

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\
 Data File : BF120495.D
 Acq On : 2 Jun 2020 15:23
 Operator : JU/CG
 Sample : L2814-01DL 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleID :
 PL-02-052920DL

Manual Integrations
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Quant Time: Jun 02 15:57:16 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 02 11:37:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	168069	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	601044	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	288394	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	518010	20.00	ng	0.00
76) Chrysene-d12	14.02	240	369521	20.00	ng	0.00
86) Perylene-d12	15.47	264	363290	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	105877	12.01	ng	0.00
7) Phenol-d6	6.47	99	135933	12.51	ng	-0.01
23) Nitrobenzene-d5	7.40	82	75665	8.23	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	32181	12.04	ng	-0.01
45) 2-Fluorobiphenyl	9.20	172	169758	9.99	ng	0.00
79) Terphenyl-d14	12.95	244	178556	10.75	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.15	128	91682	3.473	ng	98
37) 2-Methylnaphthalene	8.84	142	41113	2.351	ng	97
52) Acenaphthene	9.92	154	106617	7.086	ng	98
55) Dibenzofuran	10.09	168	127203	5.818	ng	97
58) Fluorene	10.43	166	205868	12.547	ng	99
71) Phenanthrene	11.40	178	1262887	55.329	ng	100
72) Anthracene	11.45	178	515122	22.493	ng	99
73) Carbazole	11.60	167	84040	3.794	ng	97
75) Fluoranthene	12.59	202	1842947	75.038	ng	99
78) Pyrene	12.82	202	1545756	60.151	ng	99
81) Benzo(a)anthracene	14.00	228	909475	45.923	ng	98
83) Chrysene	14.04	228	694378	33.444	ng	97
87) Indeno(1,2,3-cd)pyrene	16.93	276	304967	15.348	ng	96
88) Benzo(b)fluoranthene	15.06	252	762232m	37.775	ng	
89) Benzo(k)fluoranthene	15.08	252	300769m	15.967	ng	
90) Benzo(a)pyrene	15.42	252	557757	31.601	ng	99
91) Dibenzo(a,h)anthracene	16.94	278	92548	5.713	ng	# 88
92) Benzo(g,h,i)perylene	17.37	276	256637	16.062	ng	99

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

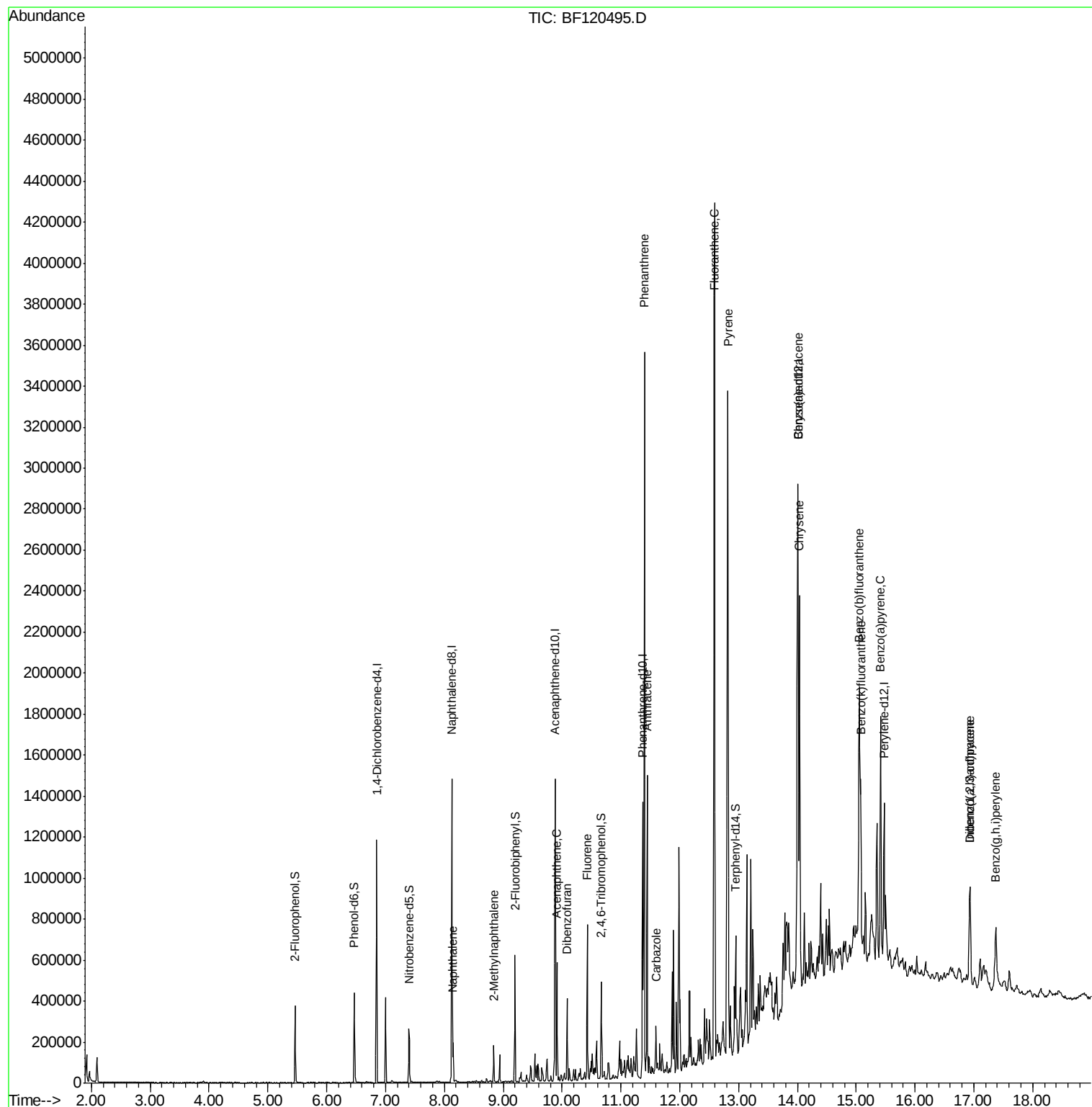
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF060220\
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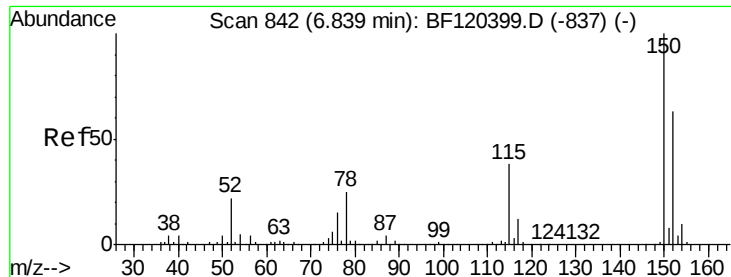
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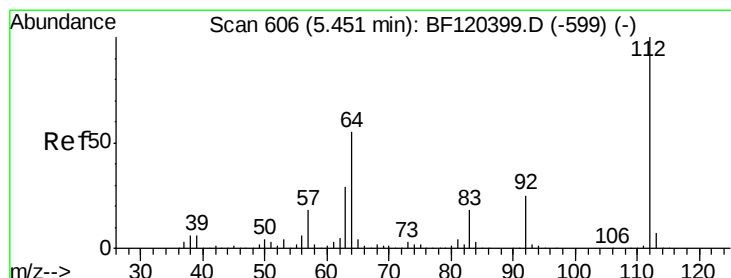
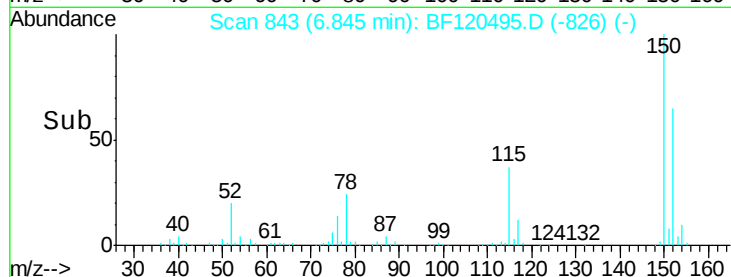
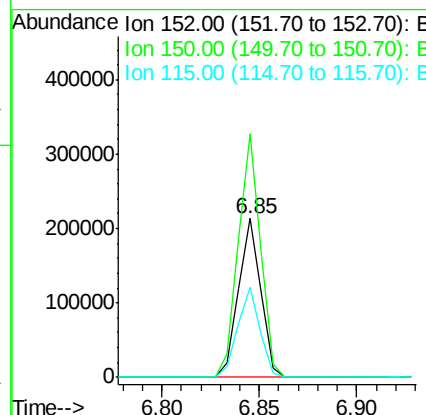
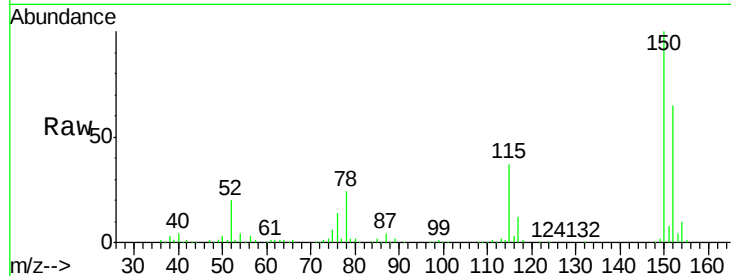
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.85 min Scan# 843
 Delta R.T. -0.00 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.3	126.7	190.1
115	56.4	46.2	69.2

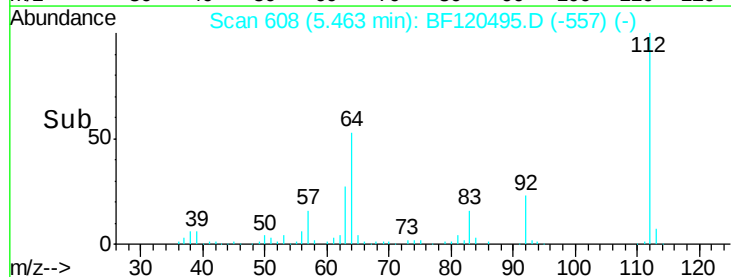
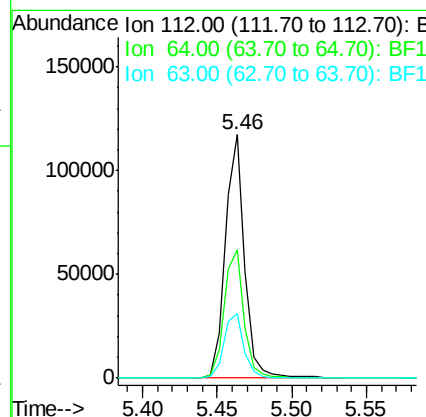
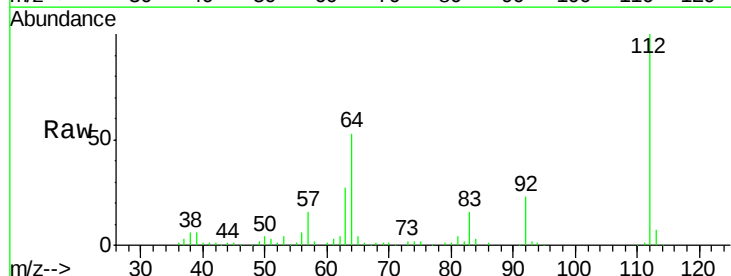
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#5
 2-Fluorophenol
 Concen: 12.005 ng
 RT: 5.46 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.6	46.3	69.5
63	26.6	24.2	36.2





#7

Phenol-d6

Concen: 12.505 ng

RT: 6.47 min Scan# 779

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

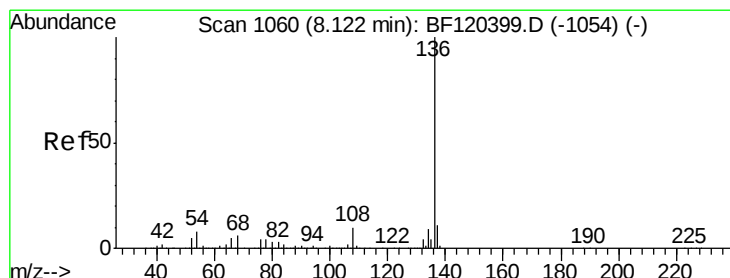
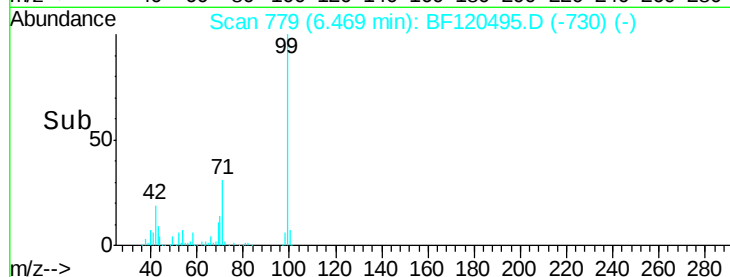
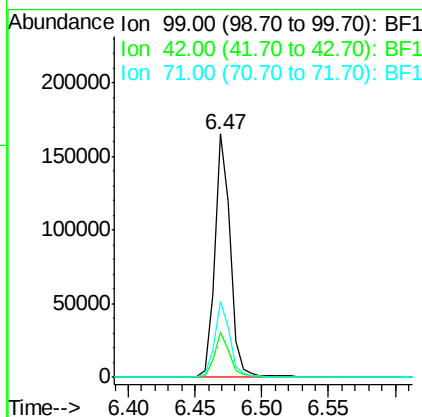
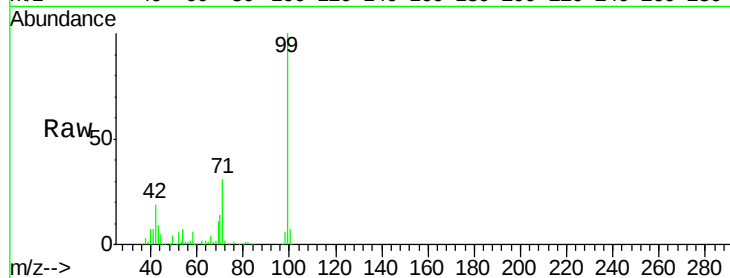
ClientSampleId :

PL-02-052920DL

Tot Ion:	99	Resp:	135933
Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.1	22.7
71	31.0	26.2	39.4

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#21

Naphthalene-d8

Concen: 20.000 ng

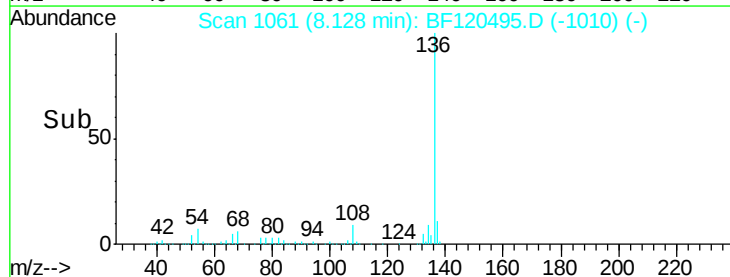
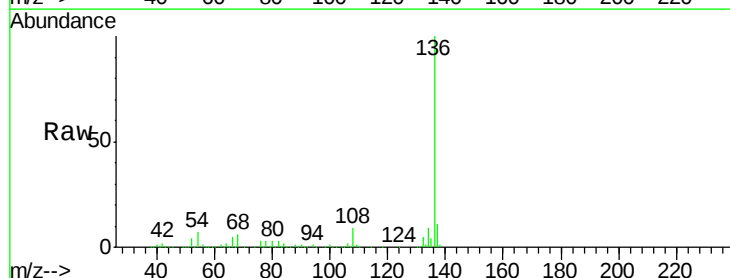
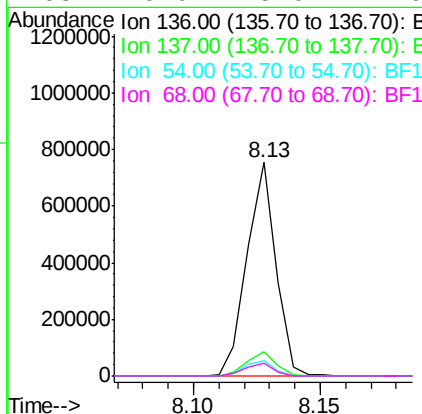
RT: 8.13 min Scan# 1061

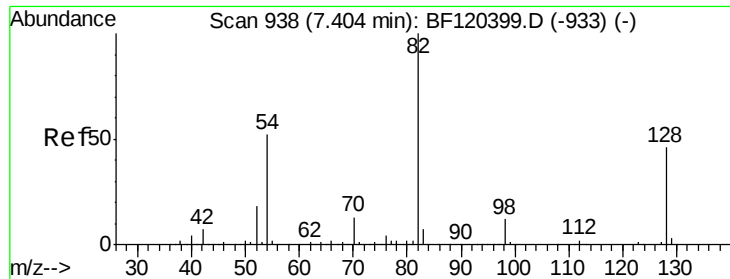
Delta R.T. -0.00 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Tgt Ion:	136	Resp:	601044
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.6
54	7.2	6.2	9.4
68	6.0	5.0	7.6





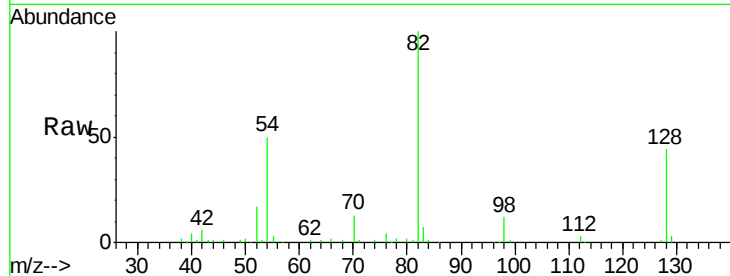
#23
Nitrobenzene-d5
Concen: 8.235 ng
RT: 7.40 min Scan# 937
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampleId :
PL-02-052920DL

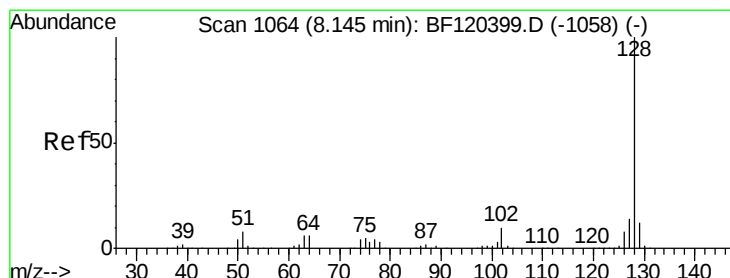
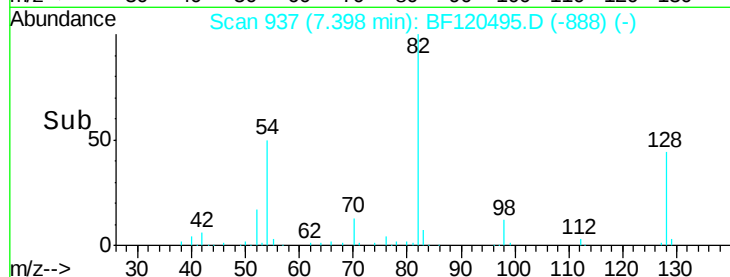
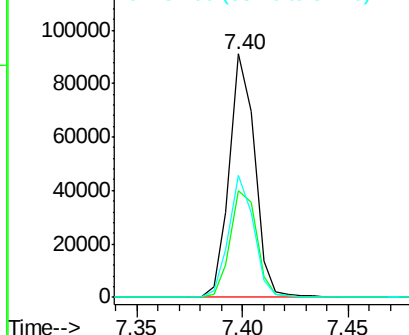
Tot Ion	82	Resp	75665
Ion Ratio	100	Lower	Upper
128	43.6	37.0	55.6
54	50.1	41.0	61.4

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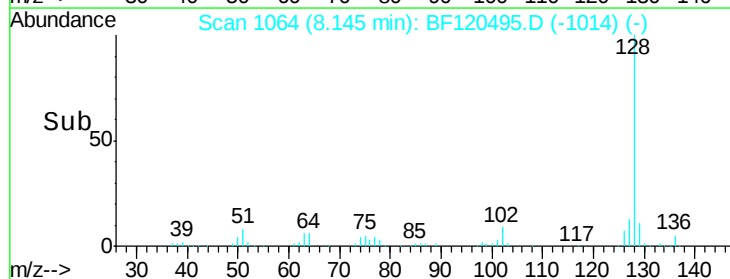
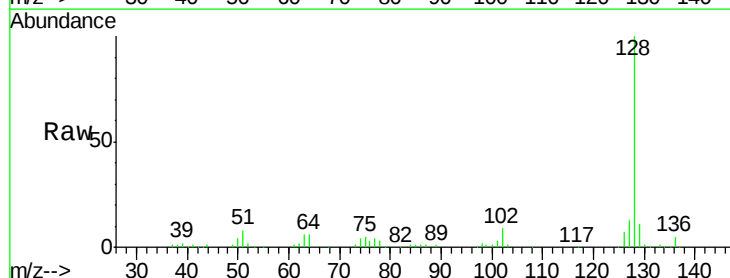
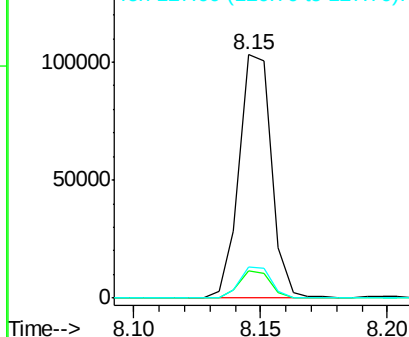
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

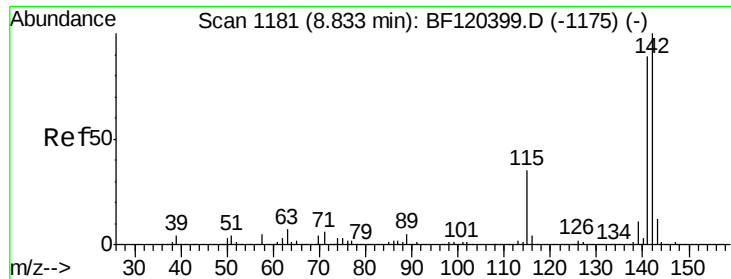


#31
Naphthalene
Concen: 3.473 ng
RT: 8.15 min Scan# 1064
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	128	Resp	91682
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
129	11.4	9.4	14.0
127	12.6	10.9	16.3

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





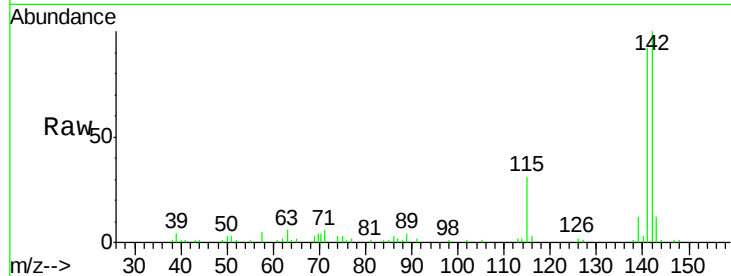
#37
2-Methylnaphthalene
Concen: 2.351 ng
RT: 8.84 min Scan# 1182
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampleId :
PL-02-052920DL

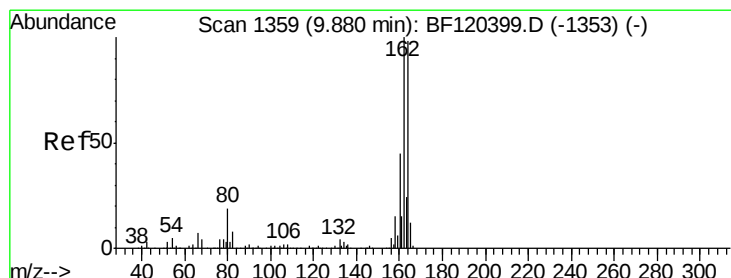
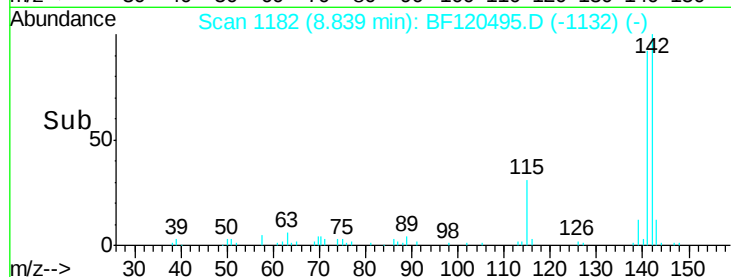
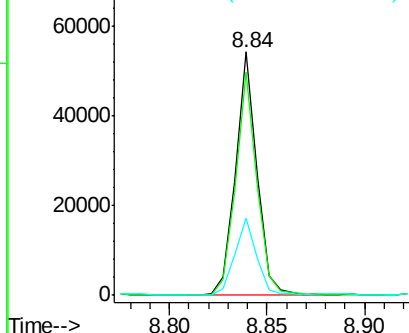
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.6	70.8	106.2
115	31.5	26.1	39.1

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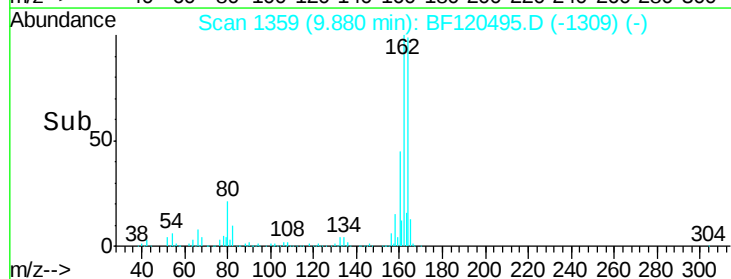
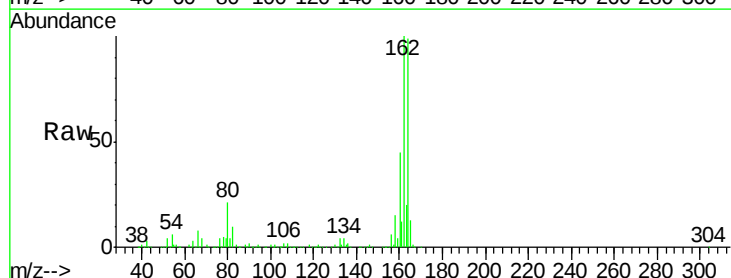
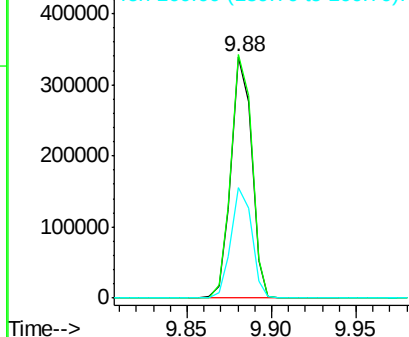
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1359
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.9	122.9
160	45.8	37.4	56.0

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





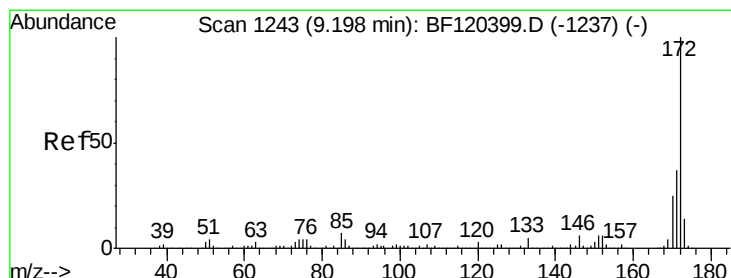
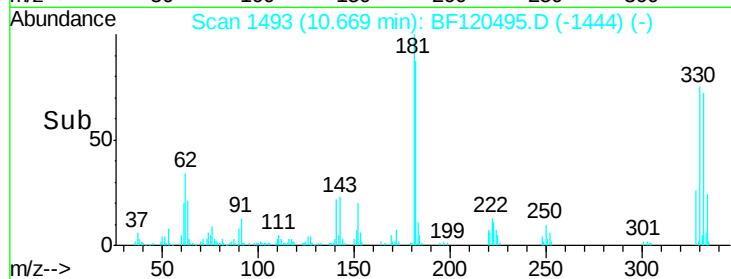
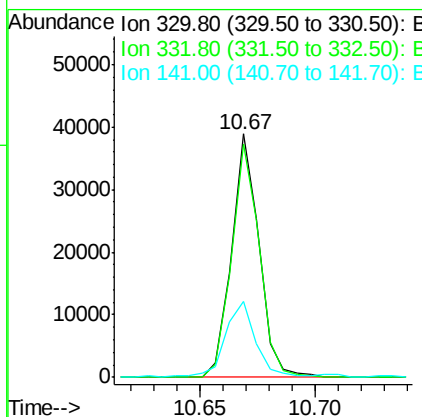
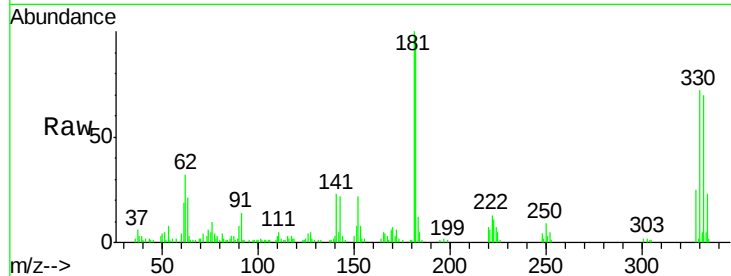
#42
 2,4,6-Tribromophenol
 Concen: 12.043 ng
 RT: 10.67 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion	Ratio	Resp	Lower	Upper
330	100	32181		
332	97.2	76.8	115.2	
141	35.3	23.9	35.9	

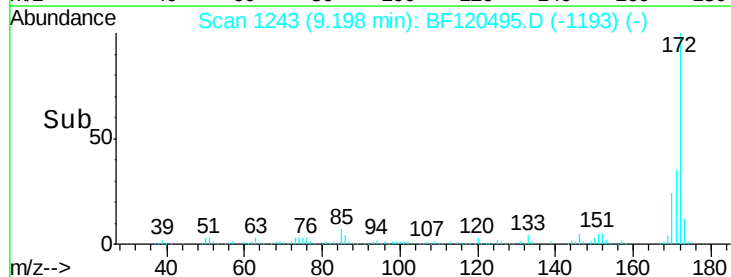
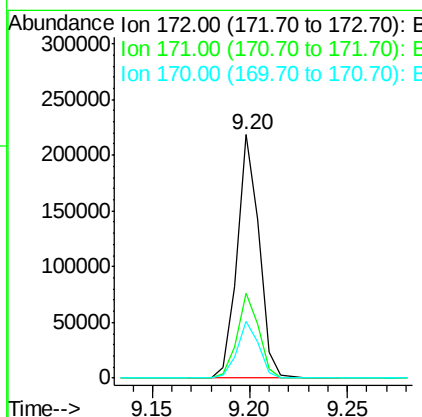
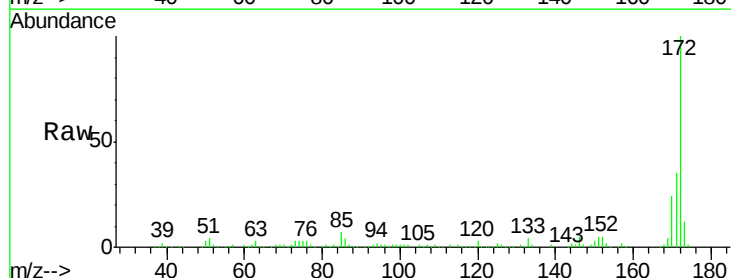
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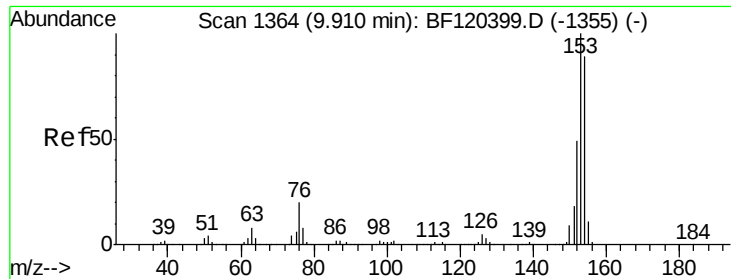
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#45
 2-Fluorobiphenyl
 Concen: 9.987 ng
 RT: 9.20 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	169758		
171	34.7	29.4	44.2	
170	23.6	19.9	29.9	





#52

Acenaphthene

Concen: 7.086 ng

RT: 9.92 min Scan# 1365

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

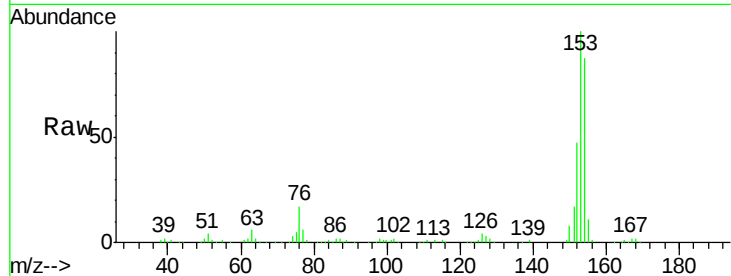
ClientSampleId :

PL-02-052920DL

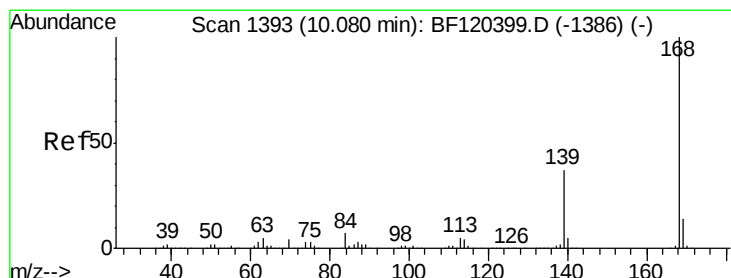
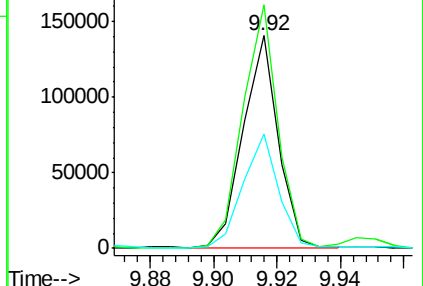
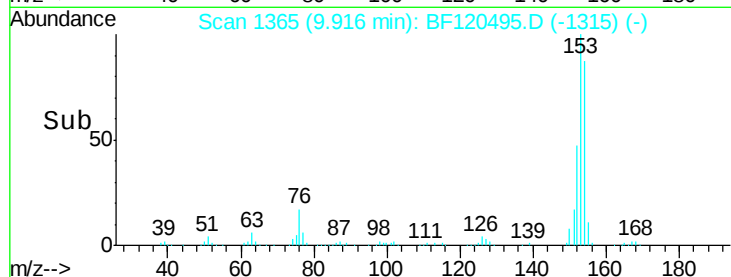
Tot Ion:	154	Resp:	106617
Ion Ratio	Lower	Upper	
154	100		
153	114.4	90.2	135.4
152	53.9	44.1	66.1

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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: 5.818 ng

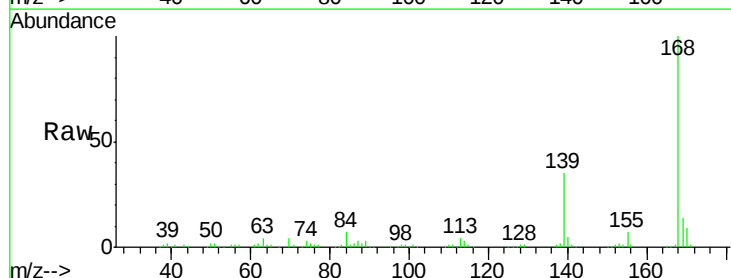
RT: 10.09 min Scan# 1394

Delta R.T. -0.01 min

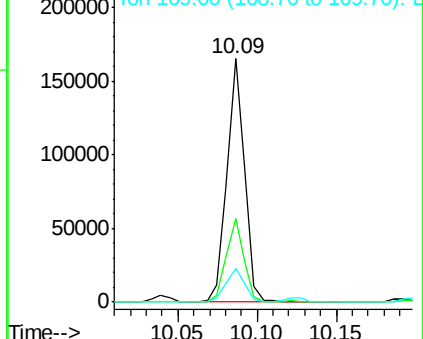
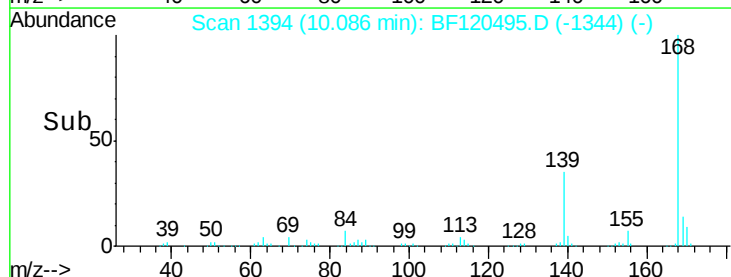
Lab File: BF120495.D

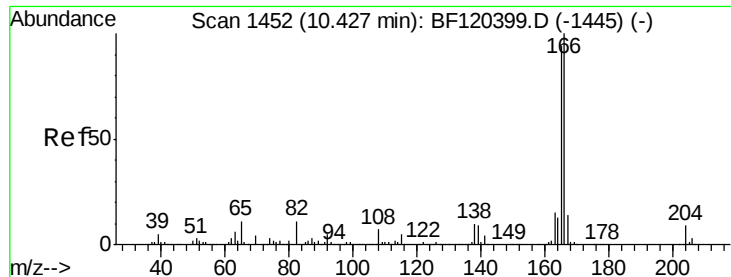
Acq: 2 Jun 2020 15:23

Tgt Ion:	168	Resp:	127203
Ion Ratio	Lower	Upper	
168	100		
139	34.6	29.9	44.9
169	14.0	11.3	16.9



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





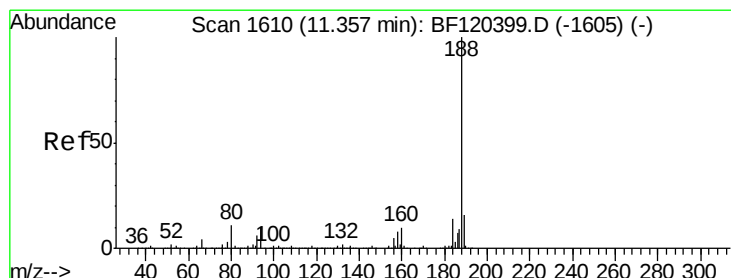
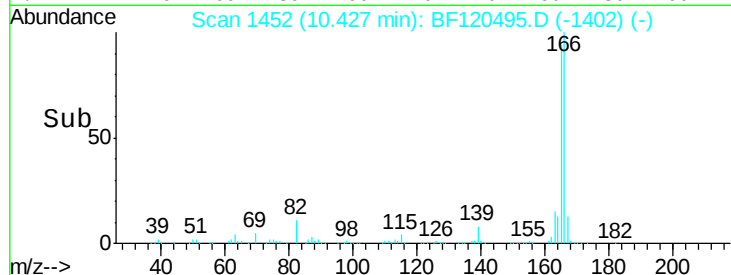
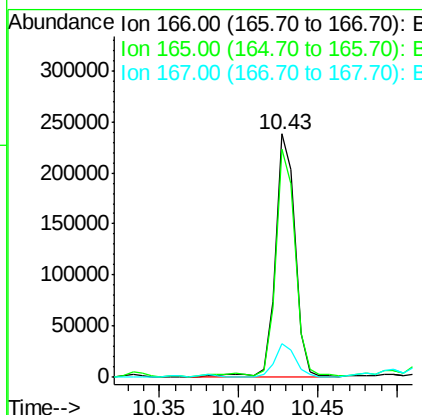
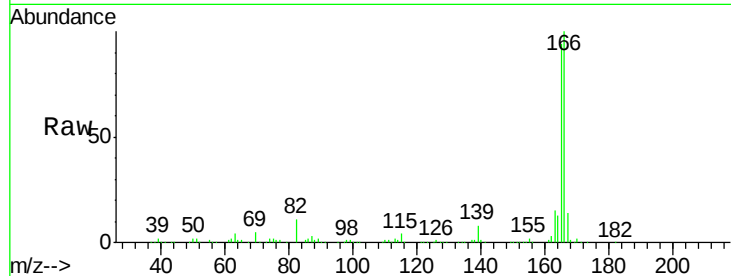
#58
 Fluorene
 Concen: 12.547 ng
 RT: 10.43 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		205868		
165	93.7	76.2	114.2		
167	13.8	11.2	16.8		

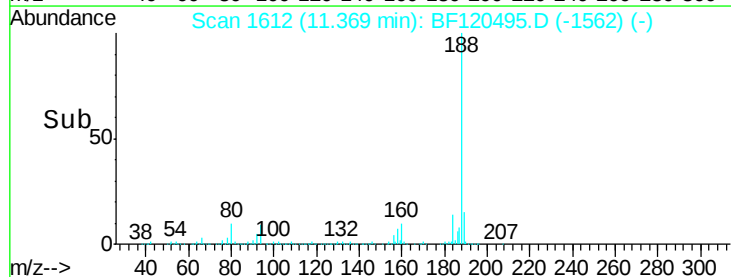
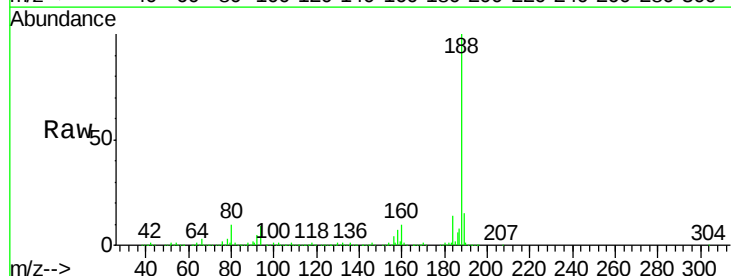
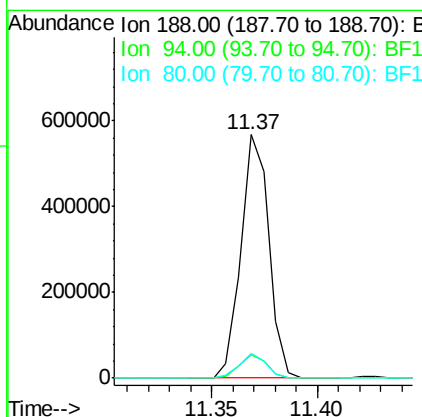
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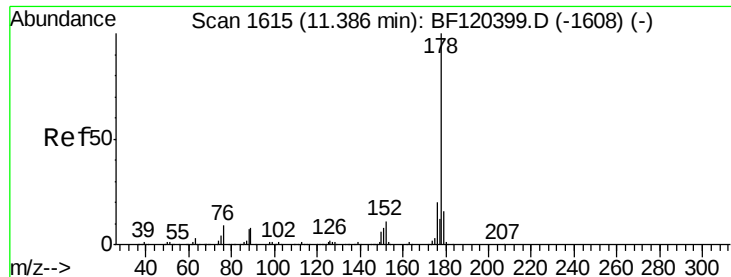
mohammad
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#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		518010		
94	9.5	6.6	10.0		
80	10.3	7.1	10.7		





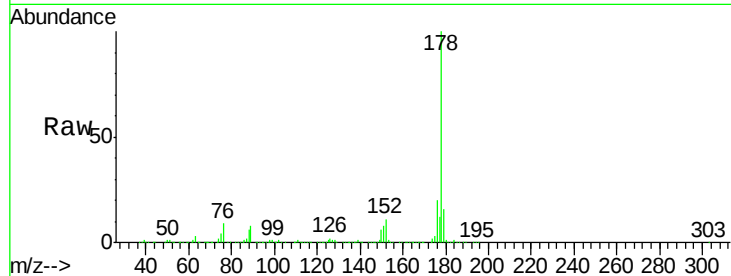
#71
Phenanthrene
Concen: 55.329 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampleId :
PL-02-052920DL

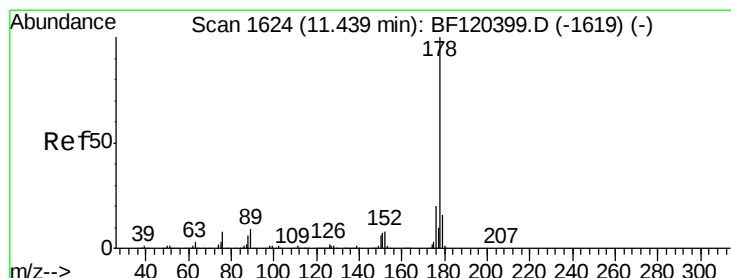
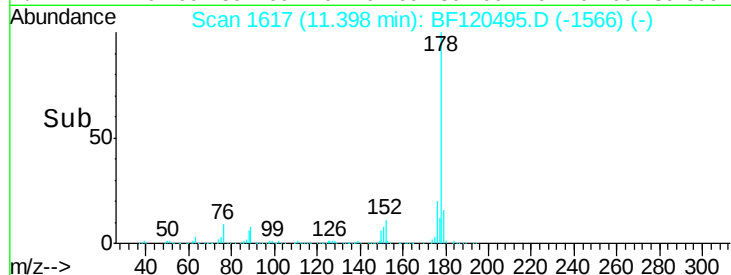
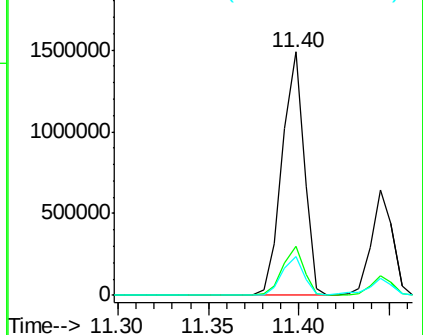
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.2	24.2
179	15.9	12.8	19.2

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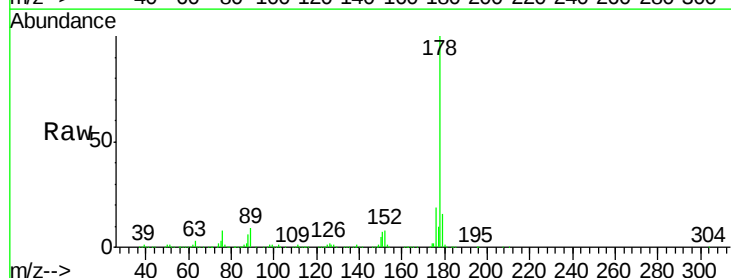


Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

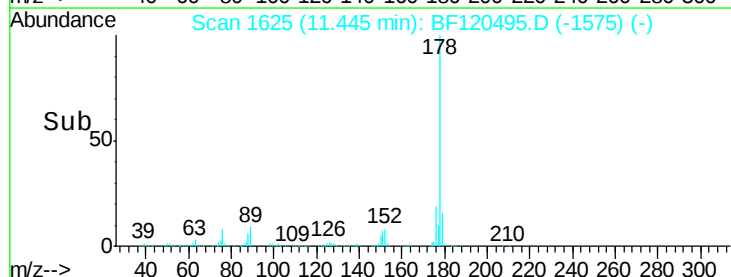
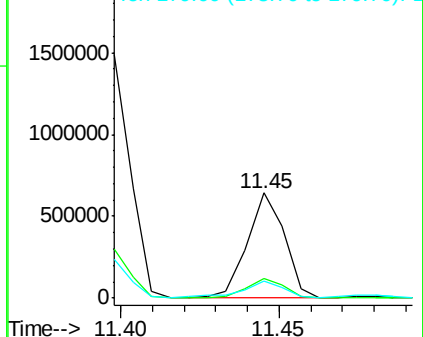


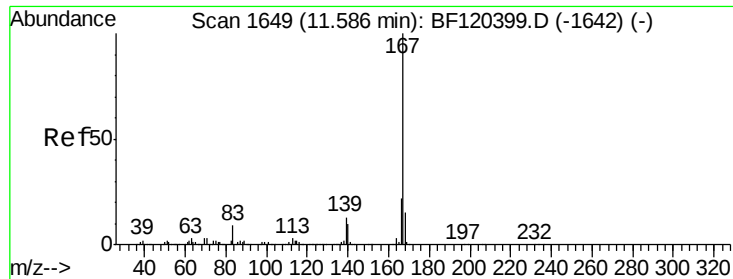
#72
Anthracene
Concen: 22.493 ng
RT: 11.45 min Scan# 1625
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.8	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E
2000000 Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





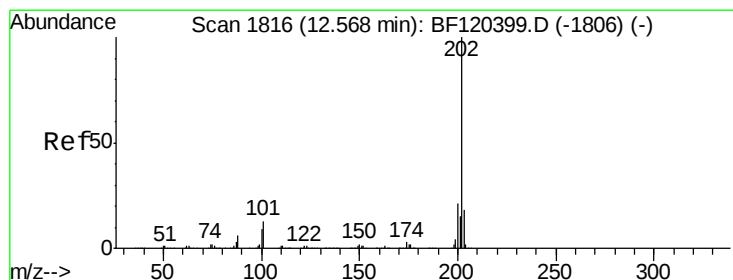
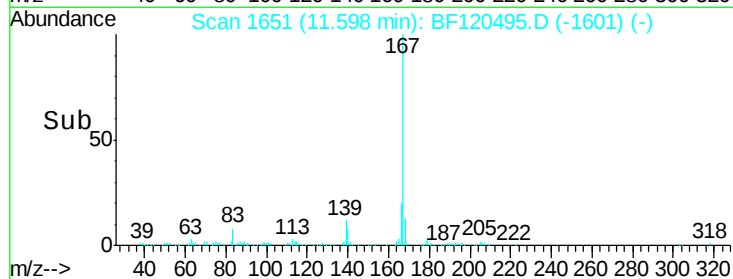
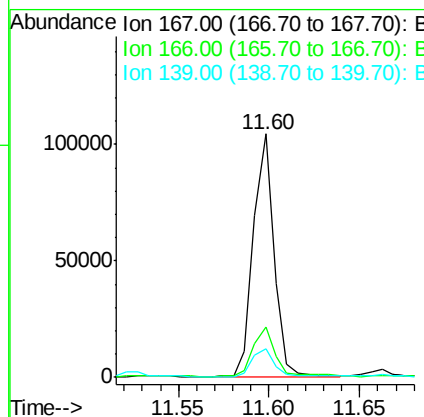
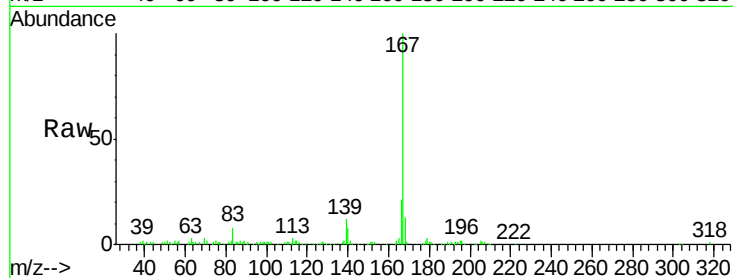
#73
 Carbazole
 Concen: 3.794 ng
 RT: 11.60 min Scan# 1651
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion:	167	Resp:	84040
Ion Ratio	Lower	Upper	
167	100		
166	20.7	17.8	26.8
139	11.6	10.3	15.5

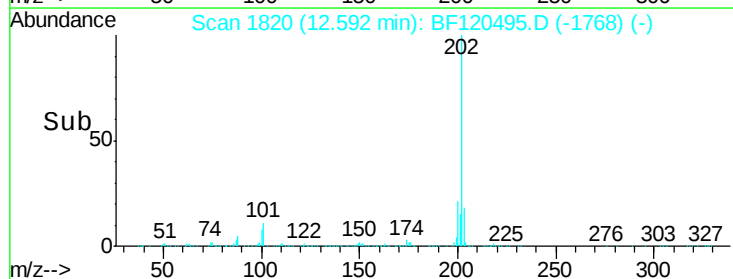
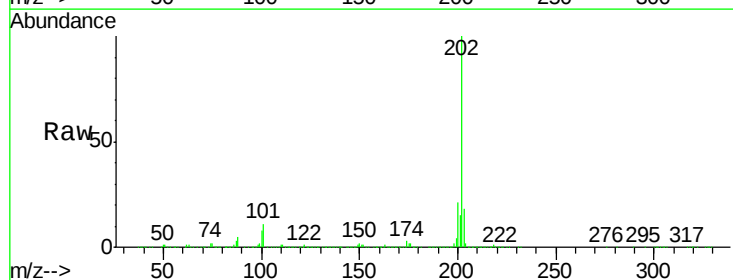
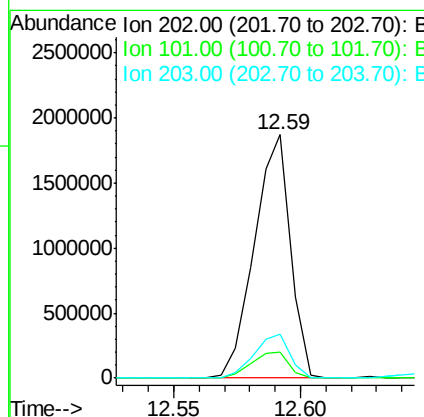
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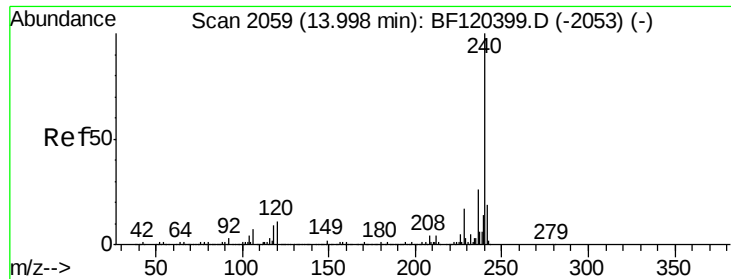
mohammad
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#75
 Fluoranthene
 Concen: 75.038 ng
 RT: 12.59 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion:	202	Resp:	1842947
Ion Ratio	Lower	Upper	
202	100		
101	10.7	0.0	31.4
203	18.3	0.0	38.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2062

Delta R.T. -0.00 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

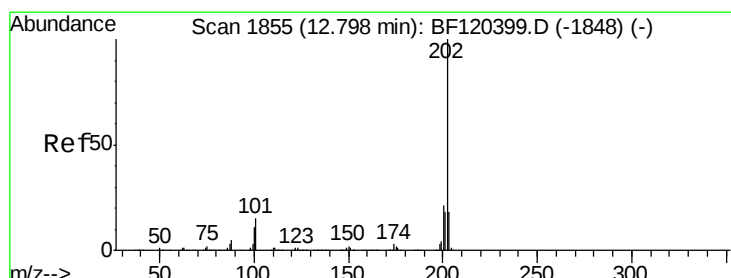
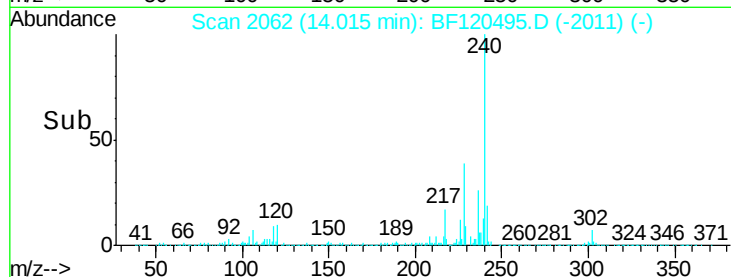
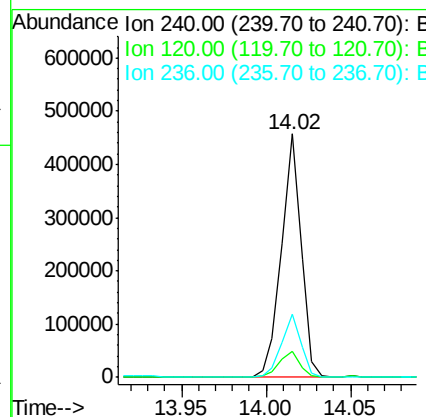
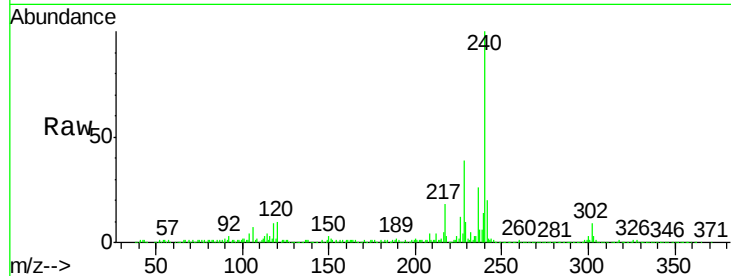
ClientSampleId :

PL-02-052920DL

Tot Ion:	240	Resp:	369521
Ion Ratio	Lower	Upper	
240	100		
120	10.5	9.9	14.9
236	26.1	21.0	31.6

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#78

Pyrene

Concen: 60.151 ng

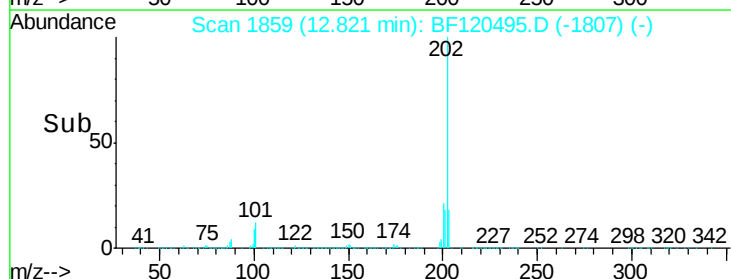
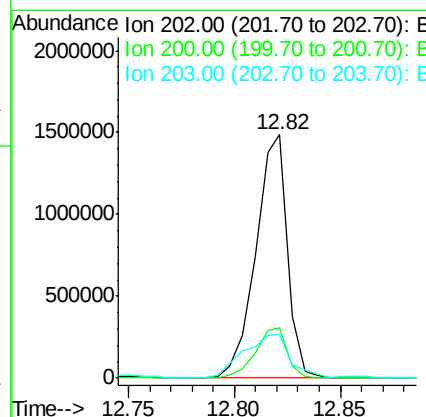
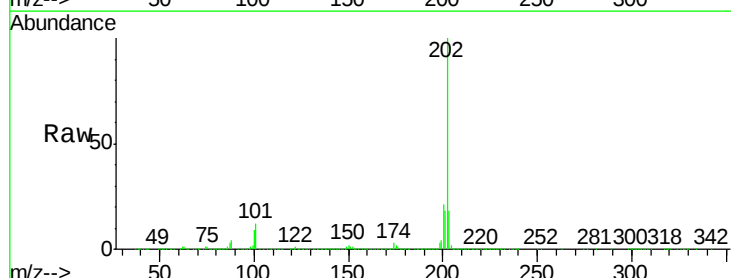
RT: 12.82 min Scan# 1859

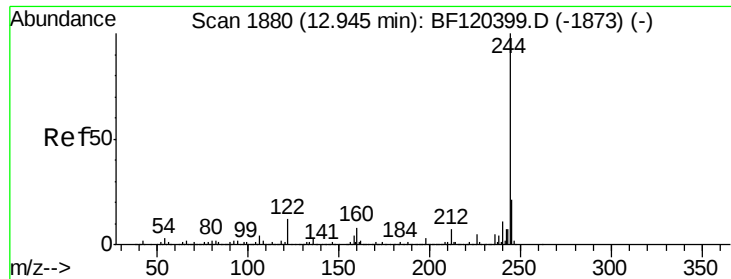
Delta R.T. 0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Tgt Ion:	202	Resp:	1545756
Ion Ratio	Lower	Upper	
202	100		
200	20.8	17.0	25.6
203	18.1	14.6	22.0





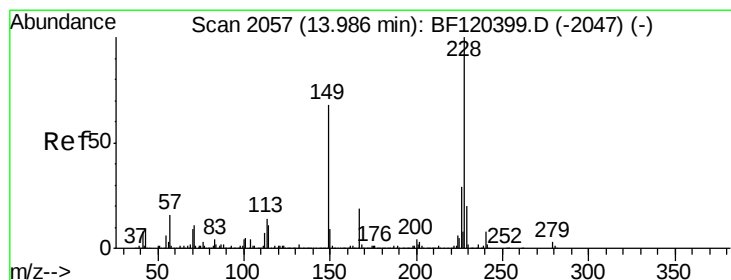
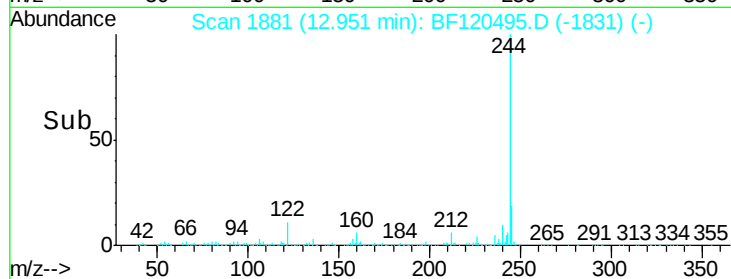
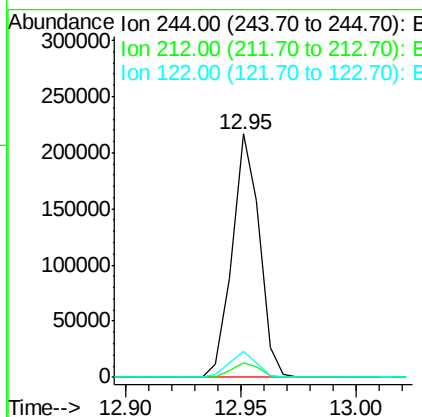
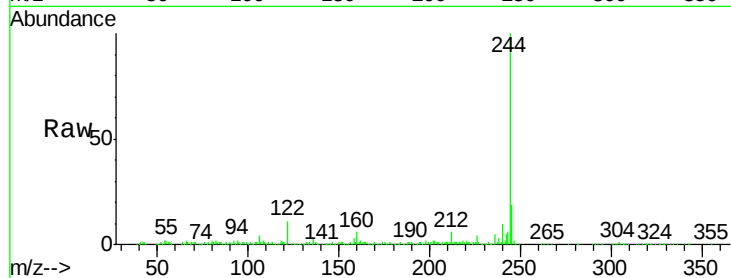
#79
 Terphenyl-d14
 Concen: 10.753 ng
 RT: 12.95 min Scan# 1881
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.2	5.8	8.8
122	10.9	8.7	13.1

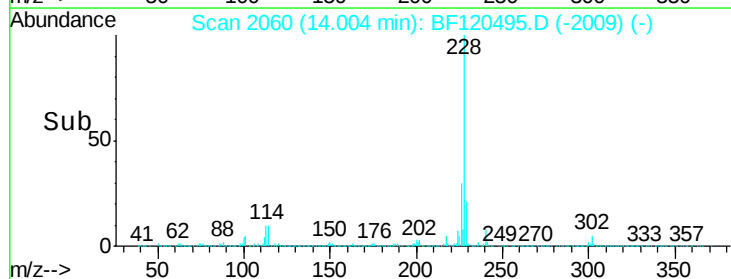
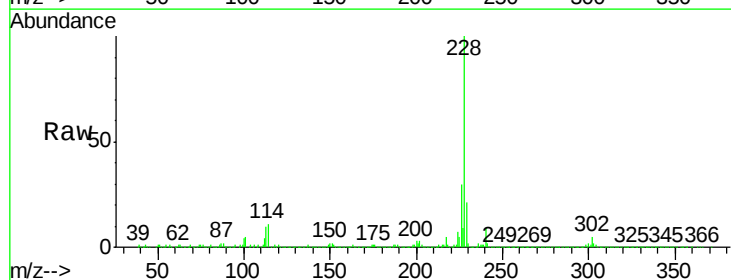
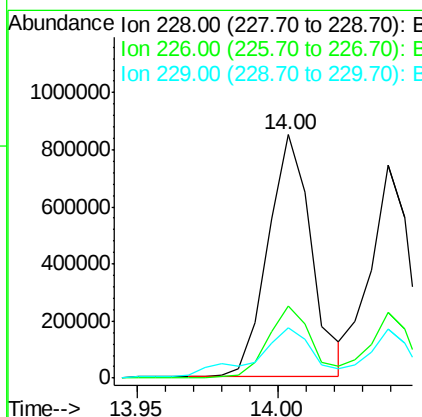
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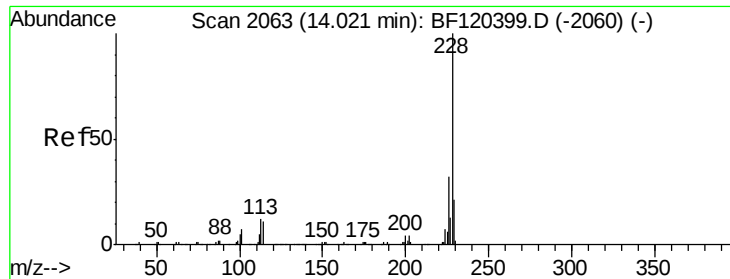
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#81
 Benzo(a)anthracene
 Concen: 45.923 ng
 RT: 14.00 min Scan# 2060
 Delta R.T. -0.00 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.9	34.3
229	20.9	16.3	24.5





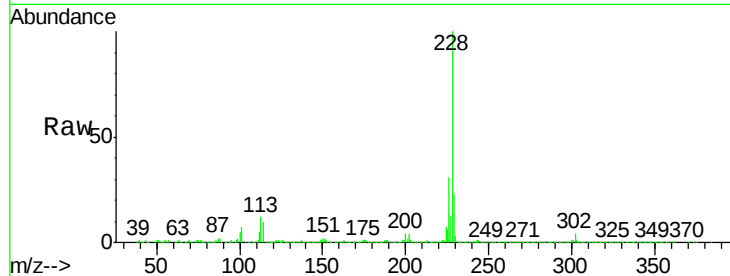
#83
Chrysene
Concen: 33.444 ng
RT: 14.04 min Scan# 2066
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampleId :
PL-02-052920DL

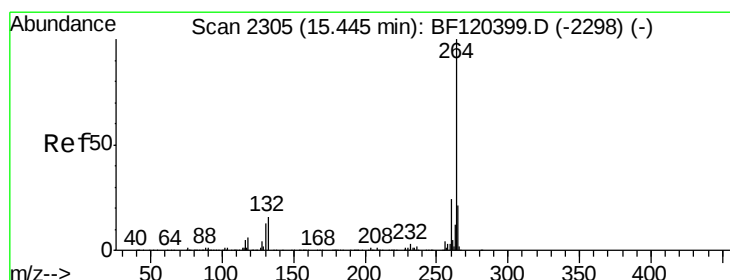
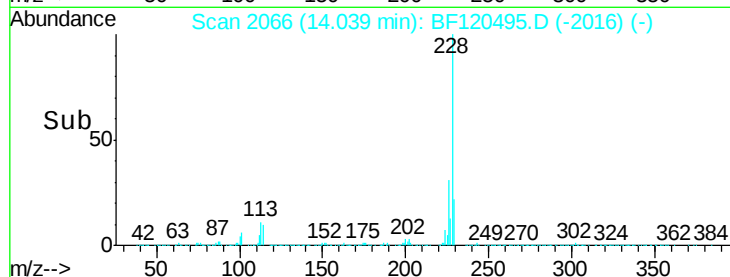
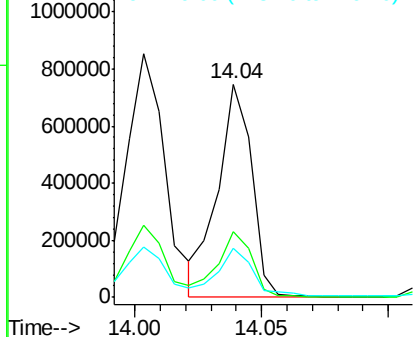
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.7	38.5
229	23.1	16.4	24.6

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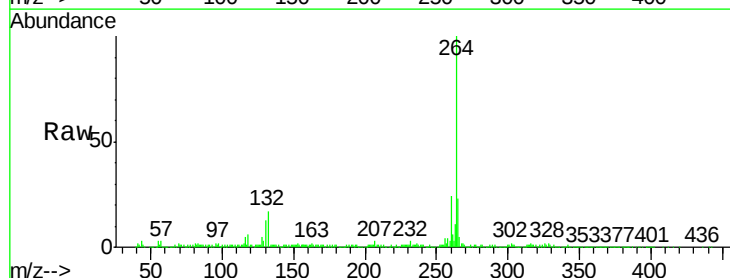


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

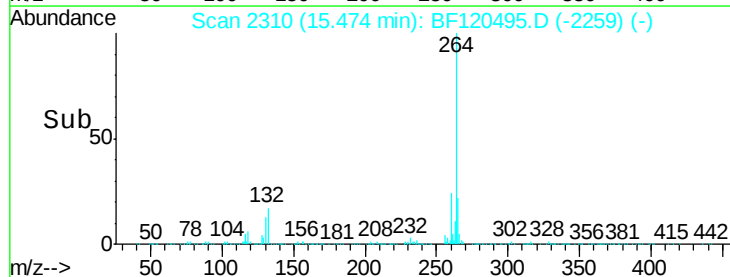
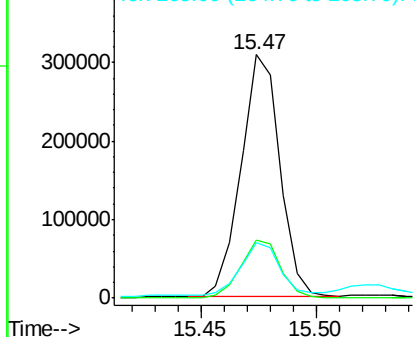


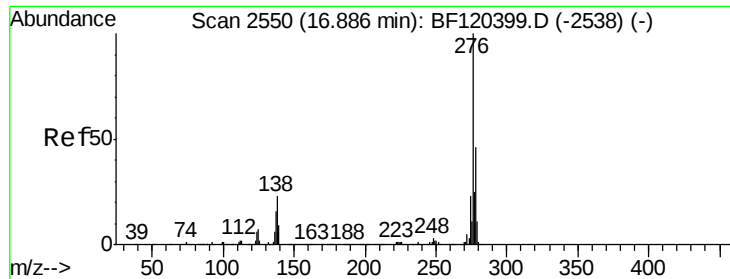
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2310
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	22.6	17.6	26.4



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





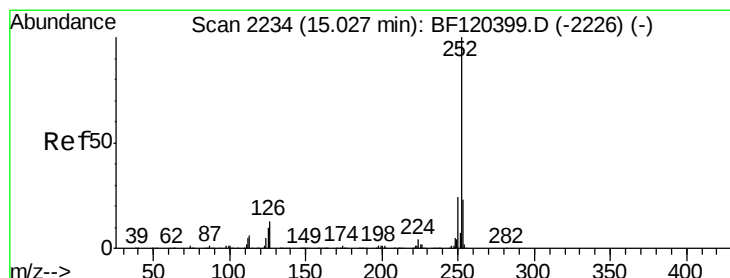
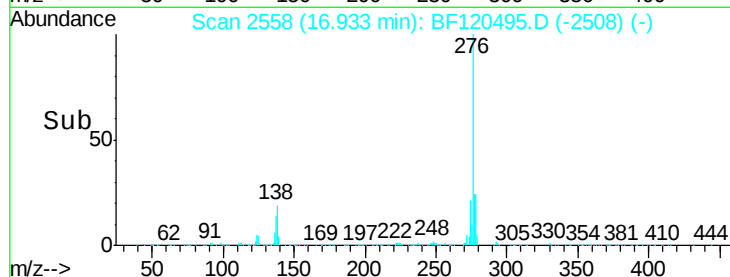
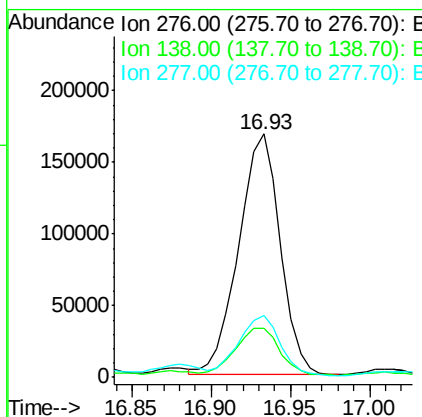
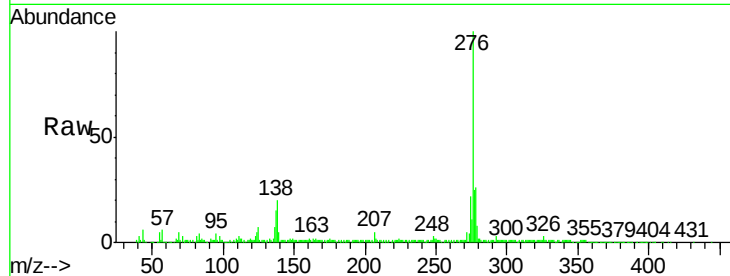
#87
 Indeno(1,2,3-cd)pyrene
 Concen: 15.348 ng
 RT: 16.93 min Scan# 2558
 Delta R.T. -0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-052920DL

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.3	19.3	28.9
277	24.8	20.7	31.1

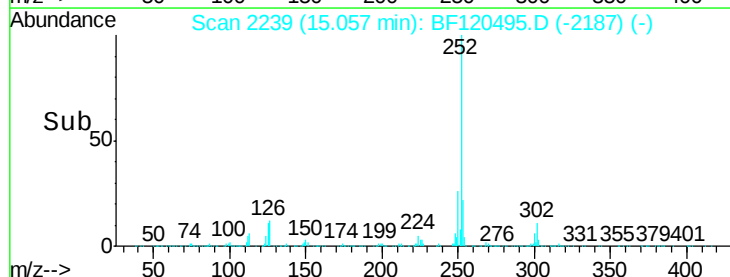
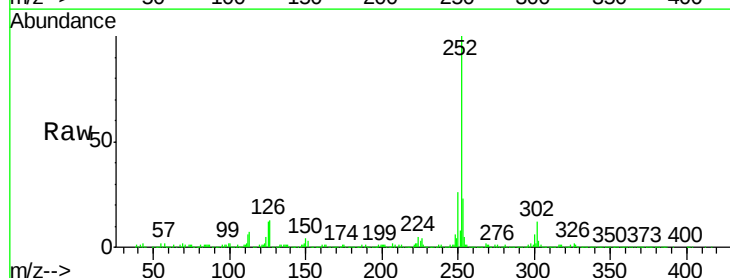
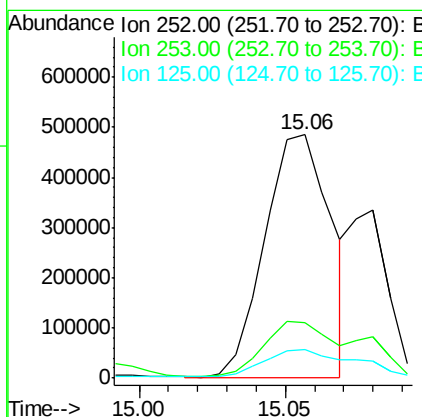
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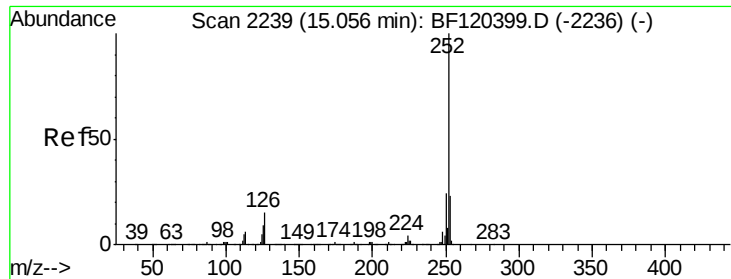
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#88
 Benzo(b)fluoranthene
 Concen: 37.775 ng m
 RT: 15.06 min Scan# 2239
 Delta R.T. 0.01 min
 Lab File: BF120495.D
 Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	18.2	27.2
125	11.7	8.2	12.4





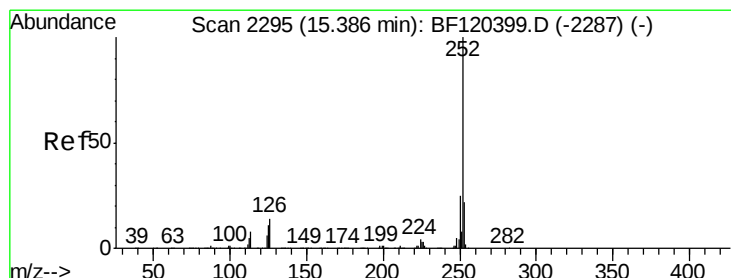
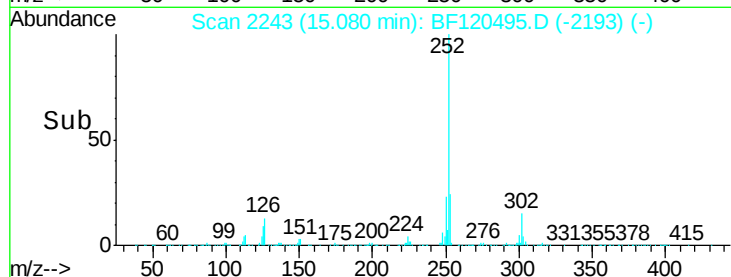
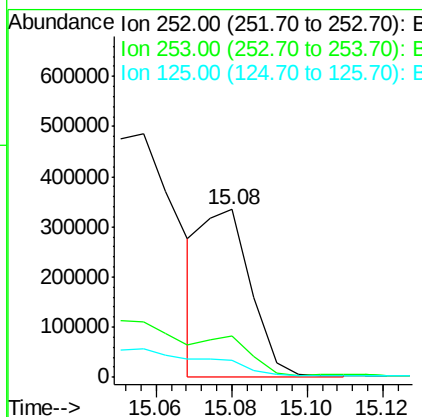
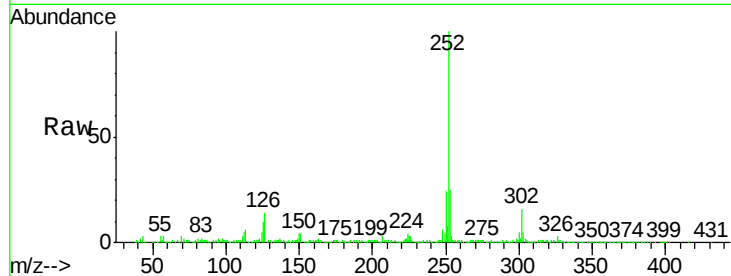
#89
Benzo(k)fluoranthene
Concen: 15.967 ng m
RT: 15.08 min Scan# 2243
Delta R.T. -0.01 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Instrument :
BNA_F
ClientSampleId :
PL-02-052920DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.6
125	10.0	7.1	10.7

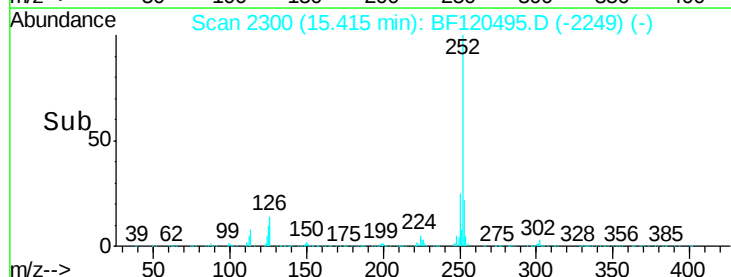
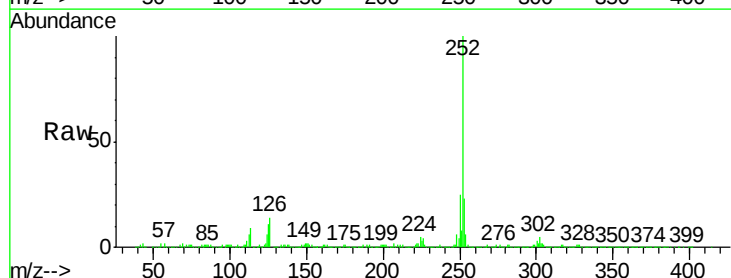
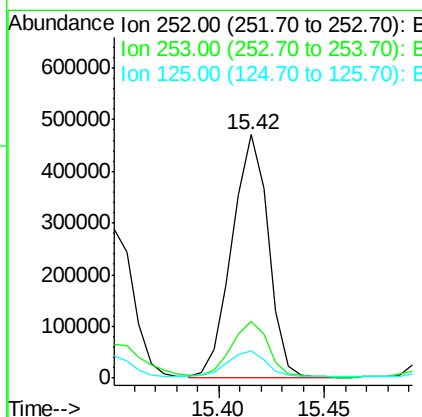
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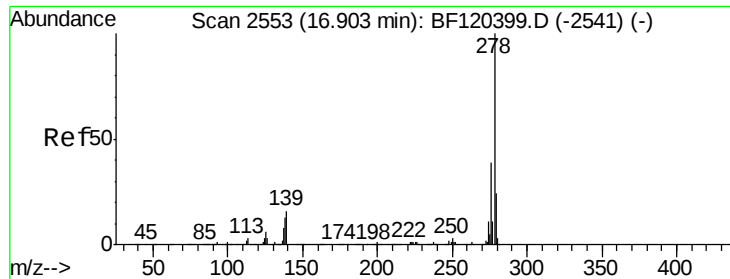
mohammad
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#90
Benzo(a)pyrene
Concen: 31.601 ng
RT: 15.42 min Scan# 2300
Delta R.T. -0.00 min
Lab File: BF120495.D
Acq: 2 Jun 2020 15:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.0	9.0	13.4





#91

Dibenzo(a,h)anthracene

Concen: 5.713 ng

RT: 16.94 min Scan# 2559

Delta R.T. -0.02 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Instrument :

BNA_F

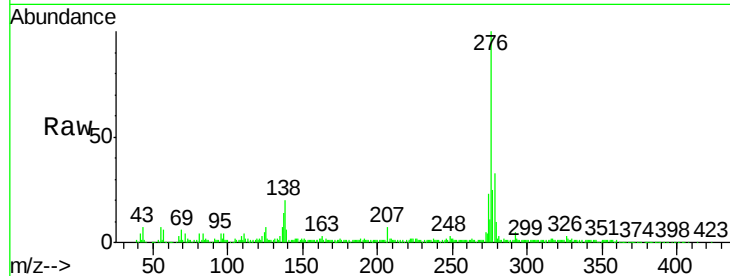
ClientSampleId :

PL-02-052920DL

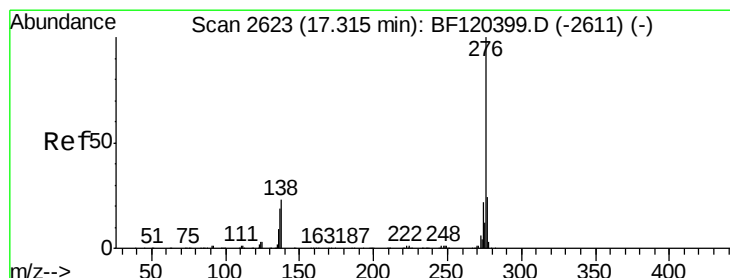
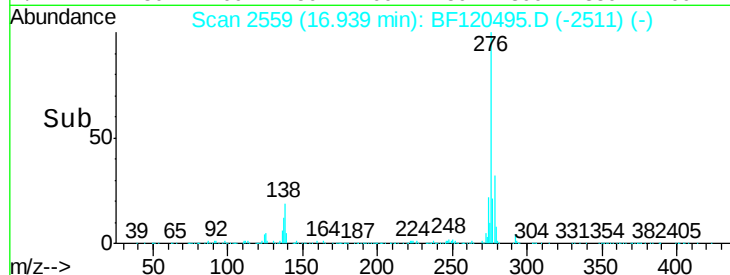
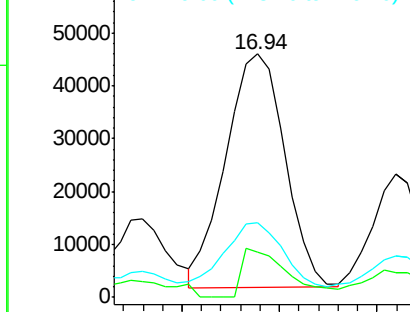
Tot Ion:	278	Resp:	92548
Ion Ratio	Lower	Upper	
278	100		
139	18.8	12.2	18.4#
279	30.6	18.8	28.2#

Manual Integrations
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Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 16.062 ng

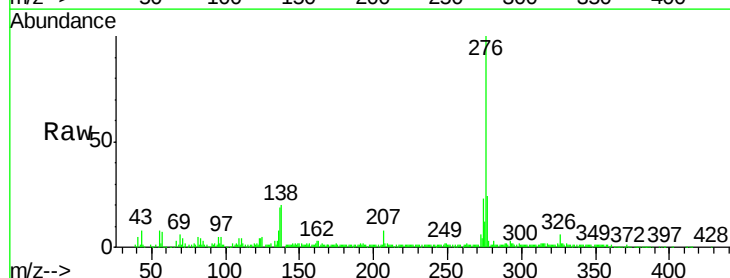
RT: 17.37 min Scan# 2633

Delta R.T. -0.01 min

Lab File: BF120495.D

Acq: 2 Jun 2020 15:23

Tgt Ion:	276	Resp:	256637
Ion Ratio	Lower	Upper	
276	100		
277	24.0	18.8	28.2
138	20.3	16.8	25.2



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

