

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
 Data File : BF112261.D
 Acq On : 26 Jan 2019 4:42
 Operator : JU/SJ
 Sample : K1015-15 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-012419-B

Manual Integrations
 APPROVED

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Quant Time: Jan 28 01:14:22 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 25 16:47:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	209394	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	782614	20.00	ng	-0.01
39) Acenaphthene-d10	9.88	164	362499	20.00	ng	0.00
64) Phenanthrene-d10	11.36	188	565122	20.00	ng	-0.01
76) Chrysene-d12	14.00	240	517646	20.00	ng	-0.01
87) Perylene-d12	15.47	264	526918	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	196807	19.96	ng	0.00
7) Phenol-d6	6.48	99	244649	17.86	ng	-0.03
23) Nitrobenzene-d5	7.40	82	141246	10.40	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	53048	12.57	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	304146	11.87	ng	-0.01
79) Terphenyl-d14	12.94	244	258366	9.40	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.15	128	620108	16.944	ng	98
37) 2-Methylnaphthalene	8.84	142	171861	6.859	ng	99
38) 1-Methylnaphthalene	8.93	142	100239	4.174	ng	99
46) 1,1'-Biphenyl	9.30	154	63943	2.018	ng	97
52) Acenaphthene	9.91	154	170692	7.933	ng	98
55) Dibenzofuran	10.08	168	413888	12.587	ng	99
58) Fluorene	10.43	166	545509	22.169	ng	99
71) Phenanthrene	11.39	178	2172544	73.947	ng	100
72) Anthracene	11.44	178	729101	24.913	ng	99
73) Carbazole	11.59	167	284181	9.844	ng	99
75) Fluoranthene	12.58	202	1833107	58.172	ng	99
78) Pvrene	12.81	202	1423916	39.731	ng	100
81) Benzo(a)anthracene	13.99	228	782434	25.713	ng	100
83) Chrysene	14.03	228	632122	21.762	ng	96
86) Indeno(1,2,3-cd)pyrene	16.94	276	249459	10.838	ng	94
88) Benzo(b)fluoranthene	15.04	252	838544m	26.610	ng	
89) Benzo(k)fluoranthene	15.07	252	228543m	7.572	ng	
90) Benzo(a)pyrene	15.41	252	562220	19.828	ng	98
91) Dibenzo(a,h)anthracene	16.94	278	65475	2.865	ng	# 87
92) Benzo(a,h,i)perylene	17.39	276	211868	9.827	ng	99

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

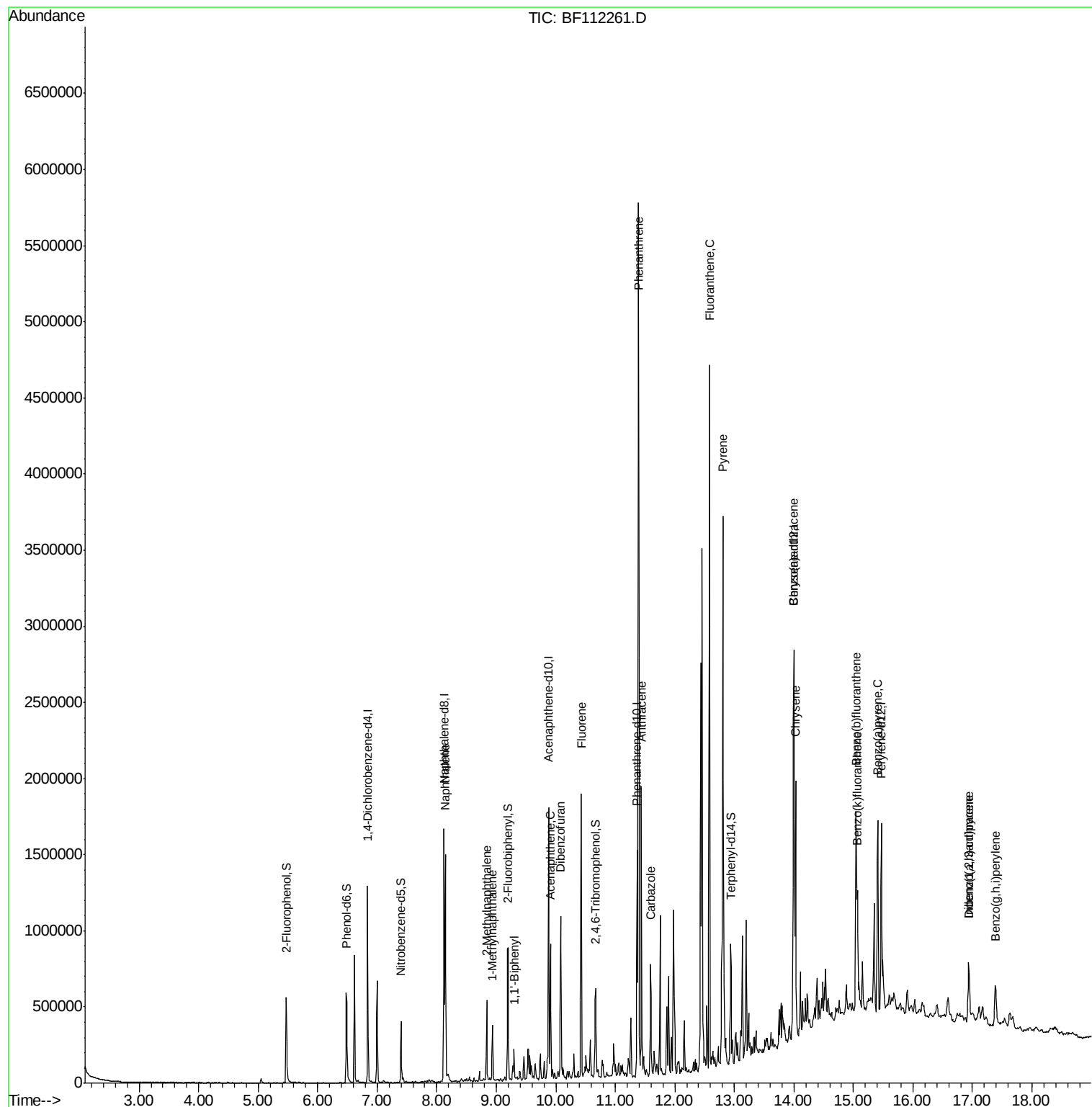
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112261.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

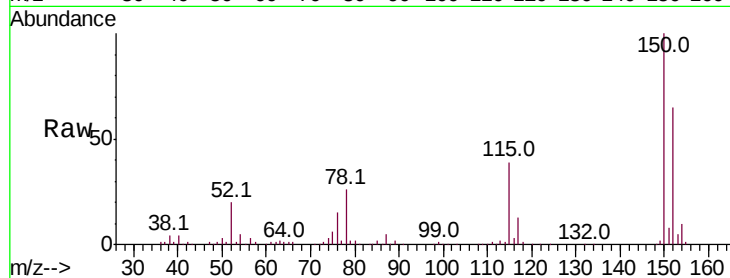
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.84 min Scan# 808
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.7	127.4	191.0
115	60.2	45.5	68.3

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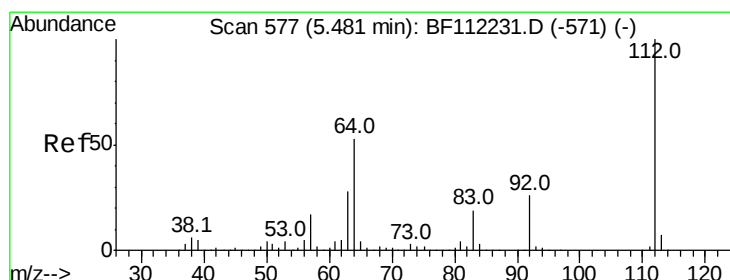
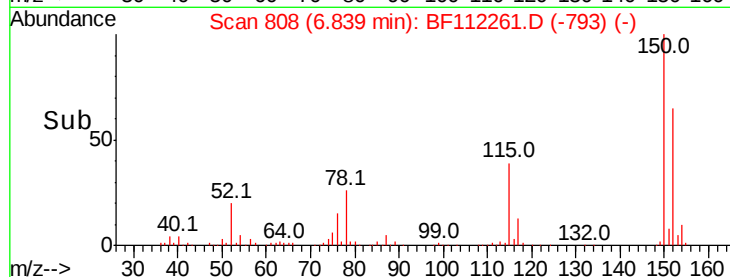
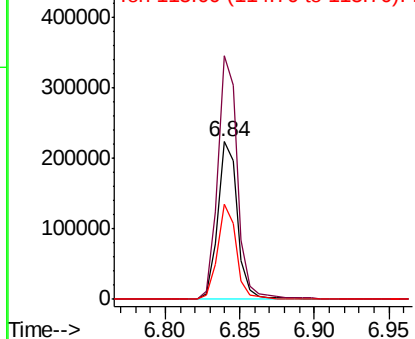


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

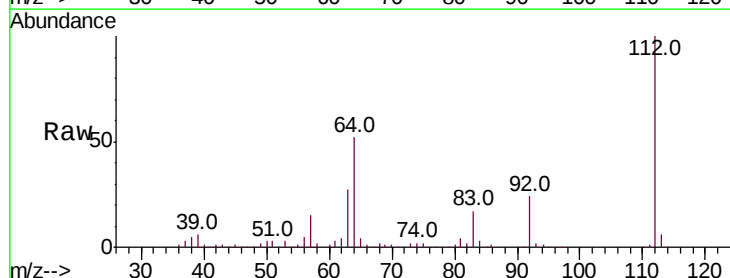
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 19.964 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.4	45.7	68.5
63	27.4	23.6	35.4

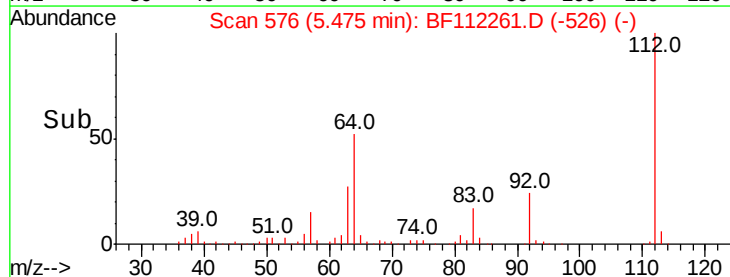
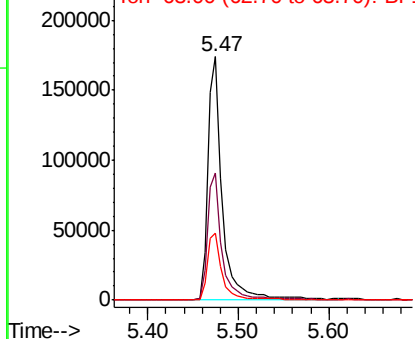


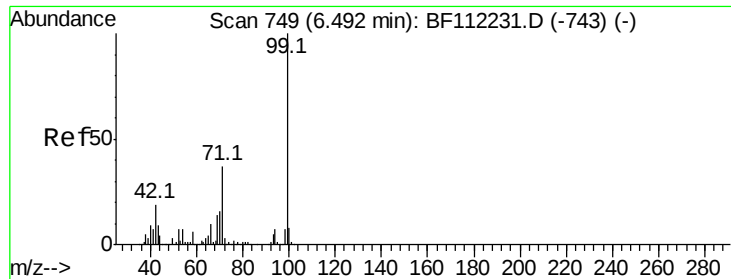
Abundance

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: 17.860 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.03 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Instrument :

BNA_F

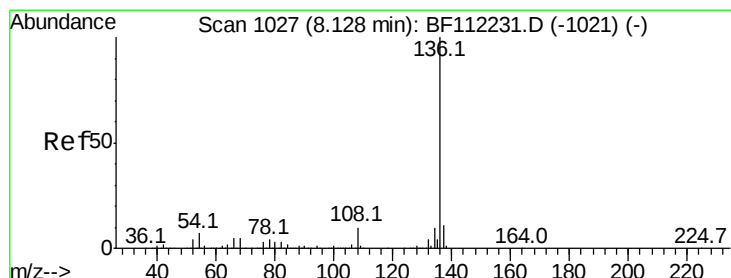
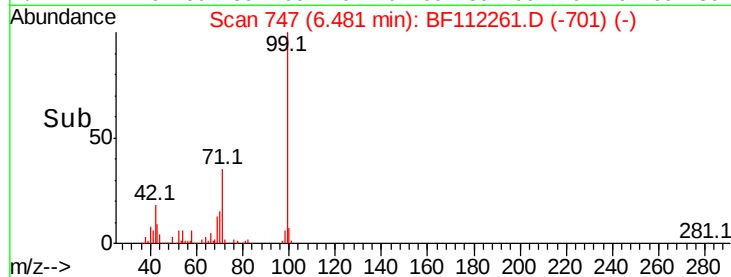
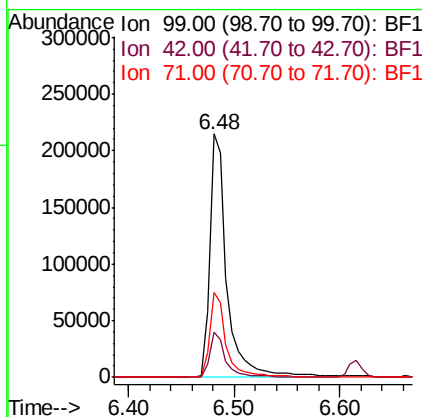
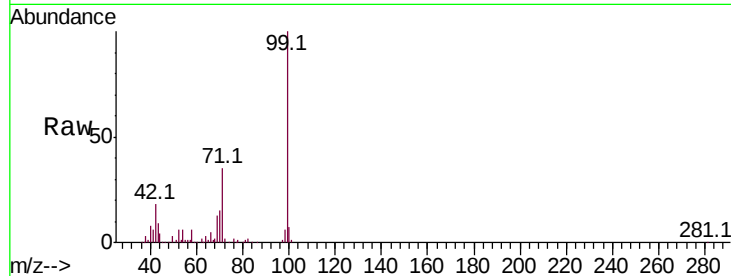
ClientSampleId :

SU-04-012419-B

Tot Ion:	99	Resp:	244649
Ion Ratio	Lower	Upper	
99	100		
42	18.4	15.1	22.7
71	34.8	26.9	40.3

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#21

Naphthalene-d8

Concen: 20.000 ng

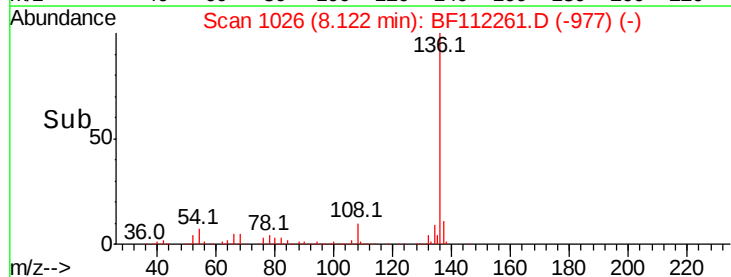
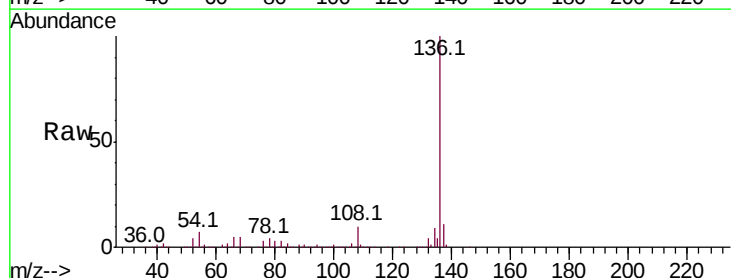
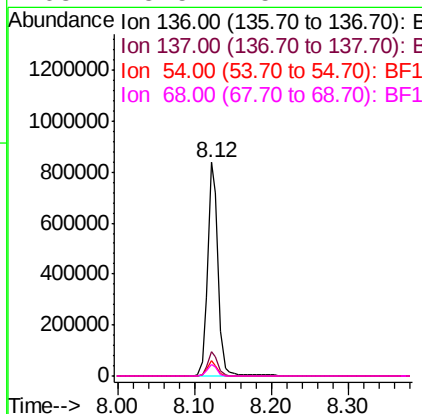
RT: 8.12 min Scan# 1026

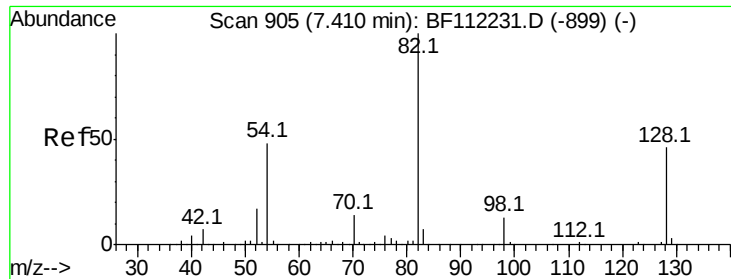
Delta R.T. -0.01 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Tgt Ion:	136	Resp:	782614
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.1	13.7
54	7.2	5.9	8.9
68	5.5	5.1	7.7





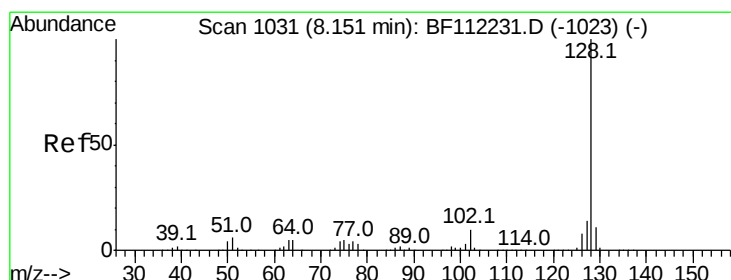
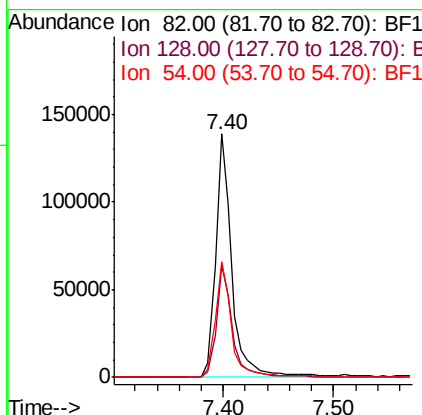
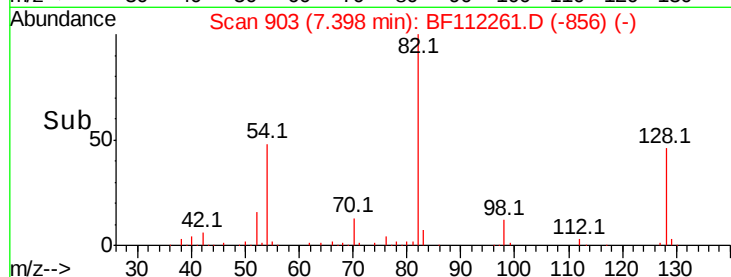
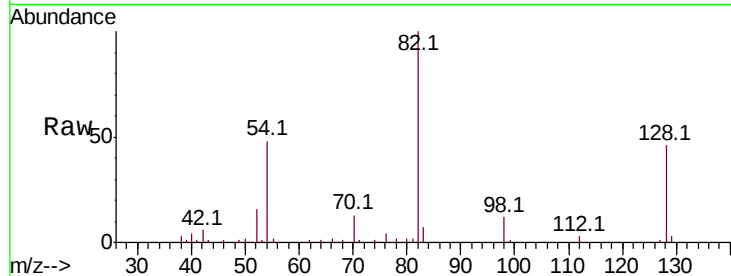
#23
Nitrobenzene-d5
Concen: 10.399 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampled :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.0	37.8	56.8
54	47.6	39.7	59.5

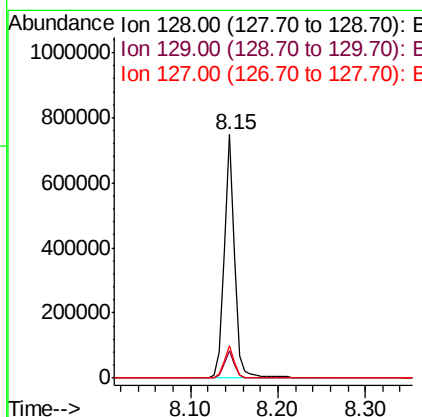
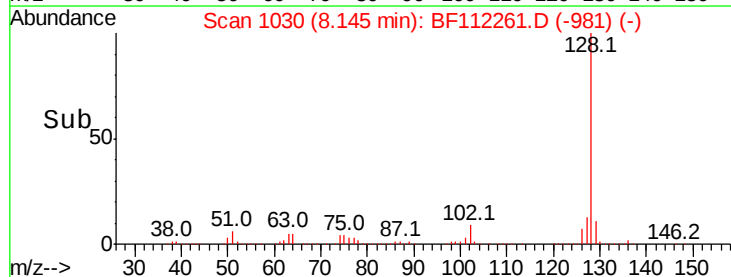
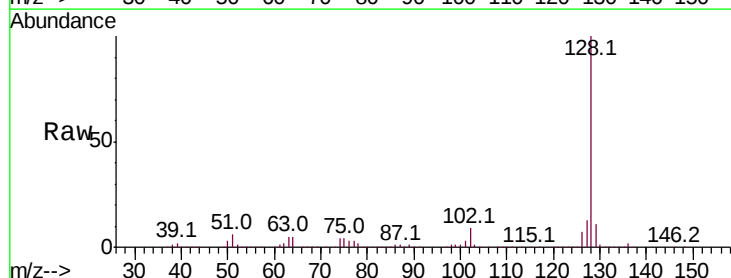
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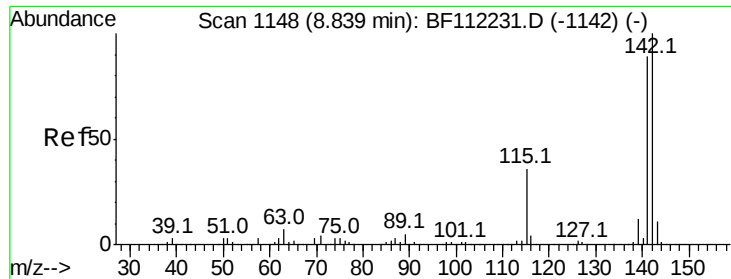
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#31
Naphthalene
Concen: 16.944 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.6	14.4
127	13.3	11.1	16.7





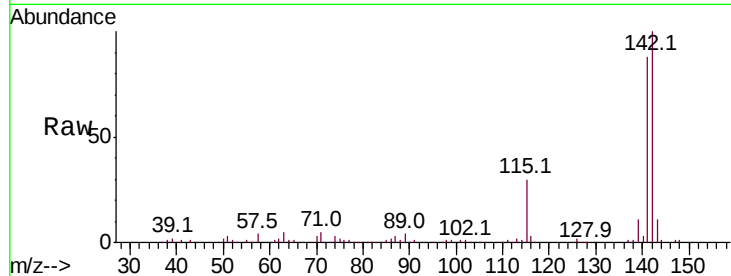
#37
2-Methylnaphthalene
Concen: 6.859 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Resp	Lower	Upper
142	100	171861		
141	88.1	70.9	106.3	
115	30.4	24.9	37.3	

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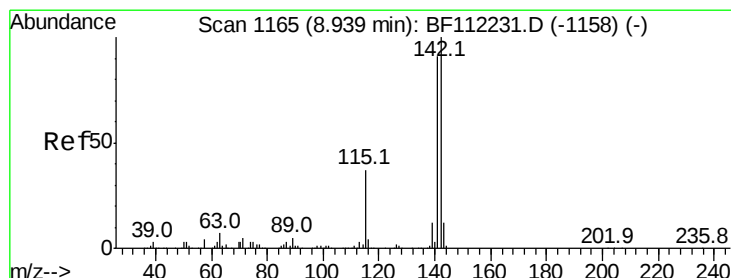
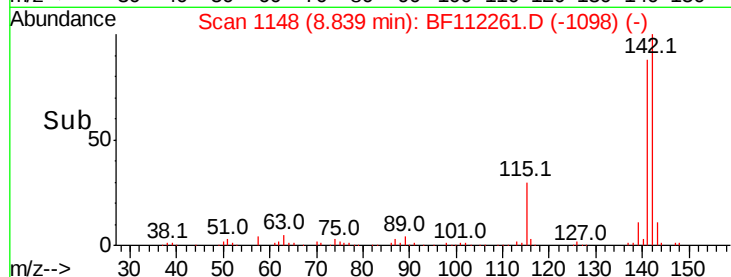
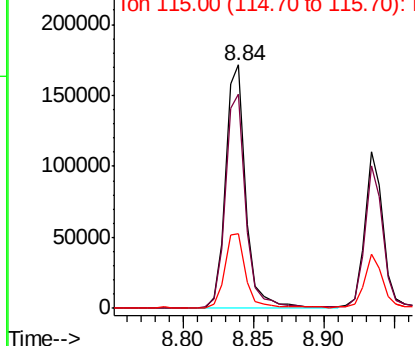


Abundance

Ion 142.00 (141.70 to 142.70): E

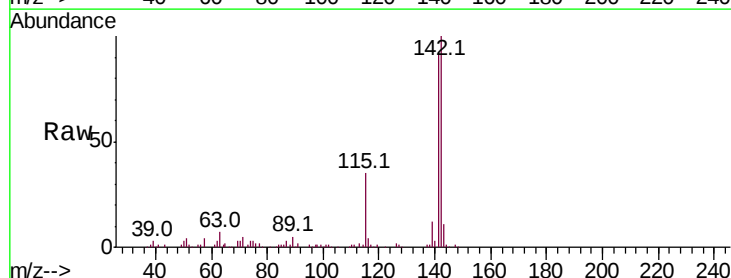
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 4.174 ng
RT: 8.93 min Scan# 1164
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	100239		
141	91.5	72.6	108.8	
116	3.8	2.8	4.2	

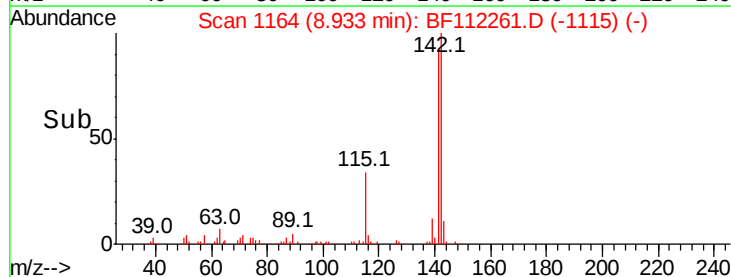
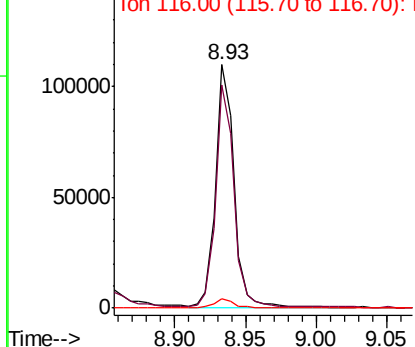


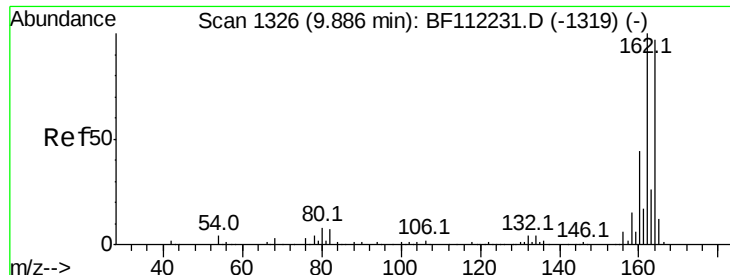
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





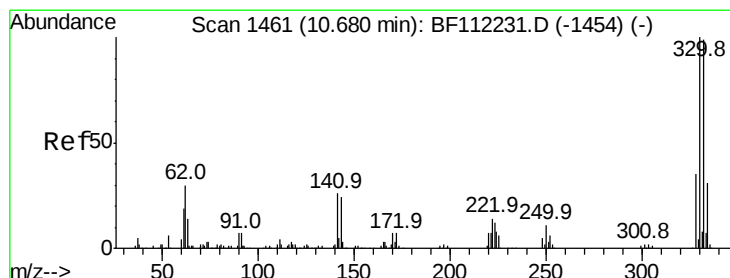
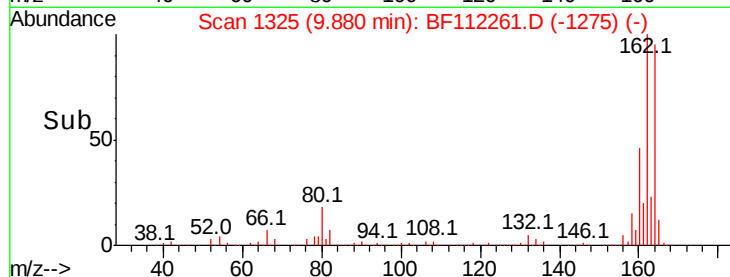
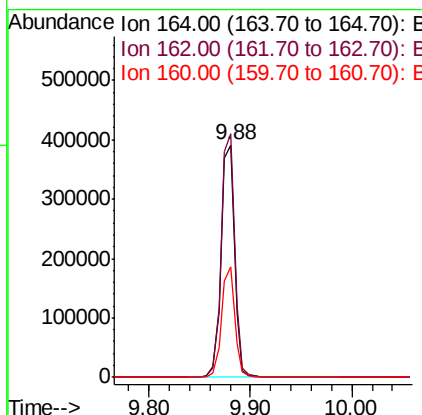
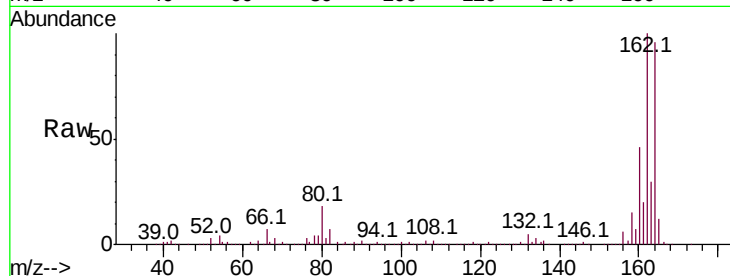
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleID :
SU-04-012419-B

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	104.7	82.2	123.4	
160	47.8	36.2	54.4	

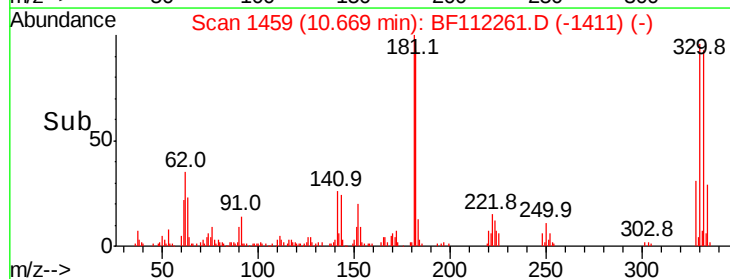
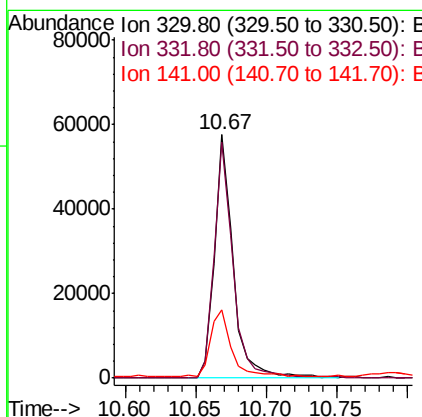
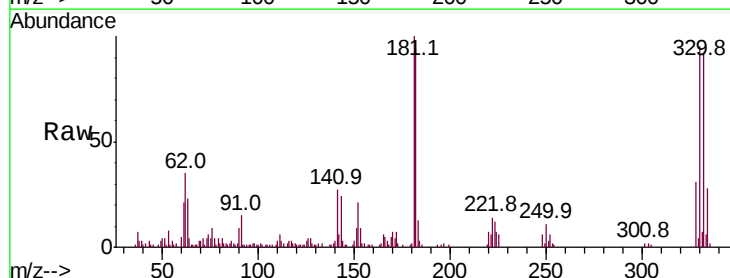
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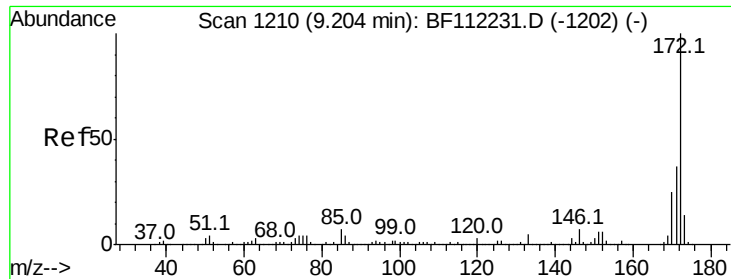
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#42
2,4,6-Tribromophenol
Concen: 12.572 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.02 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.8	76.6	114.8	
141	30.7	24.3	36.5	





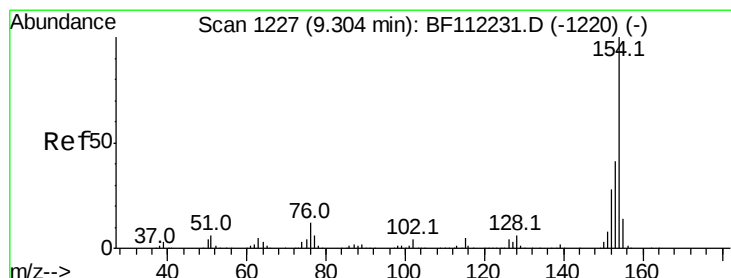
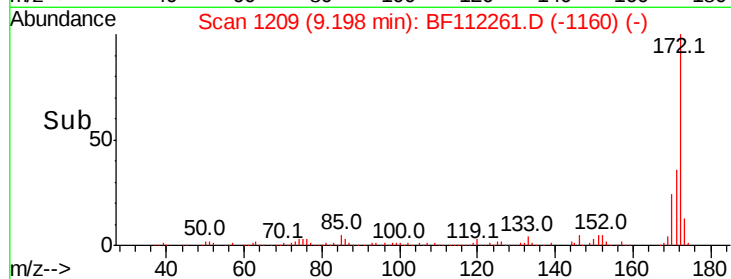
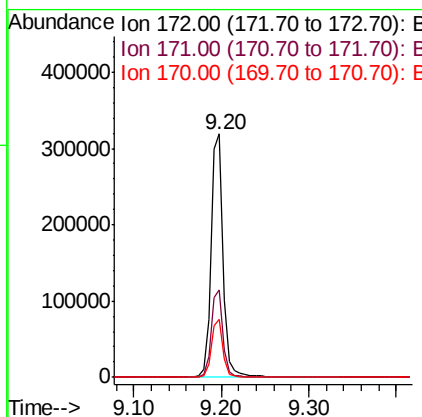
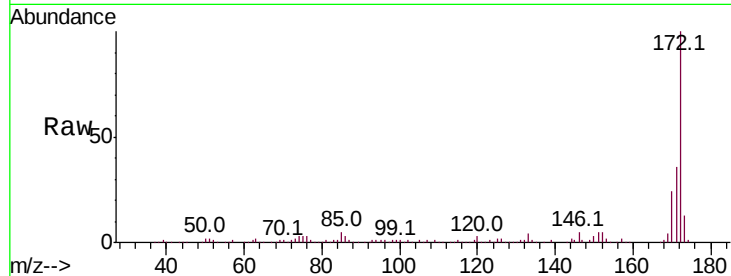
#45
2-Fluorobiphenyl
Concen: 11.867 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Resp	Lower	Upper
172	100	304146		
171	36.0		30.5	45.7
170	23.8		20.2	30.4

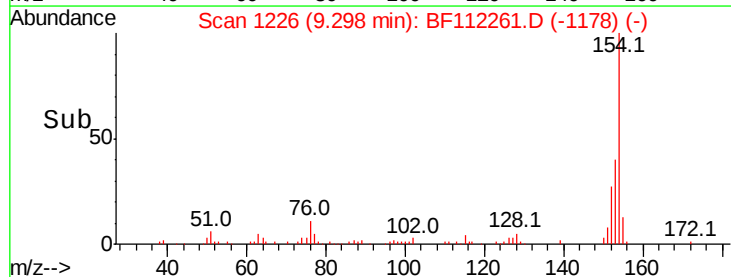
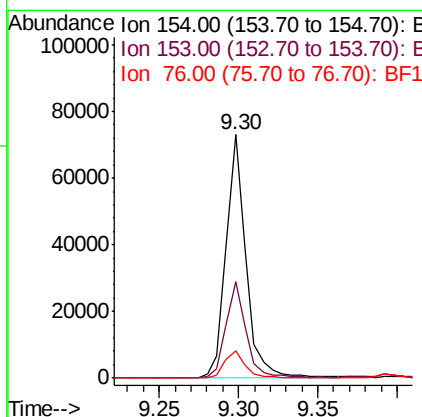
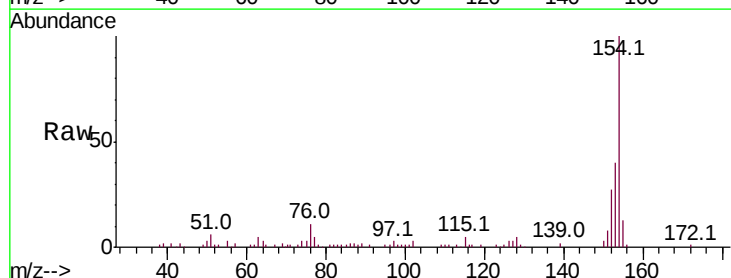
Manual Integrations
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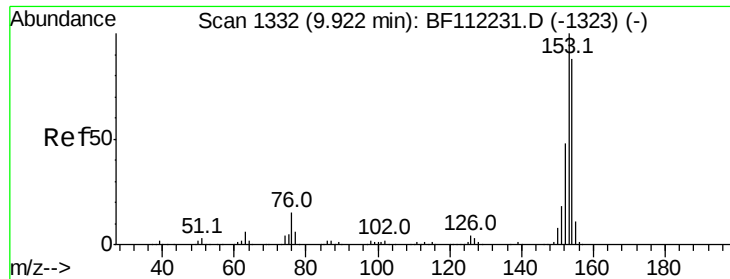
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#46
1,1'-Biphenyl
Concen: 2.018 ng
RT: 9.30 min Scan# 1226
Delta R.T. -0.02 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	63943		
153	39.7		21.5	61.5
76	11.3		0.0	33.1





#52

Acenaphthene

Concen: 7.933 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.02 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Instrument :

BNA_F

ClientSampleId :

SU-04-012419-B

Tot Ion:154 Resp: 170692

Ion Ratio Lower Upper

154 100

153 114.9 89.8 134.6

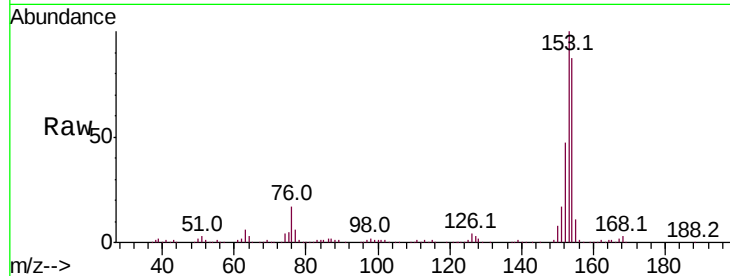
152 54.4 43.5 65.3

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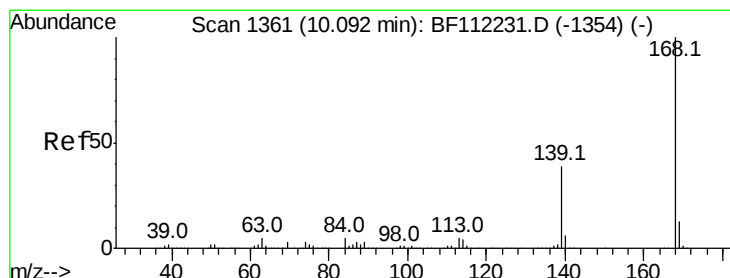
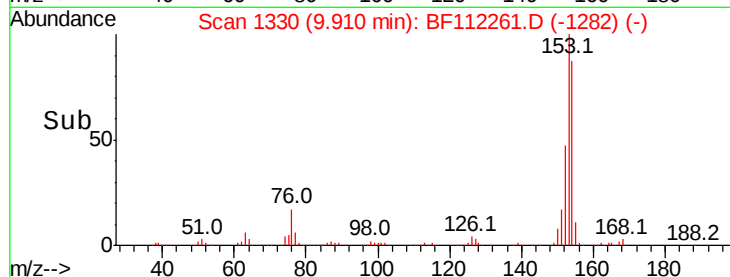
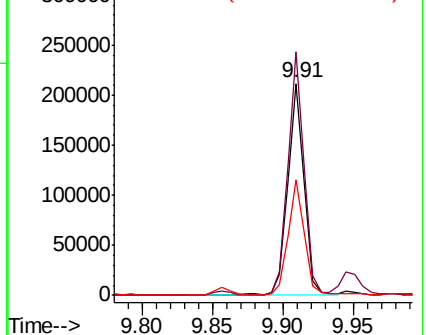
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 12.587 ng

RT: 10.08 min Scan# 1359

Delta R.T. -0.02 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

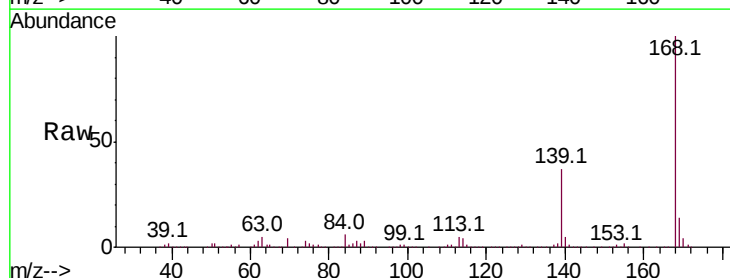
Tgt Ion:168 Resp: 413888

Ion Ratio Lower Upper

168 100

139 37.2 29.2 43.8

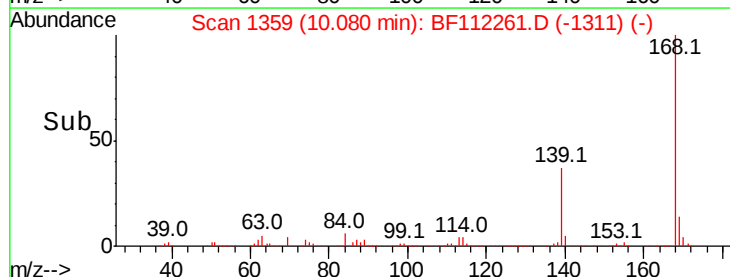
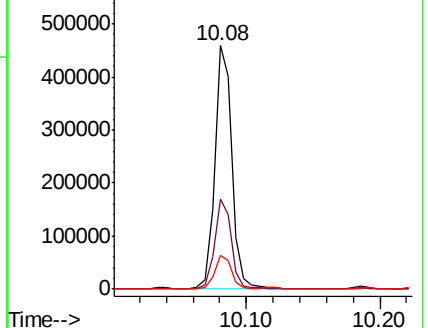
169 14.1 11.4 17.0

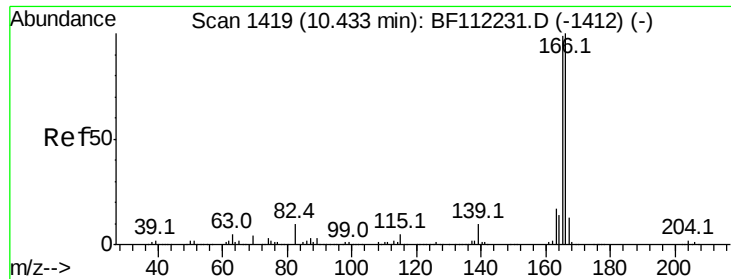


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





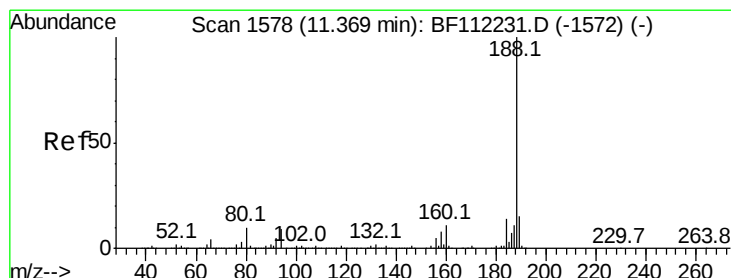
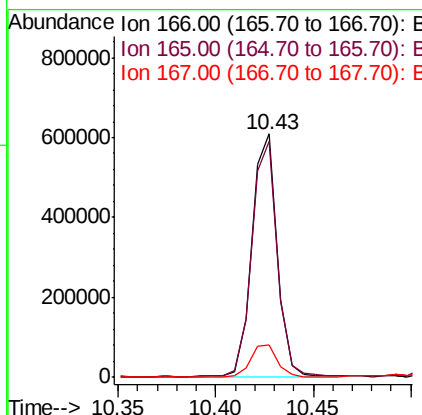
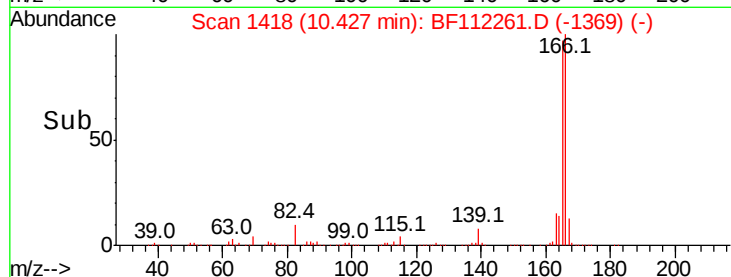
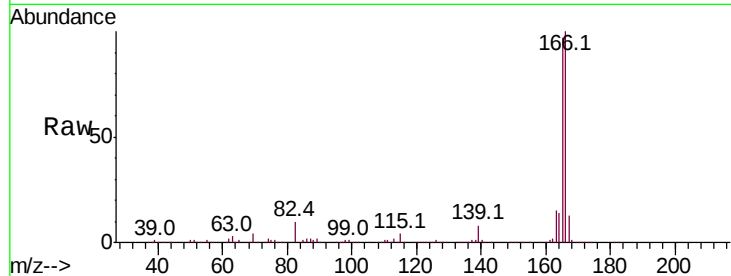
#58
Fluorene
Concen: 22.169 ng
RT: 10.43 min Scan# 1418
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.1	115.7
167	13.2	11.3	16.9

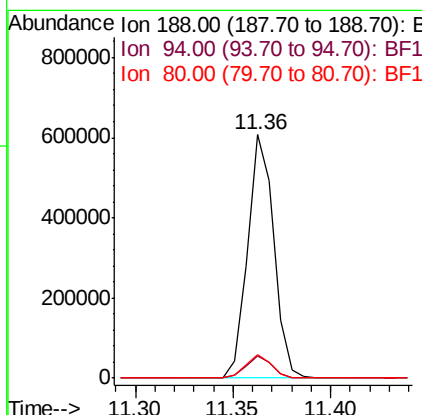
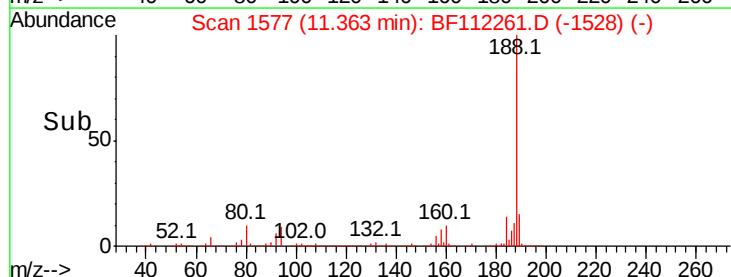
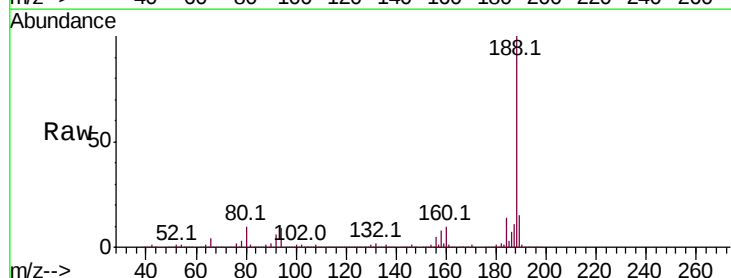
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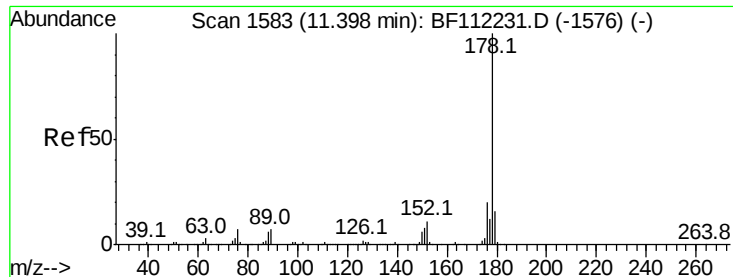
mohammad
1/29/2019 12:32:11 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.2	12.2
80	9.9	8.9	13.3





#71

Phenanthrene

Concen: 73.947 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.01 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Instrument :

BNA_F

ClientSampleId :

SU-04-012419-B

Tot Ion:178 Resp: 2172544

Ion Ratio Lower Upper

178 100

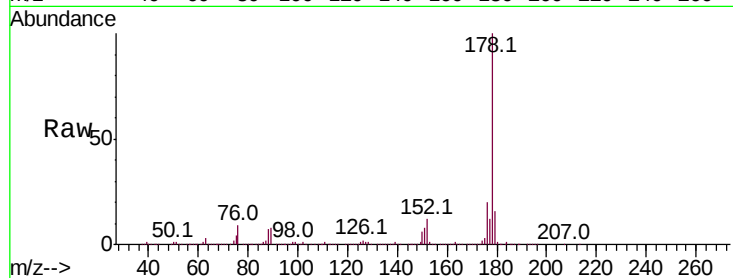
176 20.5 16.3 24.5

179 16.3 13.0 19.4

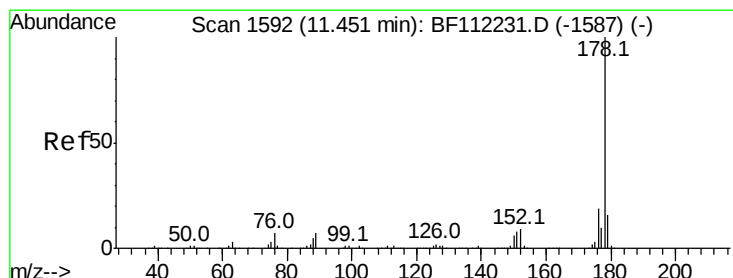
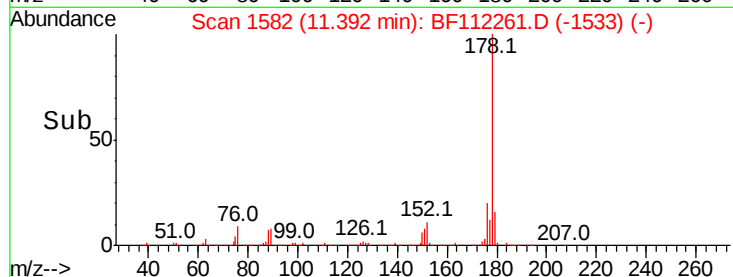
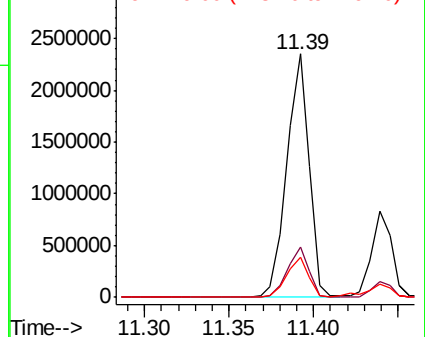
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 24.913 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.02 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Tgt Ion:178 Resp: 729101

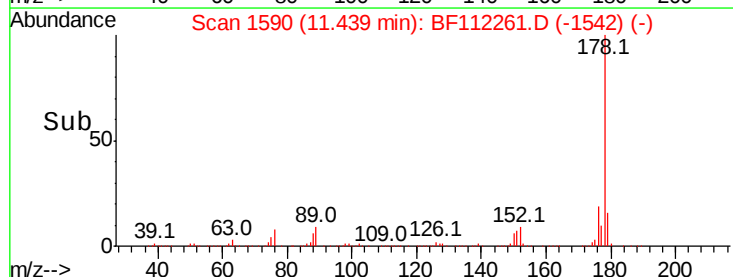
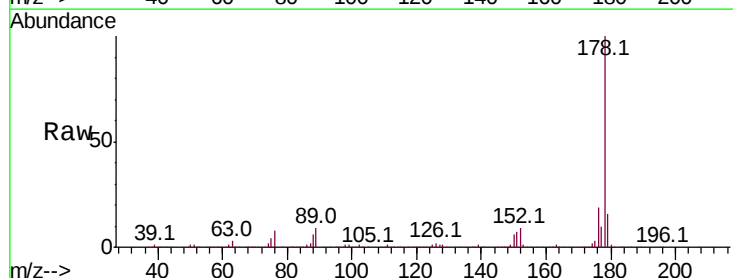
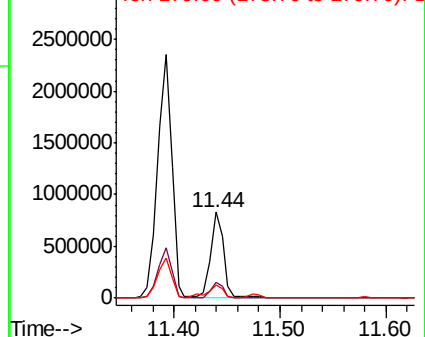
Ion Ratio Lower Upper

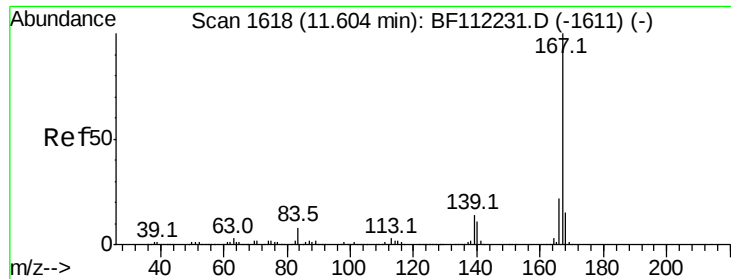
178 100

176 18.8 15.5 23.3

179 16.0 12.8 19.2

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





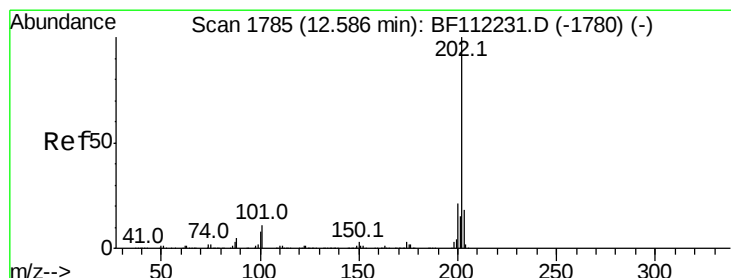
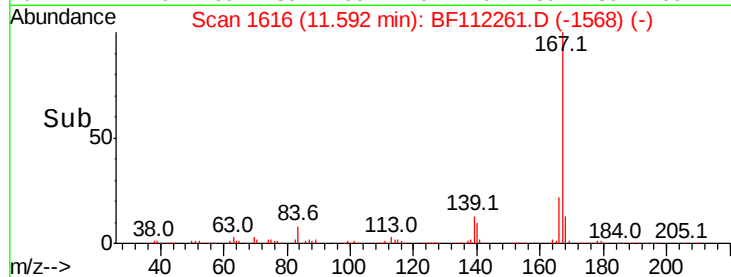
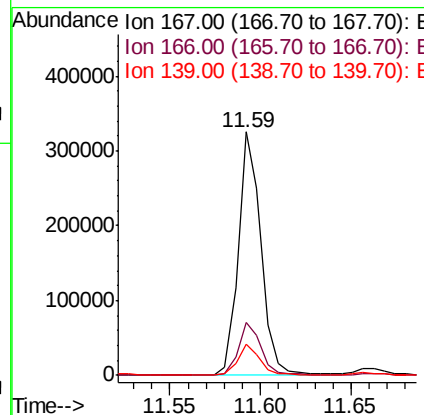
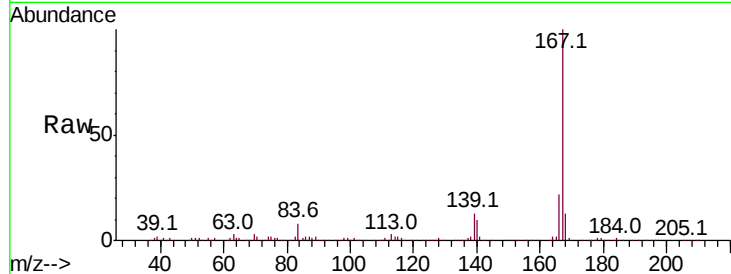
#73
 Carbazole
 Concen: 9.844 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. -0.02 min
 Lab File: BF112261.D
 Acq: 26 Jan 2019 4:42

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.9	26.9
139	12.8	10.2	15.2

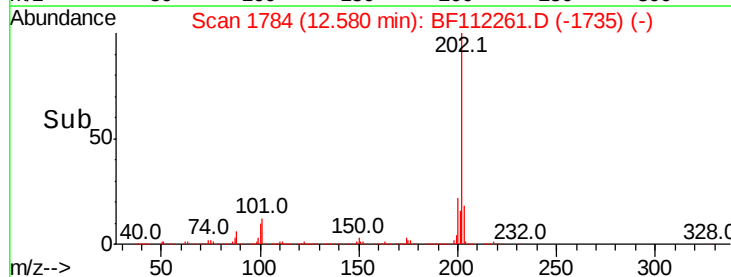
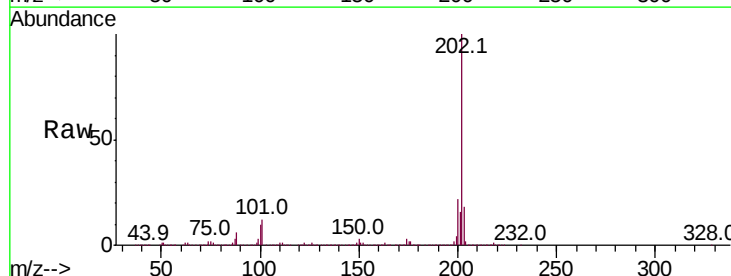
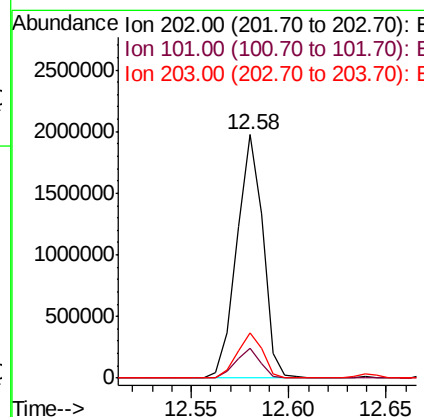
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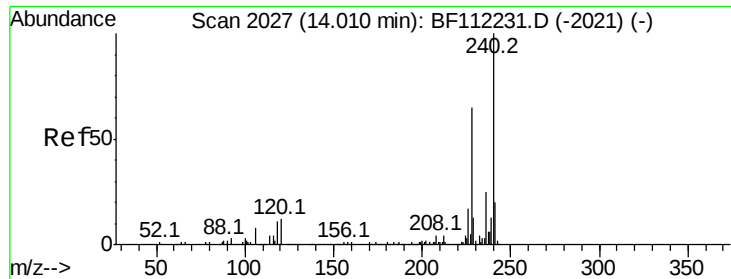
mohammad
 1/29/2019 12:32:11 AM



#75
 Fluoranthene
 Concen: 58.172 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. -0.01 min
 Lab File: BF112261.D
 Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	31.8
203	18.5	0.0	38.4





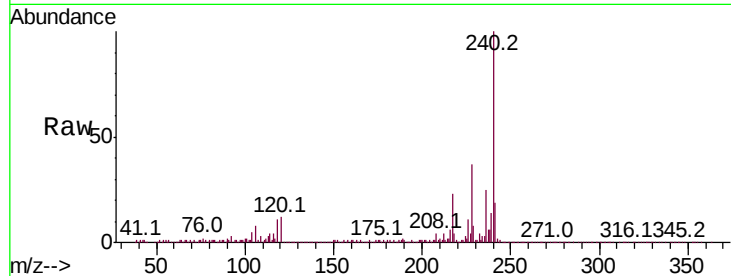
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.1	9.0	13.6
236	24.7	20.7	31.1

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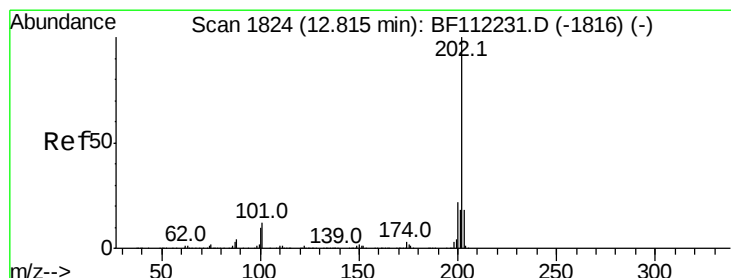
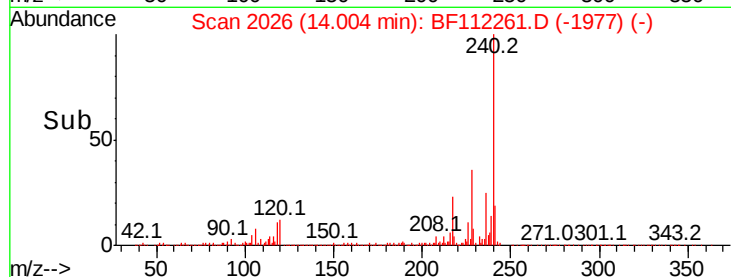
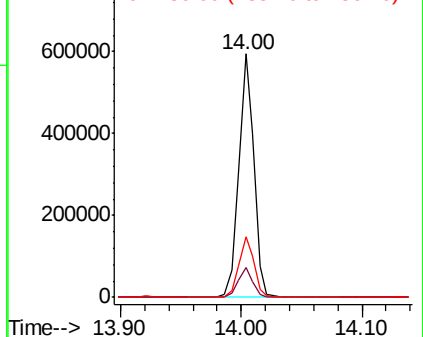


Abundance

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
Pyrene
Concen: 39.731 ng
RT: 12.81 min Scan# 1823
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

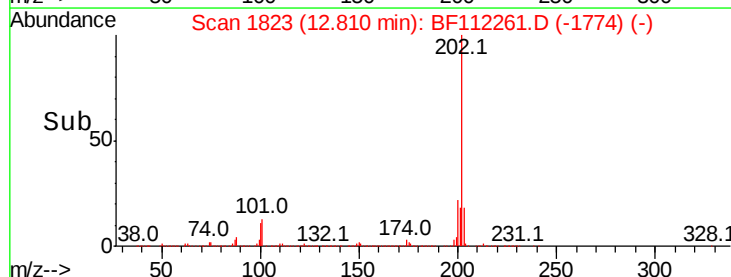
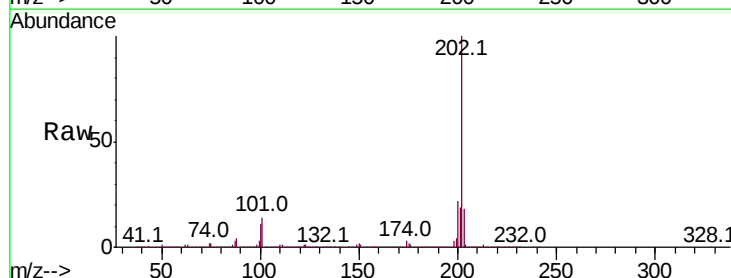
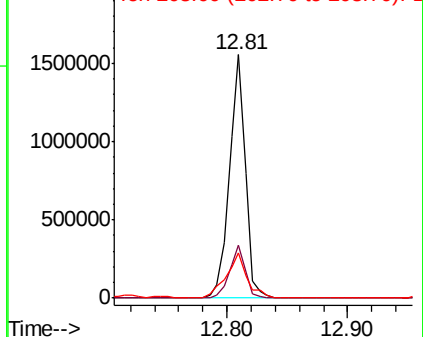
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.7	26.5
203	18.4	14.6	22.0

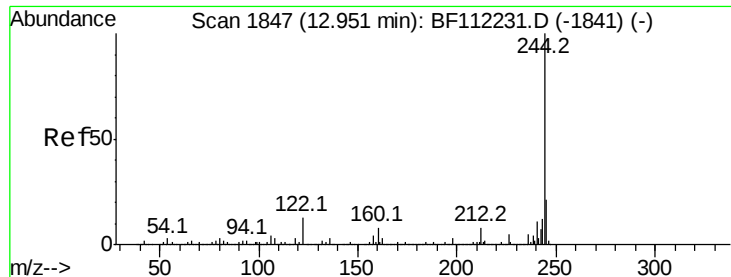
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





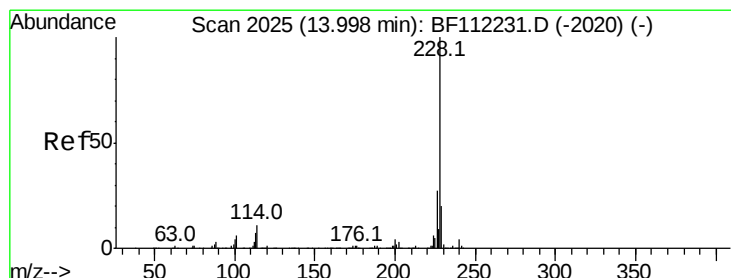
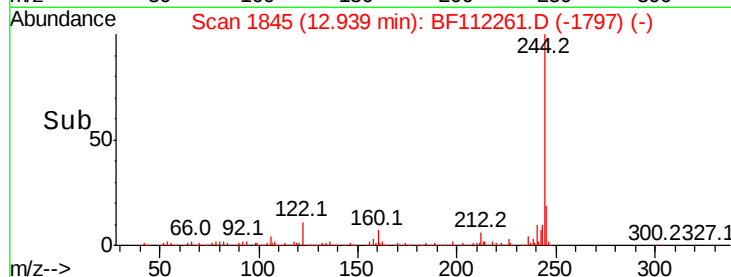
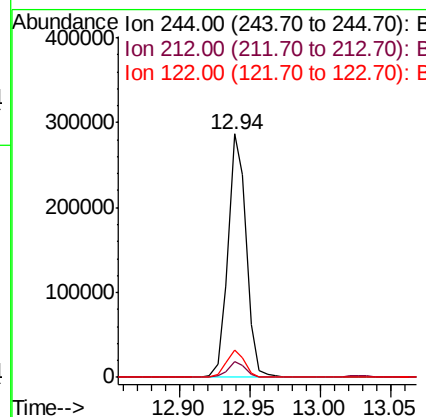
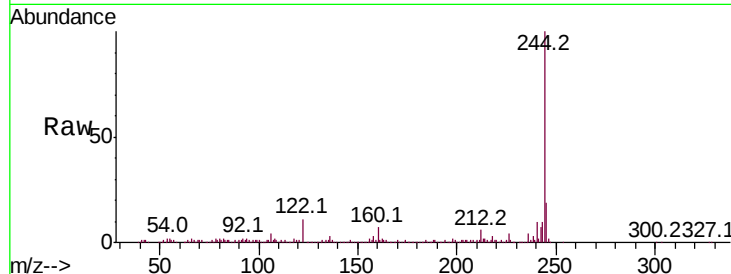
#79
 Terphenyl-d14
 Concen: 9.401 ng
 RT: 12.94 min Scan# 1845
 Delta R.T. -0.02 min
 Lab File: BF112261.D
 Acq: 26 Jan 2019 4:42

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-012419-B

Tot Ion	Ratio	Resp	Lower	Upper
244	100	258366		
212	6.3		5.9	8.9
122	11.2		9.8	14.6

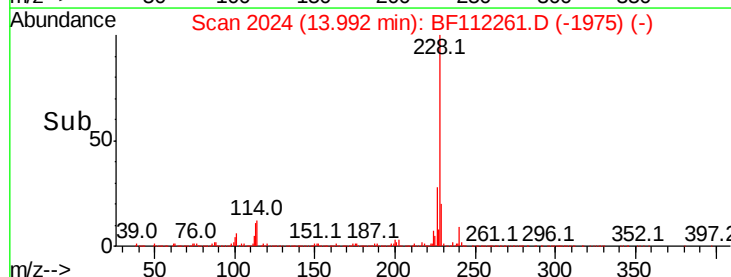
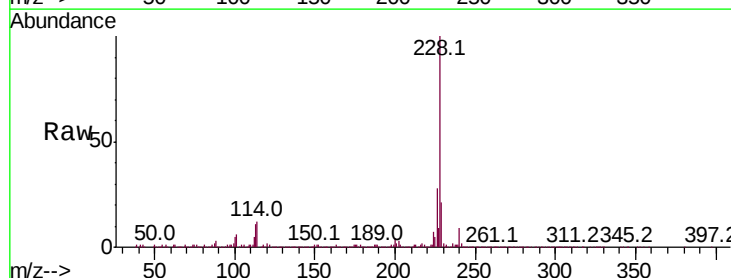
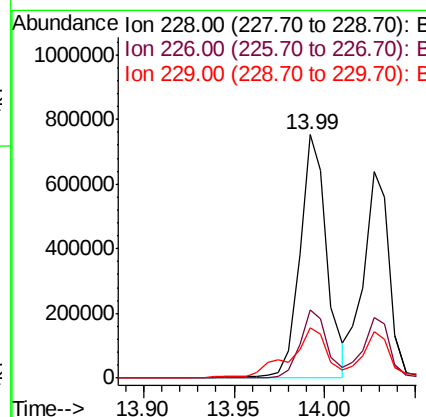
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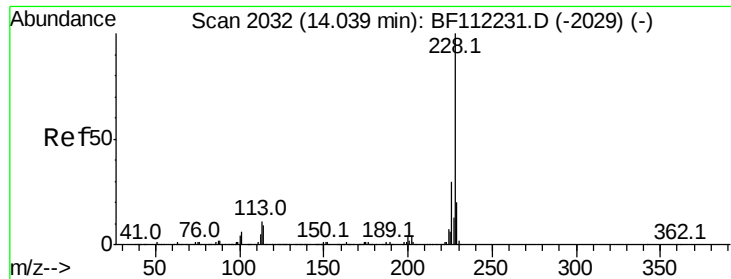
mohammad
 1/29/2019 12:32:11 AM



#81
 Benzo(a)anthracene
 Concen: 25.713 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. -0.01 min
 Lab File: BF112261.D
 Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	782434		
226	28.1		22.6	34.0
229	20.6		16.5	24.7





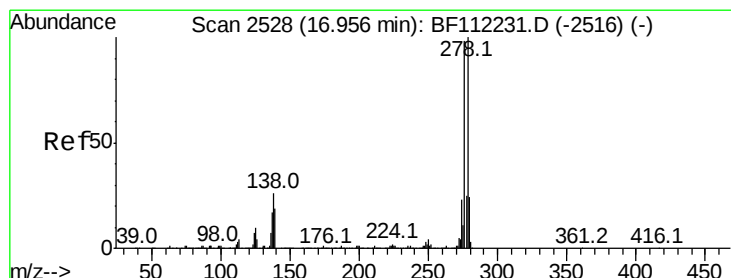
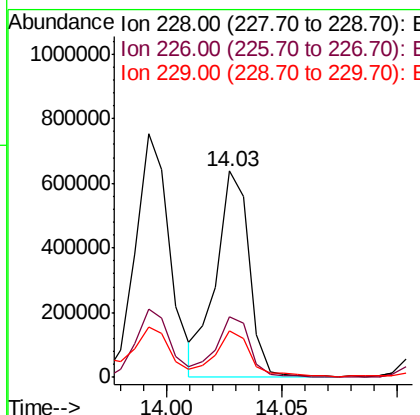
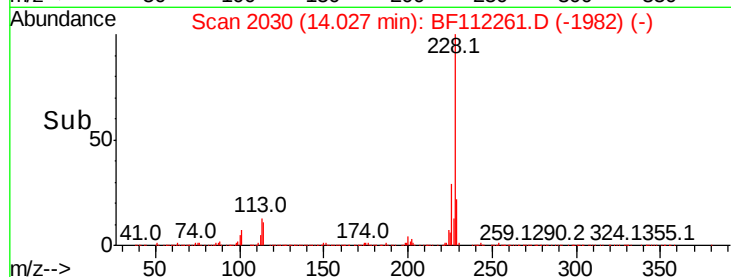
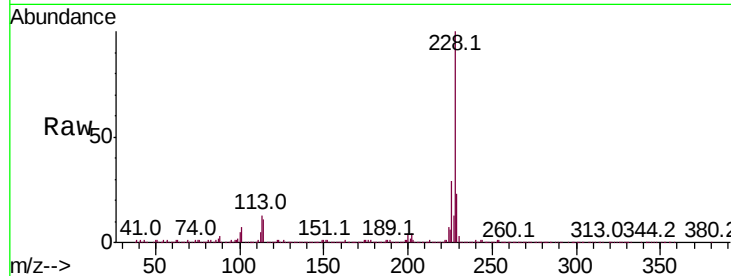
#83
Chrysene
Concen: 21.762 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.02 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.1	25.0	37.6
229	22.8	16.6	24.8

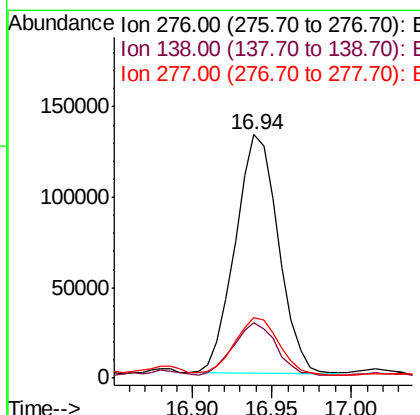
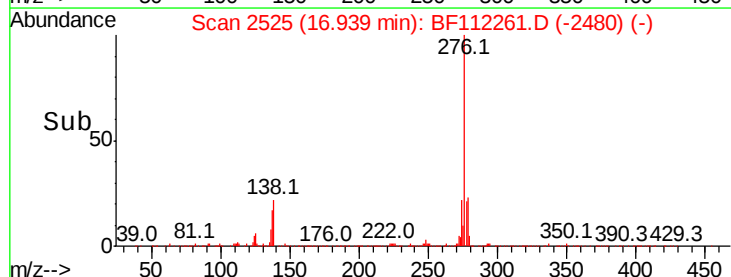
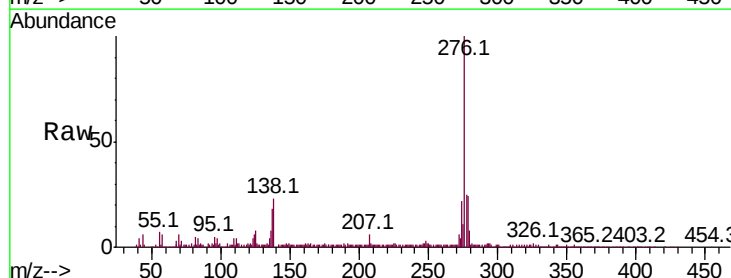
Manual Integrations
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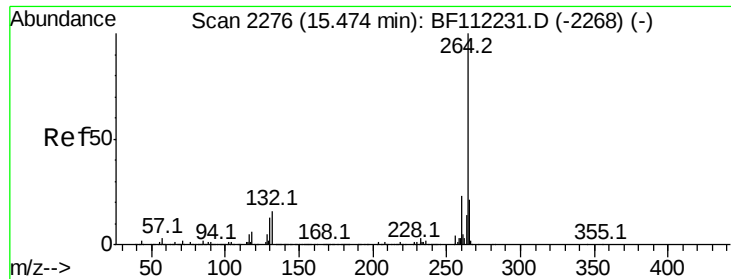
mohammad
1/29/2019 12:32:11 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.838 ng
RT: 16.94 min Scan# 2525
Delta R.T. -0.04 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.7	22.6	34.0
277	24.7	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Instrument :

BNA_F

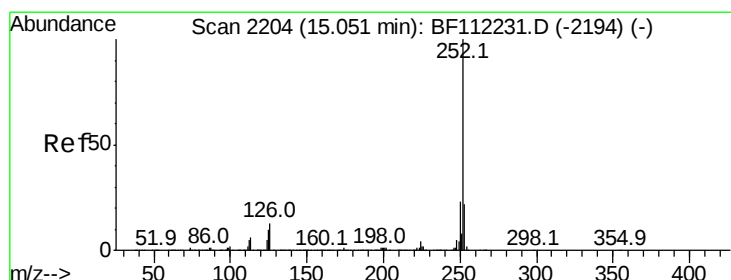
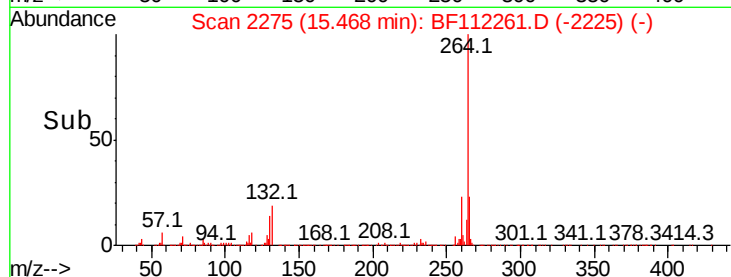
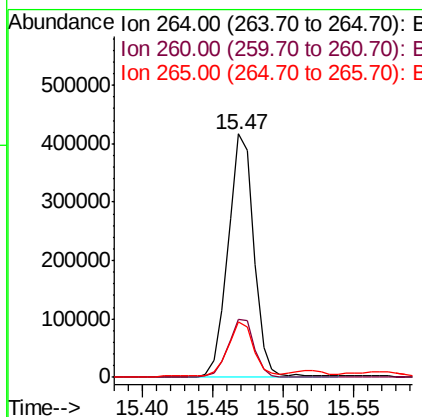
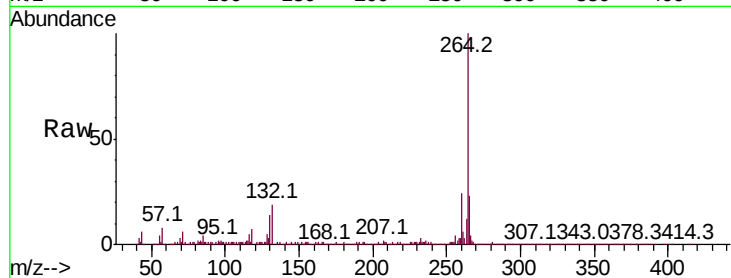
ClientSampleId :

SU-04-012419-B

Tot Ion:	264	Resp:	526918
Ion Ratio	Lower	Upper	
264	100		
260	23.7	18.2	27.2
265	23.0	17.0	25.4

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#88

Benzo(b)fluoranthene

Concen: 26.610 ng m

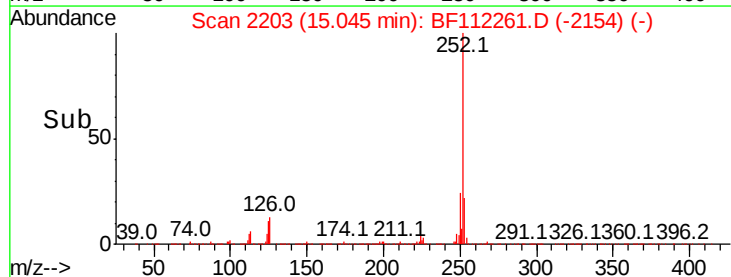
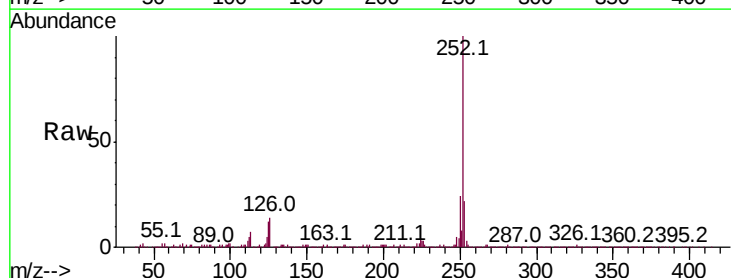
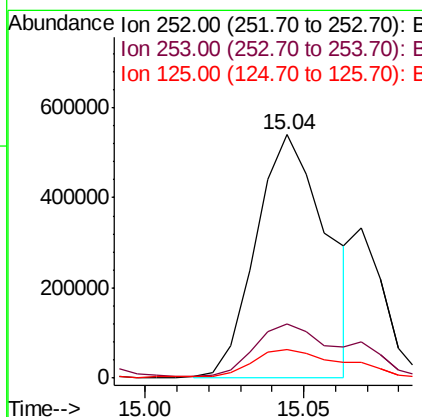
RT: 15.04 min Scan# 2203

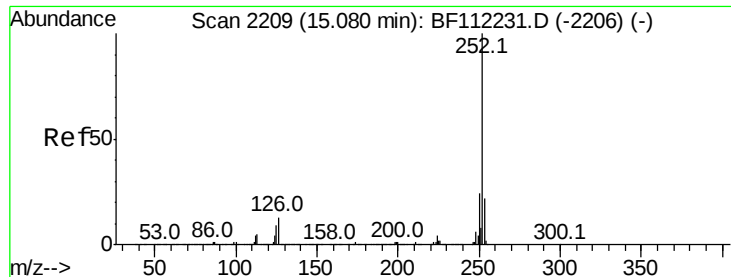
Delta R.T. -0.01 min

Lab File: BF112261.D

Acq: 26 Jan 2019 4:42

Tgt Ion:	252	Resp:	838544
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.0	27.0
125	11.5	8.7	13.1





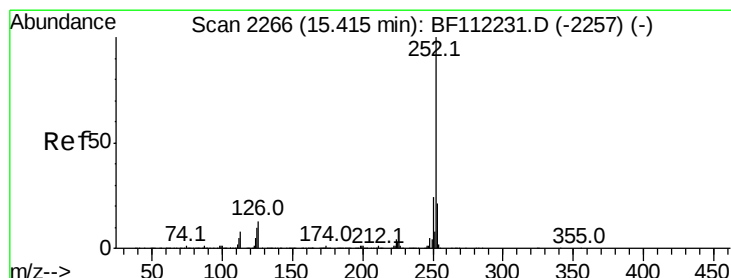
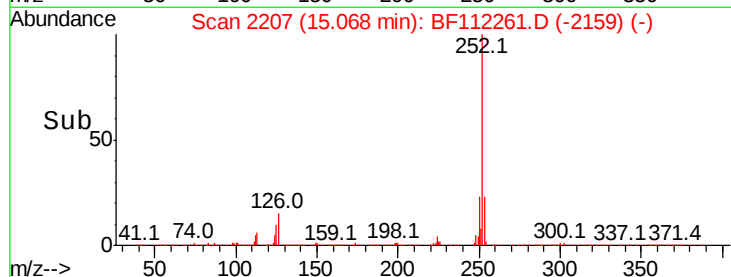
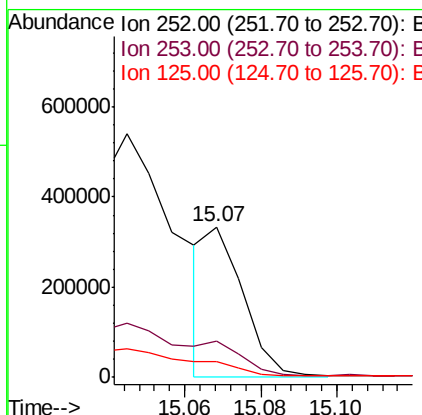
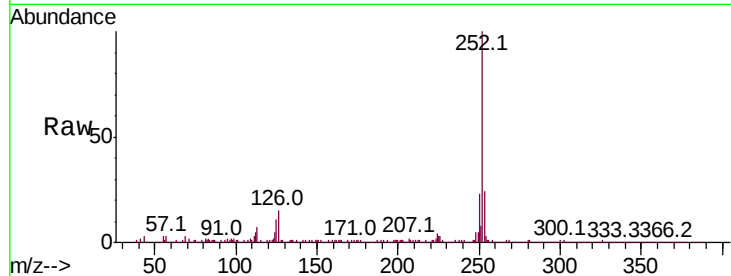
#89
Benzo(k)fluoranthene
Concen: 7.572 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.02 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.0	27.0
125	10.9	9.1	13.7

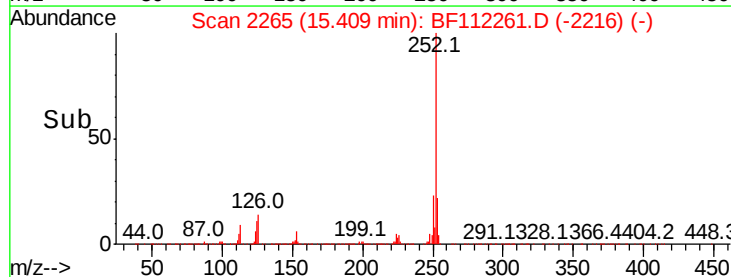
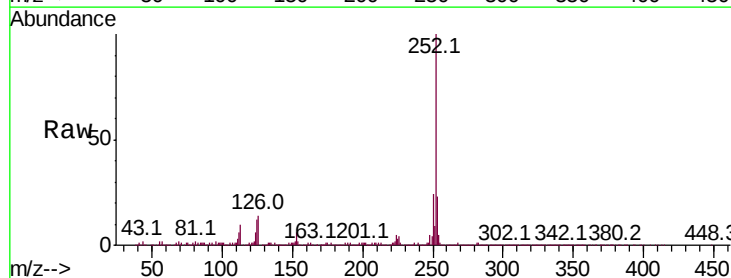
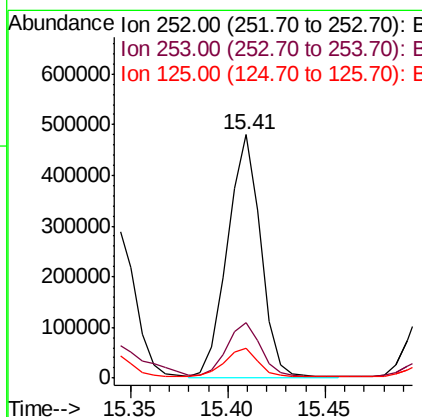
Manual Integrations
APPROVED

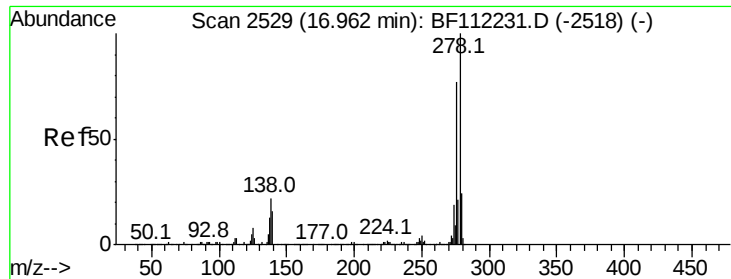
mohammad
1/29/2019 12:32:11 AM



#90
Benzo(a)pyrene
Concen: 19.828 ng
RT: 15.41 min Scan# 2265
Delta R.T. -0.01 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	12.0	9.0	13.4





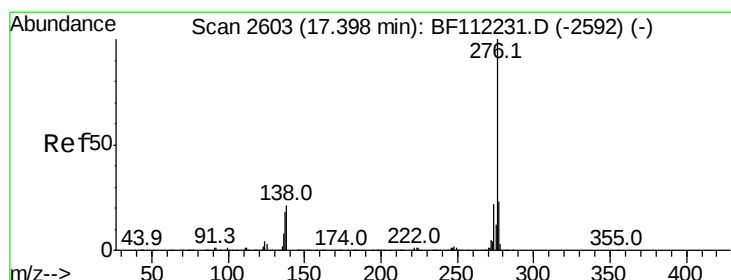
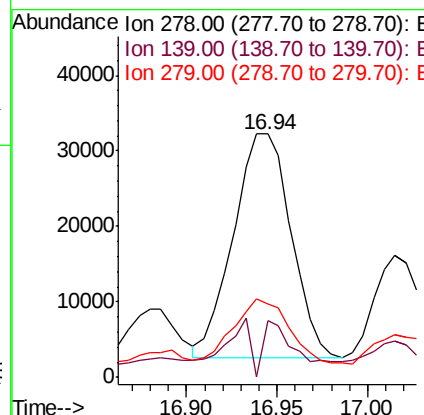
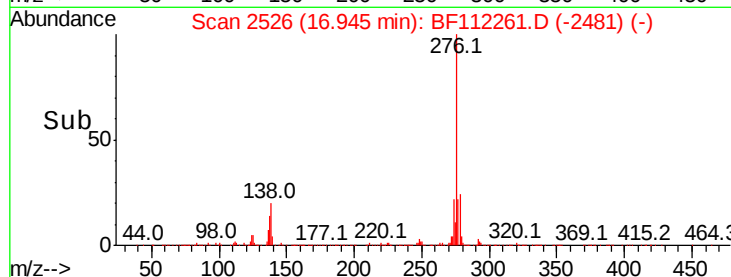
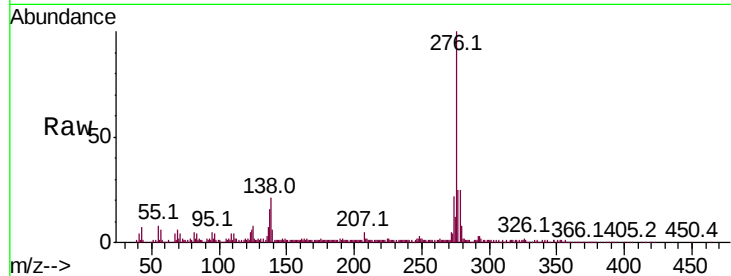
#91
Dibenzo(a,h)anthracene
Concen: 2.865 ng
RT: 16.94 min Scan# 2526
Delta R.T. -0.04 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Instrument :
BNA_F
ClientSampleId :
SU-04-012419-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.3	13.7	20.5#
279	30.0	19.0	28.6#

Manual Integrations
APPROVED

mohammad
1/29/2019 12:32:11 AM



#92
Benzo(g,h,i)perylene
Concen: 9.827 ng
RT: 17.39 min Scan# 2601
Delta R.T. -0.03 min
Lab File: BF112261.D
Acq: 26 Jan 2019 4:42

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.4	29.0
138	23.3	19.1	28.7

