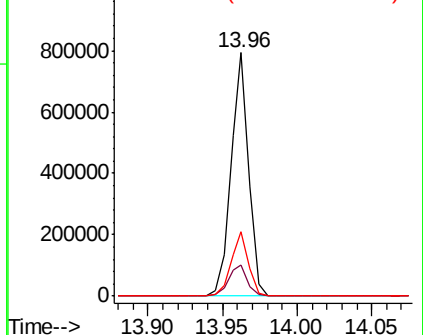
236 26.4 21.1 31.7

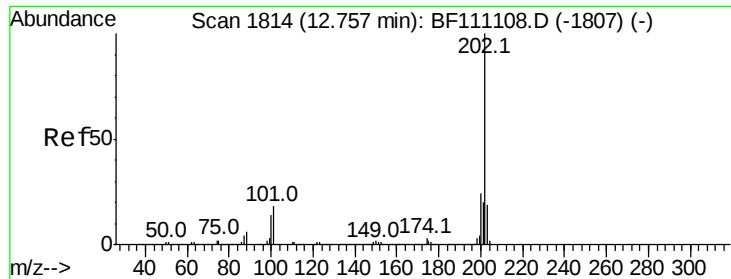


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





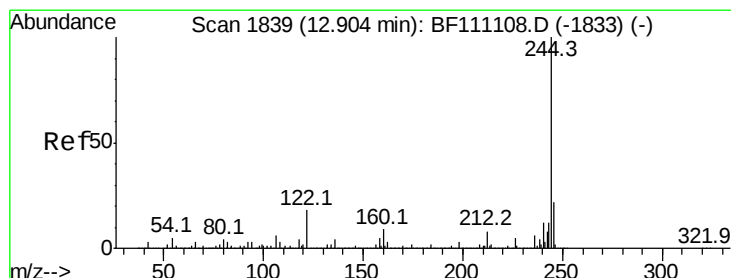
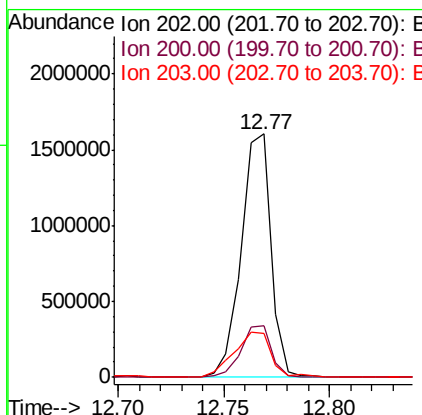
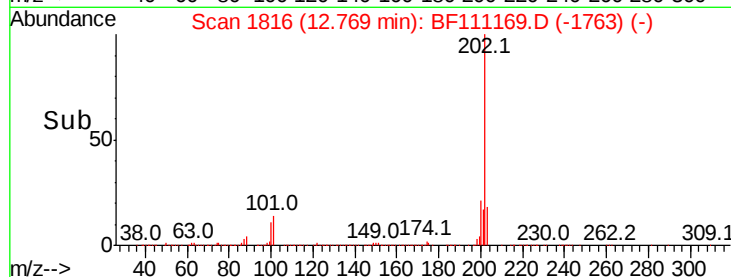
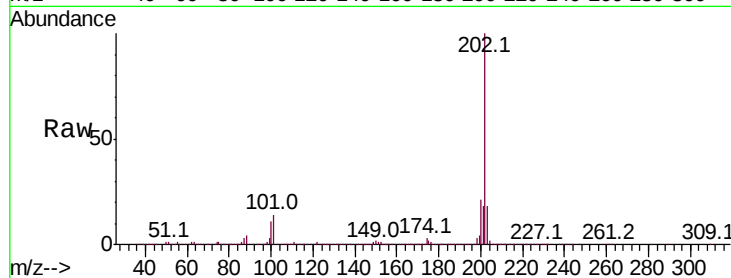
#78
Pvrene
Concen: 30.583 ng
RT: 12.77 min Scan# 1816
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	19.3	28.9
203	18.1	15.4	23.2

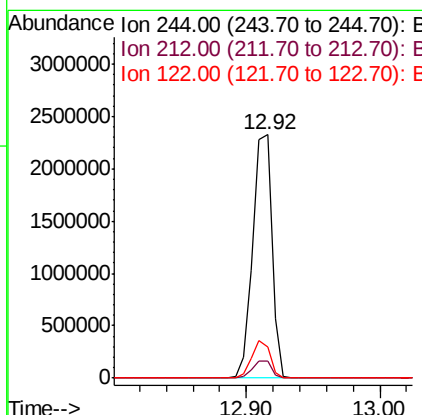
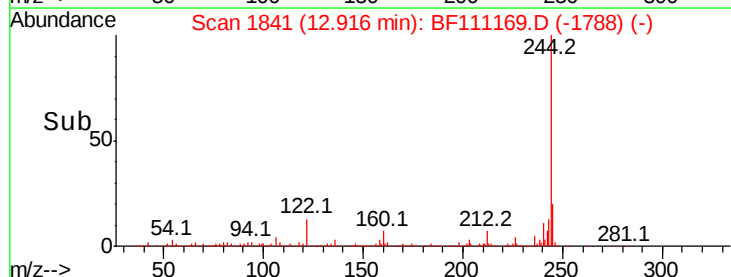
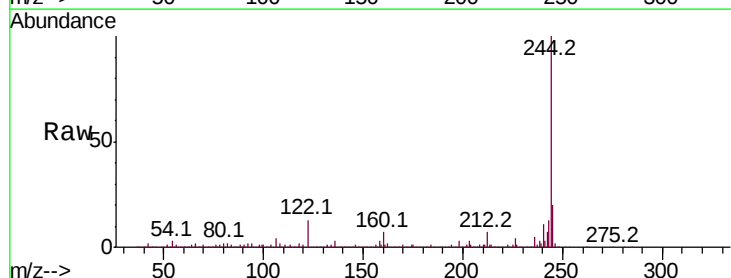
Manual Integrations
APPROVED

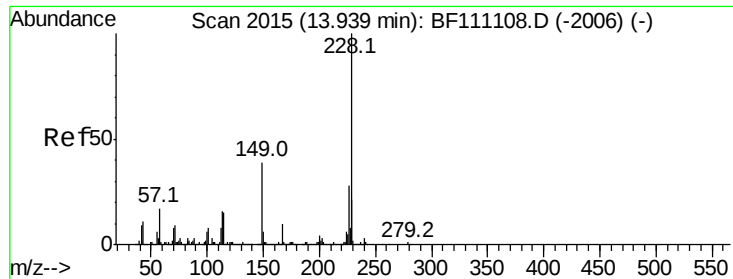
mohammad
12/10/2018 12:19:36 PM



#79
Terphenyl-d14
Concen: 71.036 ng
RT: 12.92 min Scan# 1841
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.6	9.8
122	13.0	14.2	21.2#





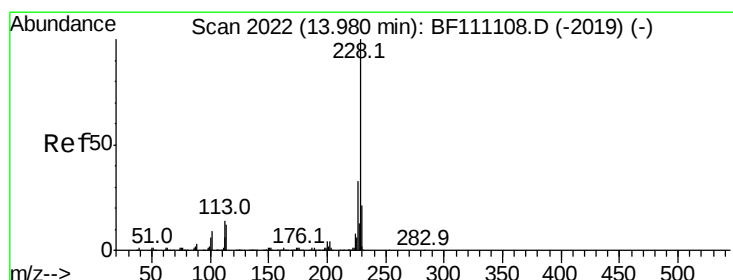
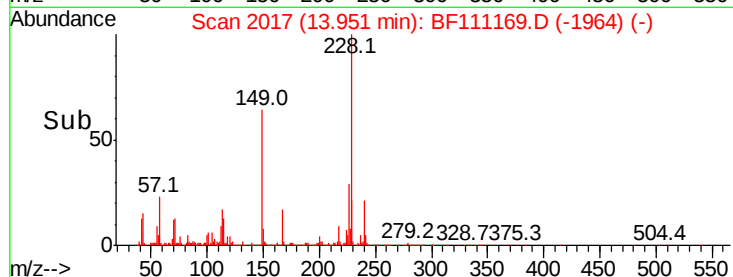
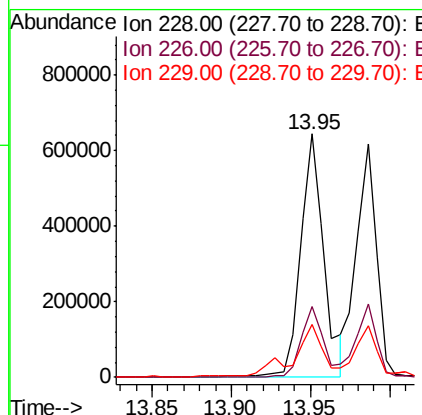
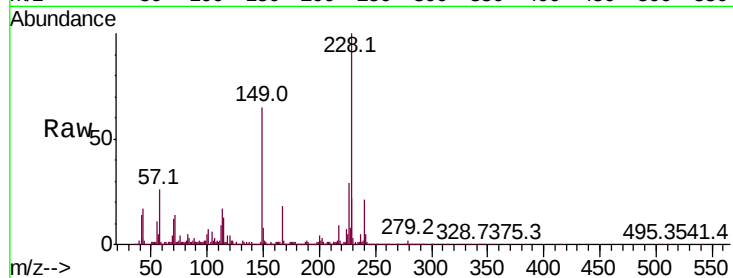
#81
Benzo(a)anthracene
Concen: 16.831 ng
RT: 13.95 min Scan# 2017
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampleId :
S1

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	34.0
229	21.5	16.7	25.1

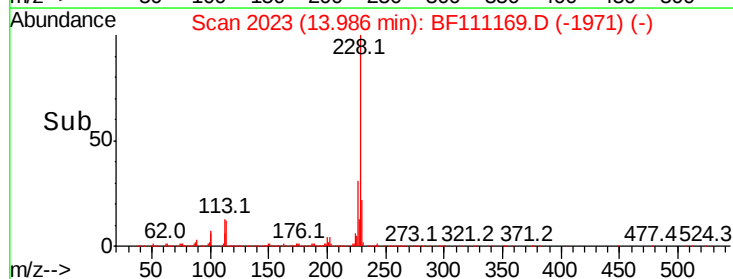
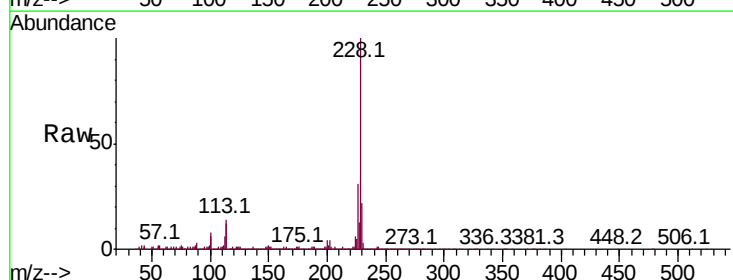
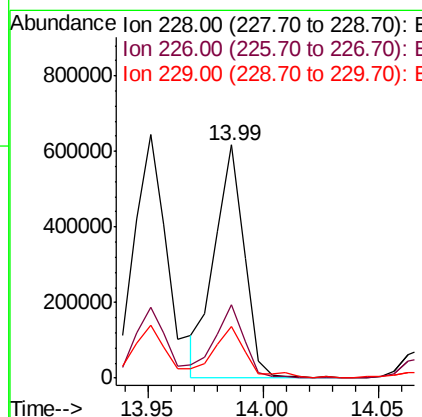
Manual Integrations
APPROVED

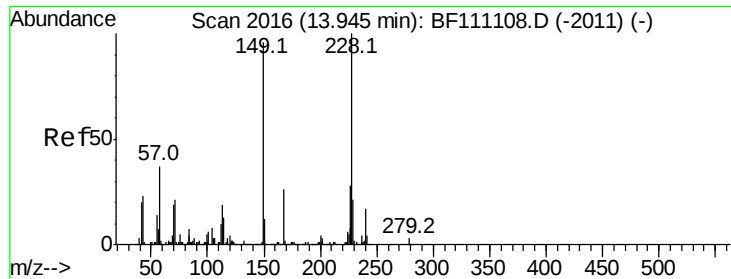
mohammad
12/10/2018 12:19:36 PM



#83
Chrysene
Concen: 14.240 ng
RT: 13.99 min Scan# 2023
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	26.2	39.2
229	22.0	16.9	25.3





#84

Bis(2-ethylhexyl)phthalate

Concen: 14.940 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

ClientSampleId :

S1

Tot Ion:149 Resp: 446748

Ion Ratio Lower Upper

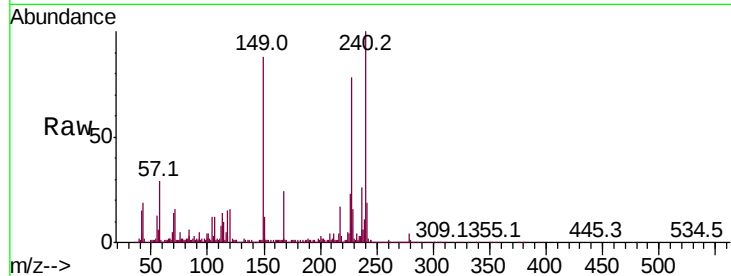
149 100

167 27.1 21.6 32.4

279 4.0 2.3 3.5#

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:36 PM

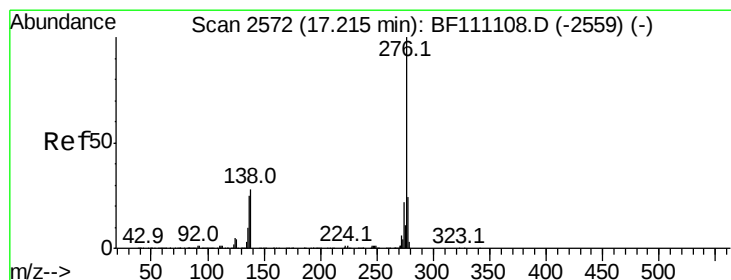
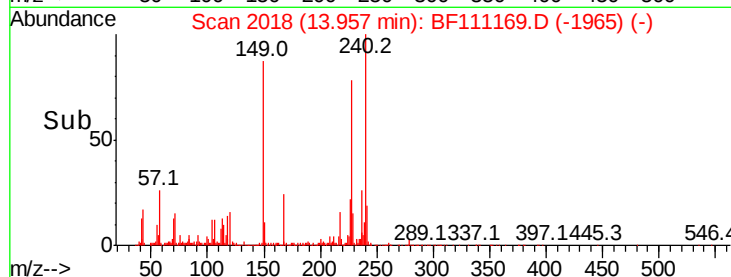
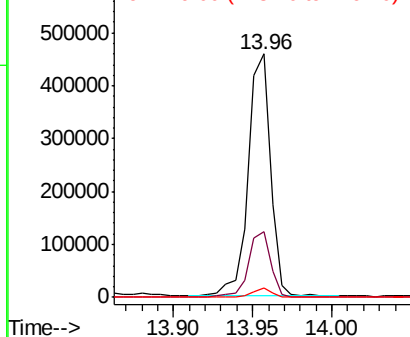


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.068 ng

RT: 16.81 min Scan# 2503

Delta R.T. 0.02 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Tgt Ion:276 Resp: 247858

Ion Ratio Lower Upper

276 100

138 27.2 20.2 30.4

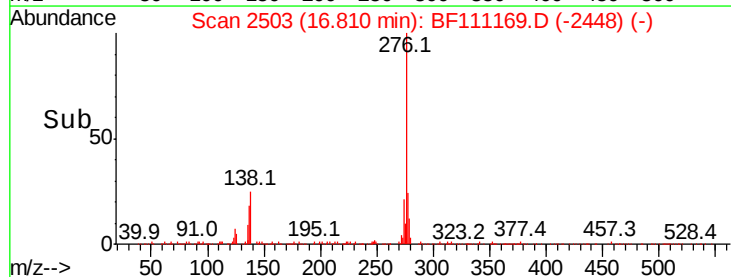
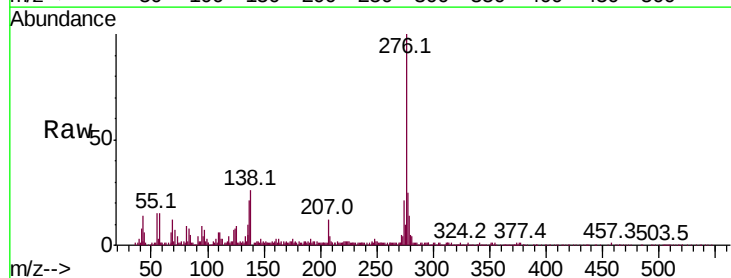
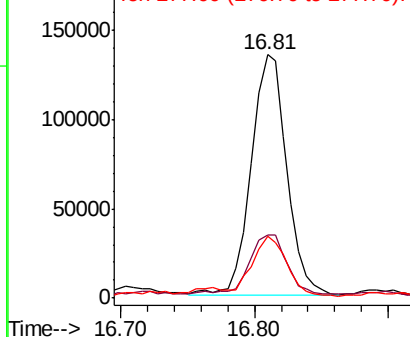
277 24.7 15.8 23.6#

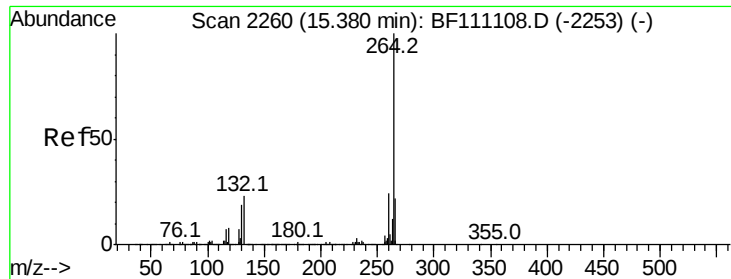
Abundance

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

Pervlene-d12

Concen: 20.000 ng

RT: 15.40 min Scan# 2263

Delta R.T. 0.02 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

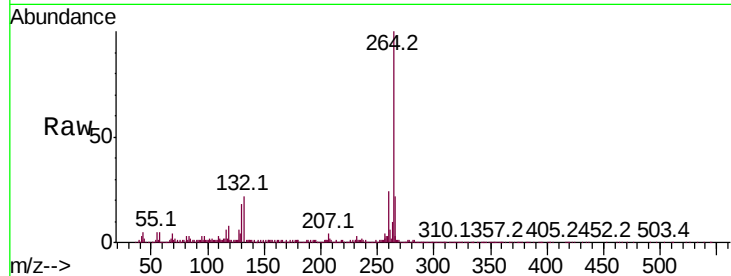
ClientSampled :

S1

Tot Ion:	264	Resp:	493277
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.4	29.0
265	21.8	17.4	26.0

Manual Integrations
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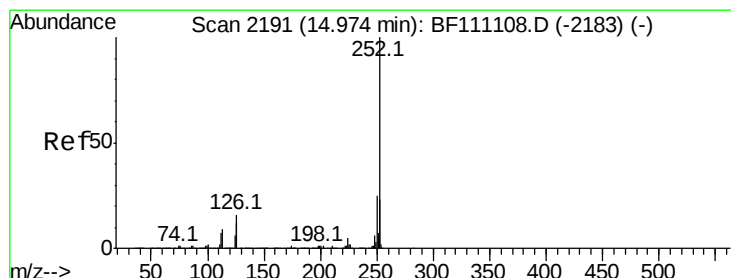
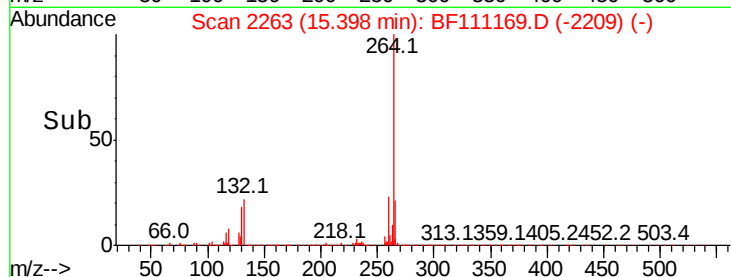
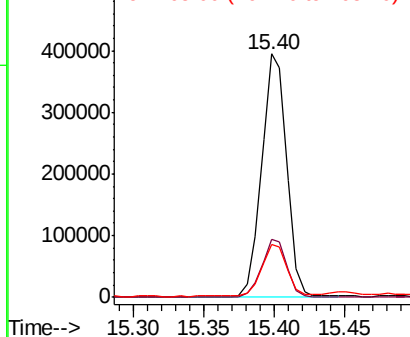


Abundance

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: 21.096 ng m

RT: 14.99 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

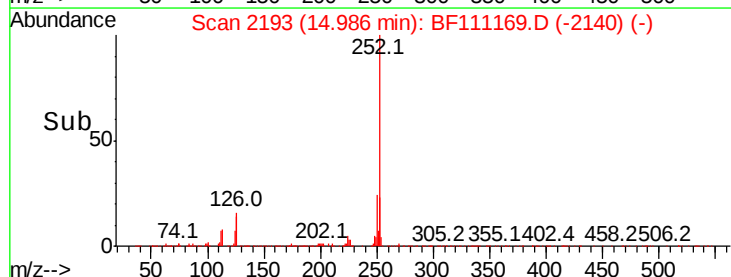
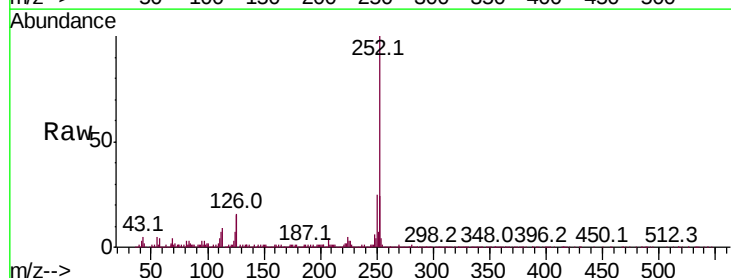
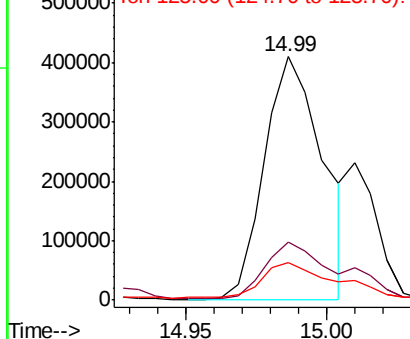
Tgt Ion:	252	Resp:	589661
Ion Ratio	Lower	Upper	
252	100		
253	23.7	18.5	27.7
125	15.4	9.9	14.9#

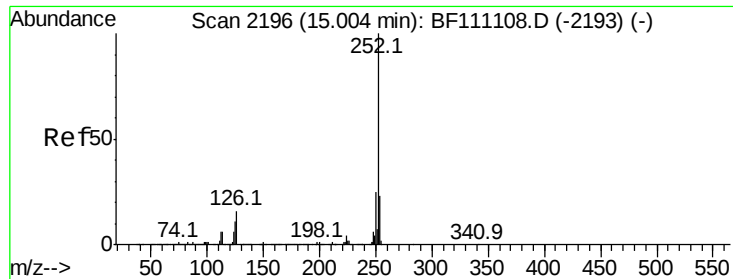
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





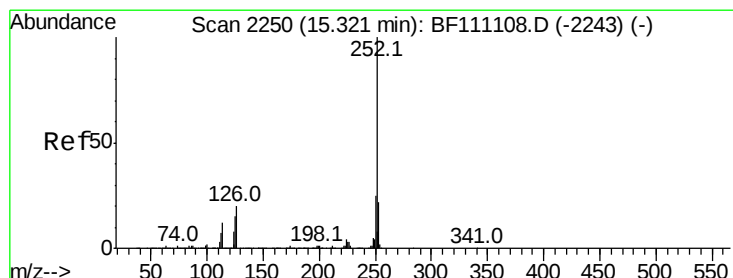
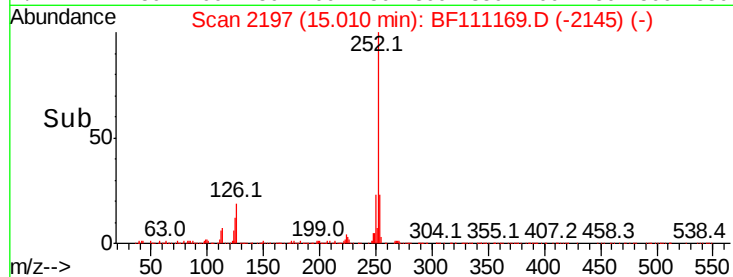
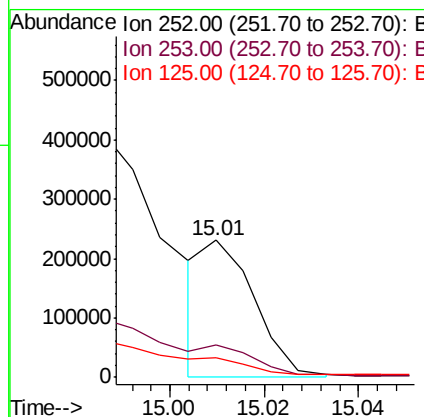
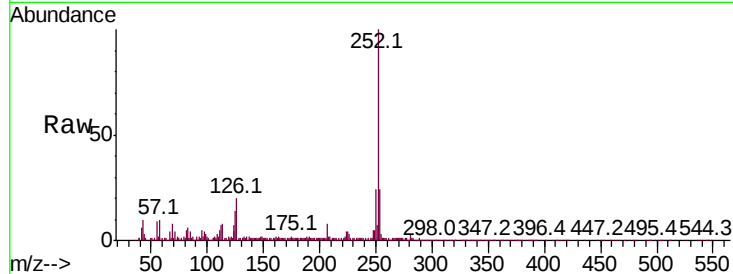
#89
Benzo(k)fluoranthene
Concen: 6.454 ng m
RT: 15.01 min Scan# 2197
Delta R.T. 0.01 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Instrument :
BNA_F
ClientSampled :
S1

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.2	27.4
125	14.0	9.9	14.9

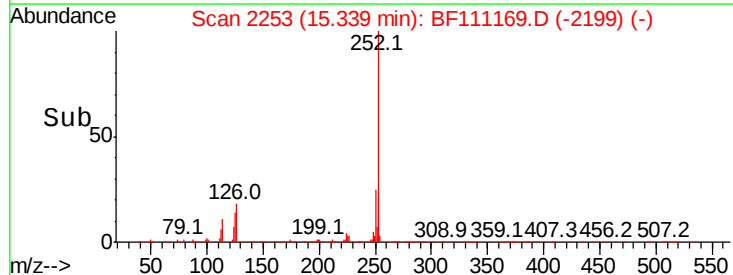
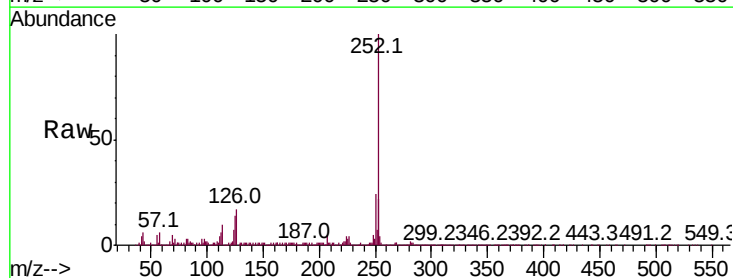
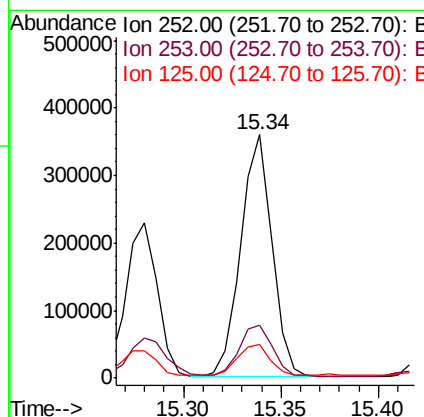
Manual Integrations
APPROVED

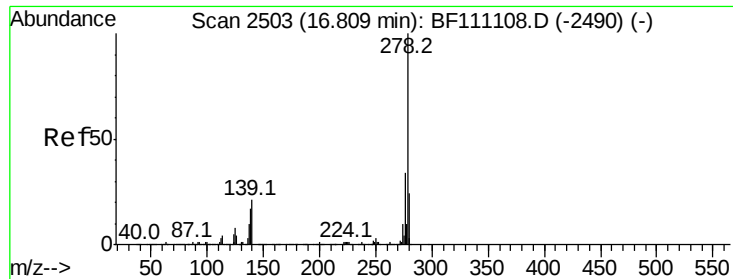
mohammad
12/10/2018 12:19:36 PM



#90
Benzo(a)pyrene
Concen: 15.618 ng
RT: 15.34 min Scan# 2253
Delta R.T. 0.02 min
Lab File: BF111169.D
Acq: 7 Dec 2018 6:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	13.7	12.4	18.6





#91

Dibenzo(a,h)anthracene

Concen: 2.771 ng

RT: 16.82 min Scan# 2505

Delta R.T. 0.01 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Instrument :

BNA_F

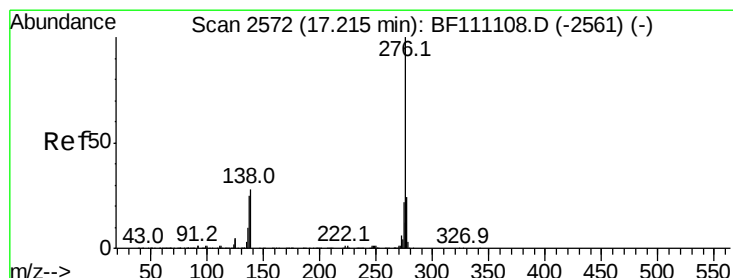
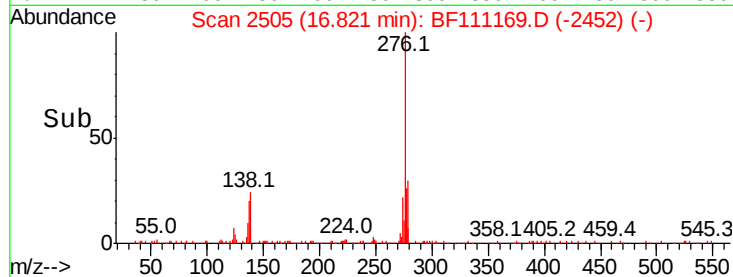
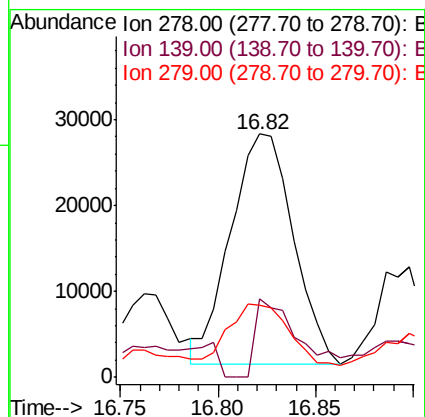
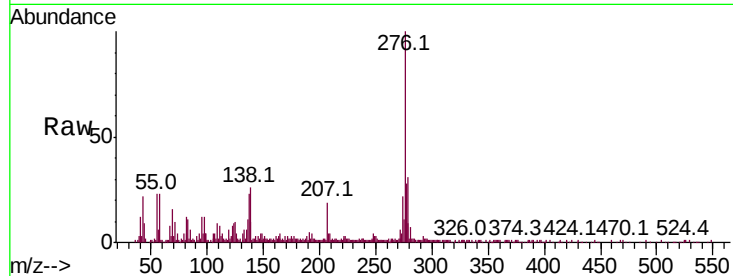
ClientSampled :

S1

Tot Ion:	278	Resp:	59616
Ion Ratio	Lower	Upper	
278	100		
139	32.0	16.6	25.0#
279	29.5	18.8	28.2#

Manual Integrations
APPROVED

mohammad
12/10/2018 12:19:36 PM



#92

Benzo(g,h,i)perylene

Concen: 10.828 ng

RT: 17.23 min Scan# 2575

Delta R.T. 0.02 min

Lab File: BF111169.D

Acq: 7 Dec 2018 6:22

Tgt Ion:	276	Resp:	234099
Ion Ratio	Lower	Upper	
276	100		
277	22.8	19.3	28.9
138	29.8	22.3	33.5

