

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
 Data File : BF117612.D
 Acq On : 30 Oct 2019 1:42
 Operator : JU
 Sample : K5576-19 5X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-8

Manual Integrations
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 10/30/2019 4:53:43 PM

Quant Time: Oct 30 07:06:04 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	39139	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	161238	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	73978	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	108502	20.00	ng	0.00
76) Chrysene-d12	13.90	240	70359	20.00	ng	0.00
87) Perylene-d12	15.33	264	57764	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	32051	12.18	ng	0.02
7) Phenol-d6	6.40	99	52328	14.81	ng	0.02
23) Nitrobenzene-d5	7.30	82	28482	8.72	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	7899	12.34	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	53578	10.20	ng	-0.01
79) Terphenyl-d14	12.83	244	43368	10.05	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.03	128	39078	4.890	ng	97
37) 2-Methylnaphthalene	8.73	142	18915	3.512	ng	99
38) 1-Methylnaphthalene	8.82	142	19783	3.909	ng	100
49) Acenaphthylene	9.63	152	13566	2.000	ng	97
52) Acenaphthene	9.79	154	53774	12.922	ng	97
55) Dibenzofuran	9.97	168	46112	7.648	ng	99
58) Fluorene	10.31	166	53904	10.812	ng	99
71) Phenanthrene	11.28	178	677845	107.589	ng	99
72) Anthracene	11.33	178	178459	27.606	ng	99
73) Carbazole	11.49	167	41438	7.014	ng	97
75) Fluoranthene	12.47	202	585165	92.779	ng	99
78) Pvrene	12.70	202	543711	89.967	ng	100
80) Butylbenzylphthalate	13.30	149	9564	3.180	ng	# 92
81) Benzo(a)anthracene	13.89	228	189712	39.973	ng	98
83) Chrysene	13.93	228	162097	34.849	ng	98
86) Indeno(1,2,3-cd)pyrene	16.75	276	48916	14.086	ng	96
88) Benzo(b)fluoranthene	14.93	252	135510m	39.727	ng	
89) Benzo(k)fluoranthene	14.94	252	51029m	14.596	ng	
90) Benzo(a)pvrene	15.27	252	99073	31.945	ng	95
91) Dibenzo(a,h)anthracene	16.75	278	13583m	5.065	ng	
92) Benzo(g,h,i)perylene	17.18	276	46955	18.506	ng	97

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

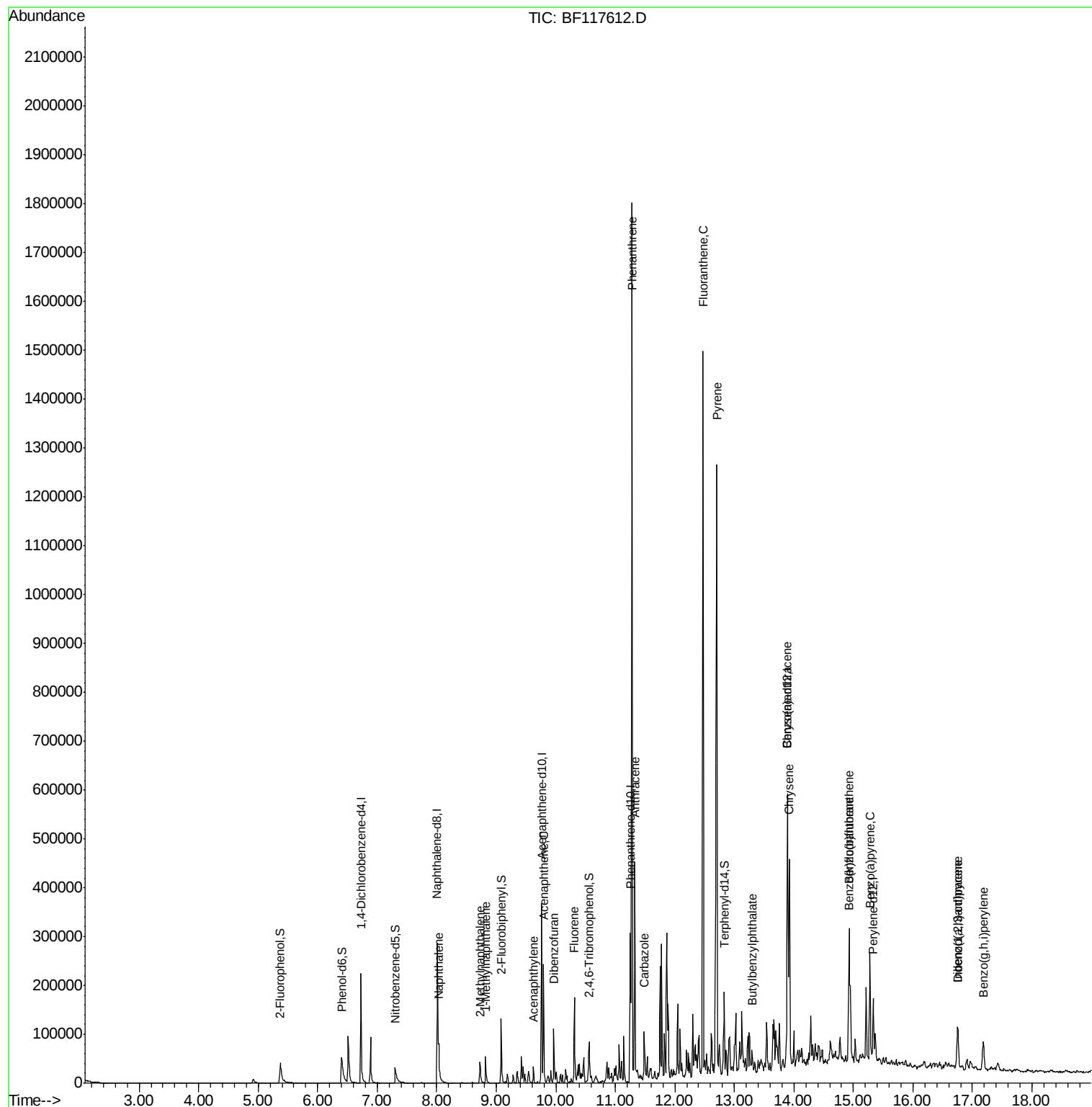
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102919\
Data File : BF117612.D
Acq On : 30 Oct 2019 1:42
Operator : JU
Sample : K5576-19 5X
Misc :
ALS Vial : 33 Sample Multiplier: 1

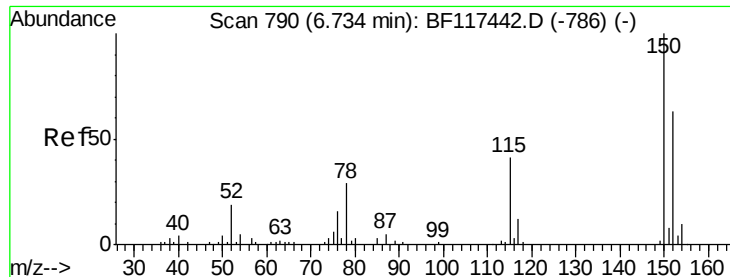
Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

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Quant Time: Oct 30 07:06:04 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 18:53:31 2019
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#1

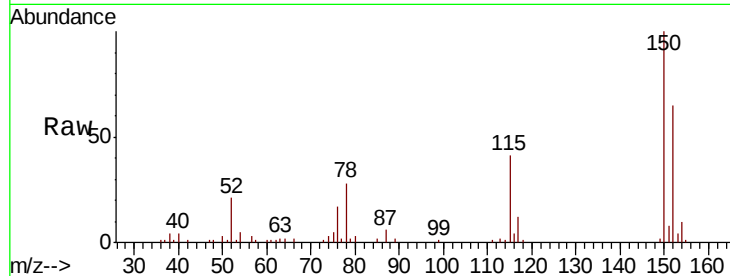
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	126.8	190.2
115	63.6	51.6	77.4

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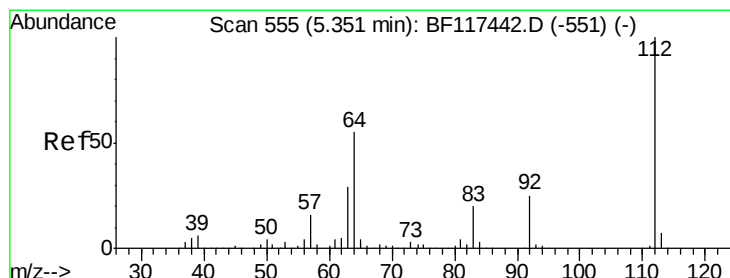
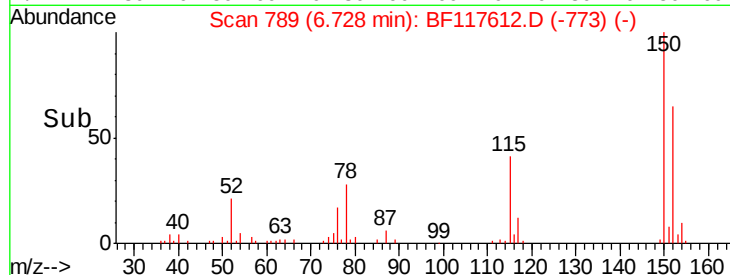
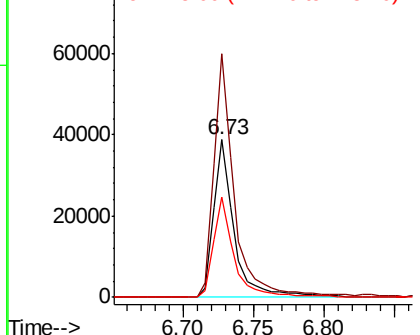


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

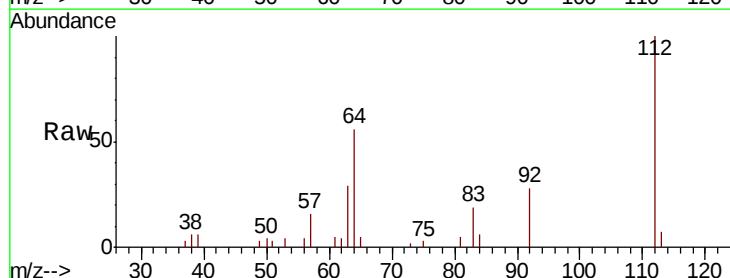
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 12.183 ng
RT: 5.37 min Scan# 558
Delta R.T. 0.02 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.7	44.1	66.1
63	29.2	23.4	35.2

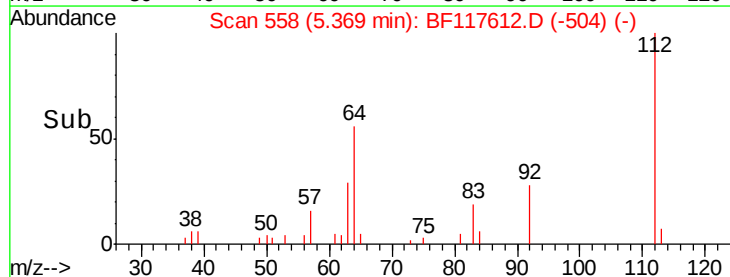
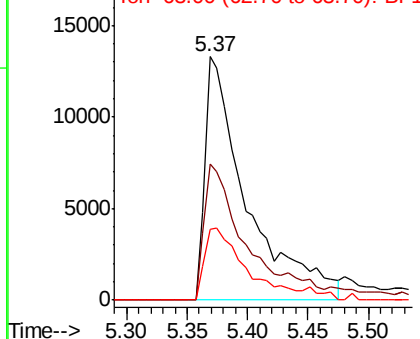


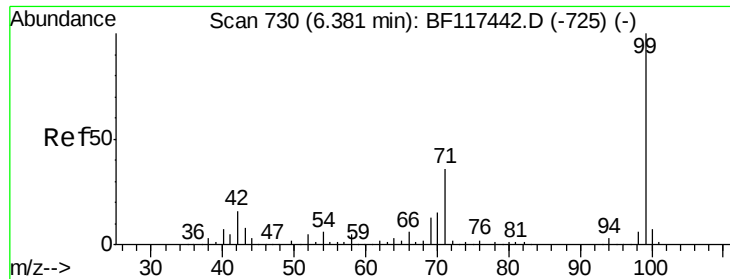
Abundance

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: 14.809 ng

RT: 6.40 min Scan# 734

Delta R.T. 0.02 min

Lab File: BF117612.D

Acq: 30 Oct 2019 1:42

Instrument :

BNA_F

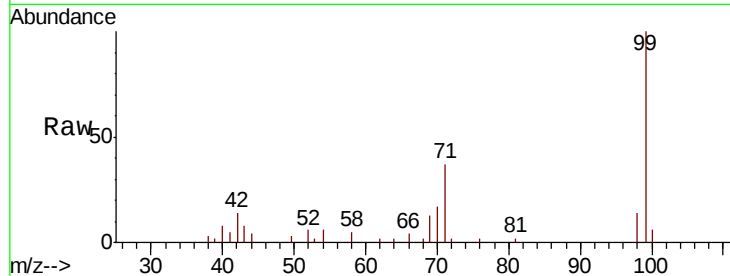
ClientSampled :

CSA-2-1-8

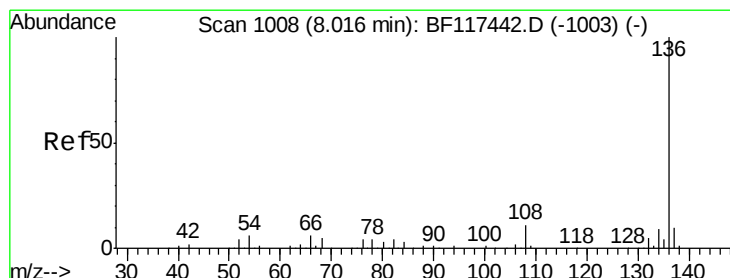
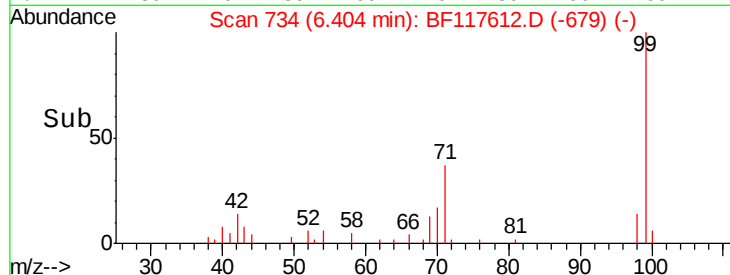
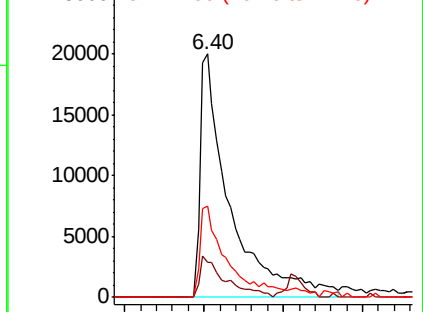
Tot Ion:	99	Resp:	52328
Ion Ratio	Lower	Upper	
99	100		
42	14.3	12.8	19.2
71	37.4	28.6	43.0

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

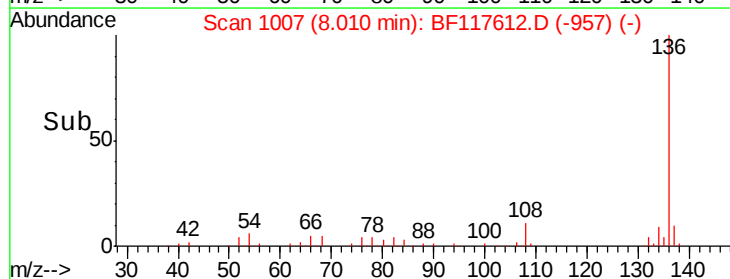
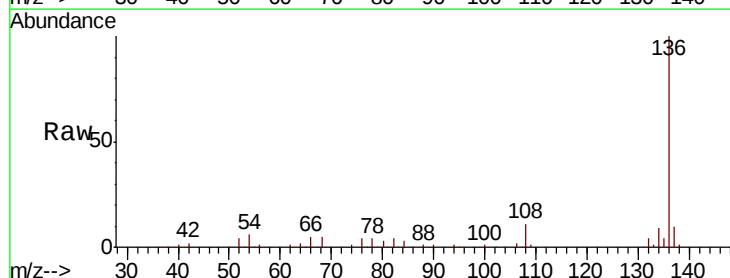
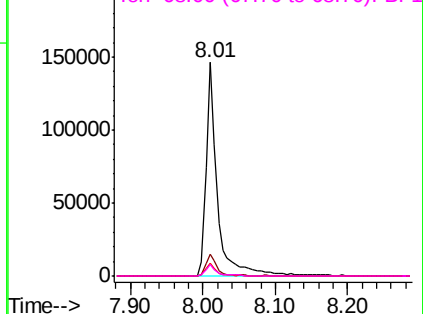
Delta R.T. -0.01 min

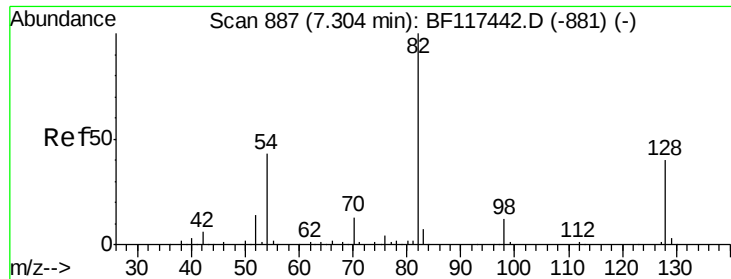
Lab File: BF117612.D

Acq: 30 Oct 2019 1:42

Tgt Ion:	136	Resp:	161238
Ion Ratio	Lower	Upper	
136	100		
137	10.2	8.2	12.4
54	5.9	4.5	6.7
68	5.5	4.3	6.5

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





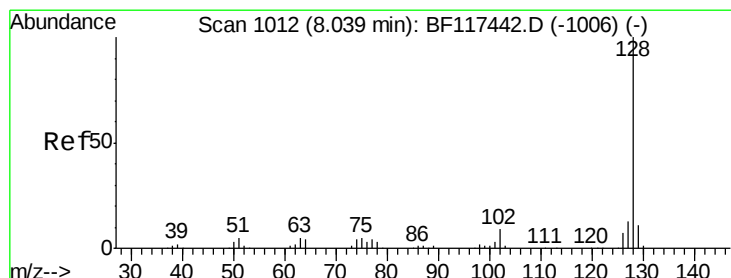
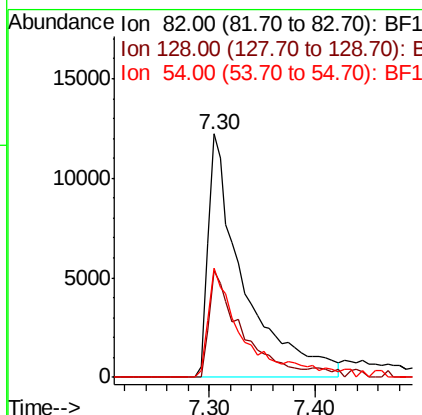
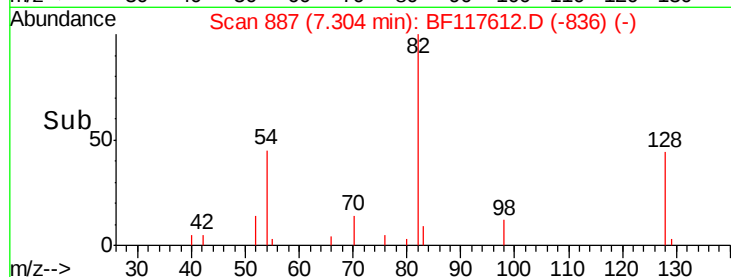
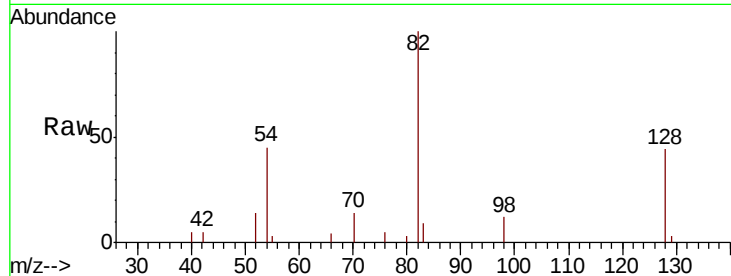
#23
Nitrobenzene-d5
Concen: 8.721 ng
RT: 7.30 min Scan# 887
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.9	32.2	48.2
54	44.9	34.2	51.2

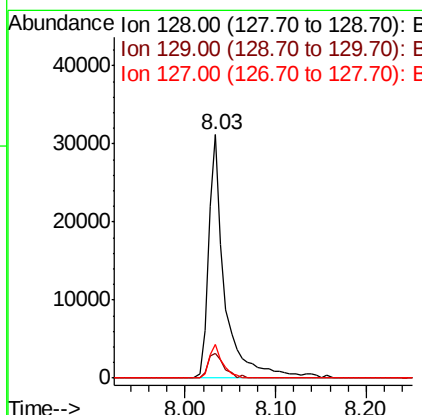
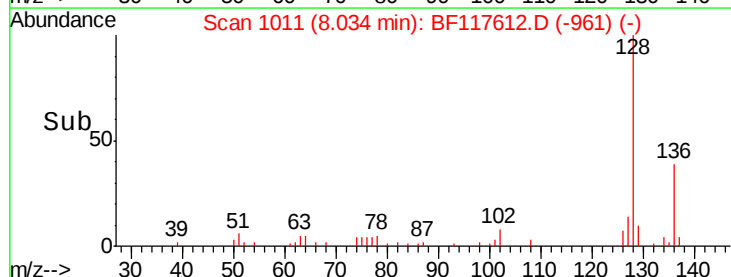
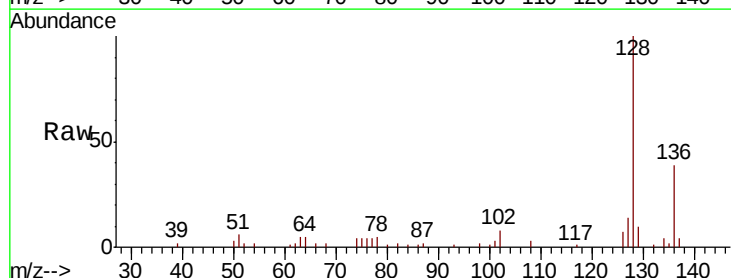
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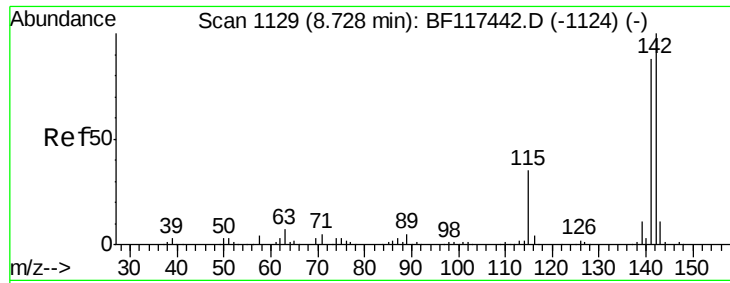
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#31
Naphthalene
Concen: 4.890 ng
RT: 8.03 min Scan# 1011
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.0	13.4
127	13.9	10.2	15.2





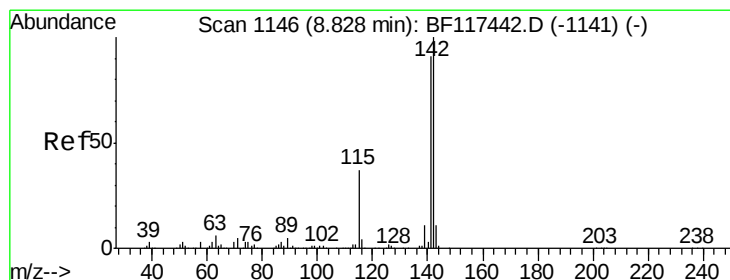
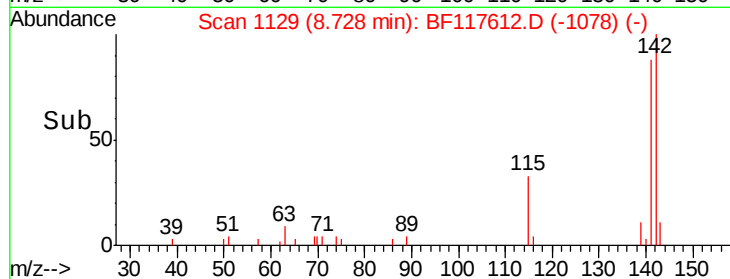
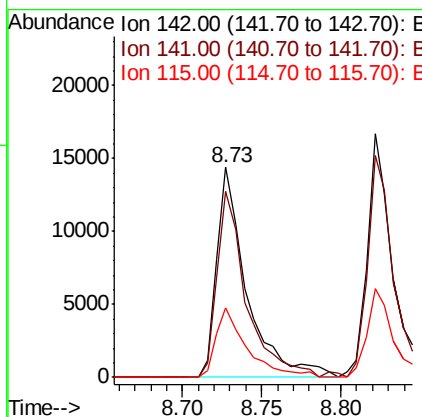
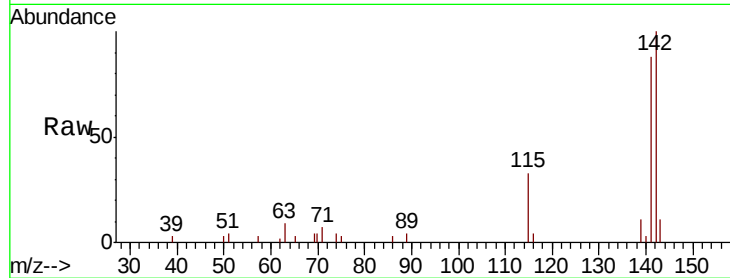
#37
2-Methylnaphthalene
Concen: 3.512 ng
RT: 8.73 min Scan# 1129
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.3	105.5
115	33.3	28.2	42.2

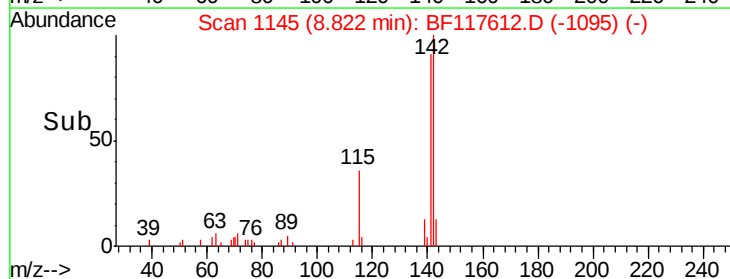
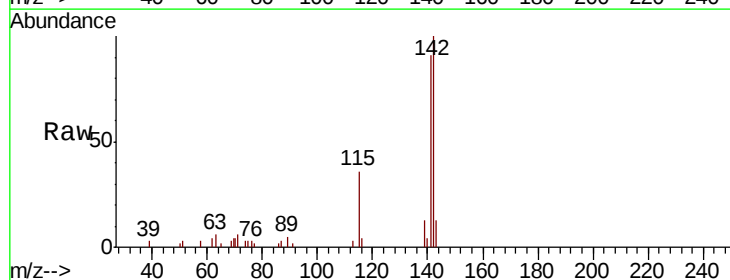
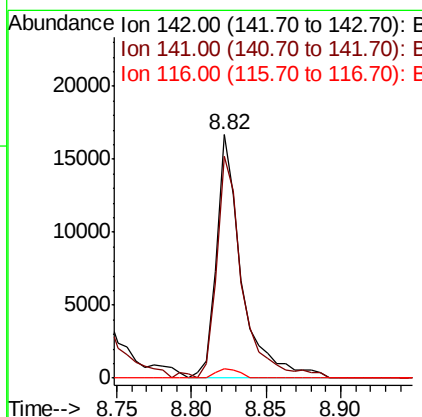
Manual Integrations
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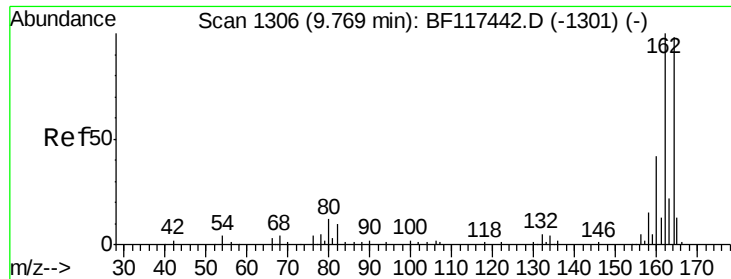
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#38
1-Methylnaphthalene
Concen: 3.909 ng
RT: 8.82 min Scan# 1145
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.3	109.9
116	3.9	3.1	4.7





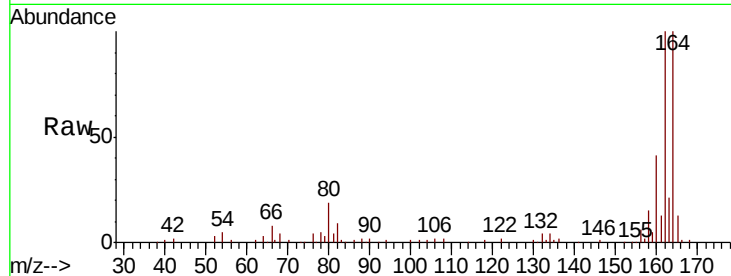
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.8	122.6
160	41.4	34.4	51.6

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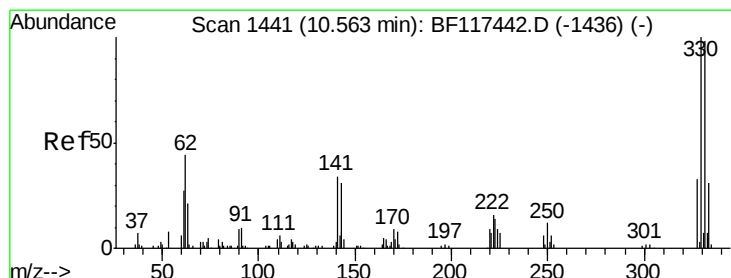
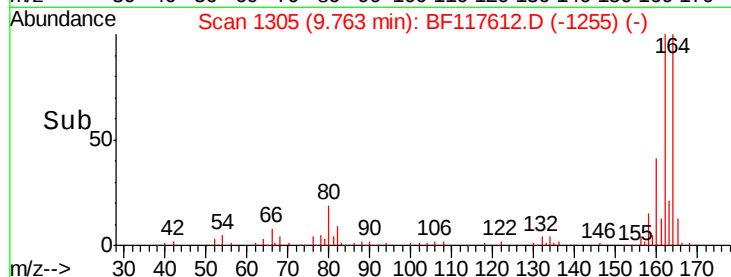
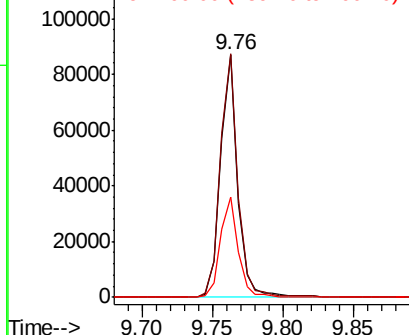


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 12.340 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

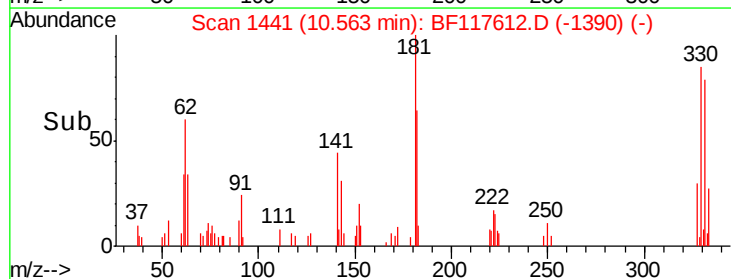
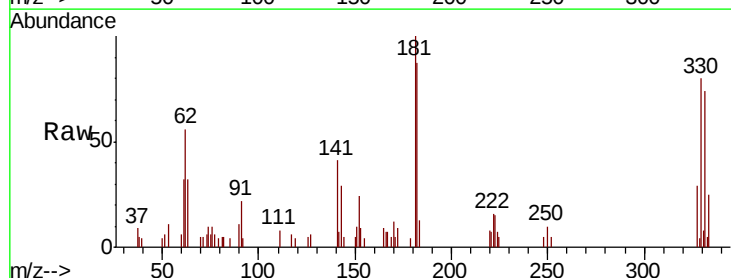
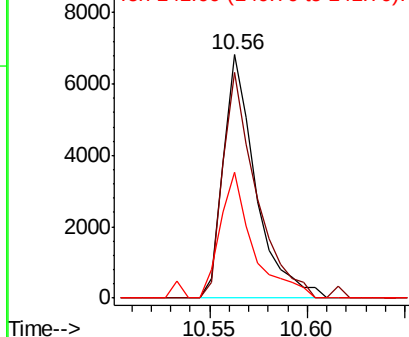
Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.0	78.5	117.7
141	52.1	37.0	55.6

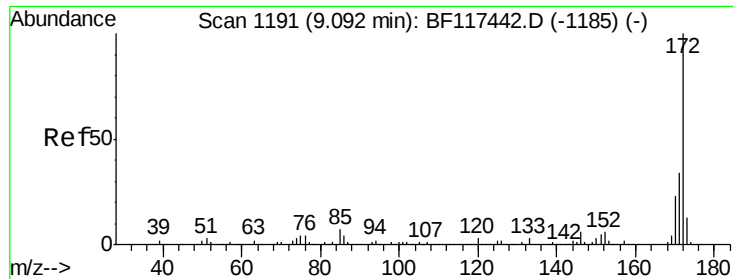
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





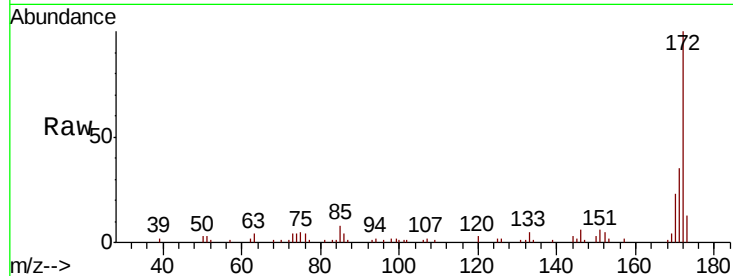
#45
2-Fluorobiphenyl
Concen: 10.204 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.1	27.5	41.3
170	23.1	18.6	27.8

Manual Integrations
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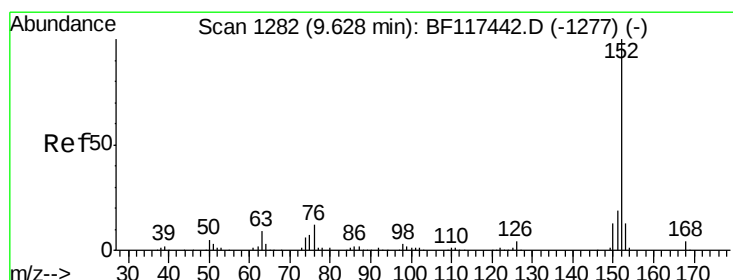
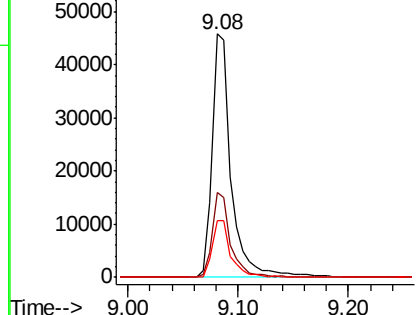
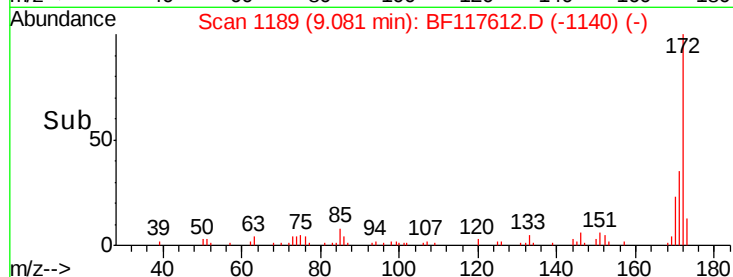


Abundance

Ion 172.00 (171.70 to 172.70): E

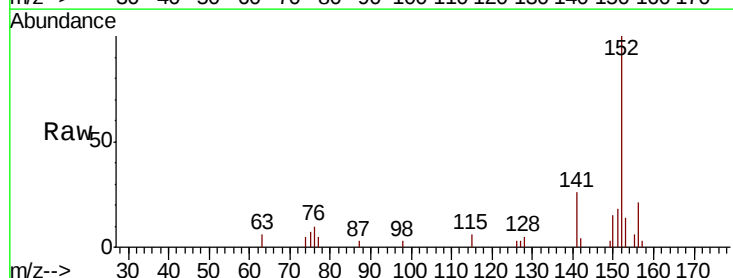
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 2.000 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
152	100		
151	17.8	15.4	23.0
153	13.8	10.3	15.5

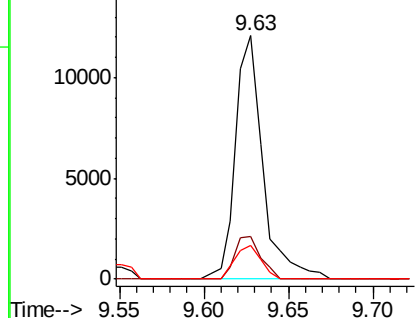
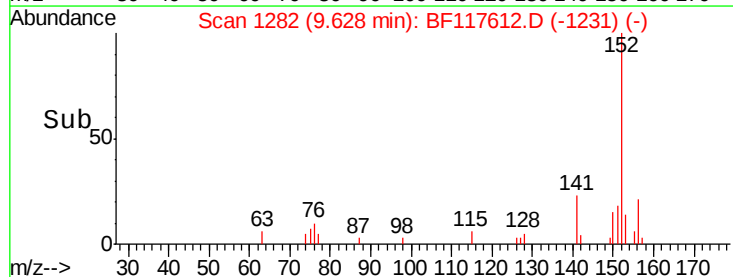


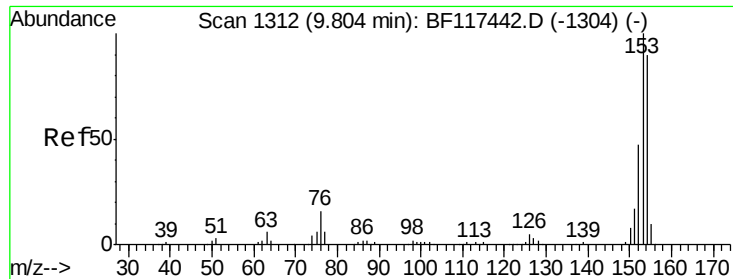
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#52

Acenaphthene

Concen: 12.922 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF117612.D

Acq: 30 Oct 2019 1:42

Instrument :

BNA_F

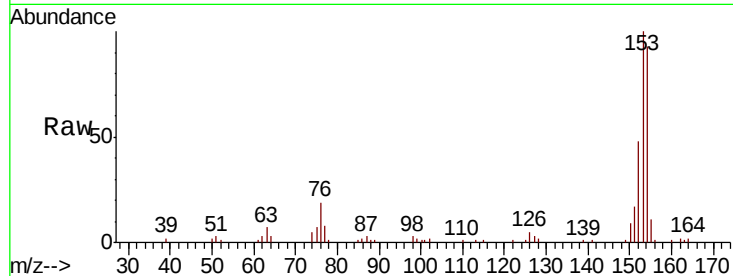
ClientSampleId :

CSA-2-1-8

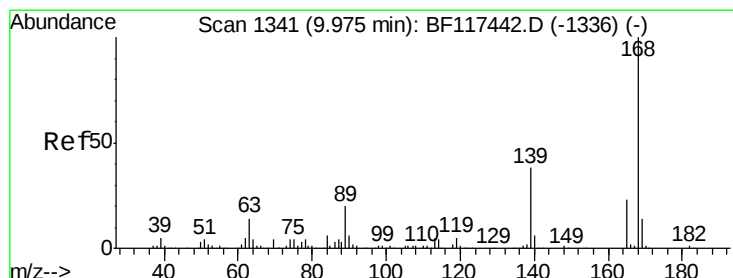
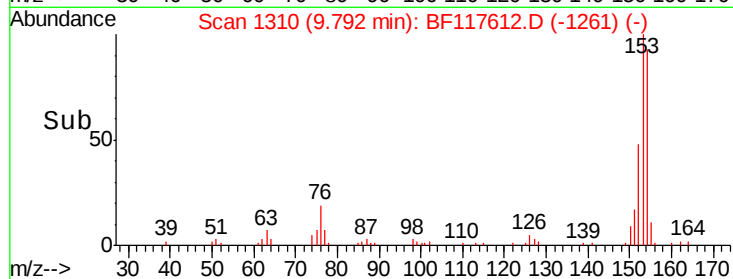
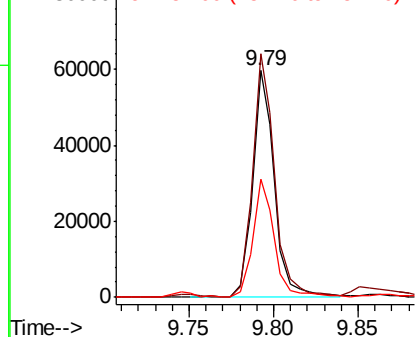
Tot Ion:	154	Resp:	53774
Ion Ratio	Lower	Upper	
154	100		
153	107.5	89.2	133.8
152	52.1	41.8	62.6

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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: 7.648 ng

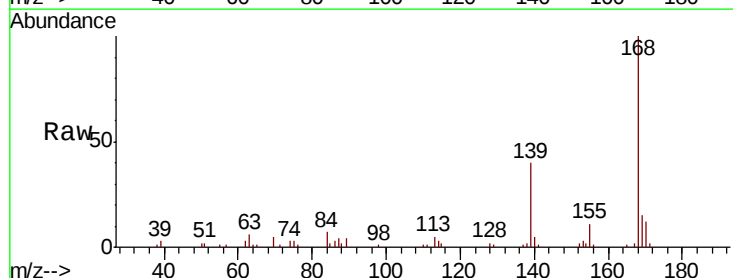
RT: 9.97 min Scan# 1340

Delta R.T. -0.01 min

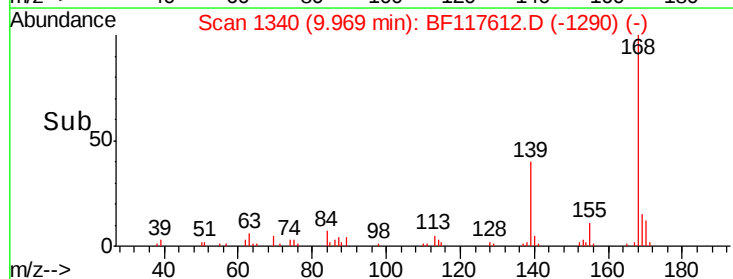
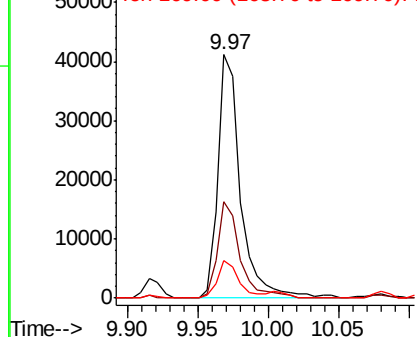
Lab File: BF117612.D

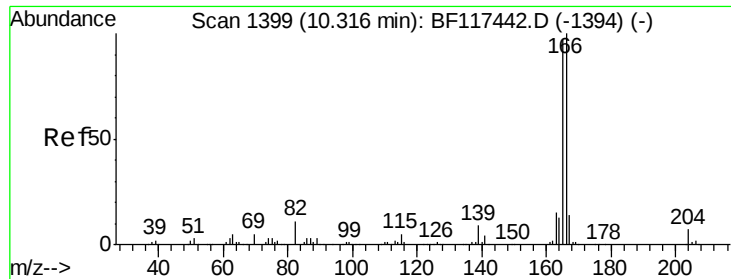
Acq: 30 Oct 2019 1:42

Tgt Ion:	168	Resp:	46112
Ion Ratio	Lower	Upper	
168	100		
139	39.8	31.8	47.6
169	15.4	11.2	16.8



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





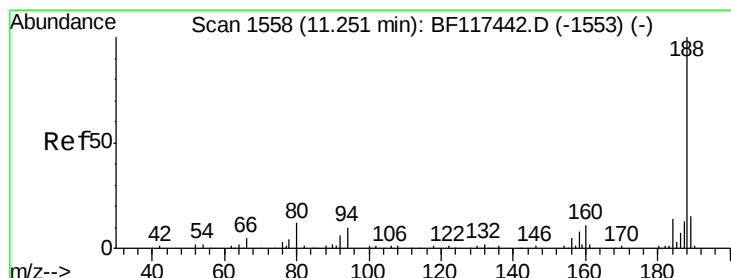
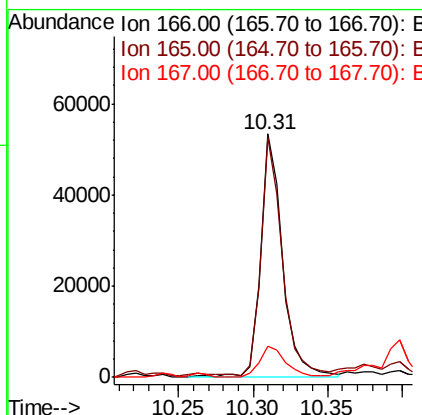
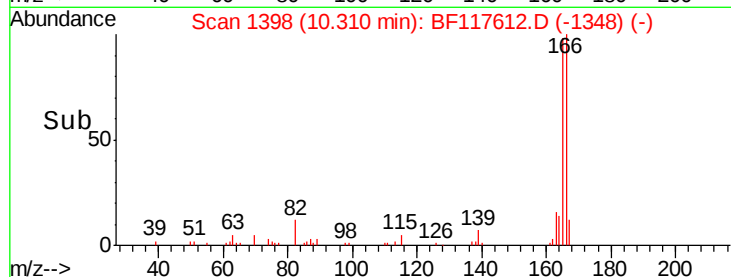
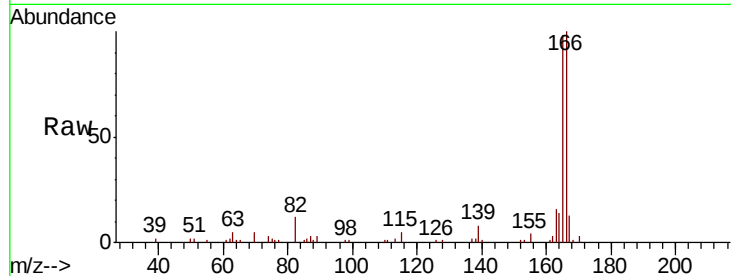
#58
 Fluorene
 Concen: 10.812 ng
 RT: 10.31 min Scan# 1398
 Delta R.T. -0.01 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-8

Tot Ion	Ion	Ratio	Lower	Upper
166	100			
165	98.2	77.6	116.4	
167	12.8	11.0	16.4	

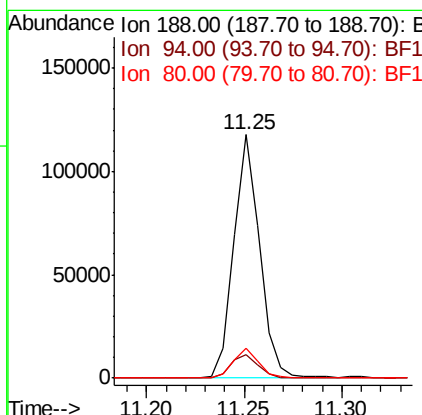
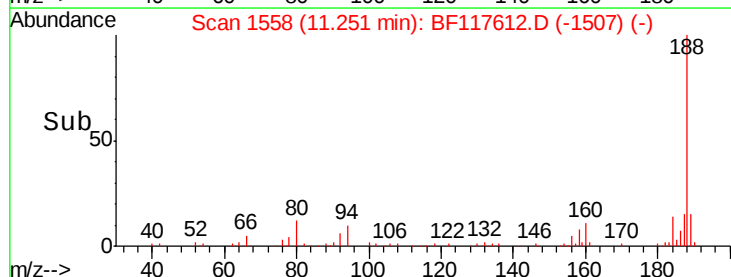
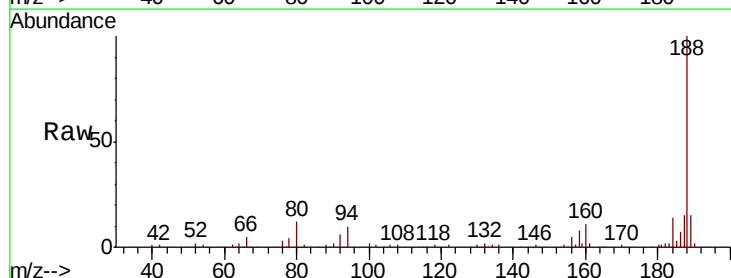
Manual Integrations
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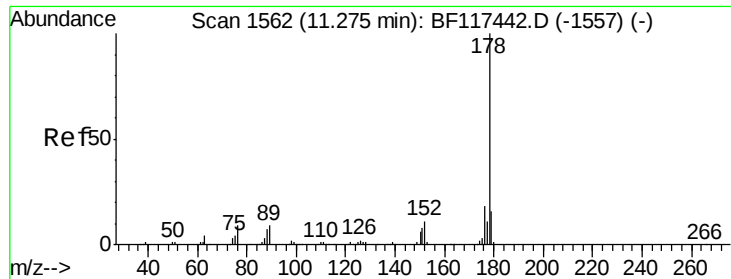
mohammad
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.00 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.6	8.0	12.0	
80	12.0	9.5	14.3	





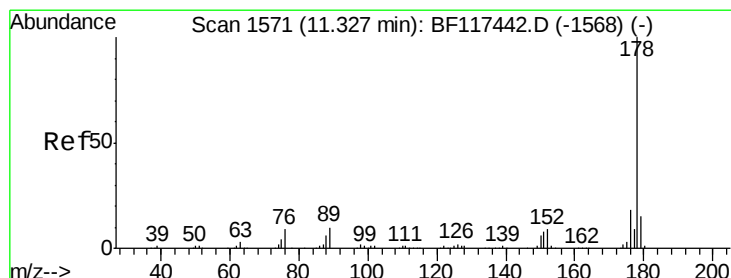
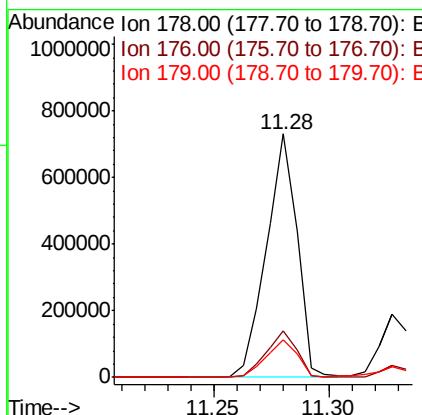
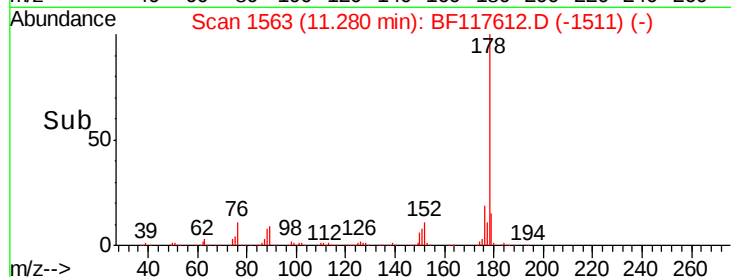
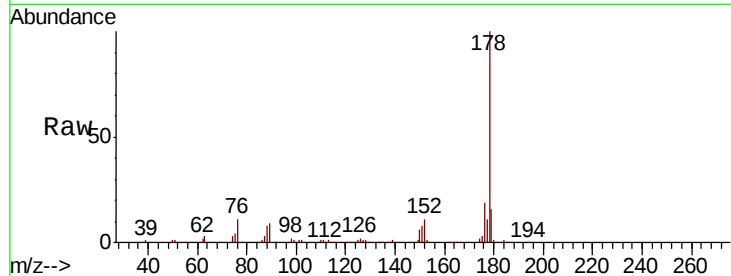
#71
Phenanthrene
Concen: 107.589 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	22.0
179	15.5	12.6	19.0

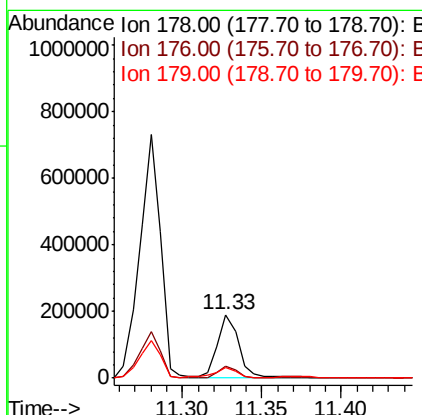
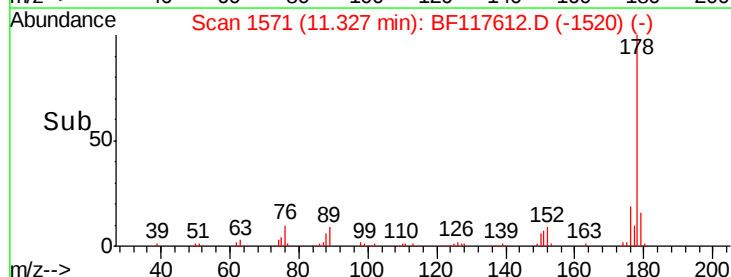
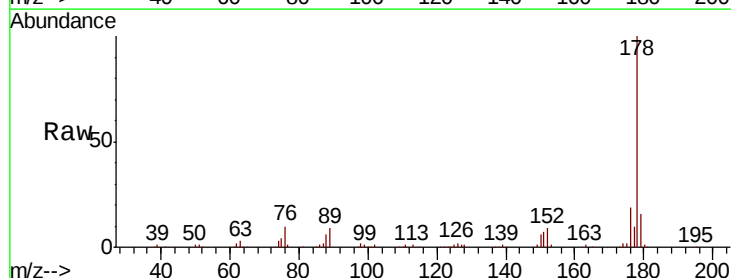
Manual Integrations
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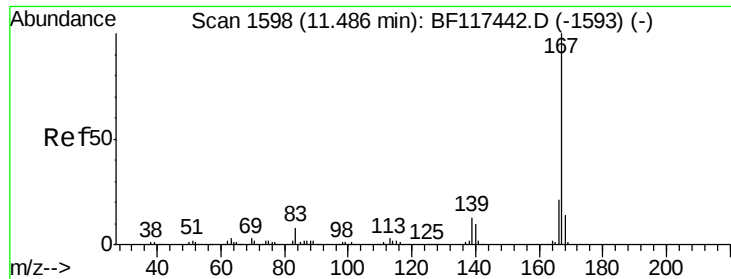
mohammad
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#72
Anthracene
Concen: 27.606 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	16.1	12.2	18.2





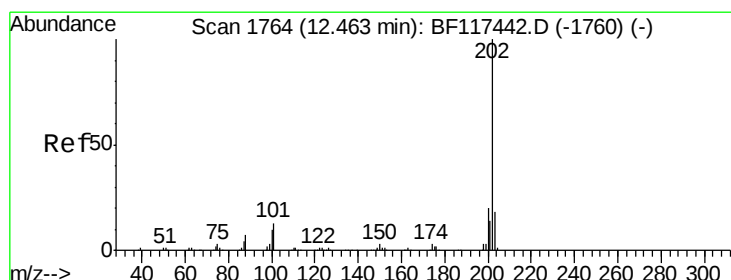
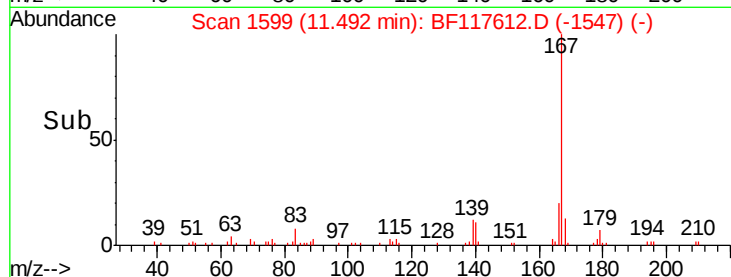
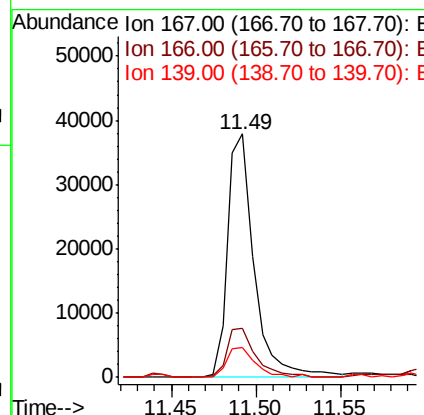
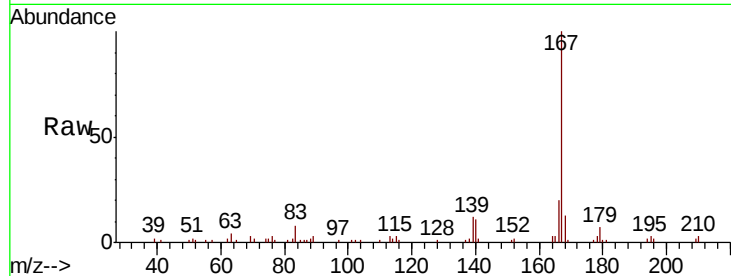
#73
 Carbazole
 Concen: 7.014 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. 0.01 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-8

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100		41438		
166	20.2		17.0	25.6	
139	12.2		10.6	16.0	

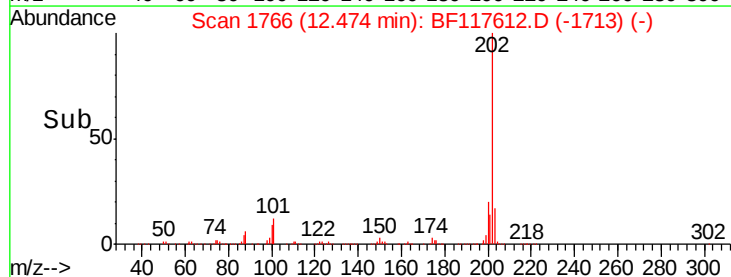
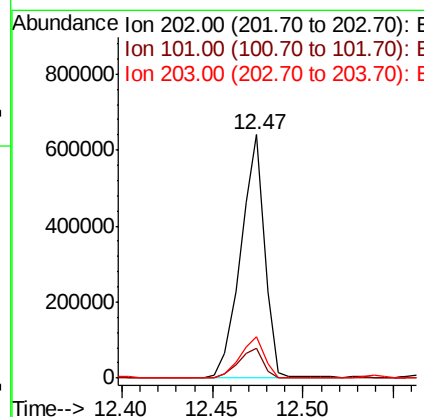
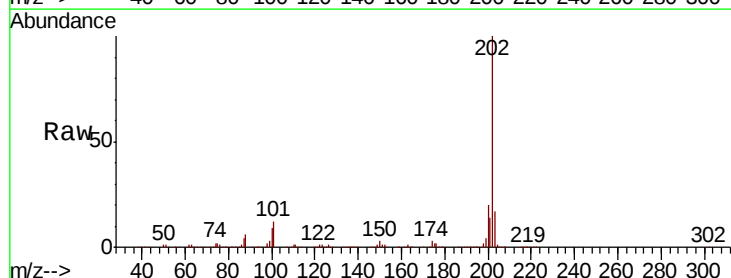
Manual Integrations
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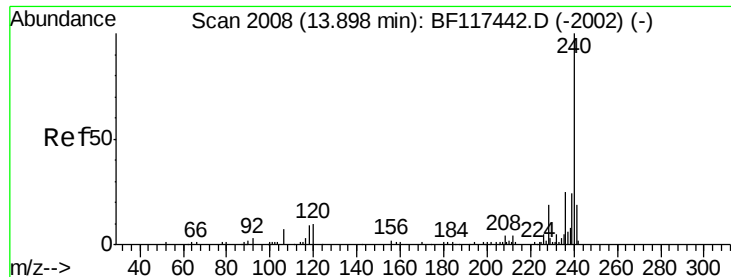
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#75
 Fluoranthene
 Concen: 92.779 ng
 RT: 12.47 min Scan# 1766
 Delta R.T. 0.01 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		585165		
101	12.3		0.0	32.7	
203	17.1		0.0	37.6	





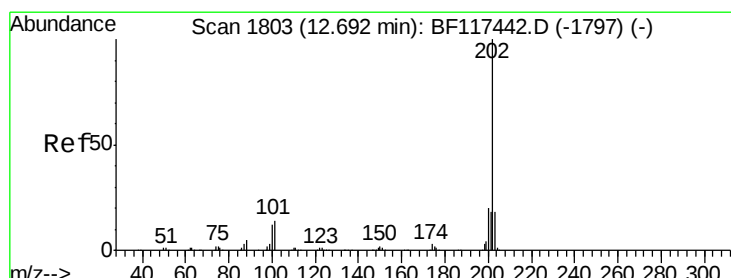
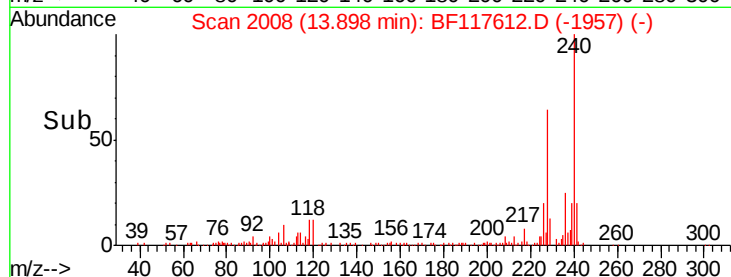
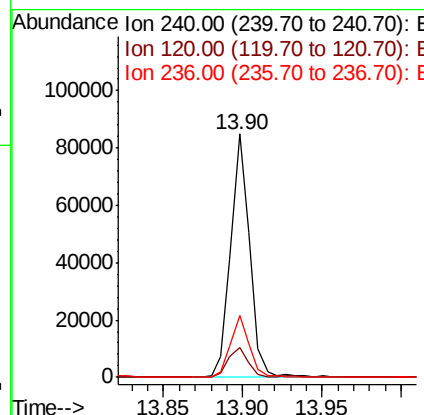
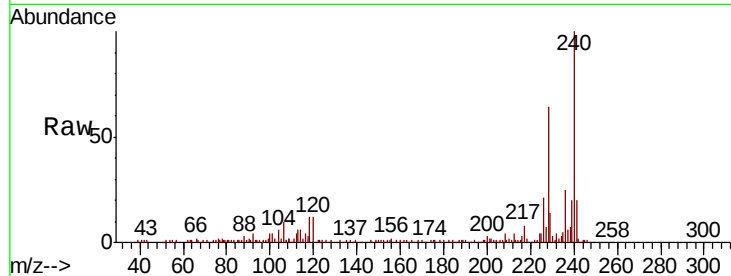
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.00 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Resp Lower	Upper
240	100		
120	12.2	8.4	12.6
236	25.5	20.0	30.0

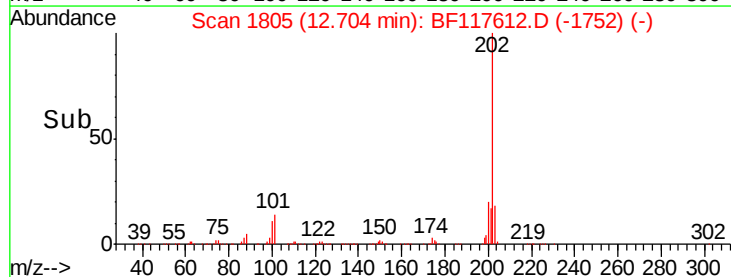
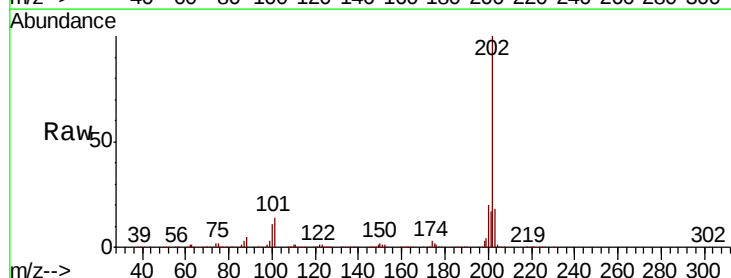
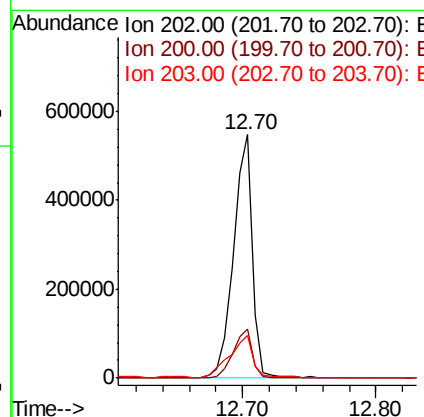
Manual Integrations
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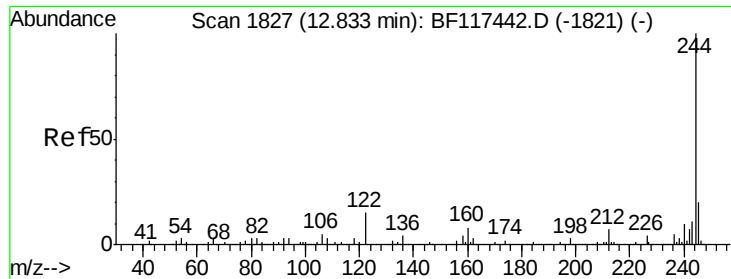
mohammad
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#78
Pyrene
Concen: 89.967 ng
RT: 12.70 min Scan# 1805
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Resp Lower	Upper
202	100		
200	20.2	16.2	24.2
203	17.8	14.0	21.0





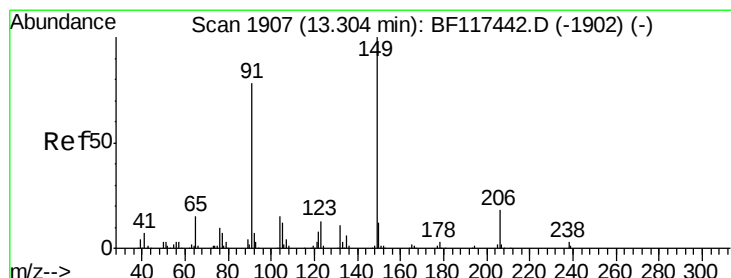
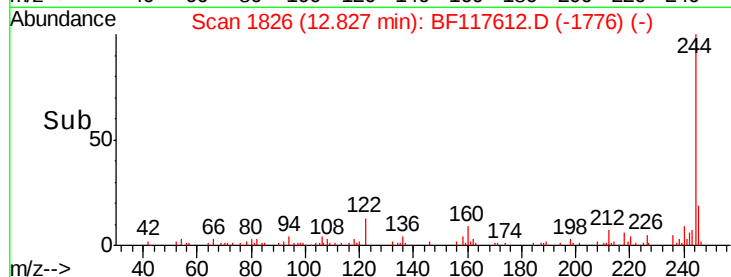
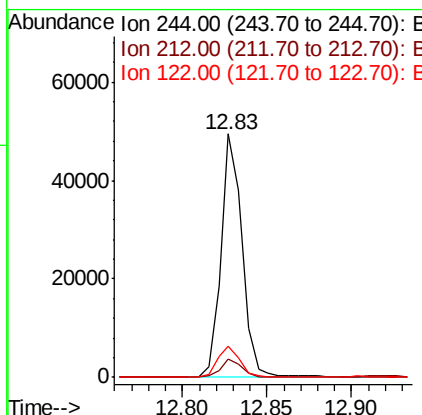
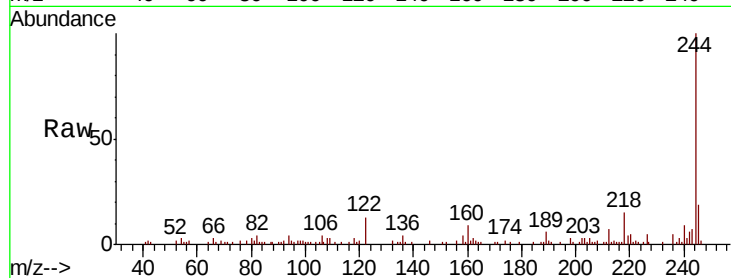
#79
 Terphenyl-d14
 Concen: 10.054 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Instrument :
 BNA_F
 ClientSampled :
 CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.6
122	12.7	11.8	17.8

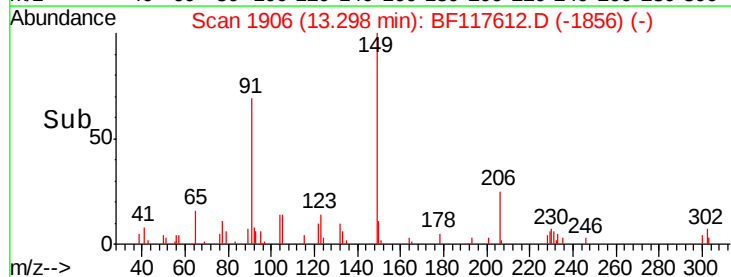
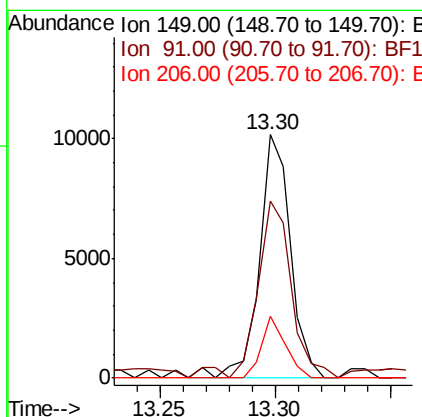
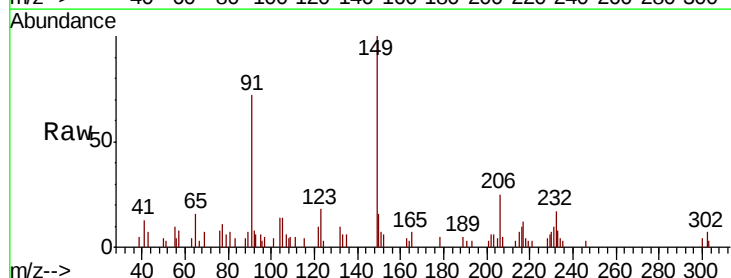
Manual Integrations
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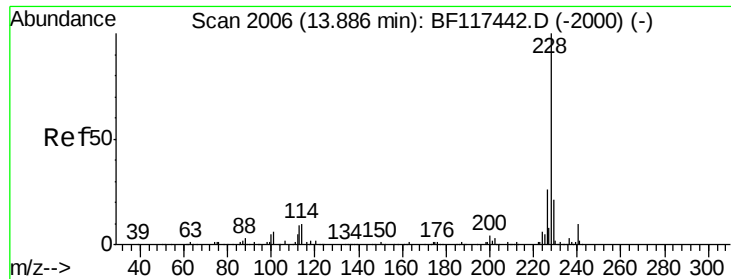
mohammad
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#80
 Butylbenzylphthalate
 Concen: 3.180 ng
 RT: 13.30 min Scan# 1906
 Delta R.T. -0.01 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
149	100		
91	72.5	62.1	93.1
206	25.4	14.3	21.5





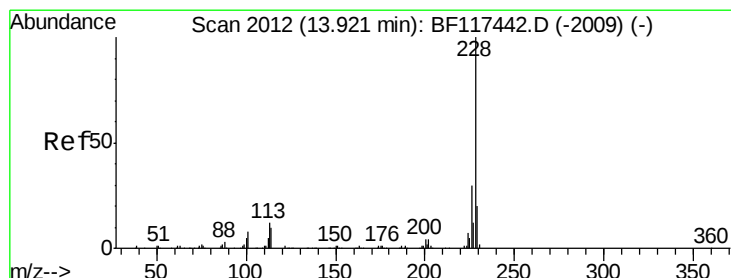
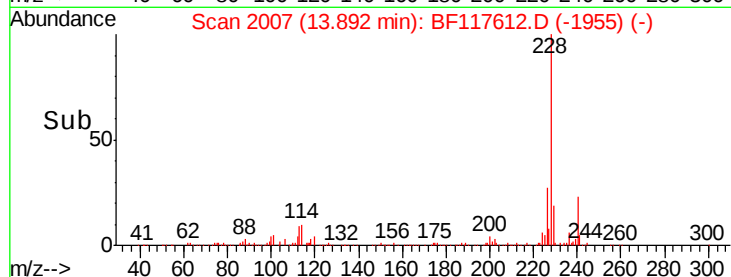
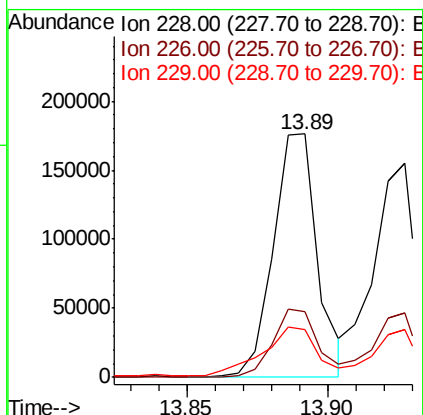
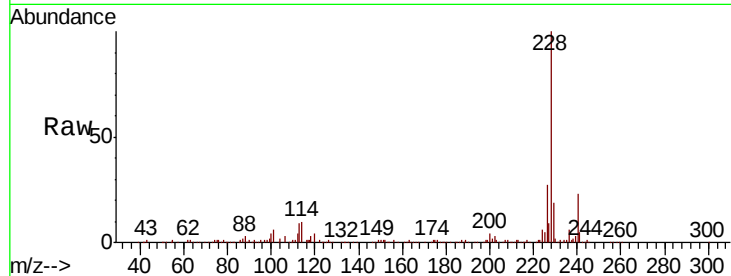
#81
Benzo(a)anthracene
Concen: 39.973 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.0	31.4
229	19.4	16.4	24.6

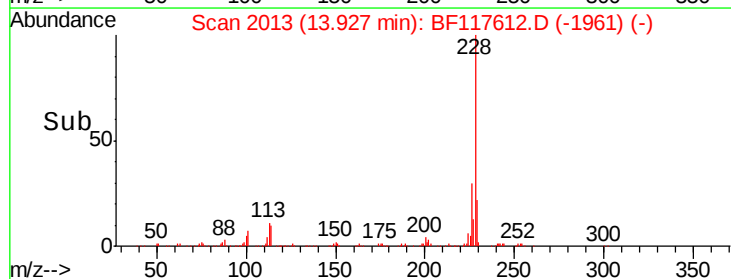
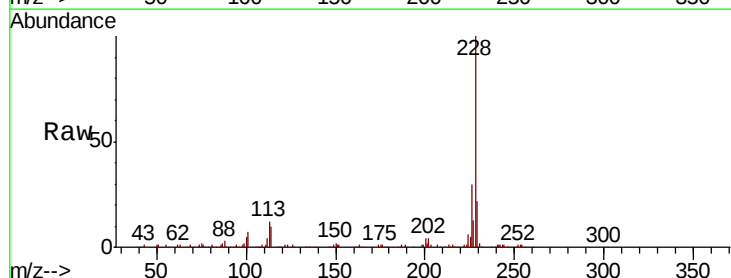
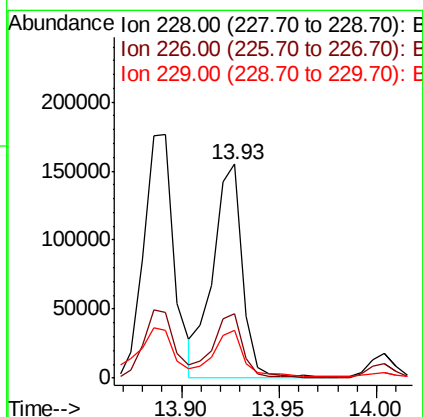
Manual Integrations
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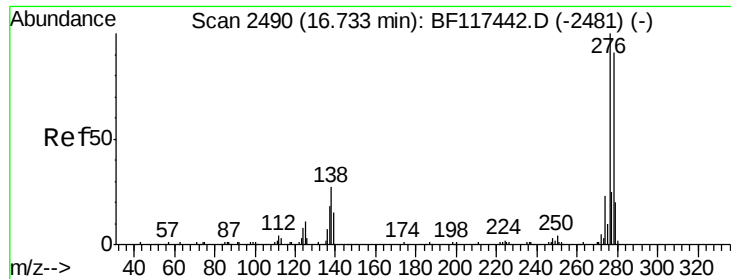
mohammad
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#83
Chrysene
Concen: 34.849 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9
229	22.1	15.8	23.6





#86

Indeno(1,2,3-cd)pyrene

Concen: 14.086 ng

RT: 16.75 min Scan# 2493

Delta R.T. 0.02 min

Lab File: BF117612.D

Acq: 30 Oct 2019 1:42

Instrument :

BNA_F

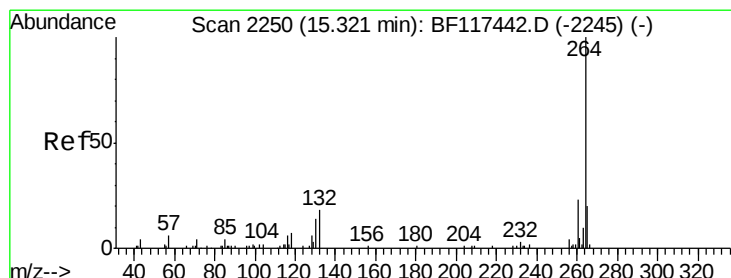
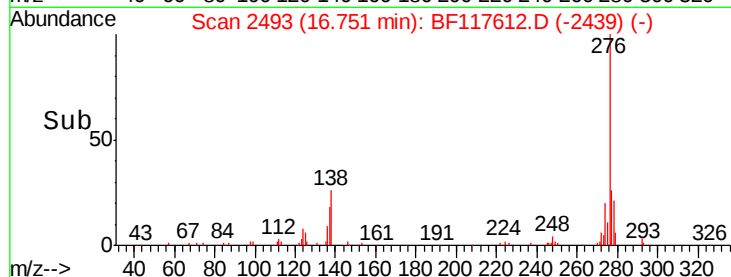
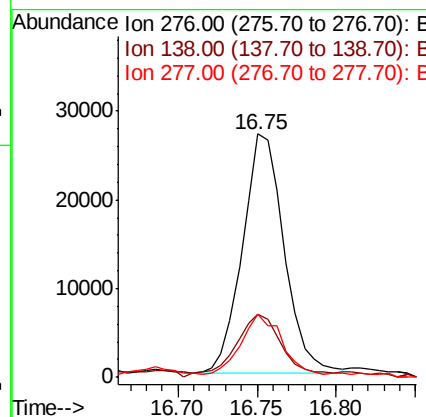
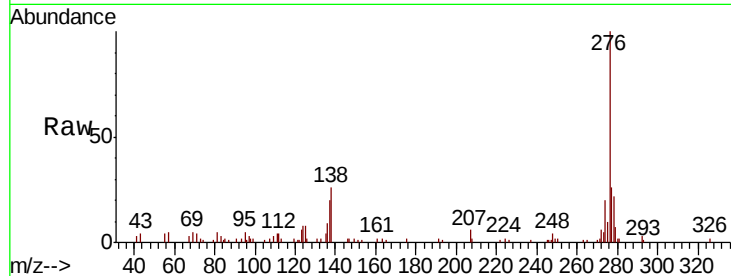
ClientSampled :

CSA-2-1-8

Tot Ion:	276	Resp:	48916
Ion Ratio	Lower	Upper	
276	100		
138	29.9	21.8	32.8
277	24.0	20.0	30.0

Manual Integrations
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#87

Perylene-d12

Concen: 20.000 ng

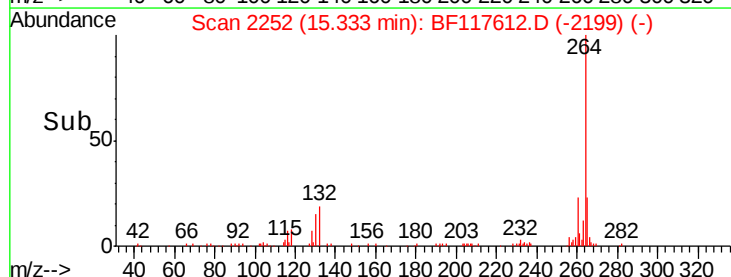
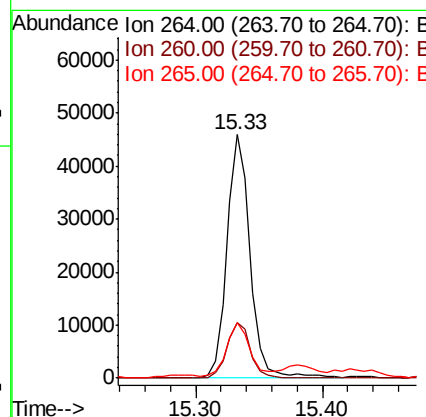
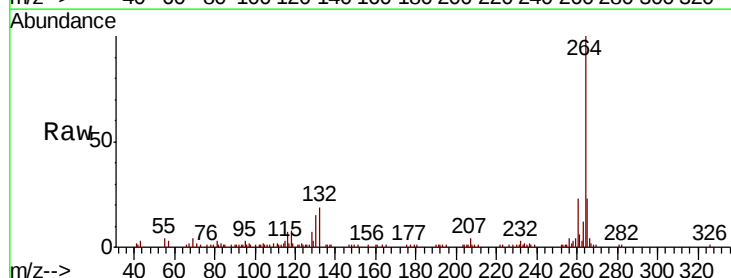
RT: 15.33 min Scan# 2252

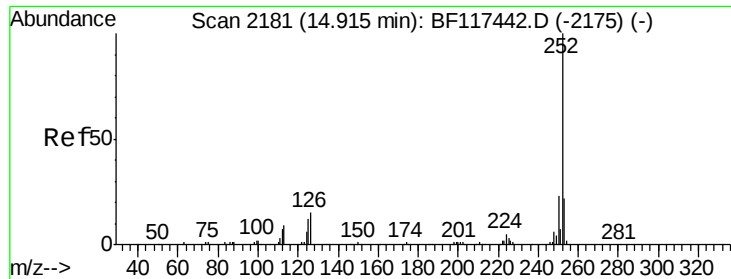
Delta R.T. 0.01 min

Lab File: BF117612.D

Acq: 30 Oct 2019 1:42

Tgt Ion:	264	Resp:	57764
Ion Ratio	Lower	Upper	
264	100		
260	22.8	18.4	27.6
265	22.7	16.1	24.1





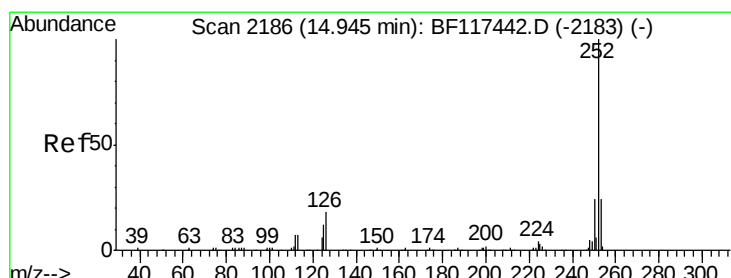
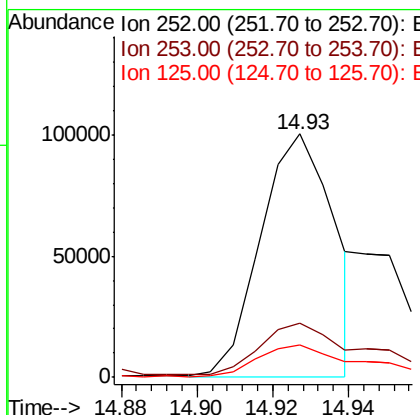
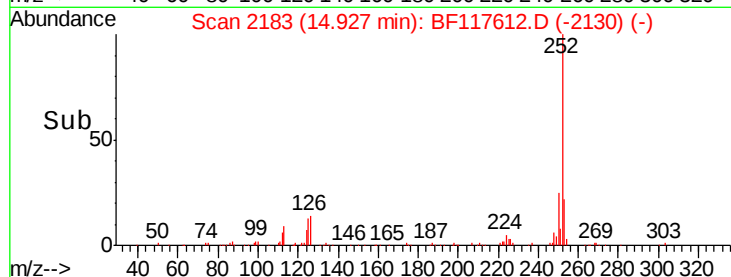
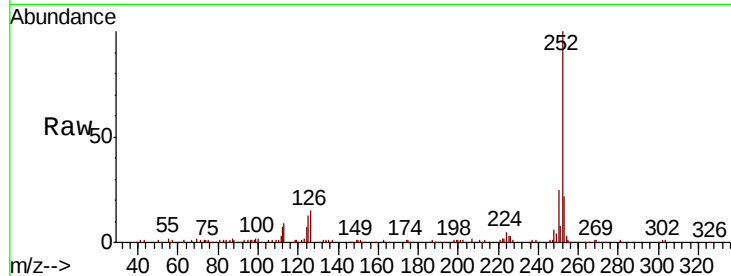
#88
Benzo(b)fluoranthene
Concen: 39.727 ng m
RT: 14.93 min Scan# 2183
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampleId :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	13.1	9.9	14.9

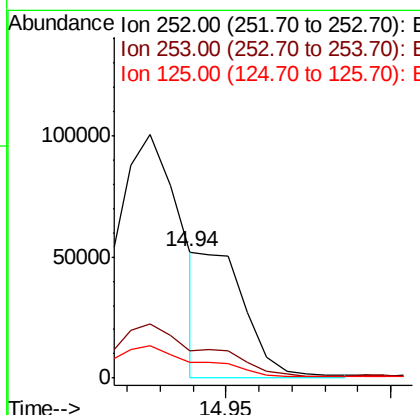
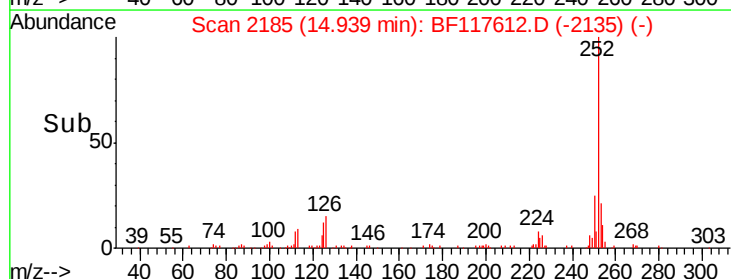
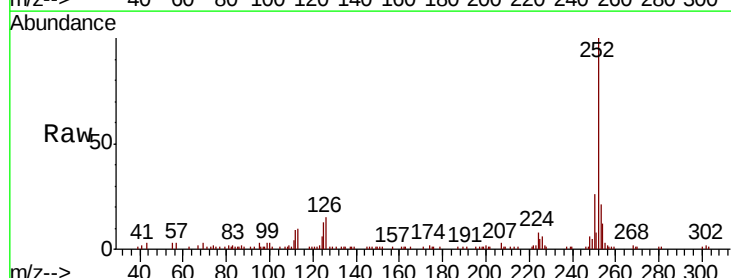
Manual Integrations
APPROVED

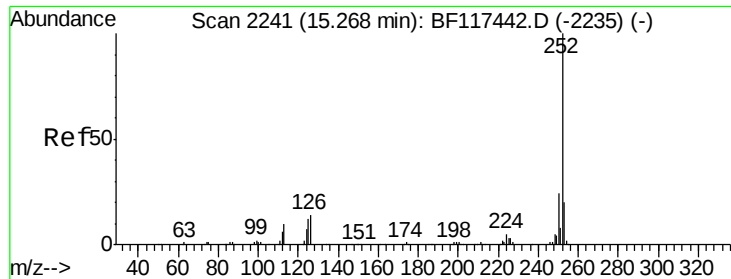
mohammad
10/30/2019 4:53:43 PM



#89
Benzo(k)fluoranthene
Concen: 14.596 ng m
RT: 14.94 min Scan# 2185
Delta R.T. -0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.0	27.0
125	12.9	8.9	13.3





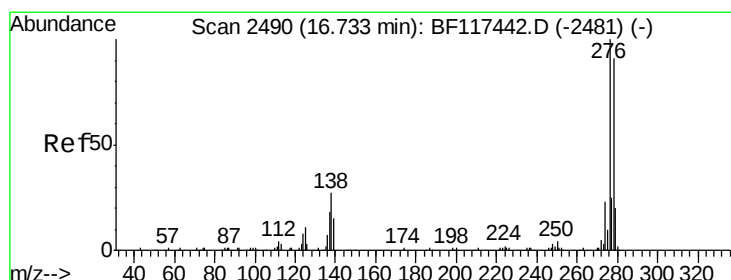
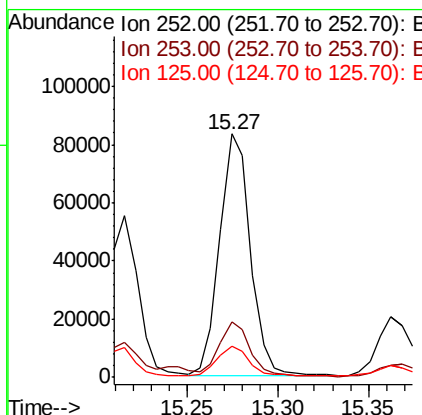
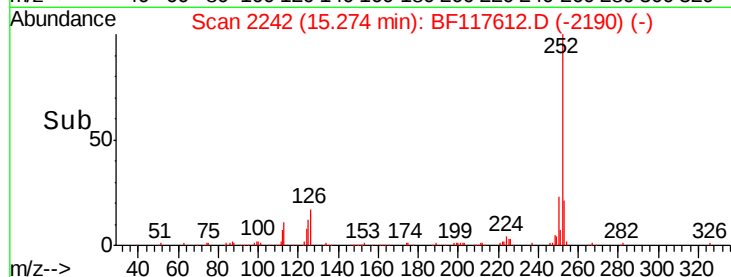
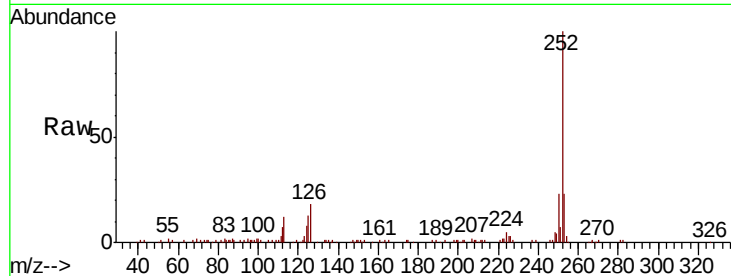
#90
Benzo(a)pyrene
Concen: 31.945 ng
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Instrument :
BNA_F
ClientSampled :
CSA-2-1-8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	16.3	24.5
125	12.7	9.2	13.8

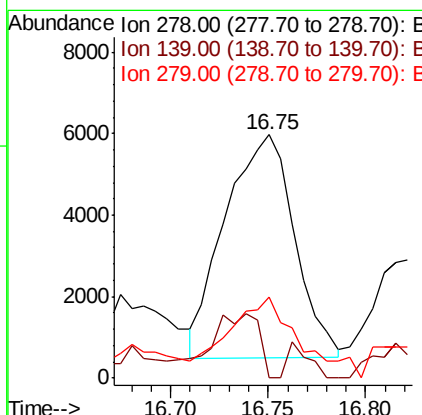
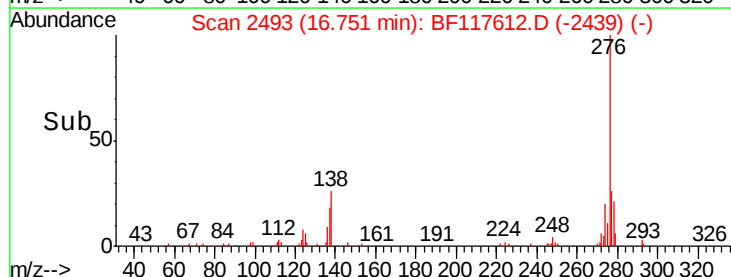
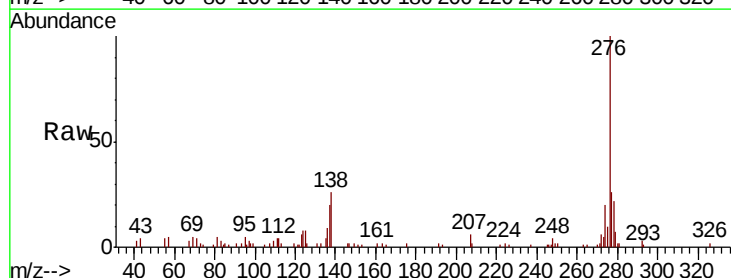
Manual Integrations
APPROVED

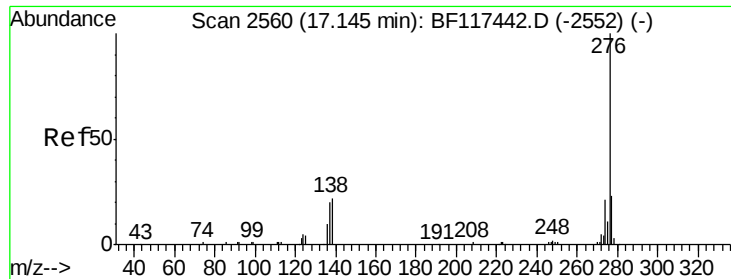
mohammad
10/30/2019 4:53:43 PM



#91
Dibenzo(a,h)anthracene
Concen: 5.065 ng m
RT: 16.75 min Scan# 2493
Delta R.T. 0.02 min
Lab File: BF117612.D
Acq: 30 Oct 2019 1:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.4	20.0#
279	33.1	17.8	26.6#





#92
 Benzo(a,h,i)perylene
 Concen: 18.506 ng
 RT: 17.18 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: BF117612.D
 Acq: 30 Oct 2019 1:42

Instrument :
 BNA_F
 ClientSampleId :
 CSA-2-1-8

Tot Ion:	276	Resp:	46955
Ion Ratio		Lower	Upper
276	100		
277	24.7	18.4	27.6
138	21.2	17.8	26.6

Manual Integrations
 APPROVED

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