

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
 Data File : BF115931.D
 Acq On : 2 Aug 2019 2:21
 Operator : HP/JU
 Sample : K4049-04DL 20X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-4DL

Manual Integrations
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Quant Time: Aug 02 08:11:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	120609	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	481194	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	226930	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	331617	20.00	ng	0.00
76) Chrysene-d12	14.03	240	267331	20.00	ng	0.00
87) Perylene-d12	15.49	264	257762	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	33283	4.62	ng	0.00
7) Phenol-d6	6.49	99	45782	5.04	ng	0.00
23) Nitrobenzene-d5	7.42	82	26729	3.21	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	7456	3.39	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	52646	4.35	ng	0.00
79) Terphenyl-d14	12.96	244	43213	3.41	ng	0.00
Target Compounds						
49) Acenaphthylene	9.75	152	84852	4.362	ng	99
55) Dibenzofuran	10.10	168	38962	2.245	ng	# 97
58) Fluorene	10.44	166	34129	2.556	ng	# 99
71) Phenanthrene	11.40	178	758705	44.754	ng	99
72) Anthracene	11.46	178	176573	10.291	ng	99
73) Carbazole	11.61	167	66153	4.250	ng	98
75) Fluoranthene	12.60	202	1301865	73.352	ng	97
78) Pyrene	12.83	202	1183643	58.736	ng	99
81) Benzo(a)anthracene	14.02	228	662424	38.768	ng	98
83) Chrysene	14.05	228	537970	32.430	ng	96
86) Indeno(1,2,3-cd)pyrene	16.97	276	219137	15.728	ng	97
88) Benzo(b)fluoranthene	15.07	252	647984m	43.477	ng	
89) Benzo(k)fluoranthene	15.09	252	186765m	12.865	ng	
90) Benzo(a)pyrene	15.43	252	421581	31.643	ng	99
91) Dibenzo(a,h)anthracene	16.97	278	56783m	4.924	ng	
92) Benzo(g,h,i)perylene	17.42	276	200845	17.733	ng	100

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

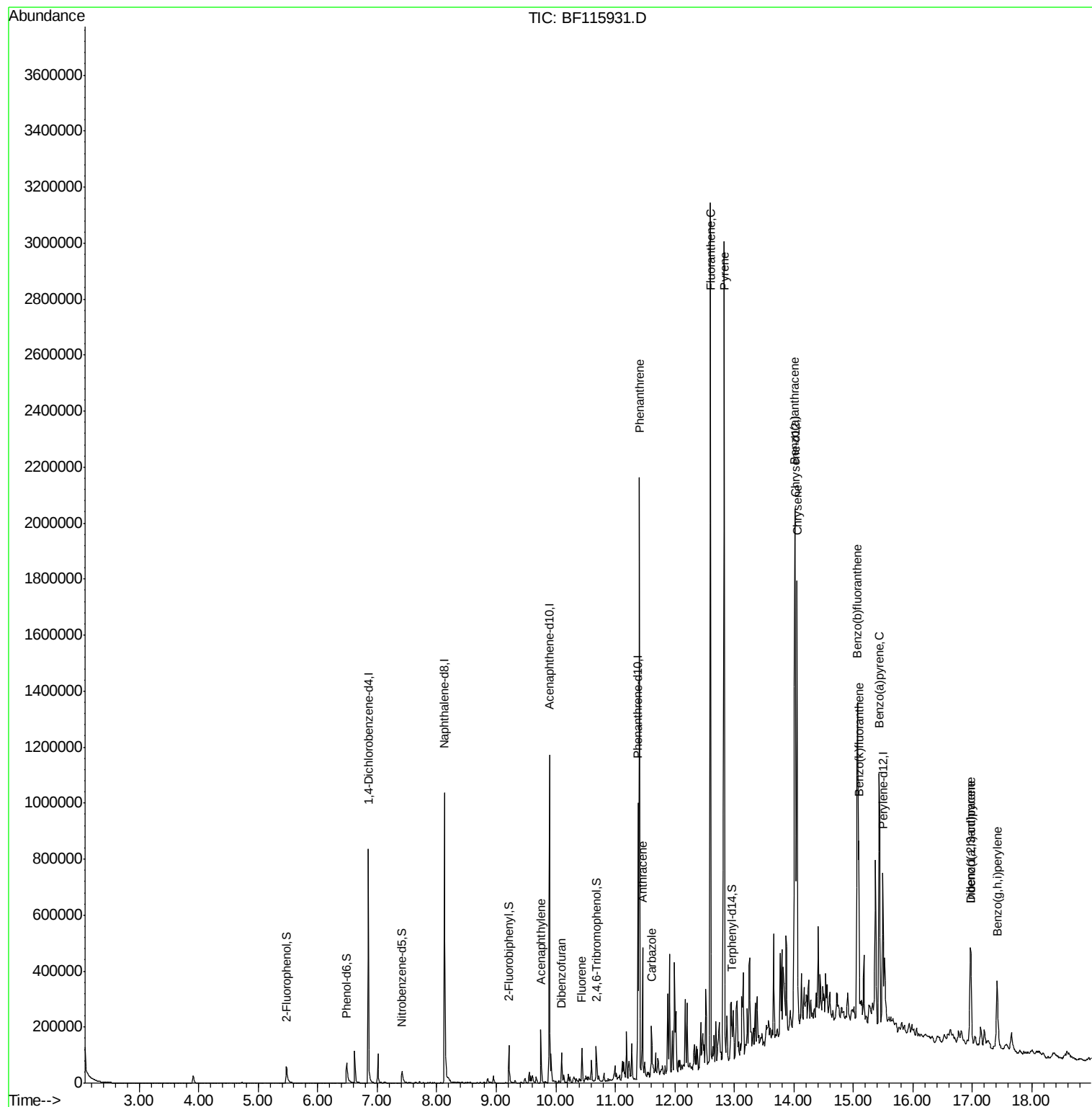
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
Data File : BF115931.D
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ALS Vial : 24 Sample Multiplier: 1

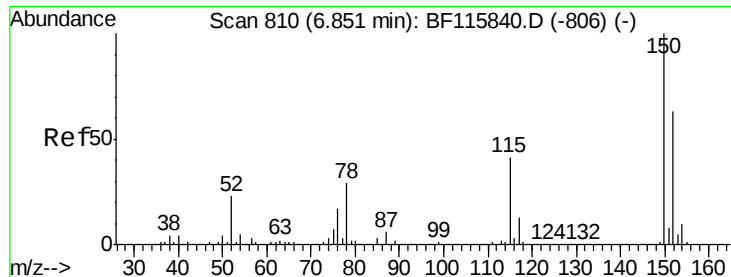
Instrument :
BNA_F
ClientSampled :
SP-4DL

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#1

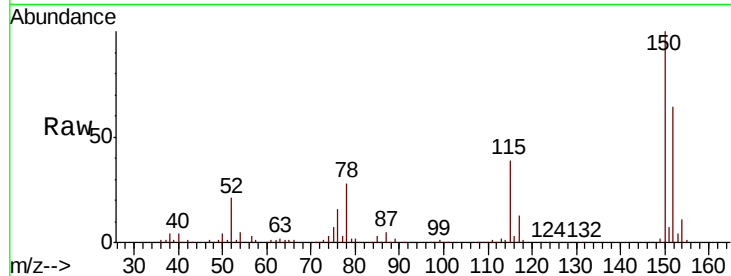
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampled :
SP-4DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.6	127.4	191.0
115	61.3	51.8	77.8

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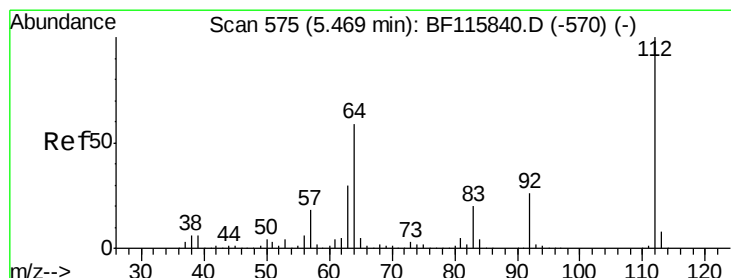
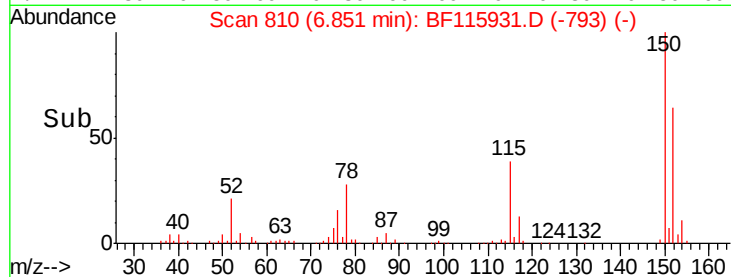
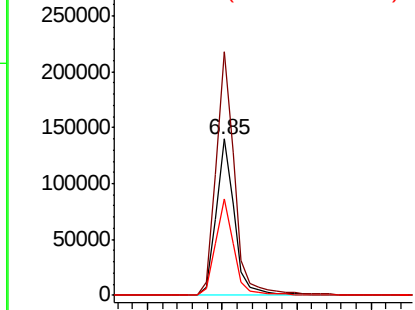


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

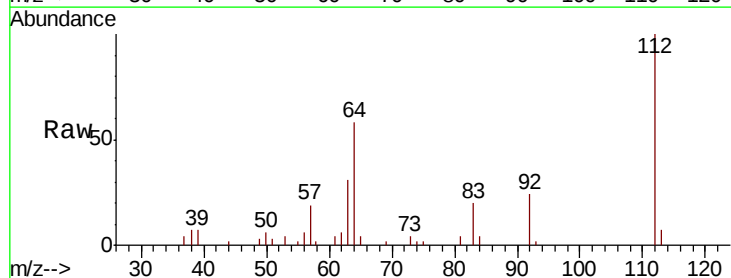
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 4.620 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.8	46.8	70.2
63	31.1	24.2	36.2

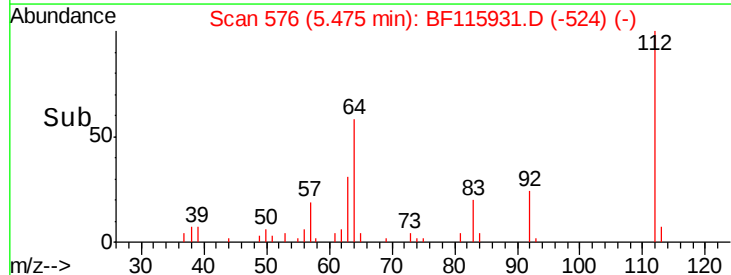
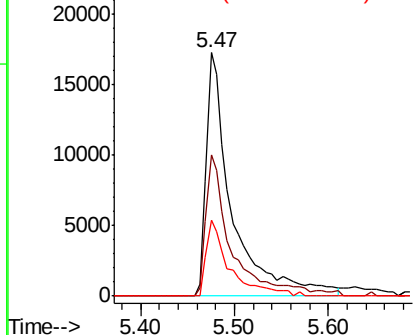


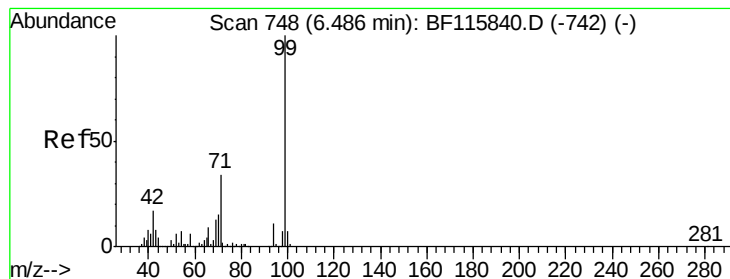
Abundance

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: 5.037 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.00 min

Lab File: BF115931.D

Acq: 2 Aug 2019 2:21

Instrument :

BNA_F

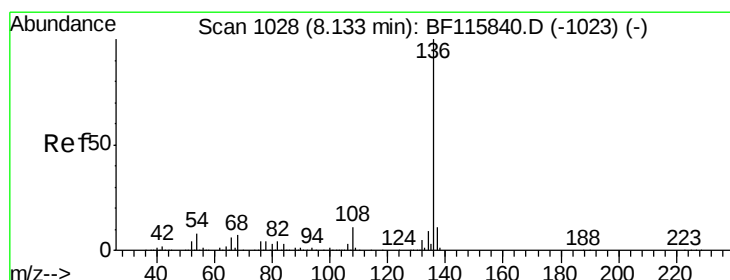
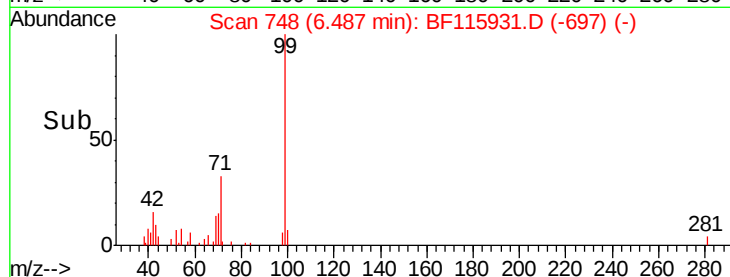
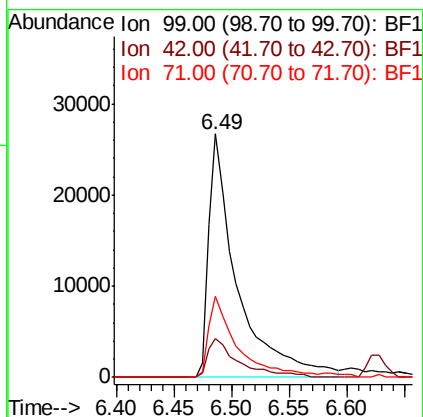
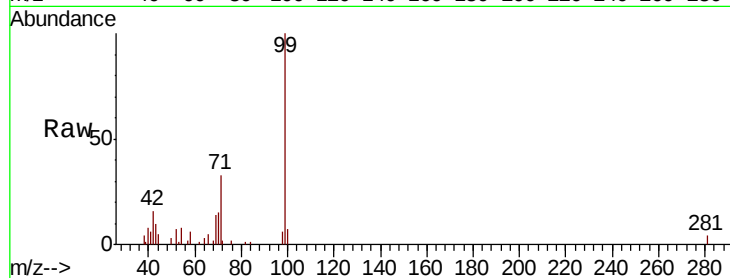
ClientSampleId :

SP-4DL

Tot Ion:	99	Resp:	45782
Ion Ratio	Lower	Upper	
99	100		
42	16.2	13.8	20.6
71	33.3	27.1	40.7

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#21

Naphthalene-d8

Concen: 20.000 ng

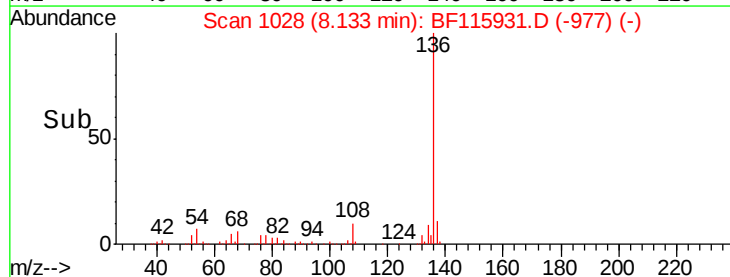
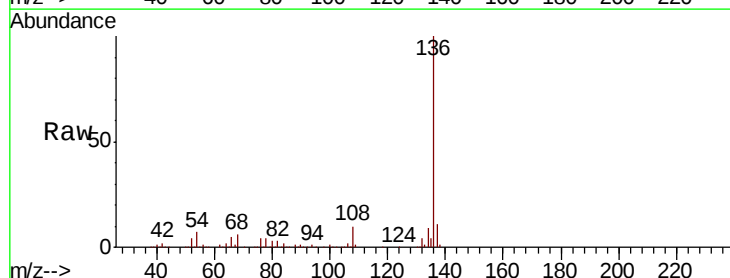
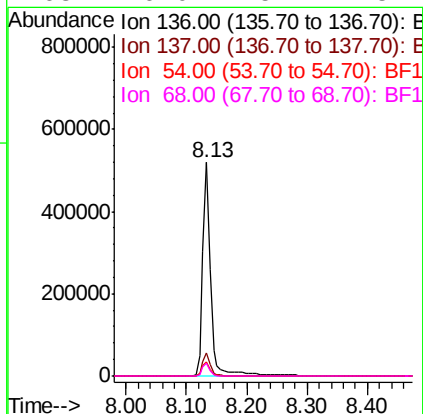
RT: 8.13 min Scan# 1028

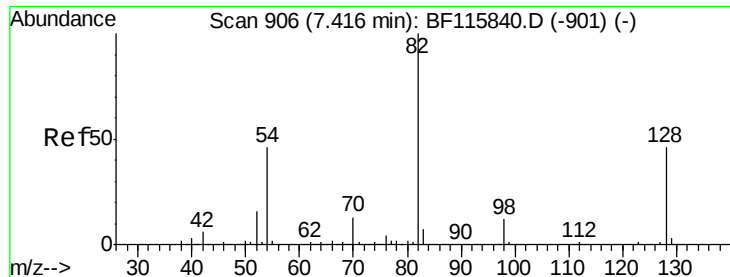
Delta R.T. 0.00 min

Lab File: BF115931.D

Acq: 2 Aug 2019 2:21

Tgt Ion:	136	Resp:	481194
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.1	13.7
54	6.8	6.1	9.1
68	6.0	5.4	8.2





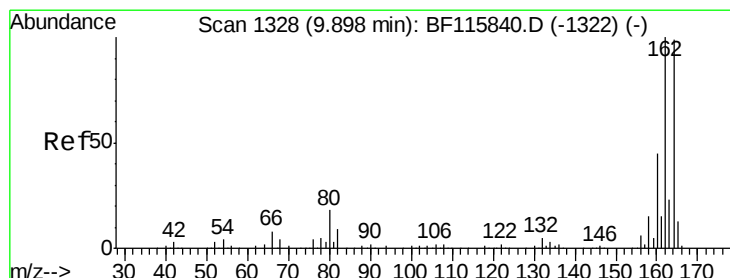
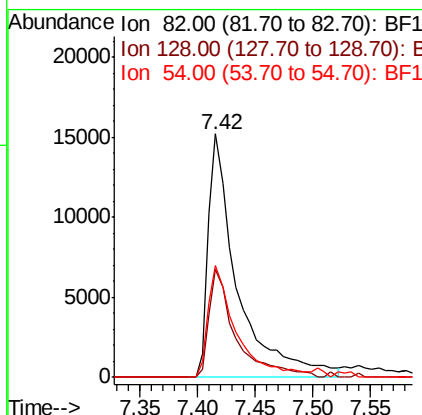
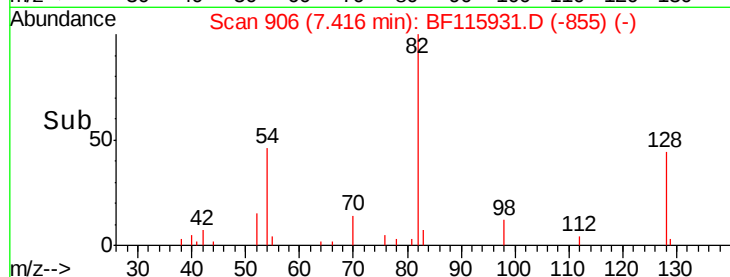
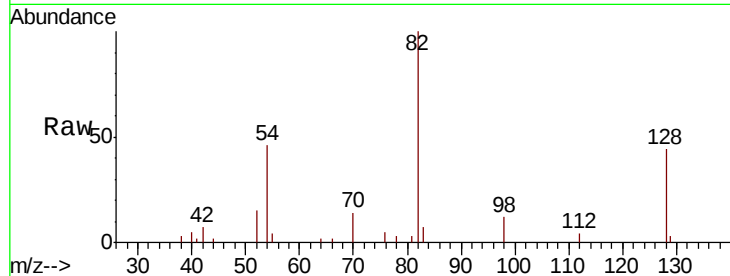
#23
Nitrobenzene-d5
Concen: 3.206 ng
RT: 7.42 min Scan# 906
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampled :
SP-4DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.6	55.0
54	45.9	36.6	55.0

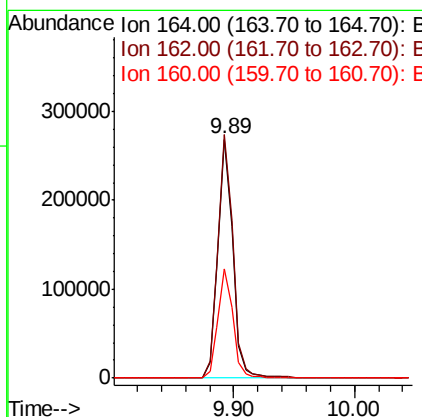
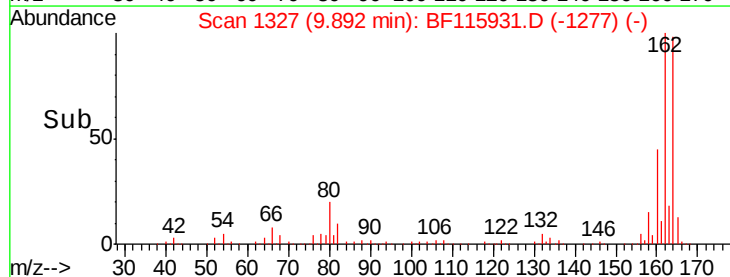
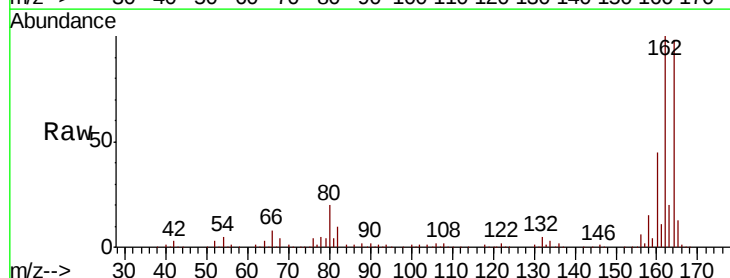
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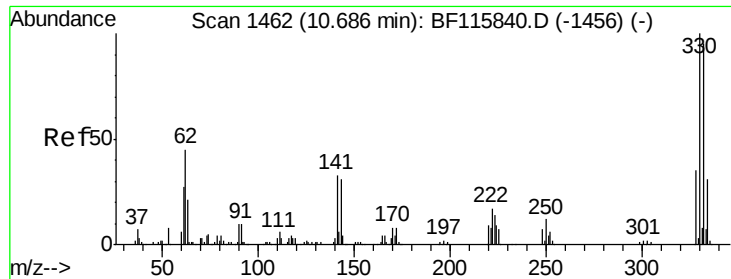
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.0	80.8	121.2
160	45.5	36.2	54.4





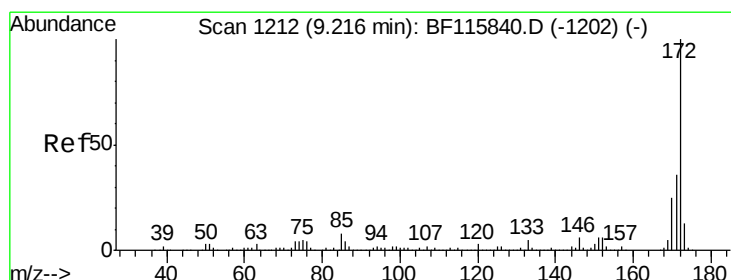
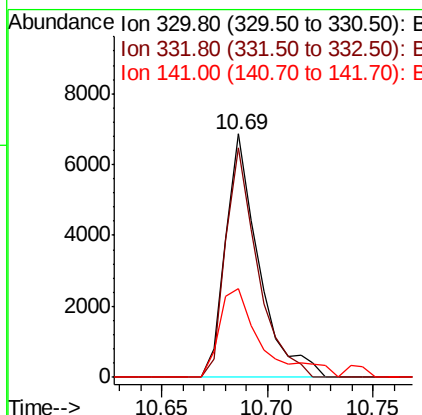
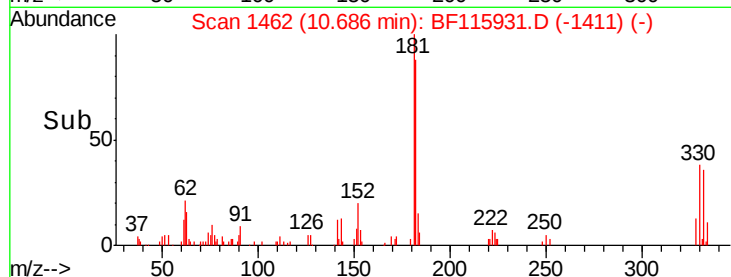
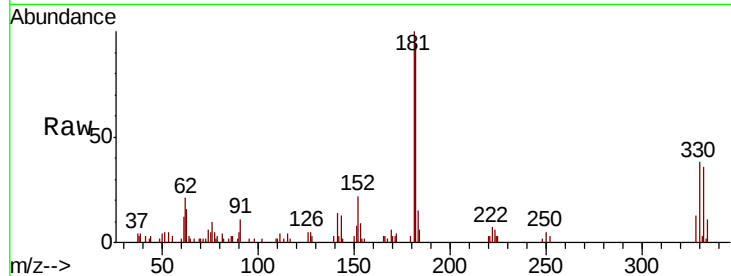
#42
 2,4,6-Tribromophenol
 Concen: 3.389 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. 0.00 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Instrument :
 BNA_F
 ClientSampled :
 SP-4DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	90.9	77.7	116.5	
141	46.4	28.1	42.1	

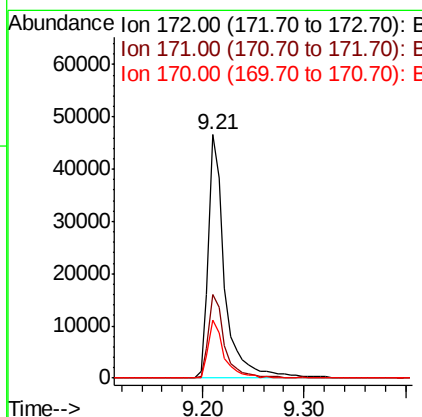
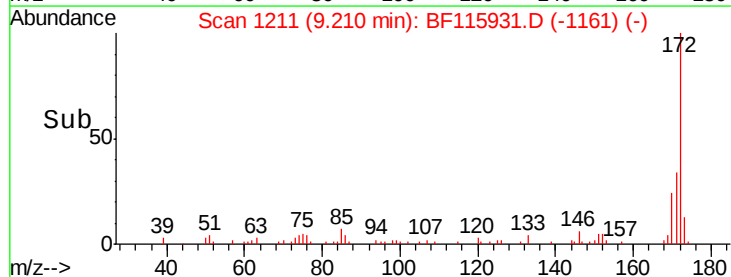
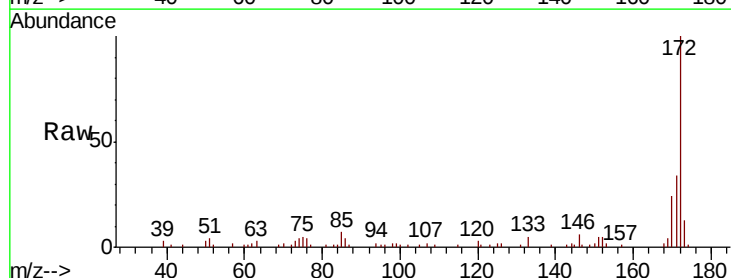
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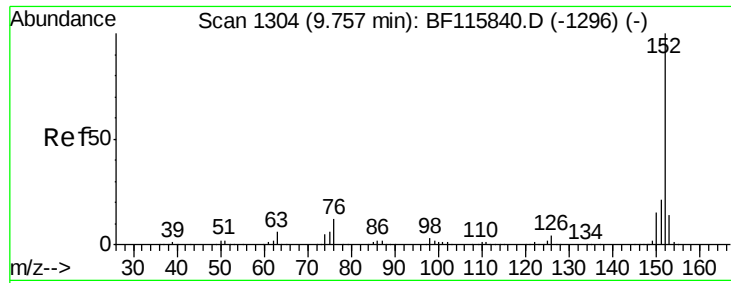
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#45
 2-Fluorobiphenyl
 Concen: 4.345 ng
 RT: 9.21 min Scan# 1211
 Delta R.T. -0.01 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	34.2	29.1	43.7	
170	23.8	20.1	30.1	





#49

Acenaphthylene

Concen: 4.362 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF115931.D

Acq: 2 Aug 2019 2:21

Instrument :

BNA_F

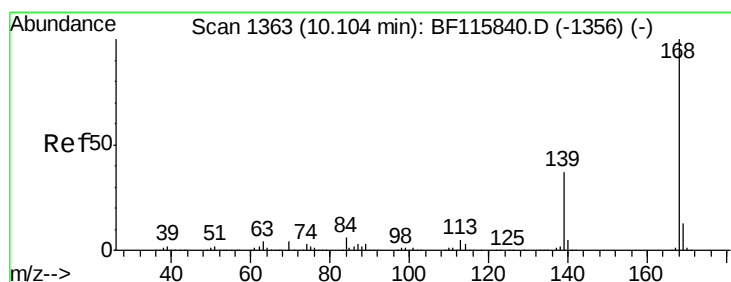
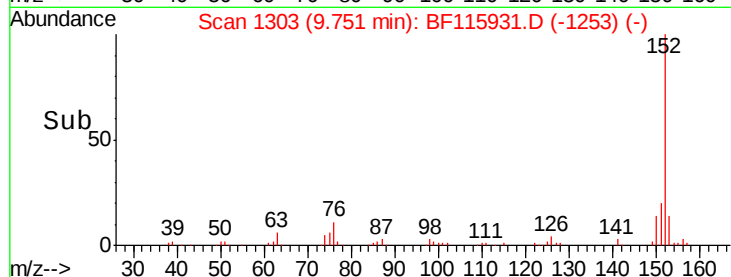
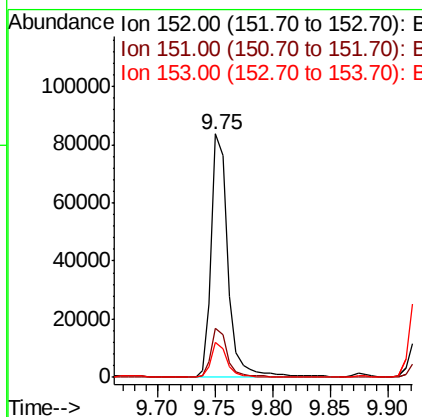
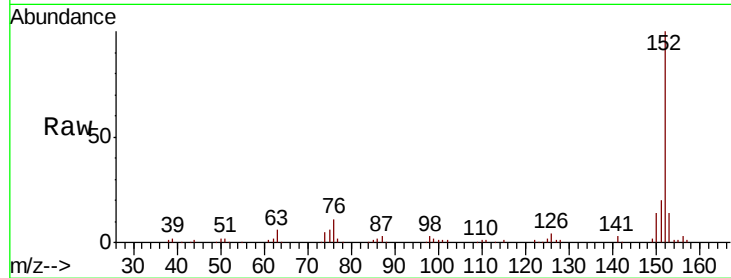
ClientSampled :

SP-4DL

Tot Ion:	152	Resp:	84852
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.8	25.2
153	14.5	11.6	17.4

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#55

Dibenzofuran

Concen: 2.245 ng

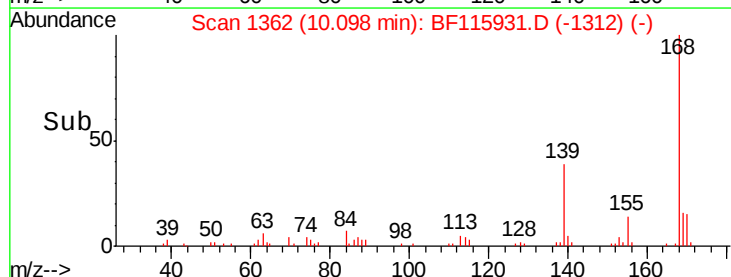
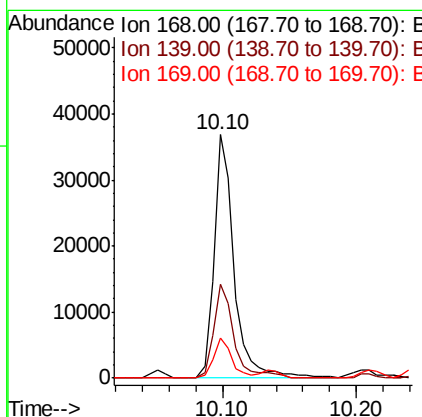
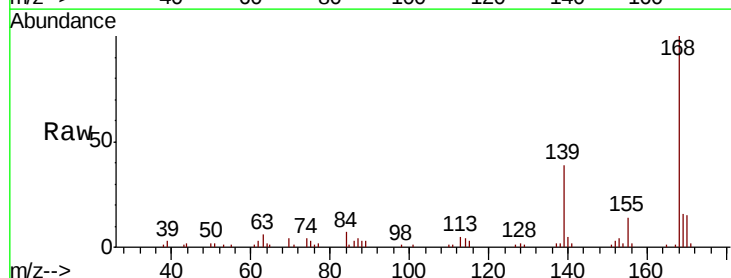
RT: 10.10 min Scan# 1362

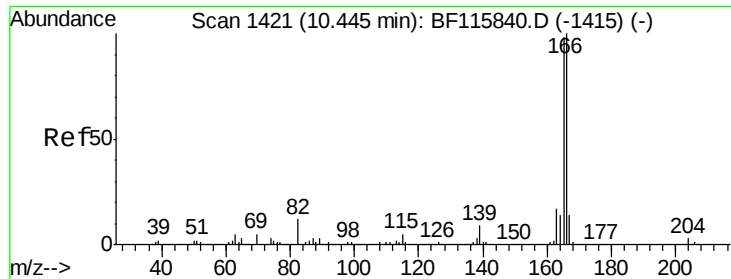
Delta R.T. -0.01 min

Lab File: BF115931.D

Acq: 2 Aug 2019 2:21

Tgt Ion:	168	Resp:	38962
Ion Ratio	Lower	Upper	
168	100		
139	38.5	30.2	45.2
169	16.4	10.8	16.2#





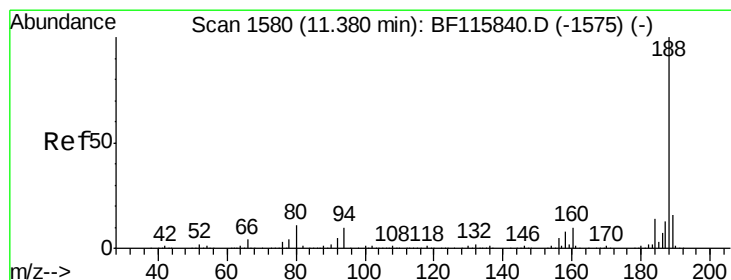
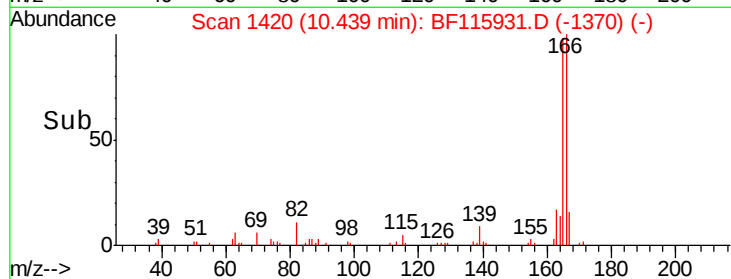
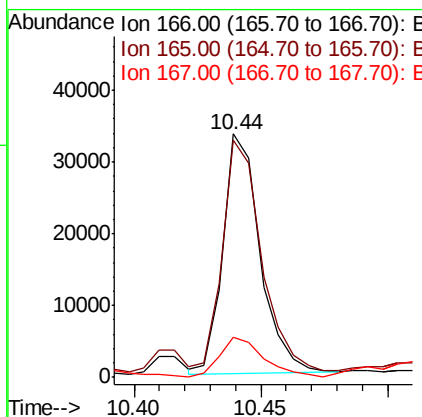
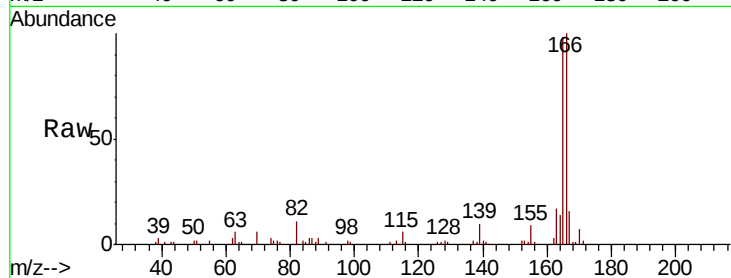
#58
 Fluorene
 Concen: 2.556 ng
 RT: 10.44 min Scan# 1420
 Delta R.T. -0.01 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Instrument :
 BNA_F
 ClientSampleId :
 SP-4DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	118.0
167	16.4	10.9	16.3#

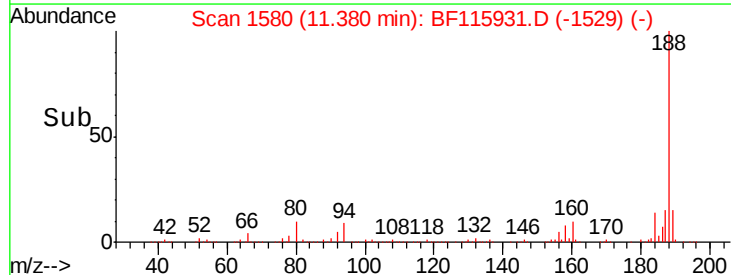
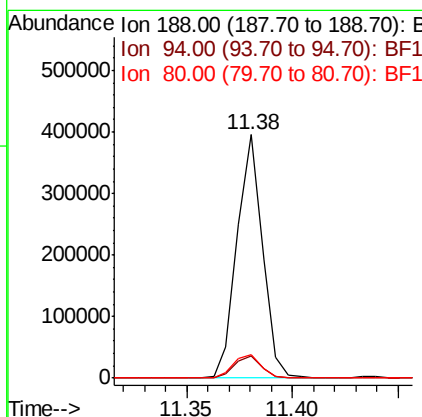
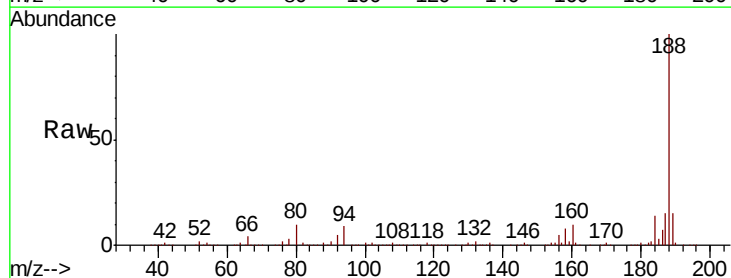
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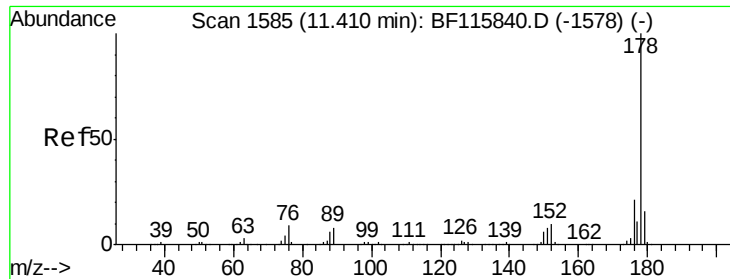
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.38 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.0	12.0
80	9.9	8.6	12.8





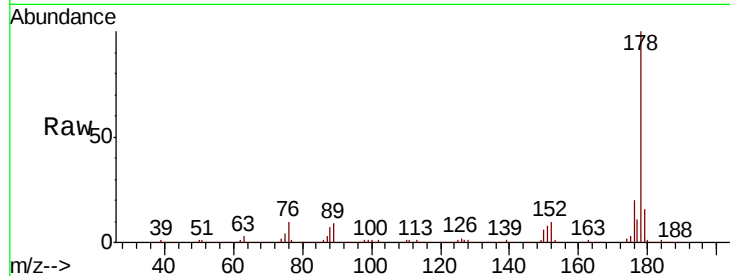
#71
 Phenanthrene
 Concen: 44.754 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Instrument :
 BNA_F
 ClientSampleID :
 SP-4DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
178	100		758705		
176	20.0	16.5		24.7	
179	16.0	12.6		18.8	

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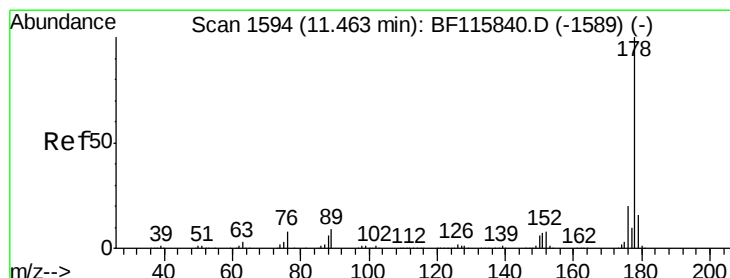
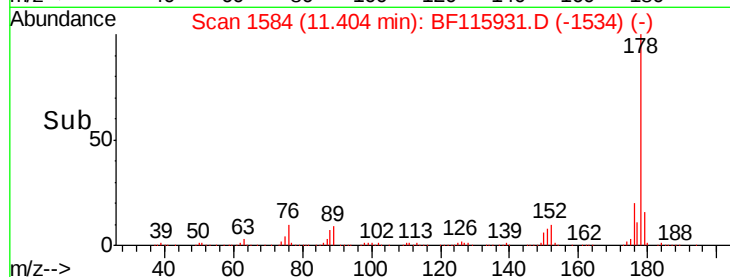
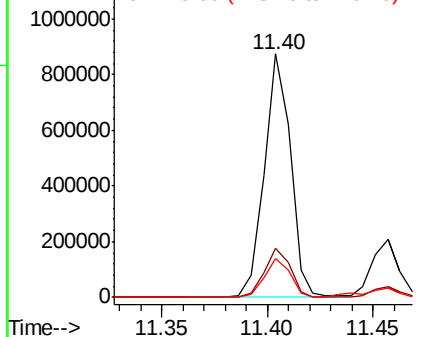


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
 Anthracene
 Concen: 10.291 ng
 RT: 11.46 min Scan# 1593
 Delta R.T. -0.01 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

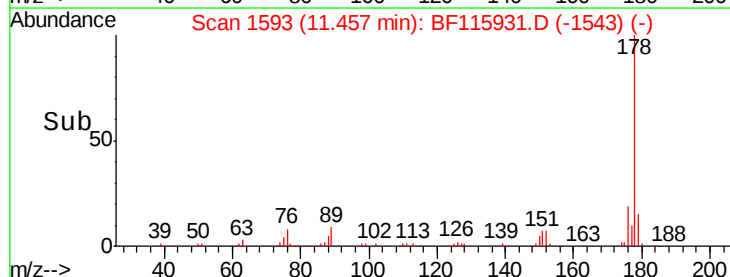
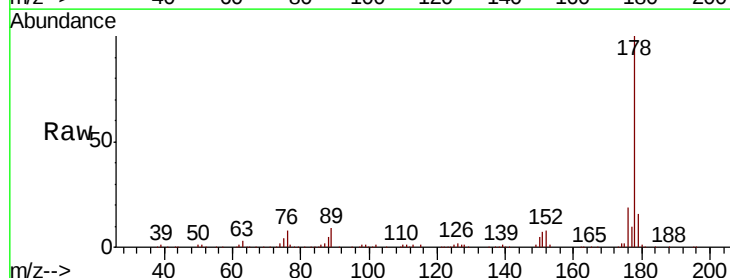
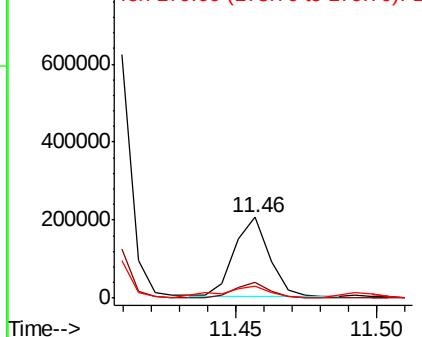
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
178	100		176573		
176	18.9	15.7		23.5	
179	15.5	12.4		18.6	

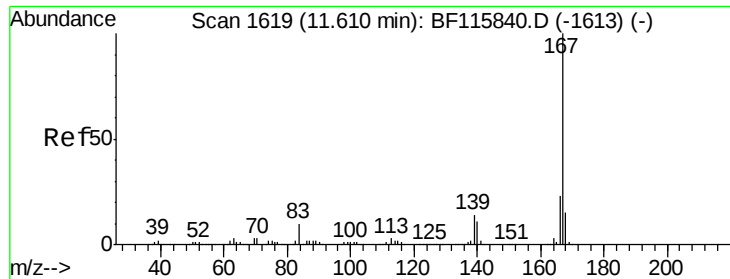
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





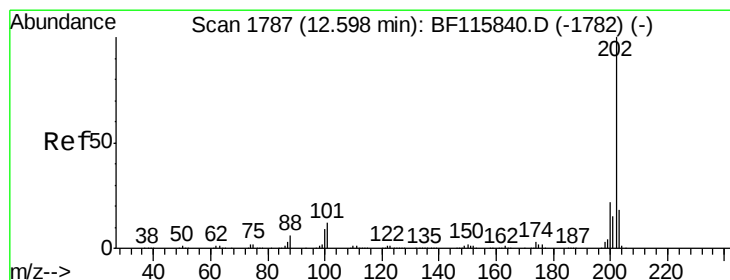
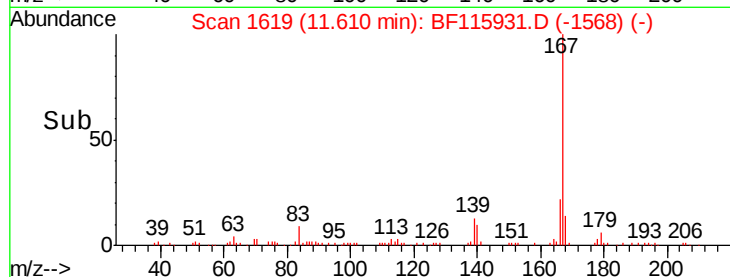
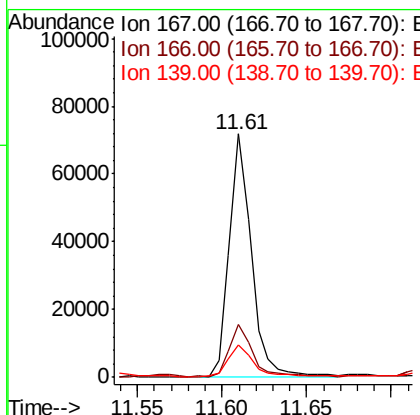
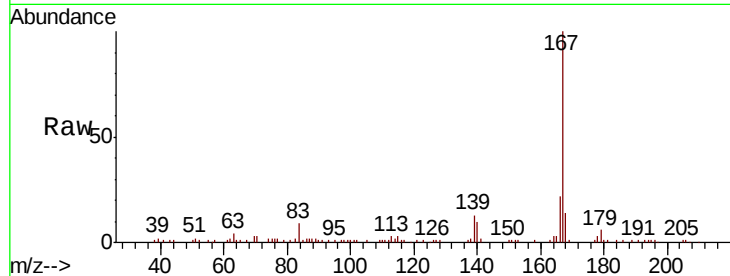
#73
 Carbazole
 Concen: 4.250 ng
 RT: 11.61 min Scan# 1619
 Delta R.T. 0.00 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Instrument :
 BNA_F
 ClientSampleId :
 SP-4DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.0	27.0
139	13.1	11.4	17.2

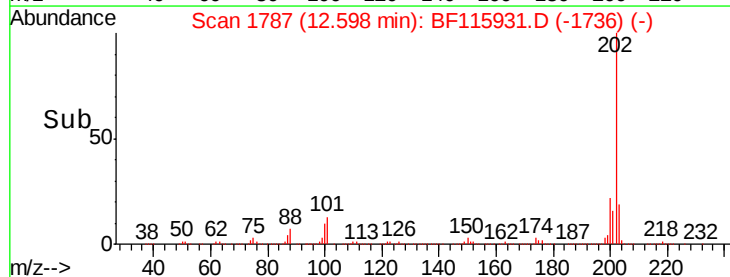
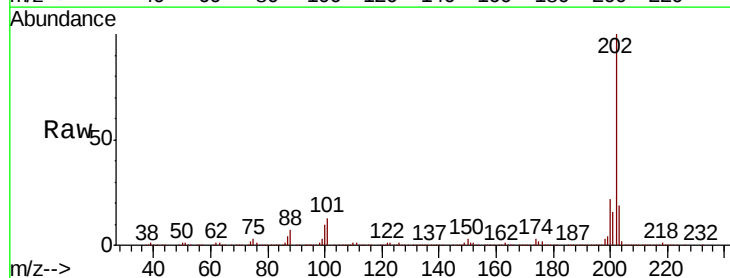
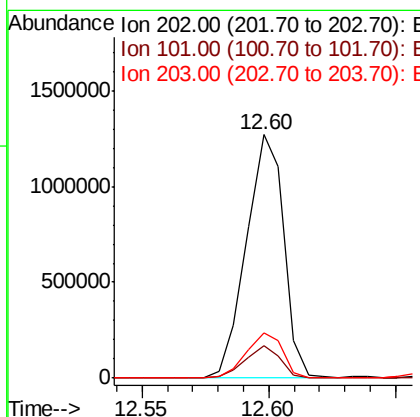
Manual Integrations
 APPROVED

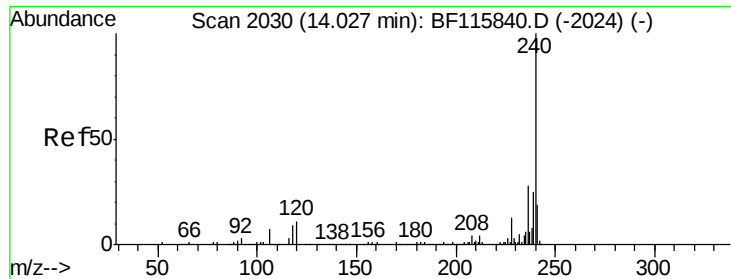
mohammad
 8/5/2019 1:48:28 PM



#75
 Fluoranthene
 Concen: 73.352 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. 0.00 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.5	0.0	31.5
203	18.6	0.0	37.9





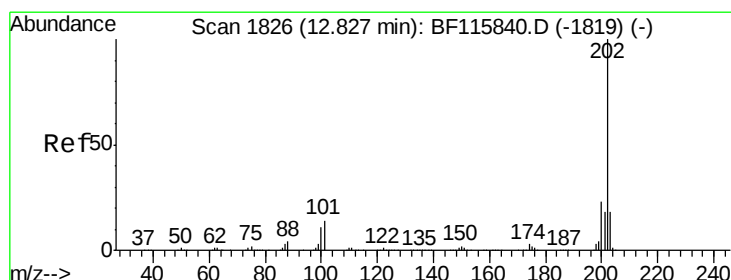
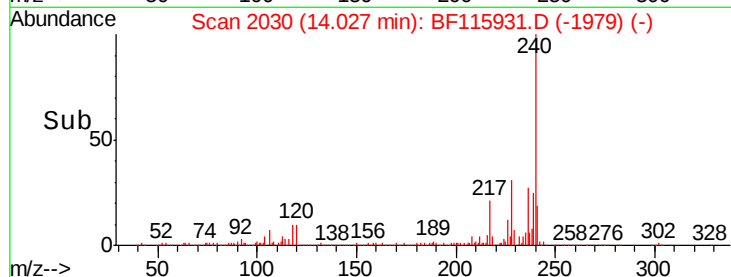
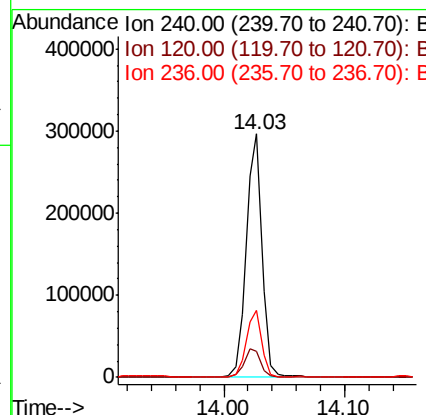
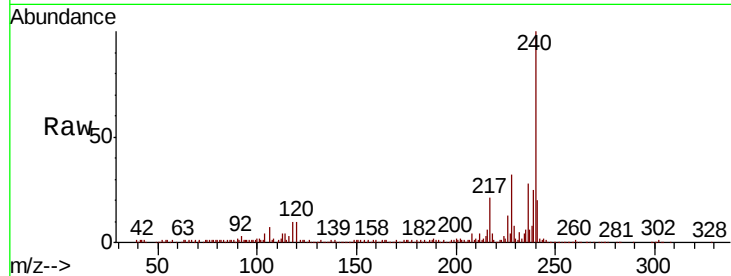
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampleId :
SP-4DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.5	12.7
236	27.6	22.2	33.2

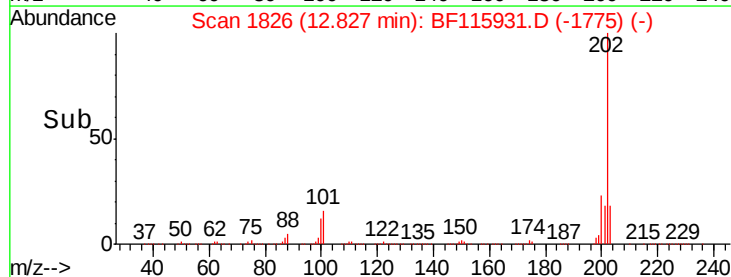
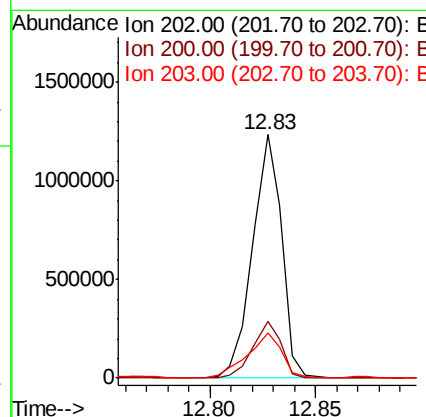
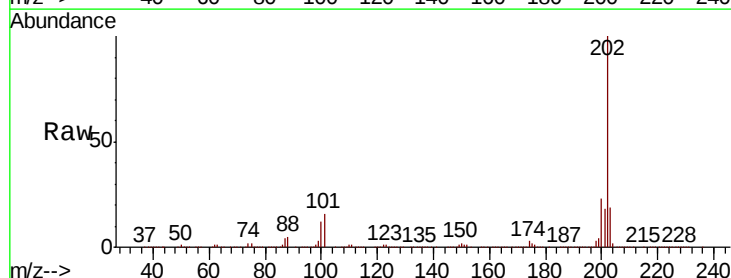
Manual Integrations
APPROVED

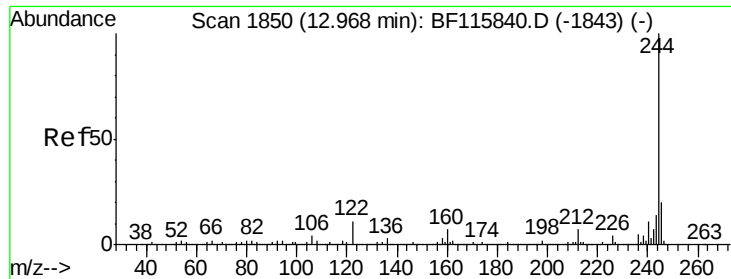
mohammad
8/5/2019 1:48:28 PM



#78
Pyrene
Concen: 58.736 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.2	18.2	27.2
203	18.6	14.3	21.5





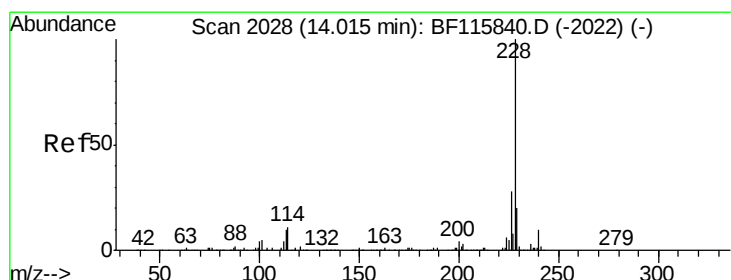
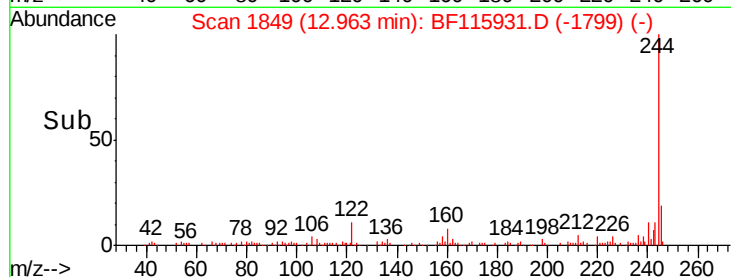
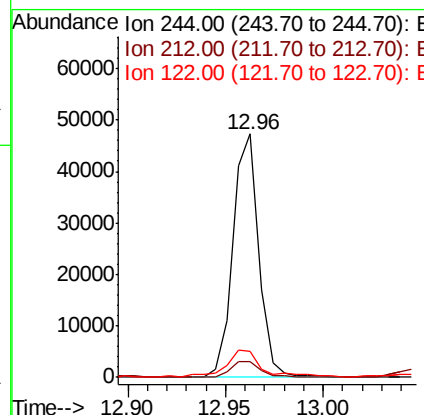
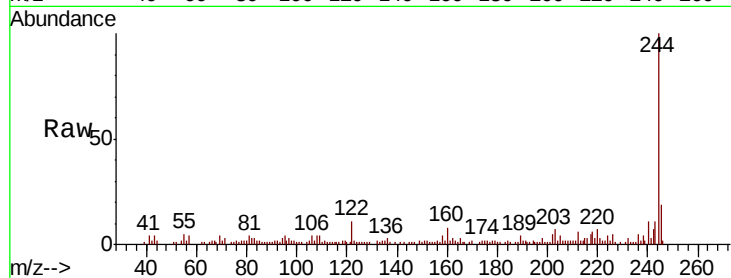
#79
 Terphenyl-d14
 Concen: 3.406 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. -0.01 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Instrument :
 BNA_F
 ClientSampleId :
 SP-4DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.6	8.6	13.0

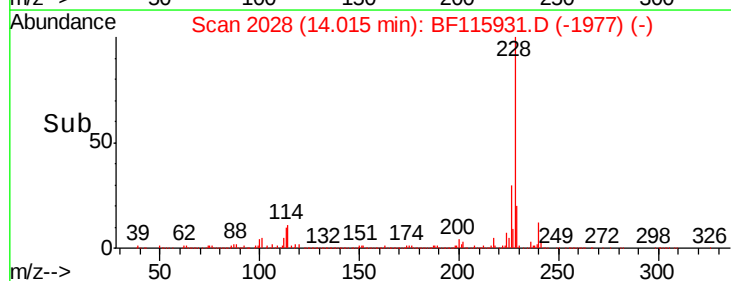
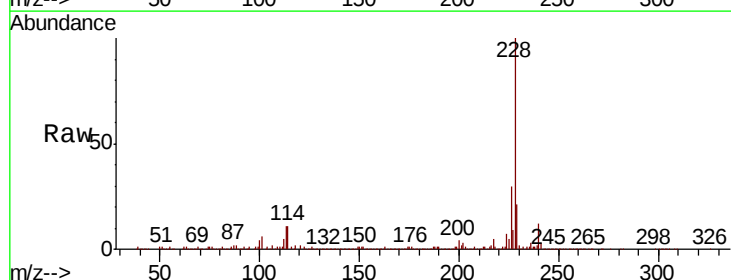
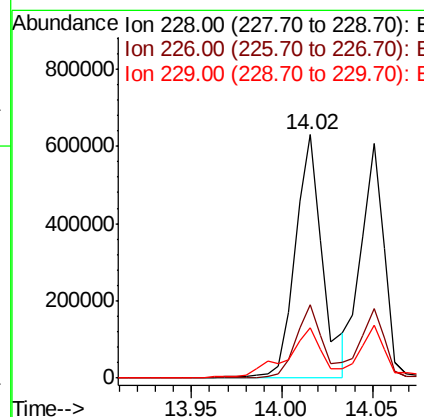
Manual Integrations
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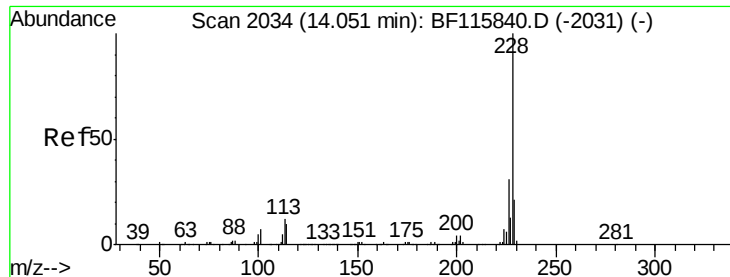
mohammad
 8/5/2019 1:48:28 PM



#81
 Benzo(a)anthracene
 Concen: 38.768 ng
 RT: 14.02 min Scan# 2028
 Delta R.T. 0.00 min
 Lab File: BF115931.D
 Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	20.5	16.1	24.1





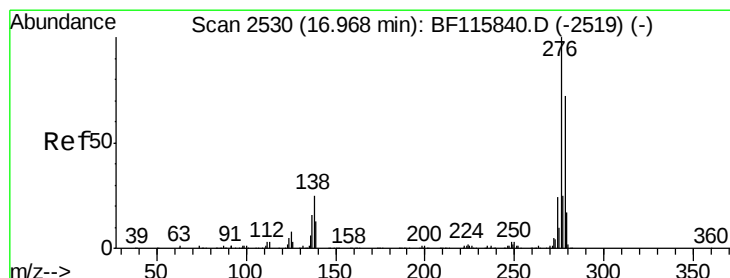
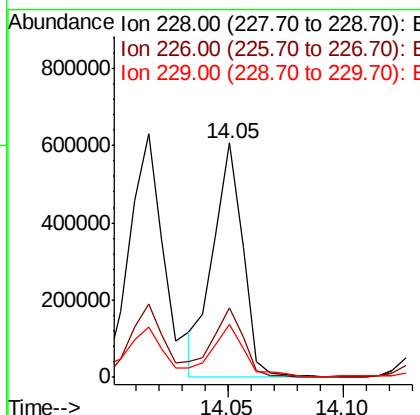
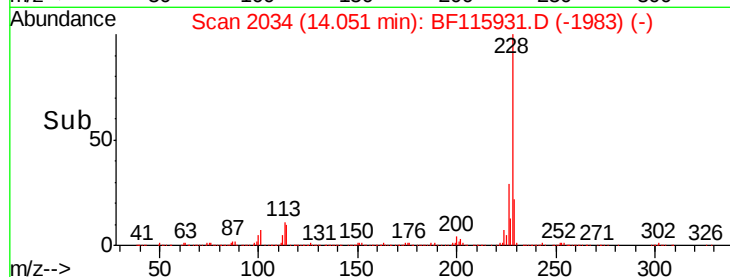
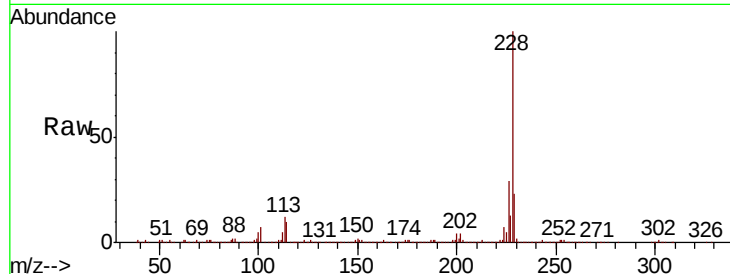
#83
Chrysene
Concen: 32.430 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampled :
SP-4DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.8	37.2
229	22.7	16.4	24.6

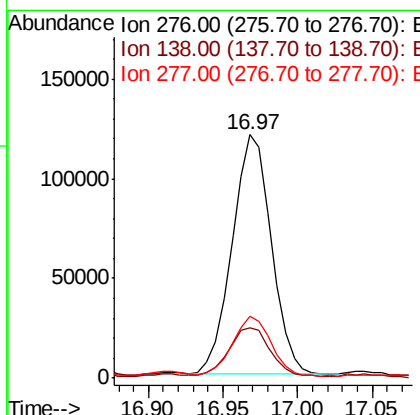
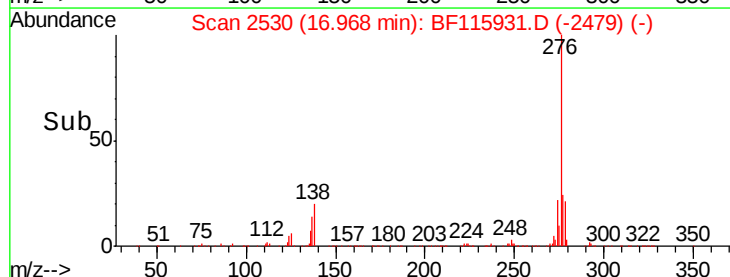
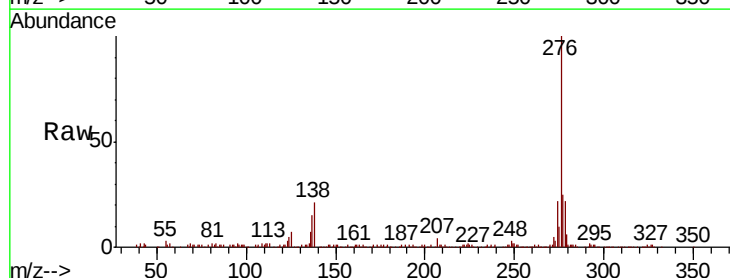
Manual Integrations
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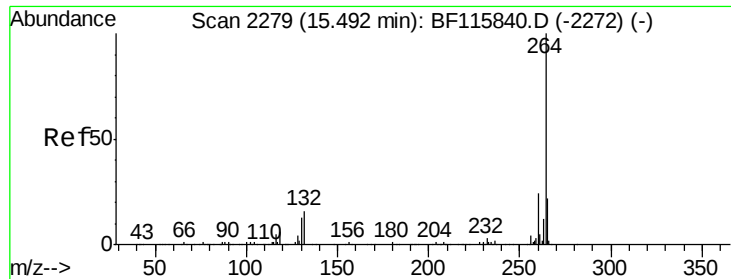
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 15.728 ng
RT: 16.97 min Scan# 2530
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	19.6	29.4
277	24.6	20.1	30.1





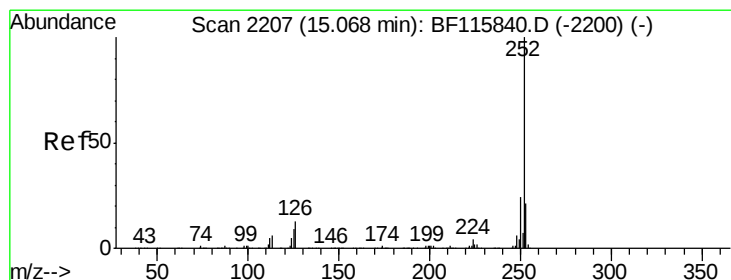
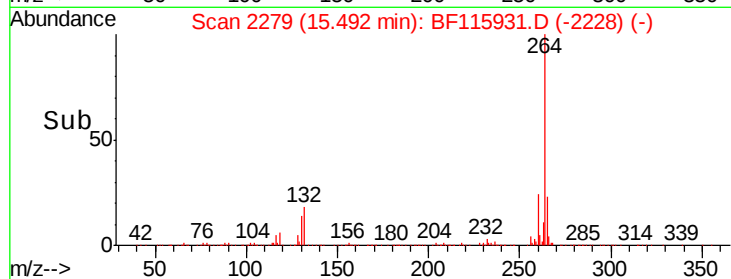
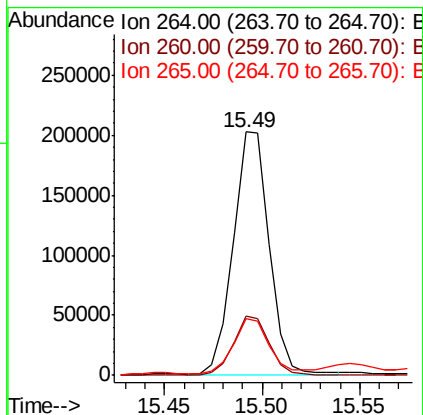
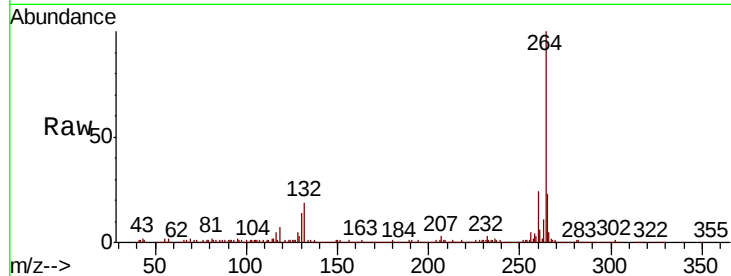
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampleID :
SP-4DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	23.1	17.5	26.3

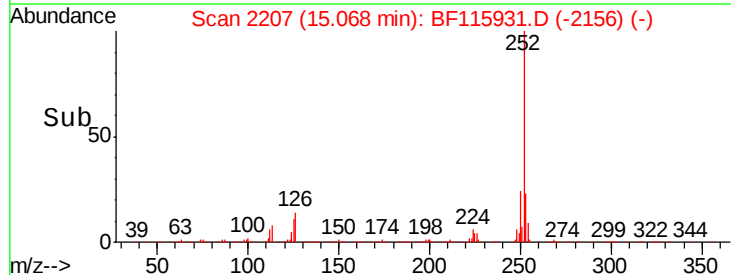
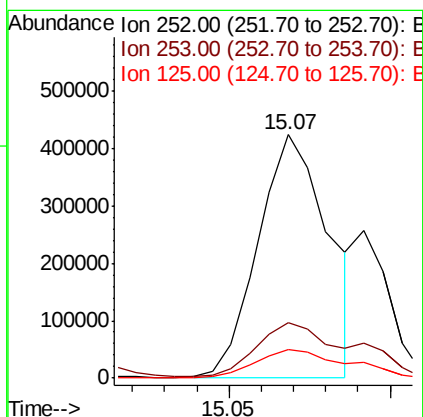
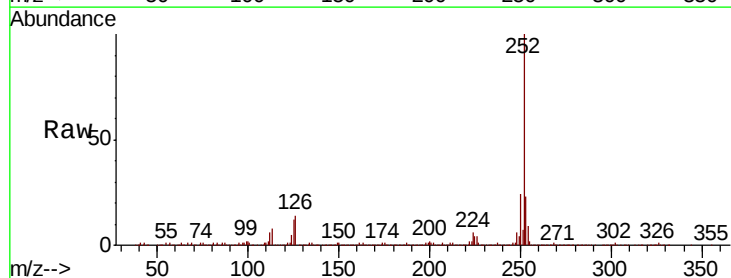
Manual Integrations
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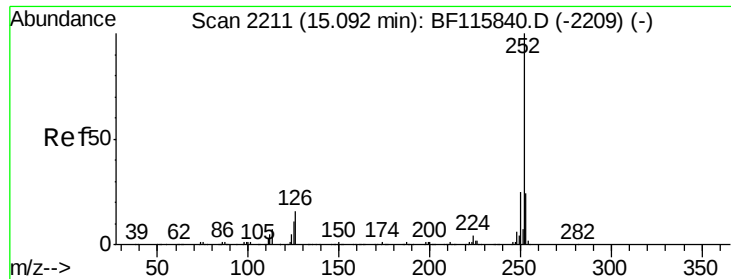
mohammad
8/5/2019 1:48:28 PM



#88
Benzo(b)fluoranthene
Concen: 43.477 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.2	25.8
125	11.6	7.4	11.0





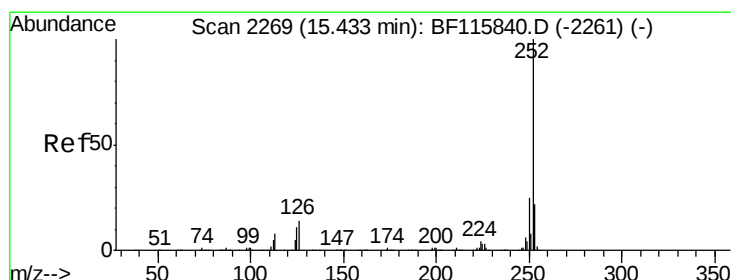
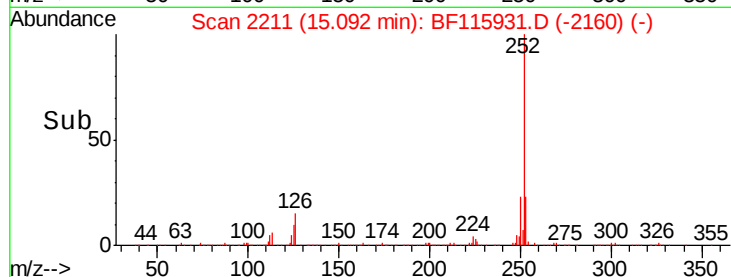
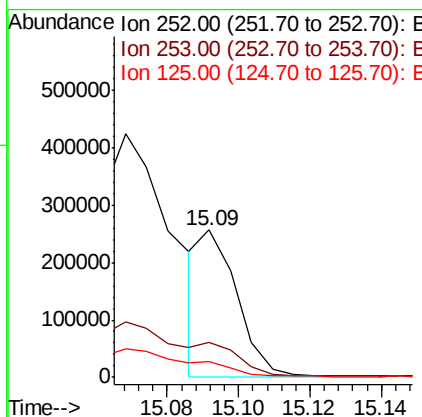
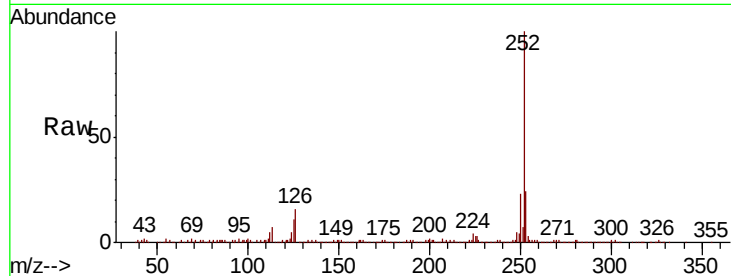
#89
Benzo(k)fluoranthene
Concen: 12.865 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampleID :
SP-4DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.4
125	10.6	8.9	13.3

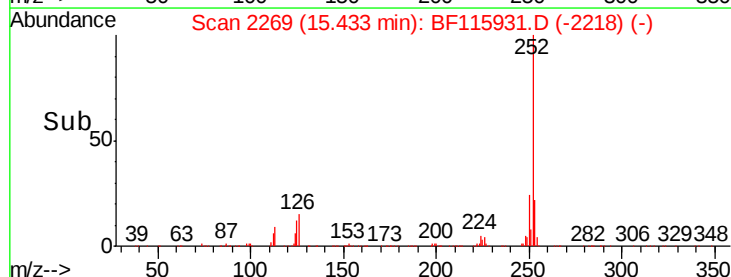
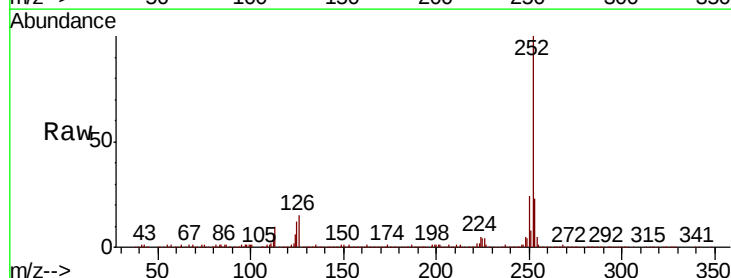
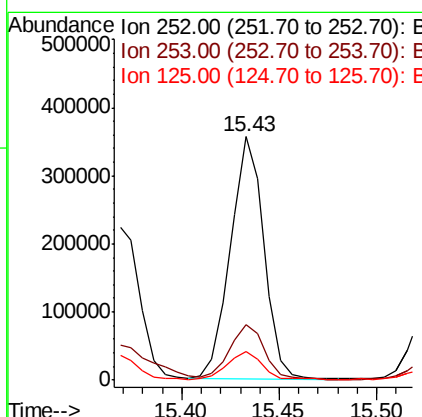
Manual Integrations
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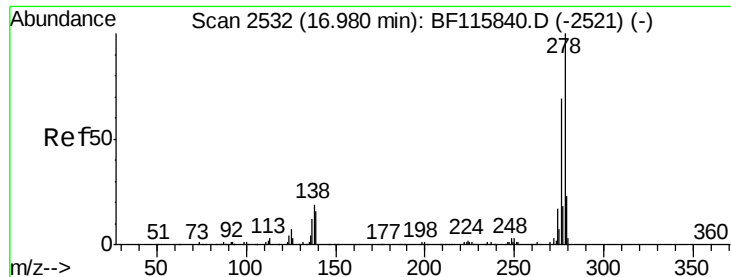
mohammad
8/5/2019 1:48:28 PM



#90
Benzo(a)pyrene
Concen: 31.643 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	11.9	8.8	13.2





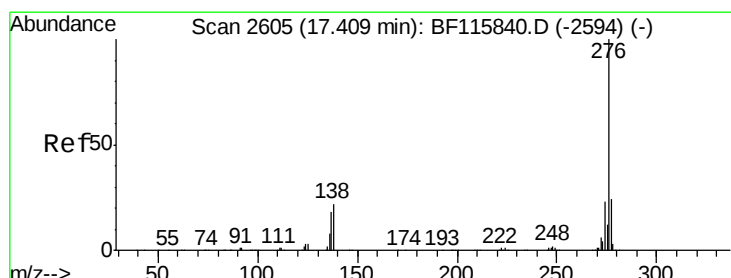
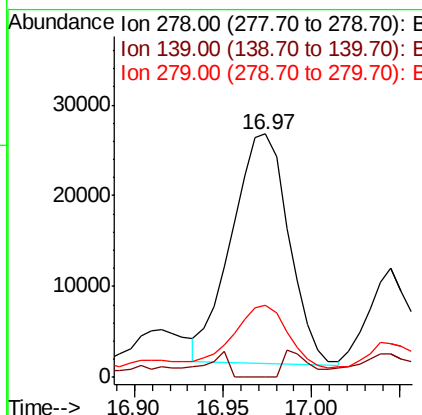
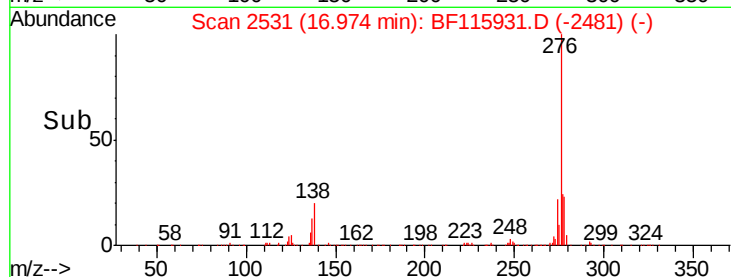
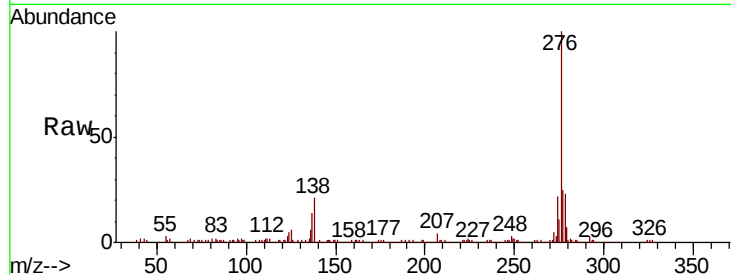
#91
Dibenzo(a,h)anthracene
Concen: 4.924 ng/mL
RT: 16.97 min Scan# 2531
Delta R.T. -0.01 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Instrument :
BNA_F
ClientSampleId :
SP-4DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	19.0#
279	29.7	18.8	28.2#

Manual Integrations
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mohammad
8/5/2019 1:48:28 PM



#92
Benzo(g,h,i)perylene
Concen: 17.733 ng/mL
RT: 17.42 min Scan# 2606
Delta R.T. 0.01 min
Lab File: BF115931.D
Acq: 2 Aug 2019 2:21

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.5	29.3
138	22.6	17.8	26.8

