

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030920\
 Data File : BF119286.D
 Acq On : 9 Mar 2020 14:37
 Operator : CG/JU
 Sample : L1761-01DL 25X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Manual Integrations
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Quant Time: Mar 09 15:40:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 06 23:38:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	120226	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	477916	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	265226	20.00	ng	0.00
64) Phenanthrene-d10	11.24	188	499250	20.00	ng	0.00
76) Chrysene-d12	13.89	240	294676	20.00	ng	0.00
87) Perylene-d12	15.31	264	324753	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	27054	3.76	ng	0.02
7) Phenol-d6	6.40	99	37558	4.29	ng	0.02
23) Nitrobenzene-d5	7.29	82	24561	2.71	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	12832	3.70	ng	0.00
45) 2-Fluorobiphenyl	9.07	172	58947	3.27	ng	-0.01
79) Terphenyl-d14	12.82	244	71443	4.17	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.03	128	764405	30.841	ng	97
37) 2-Methylnaphthalene	8.72	142	718235	43.060	ng	99
38) 1-Methylnaphthalene	8.82	142	593548	37.838	ng	98
46) 1,1'-Biphenyl	9.18	154	113782	5.308	ng	98
52) Acenaphthene	9.79	154	346414	23.027	ng	98
55) Dibenzofuran	9.96	168	166837	7.430	ng	# 94
58) Fluorene	10.30	166	578085	33.132	ng	99
71) Phenanthrene	11.28	178	2573902	94.536	ng	99
72) Anthracene	11.32	178	959153	35.258	ng	98
73) Carbazole	11.48	167	98368	4.059	ng	98
75) Fluoranthene	12.46	202	1161668	40.196	ng	100
78) Pyrene	12.69	202	1456909	61.571	ng	99
81) Benzo(a)anthracene	13.87	228	510733	25.437	ng	99
83) Chrysene	13.91	228	433404	21.663	ng	98
86) Indeno(1,2,3-cd)pyrene	16.72	276	141633	7.311	ng	95
88) Benzo(b)fluoranthene	14.91	252	326812m	15.267	ng	
89) Benzo(k)fluoranthene	14.93	252	127545m	6.430	ng	
90) Benzo(a)pyrene	15.26	252	326975	16.925	ng	98
91) Dibenzo(a,h)anthracene	16.72	278	43598m	2.565	ng	
92) Benzo(a,h,i)perylene	17.14	276	133228	7.932	ng	98

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

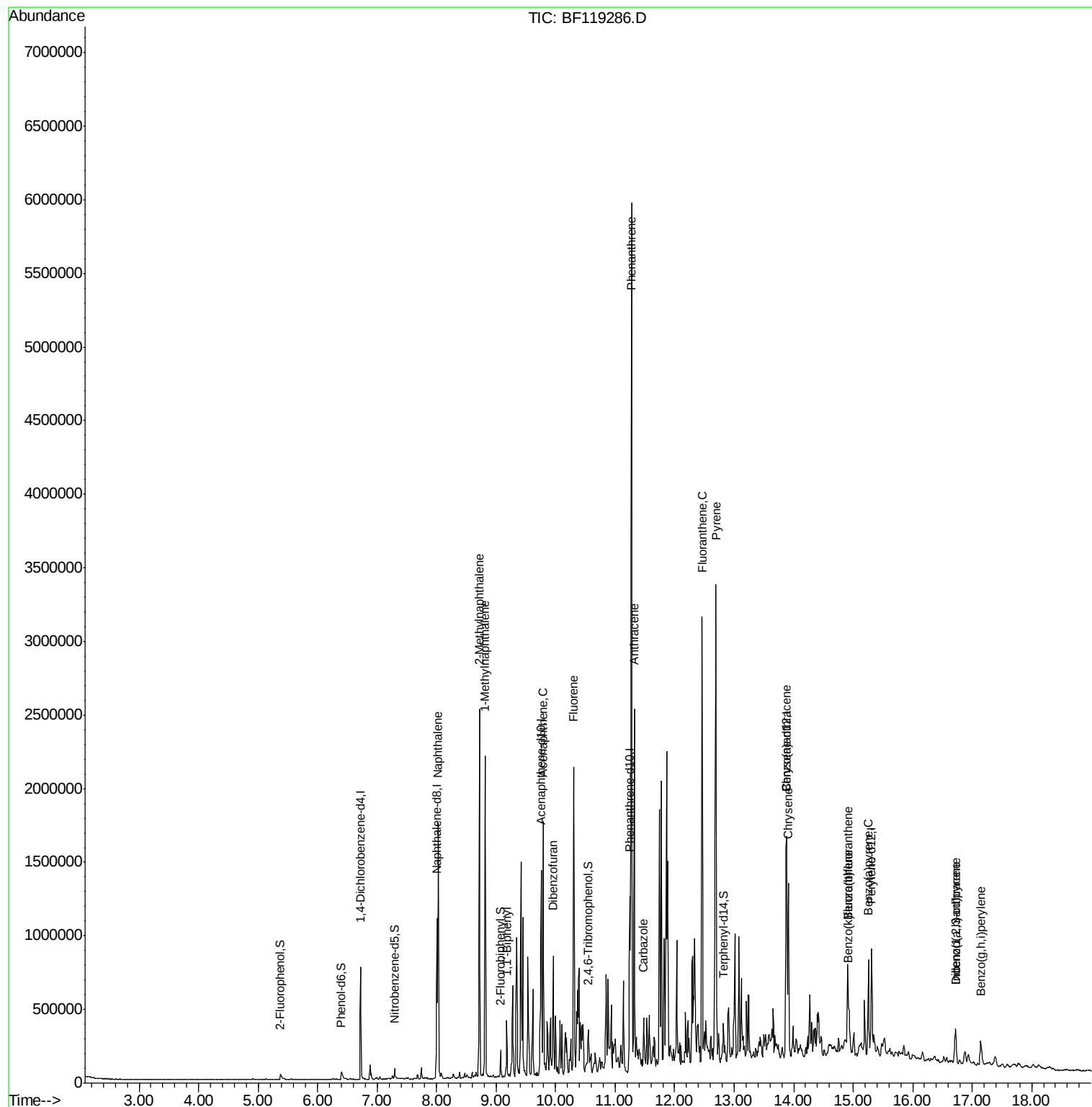
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030920\
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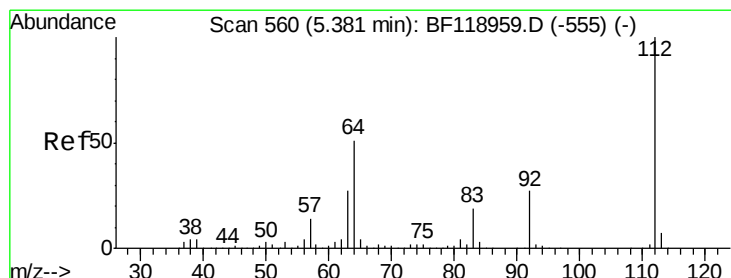
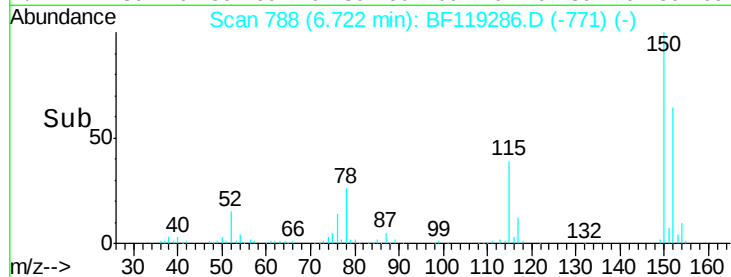
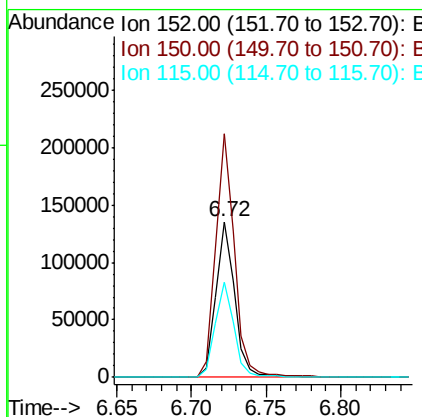
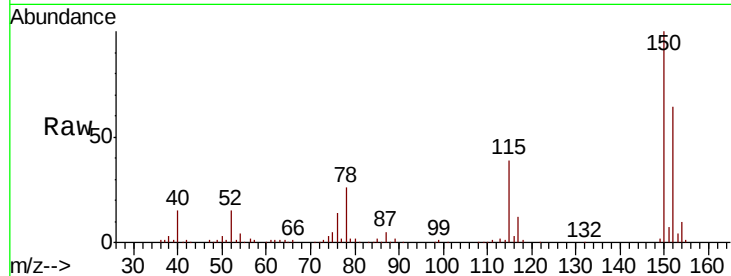
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.72 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	123.0	184.6
115	61.4	49.5	74.3

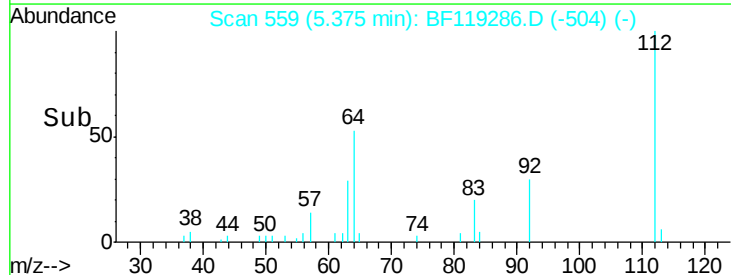
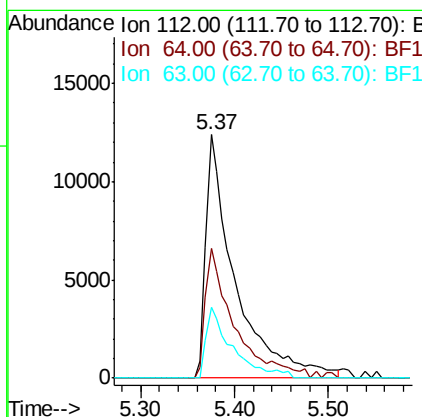
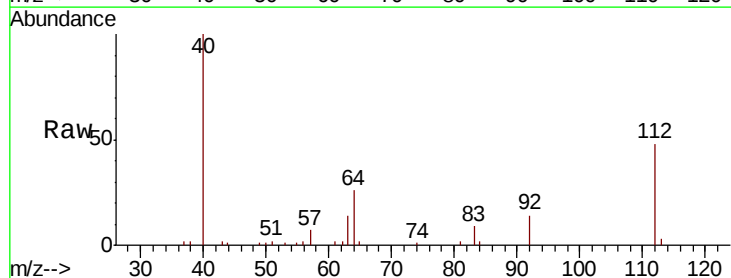
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#5
 2-Fluorophenol
 Concen: 3.761 ng
 RT: 5.37 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.1	45.0	67.4
63	29.3	24.2	36.4





#7

Phenol-d6

Concen: 4.293 ng

RT: 6.40 min Scan# 733

Delta R.T. 0.02 min

Lab File: BF119286.D

Acq: 9 Mar 2020 14:37

Instrument :

BNA_F

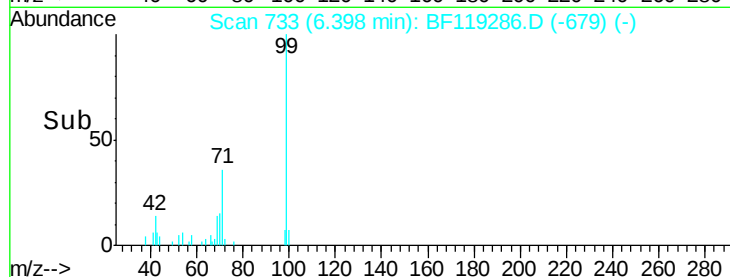
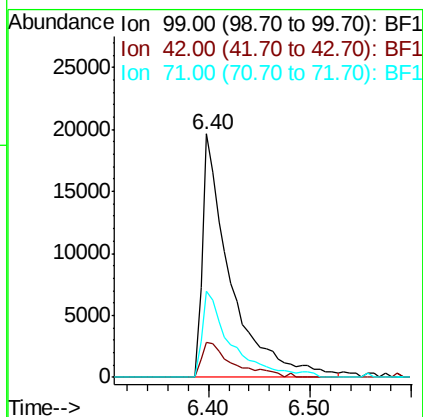
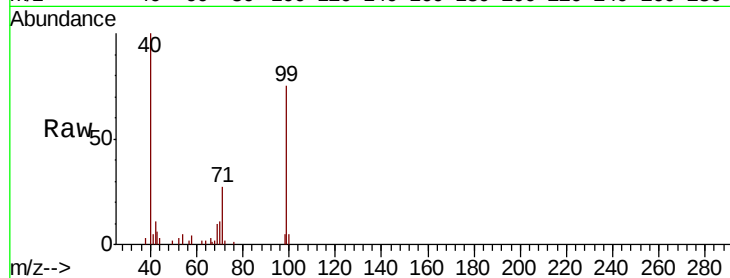
ClientSampleId :

SU-04-030420DL

Tot Ion:	99	Resp:	37558
Ion	Ratio	Lower	Upper
99	100		
42	14.4	12.6	18.8
71	35.5	31.0	46.4

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#21

Naphthalene-d8

Concen: 20.000 ng

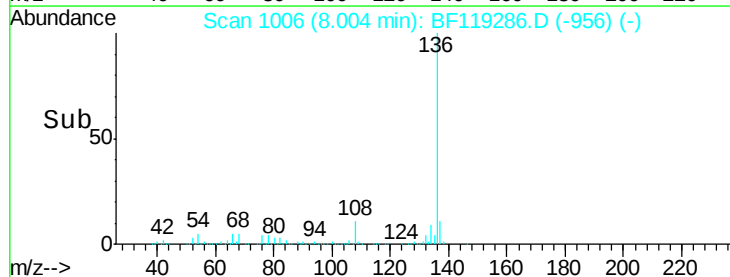
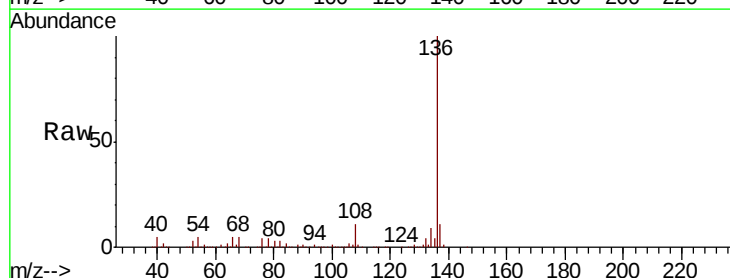
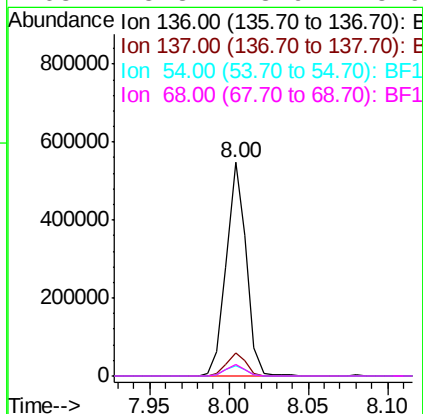
RT: 8.00 min Scan# 1006

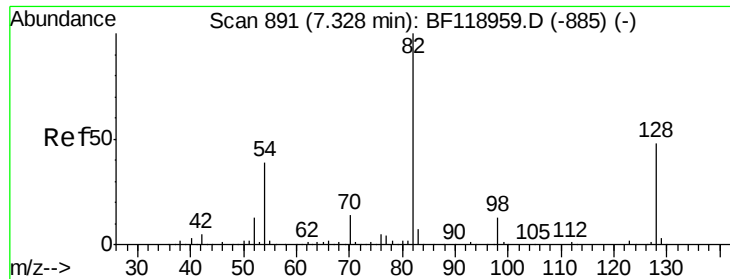
Delta R.T. -0.01 min

Lab File: BF119286.D

Acq: 9 Mar 2020 14:37

Tgt Ion:	136	Resp:	477916
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	5.0	3.8	5.6
68	5.3	3.9	5.9





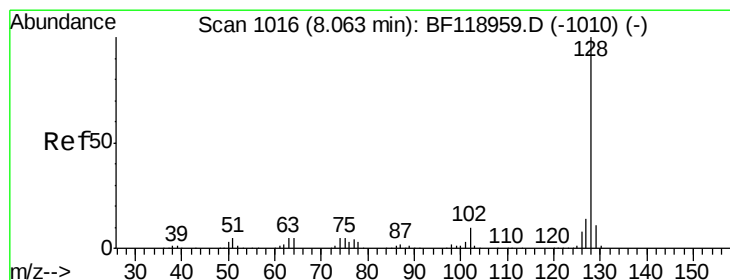
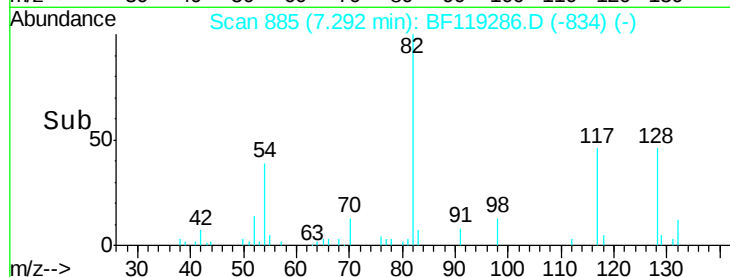
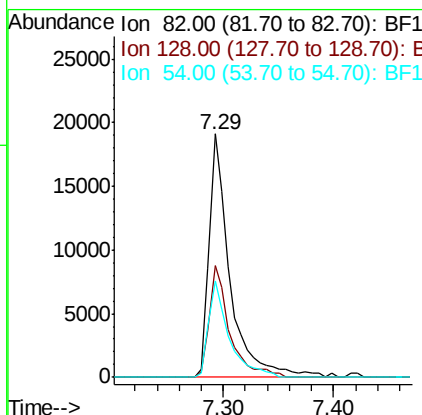
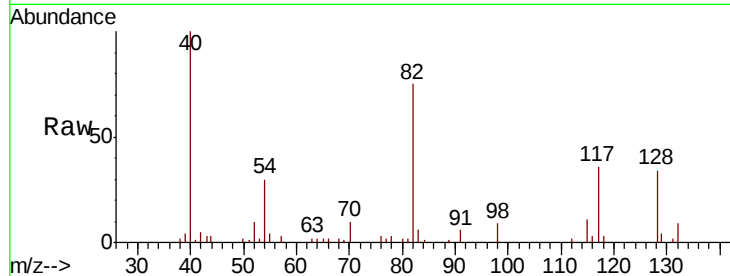
#23
Nitrobenzene-d5
Concen: 2.713 ng
RT: 7.29 min Scan# 885
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.1	37.9	56.9
54	39.5	33.4	50.2

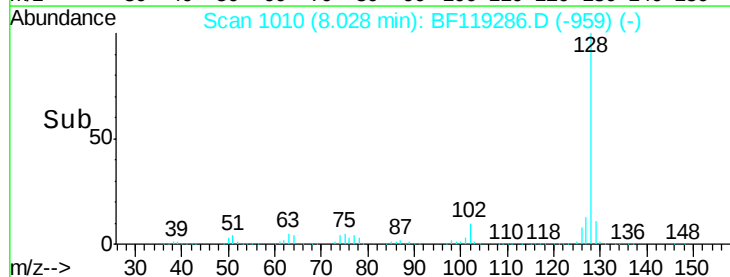
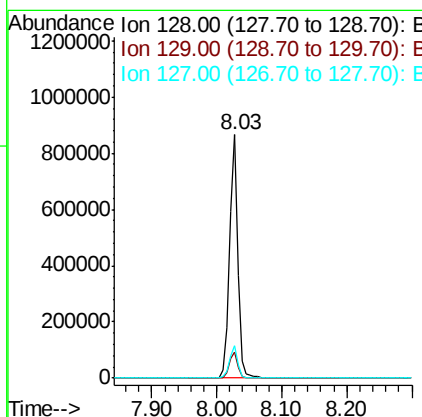
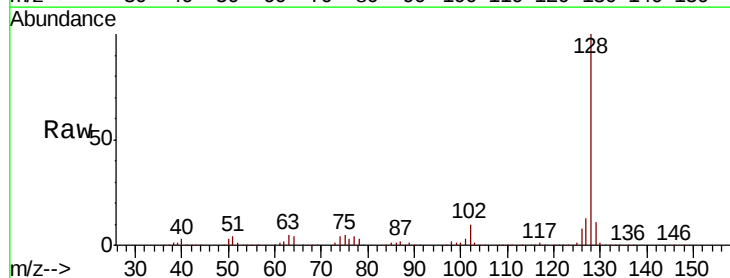
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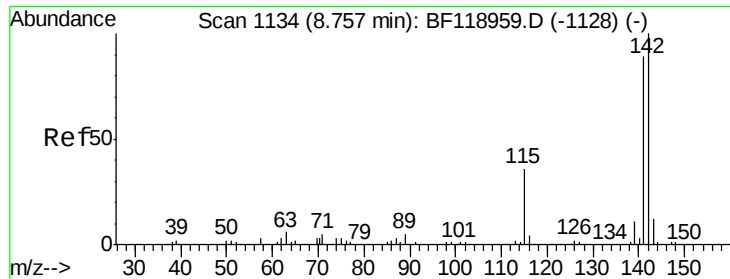
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#31
Naphthalene
Concen: 30.841 ng
RT: 8.03 min Scan# 1010
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.4	14.2
127	13.4	11.4	17.2





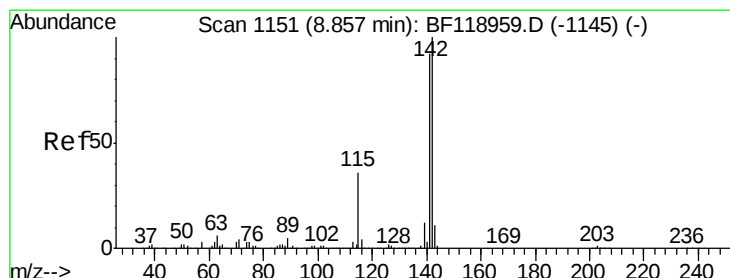
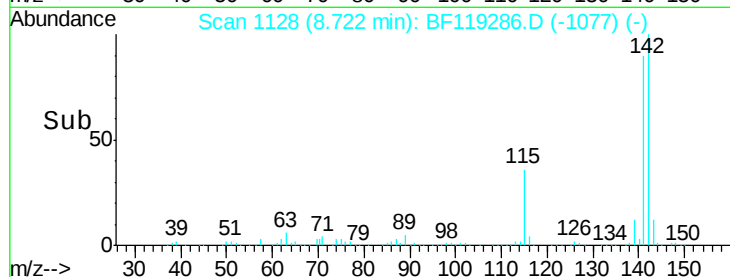
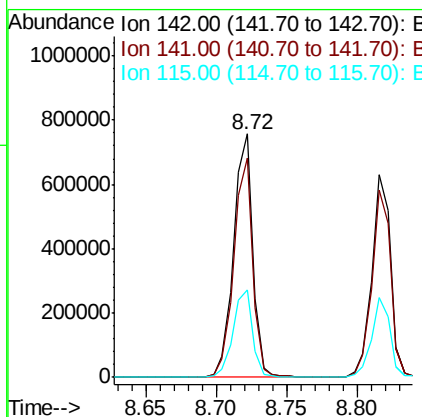
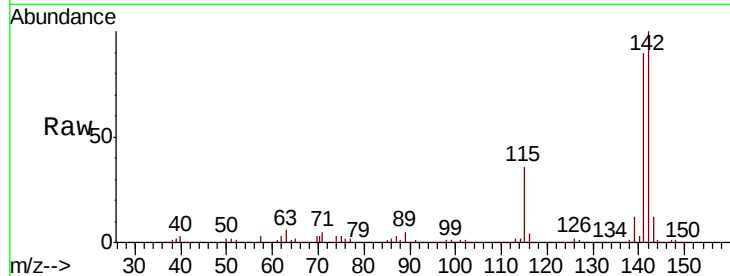
#37
2-Methylnaphthalene
Concen: 43.060 ng
RT: 8.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.3	108.5
115	36.1	30.6	45.8

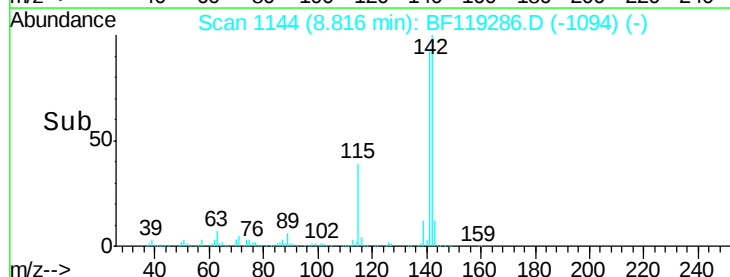
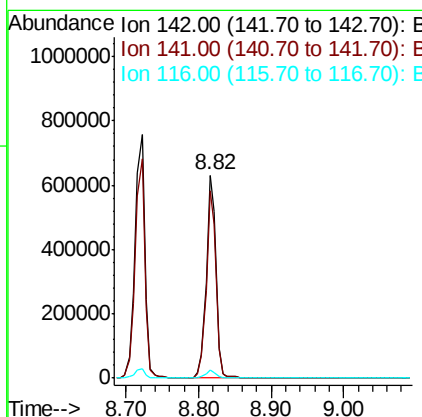
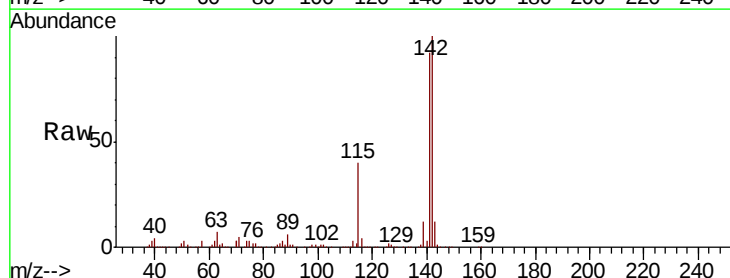
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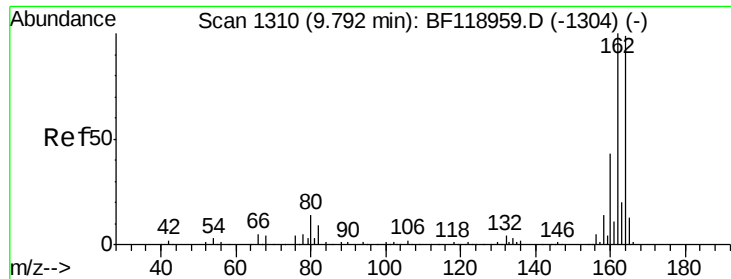
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#38
1-Methylnaphthalene
Concen: 37.838 ng
RT: 8.82 min Scan# 1144
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	75.8	113.6
116	4.0	3.1	4.7





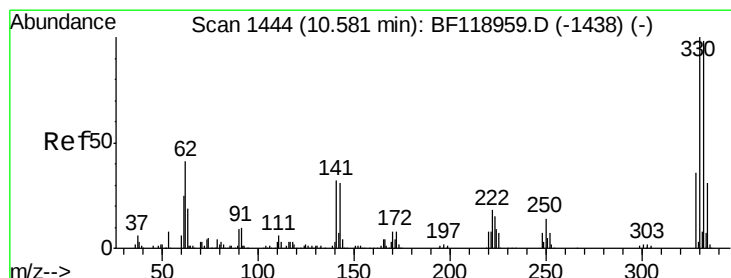
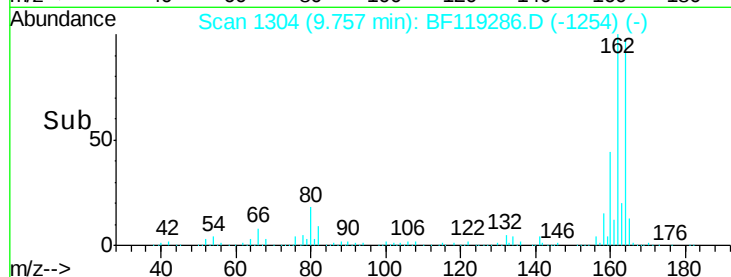
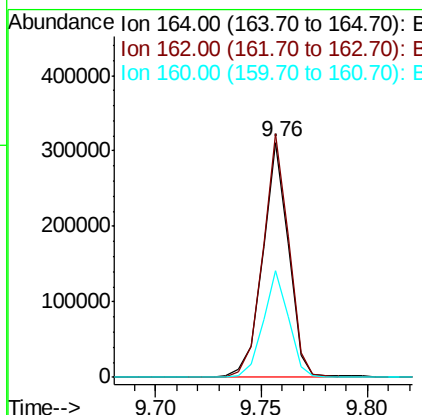
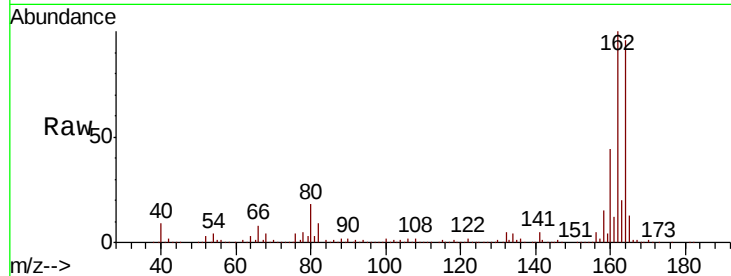
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.7	81.8	122.8
160	45.5	36.0	54.0

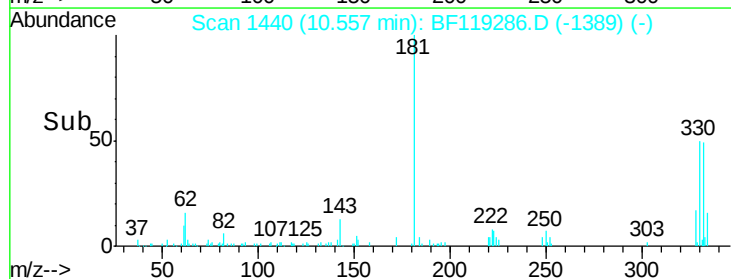
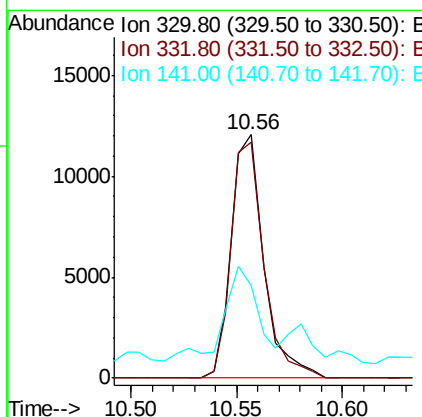
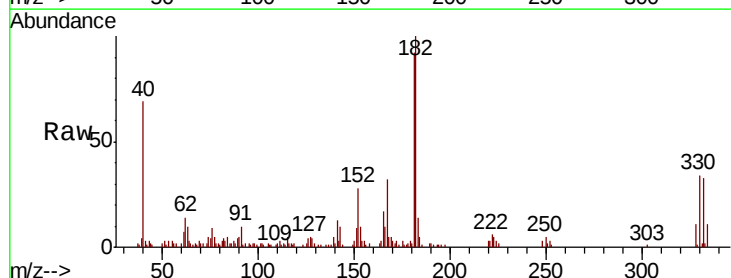
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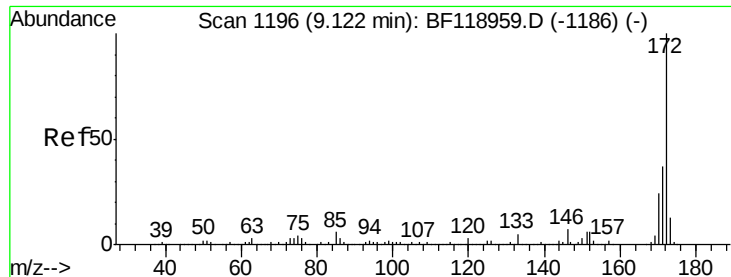
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#42
2,4,6-Tribromophenol
Concen: 3.698 ng
RT: 10.56 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.2	76.0	114.0
141	40.6	22.9	34.3





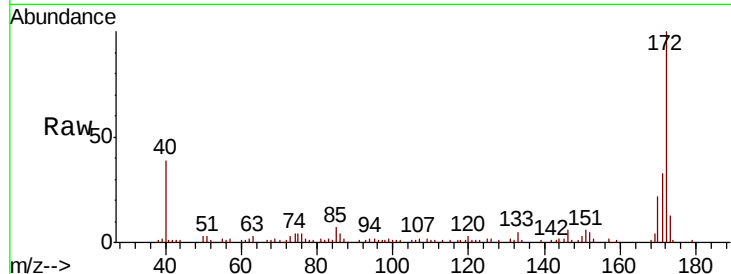
#45
2-Fluorobiphenyl
Concen: 3.274 ng
RT: 9.07 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	33.4	30.6	45.8
170	22.4	20.2	30.2

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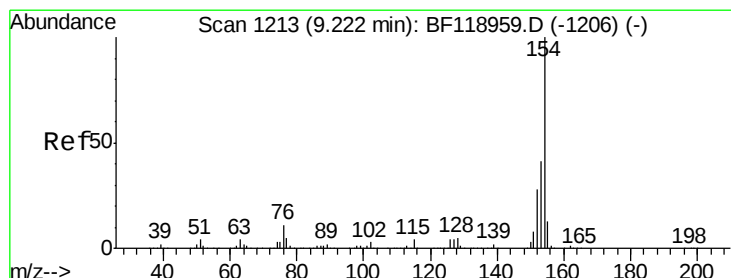
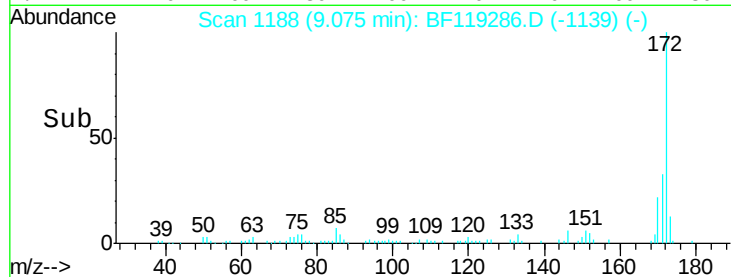
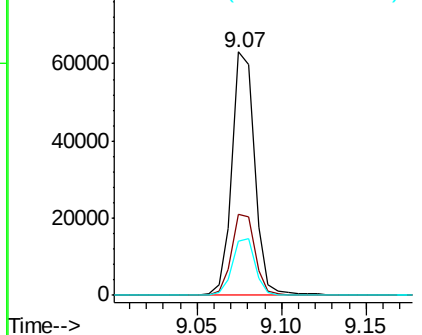


Abundance

Ion 172.00 (171.70 to 172.70): E

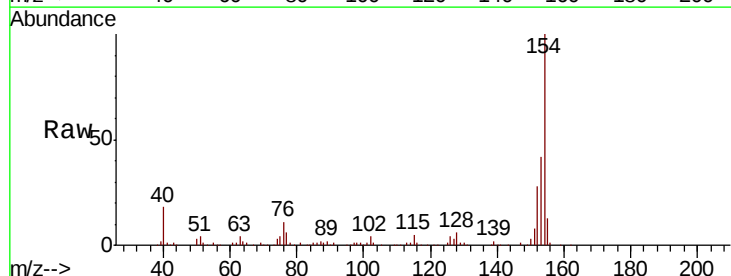
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46
1,1'-Biphenyl
Concen: 5.308 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.8	22.8	62.8
76	10.9	0.0	32.2

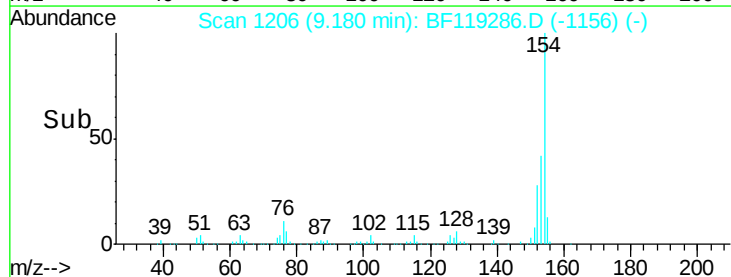
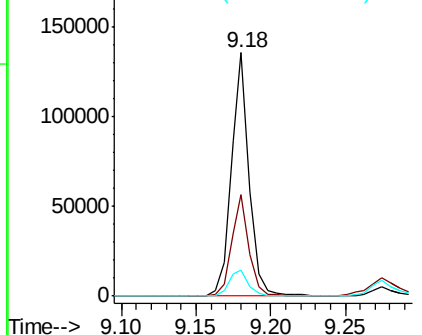


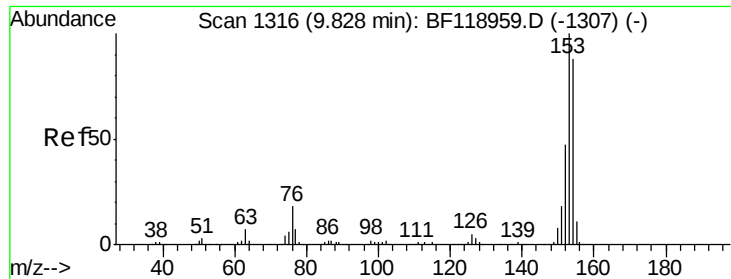
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





#52

Acenaphthene

Concen: 23.027 ng

RT: 9.79 min Scan# 1310

Delta R.T. 0.00 min

Lab File: BF119286.D

Acq: 9 Mar 2020 14:37

Instrument :

BNA_F

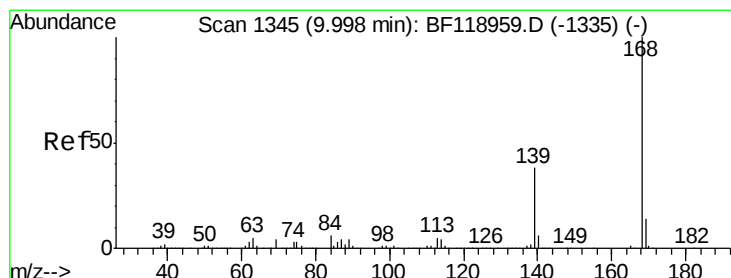
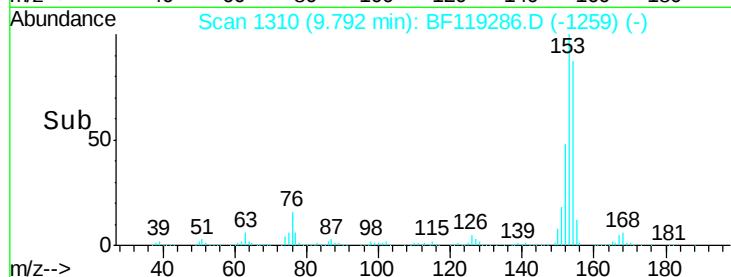
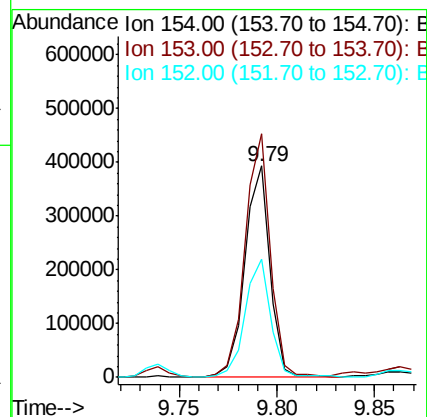
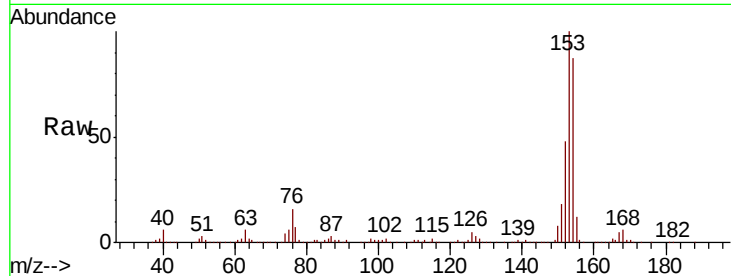
ClientSampleId :

SU-04-030420DL

Tot Ion:	154	Resp:	346414
Ion Ratio	Lower	Upper	
154	100		
153	115.2	90.3	135.5
152	55.8	43.8	65.8

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#55

Dibenzofuran

Concen: 7.430 ng

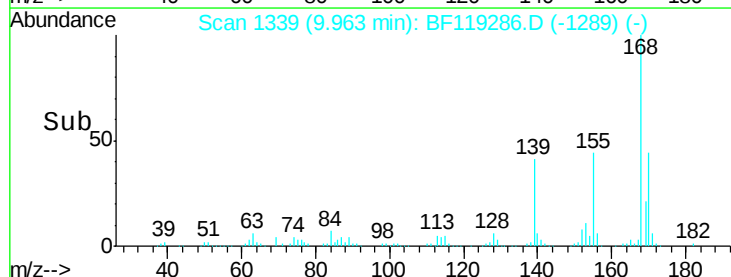
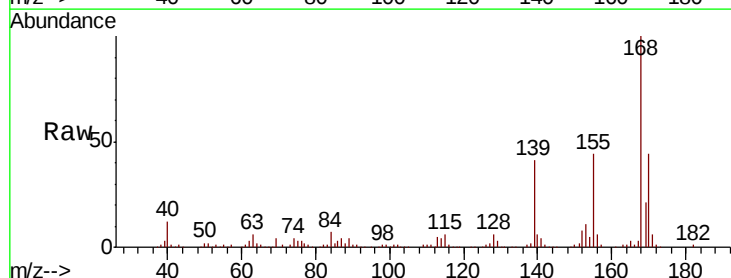
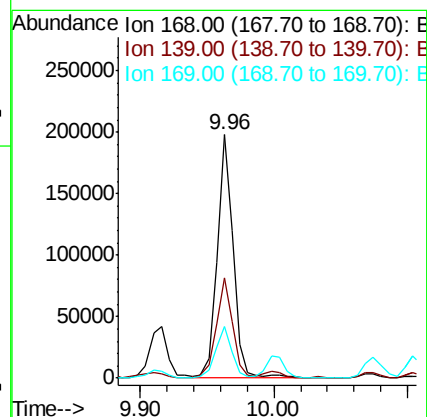
RT: 9.96 min Scan# 1339

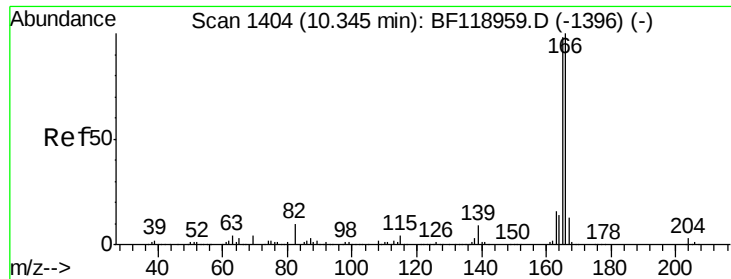
Delta R.T. -0.01 min

Lab File: BF119286.D

Acq: 9 Mar 2020 14:37

Tgt Ion:	168	Resp:	166837
Ion Ratio	Lower	Upper	
168	100		
139	41.0	34.0	51.0
169	21.3	11.0	16.4#





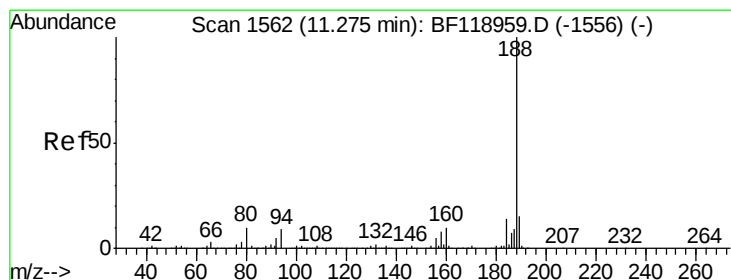
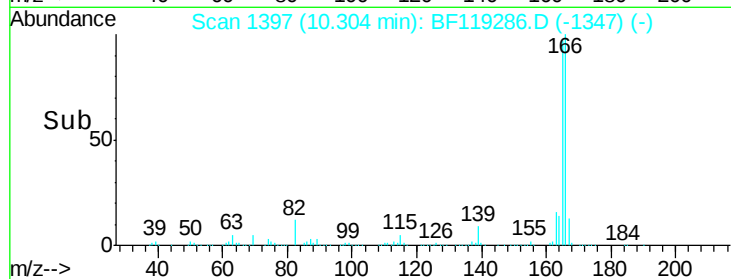
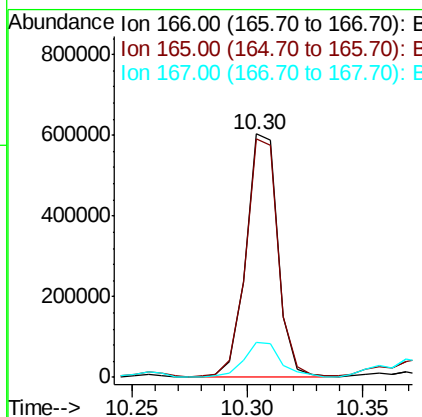
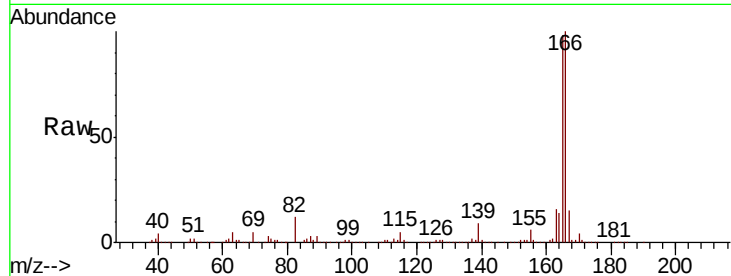
#58
Fluorene
 Concen: 33.132 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	578085		
165	97.7		78.5	117.7
167	14.5		11.0	16.4

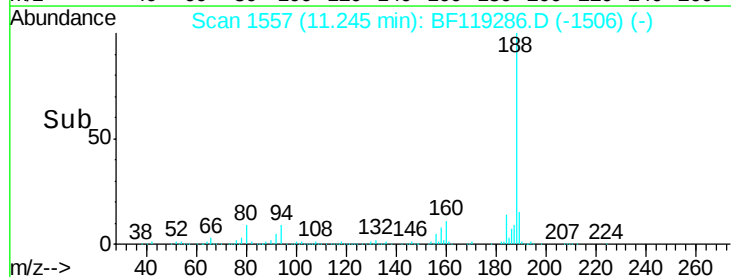
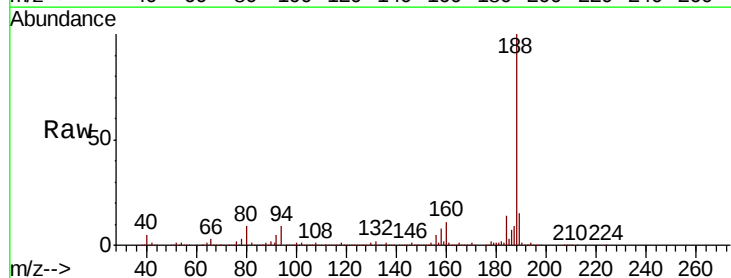
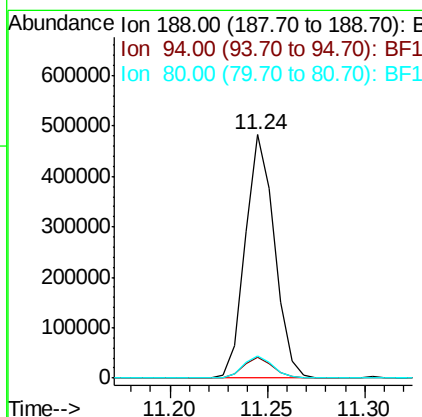
Manual Integrations
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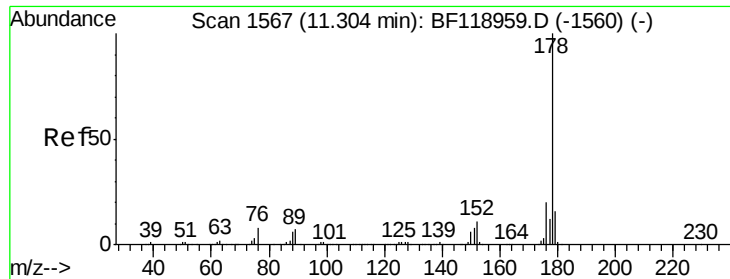
mohammad
 3/10/2020 2:44:10 PM



#64
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	499250		
94	8.8		7.1	10.7
80	9.3		7.8	11.8





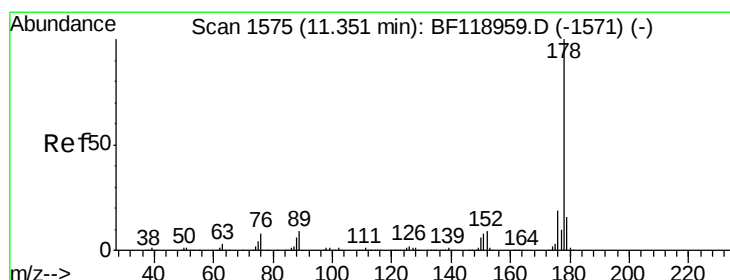
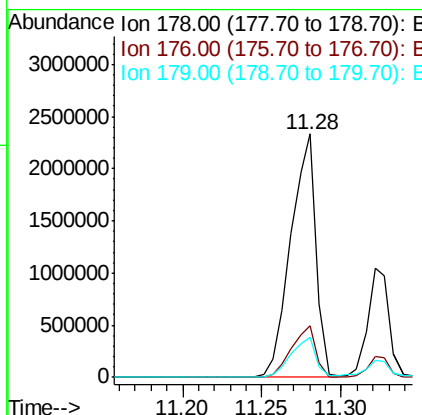
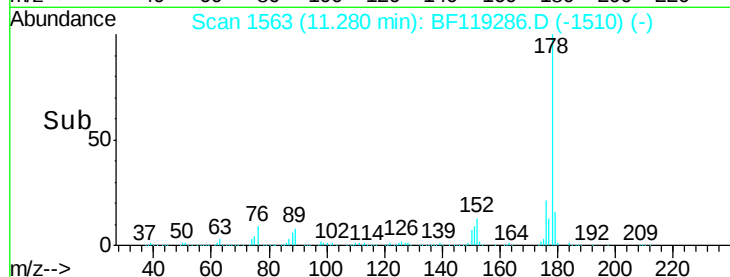
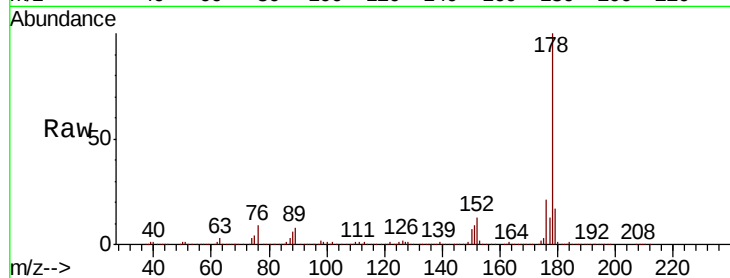
#71
Phenanthrene
Concen: 94.536 ng
RT: 11.28 min Scan# 1563
Delta R.T. 0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion:178 Resp: 2573902
Ion Ratio Lower Upper
178 100
176 21.2 16.5 24.7
179 16.6 13.0 19.6

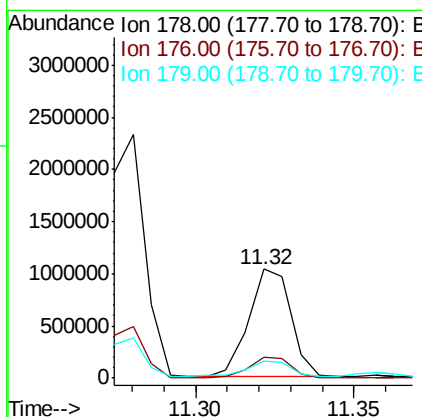
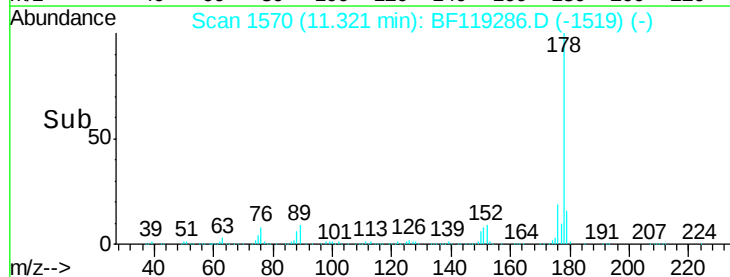
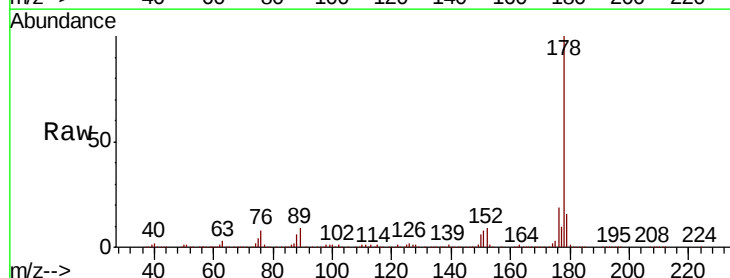
Manual Integrations
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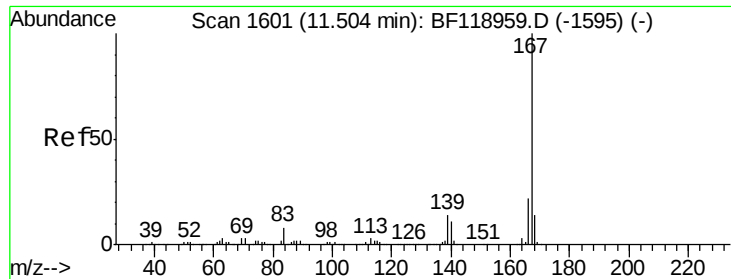
mohammad
3/10/2020 2:44:10 PM



#72
Anthracene
Concen: 35.258 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion:178 Resp: 959153
Ion Ratio Lower Upper
178 100
176 19.1 16.0 24.0
179 15.9 13.1 19.7





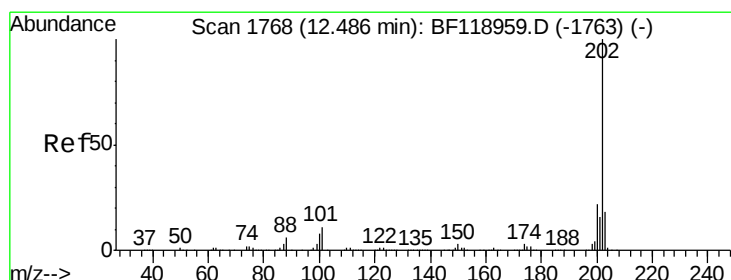
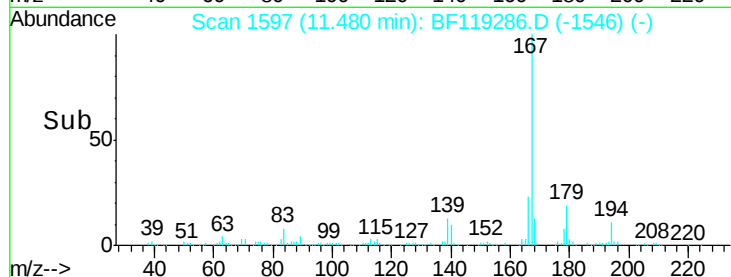
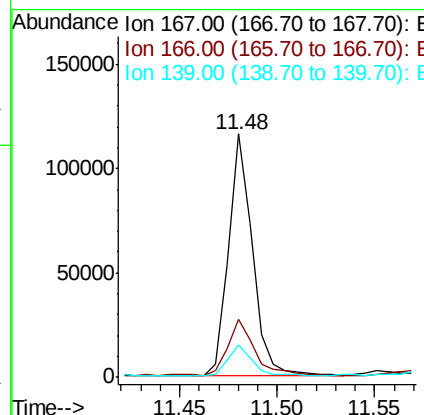
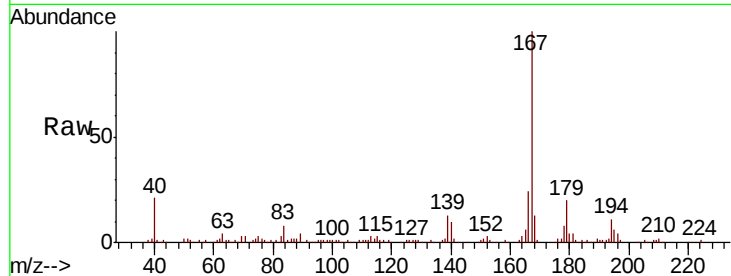
#73
 Carbazole
 Concen: 4.059 ng
 RT: 11.48 min Scan# 1597
 Delta R.T. 0.00 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
167	100		
166	23.8	18.2	27.4
139	13.4	11.7	17.5

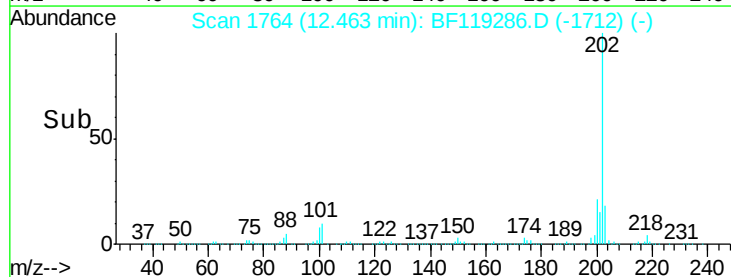
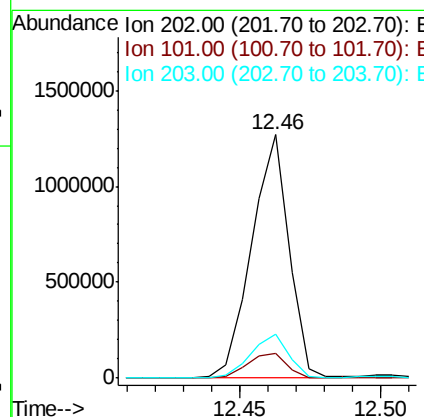
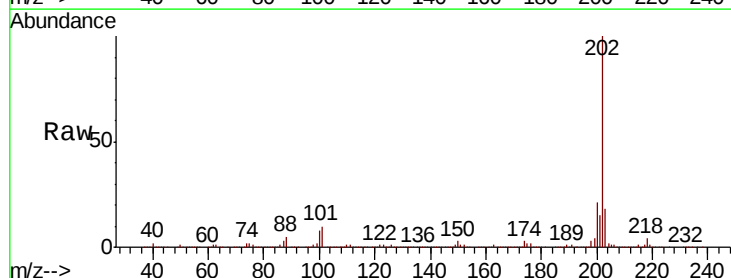
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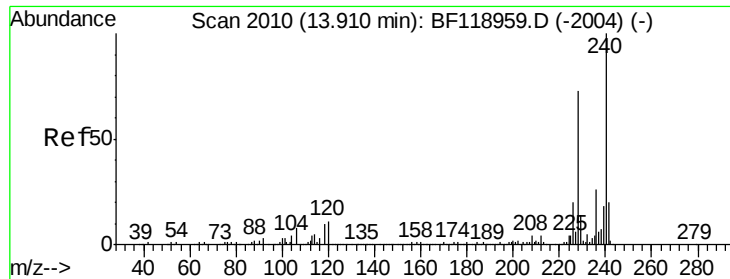
mohammad
 3/10/2020 2:44:10 PM



#75
 Fluoranthene
 Concen: 40.196 ng
 RT: 12.46 min Scan# 1764
 Delta R.T. 0.01 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.3
203	18.2	0.0	38.4





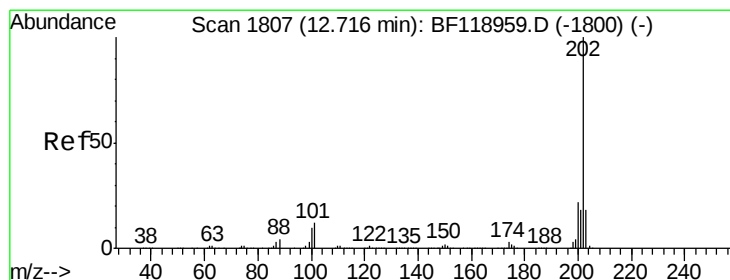
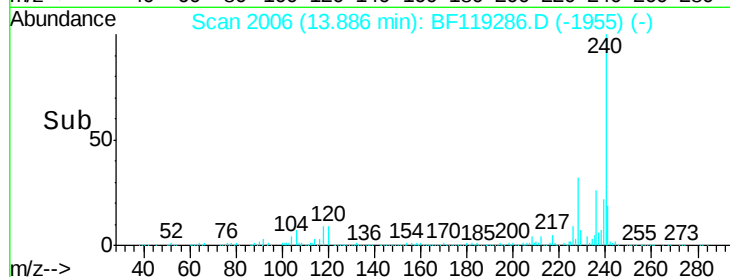
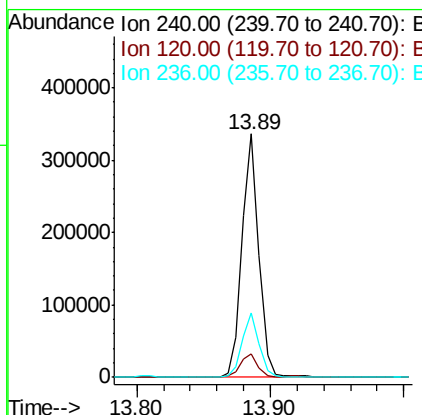
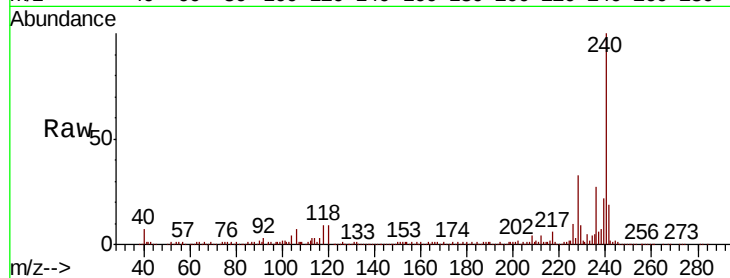
#76
 Chrvsene-d12
 Concen: 20.000 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.00 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.4	12.6
236	26.5	21.0	31.4

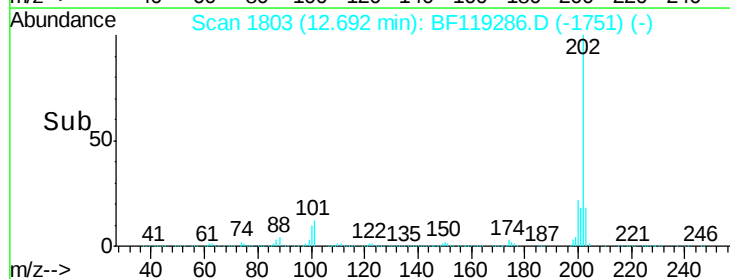
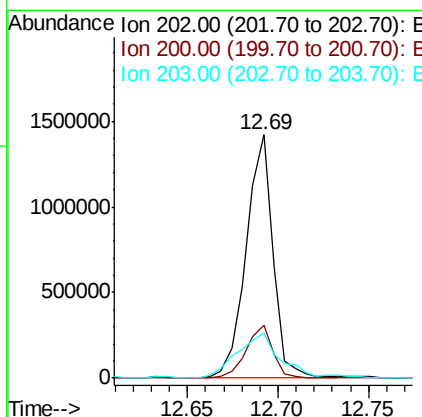
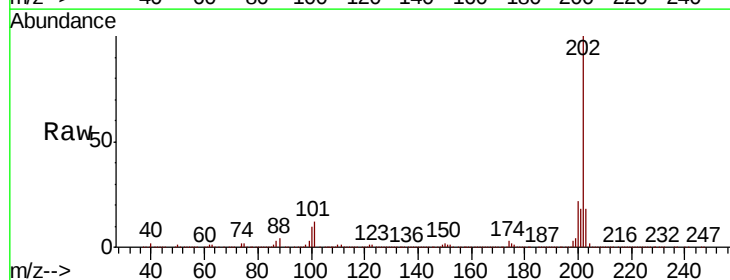
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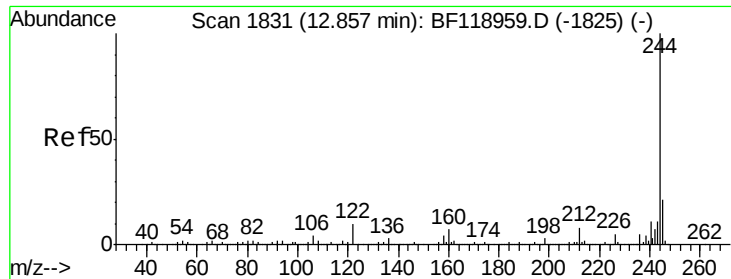
mohammad
 3/10/2020 2:44:10 PM



#78
 Pyrene
 Concen: 61.571 ng
 RT: 12.69 min Scan# 1803
 Delta R.T. 0.01 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	18.0	27.0
203	18.4	14.6	22.0





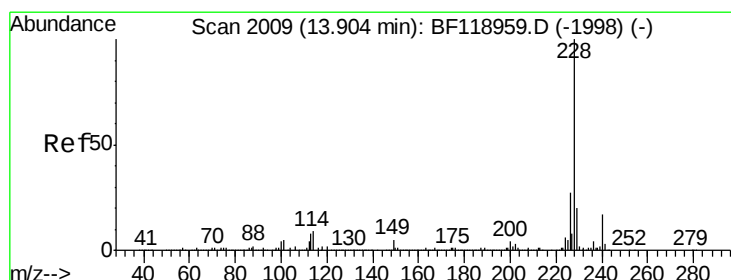
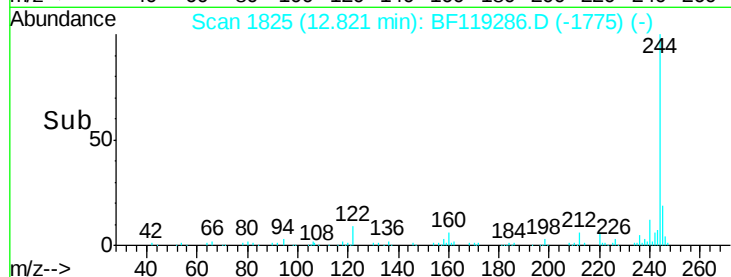
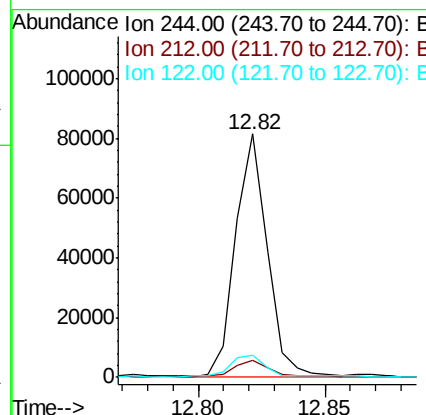
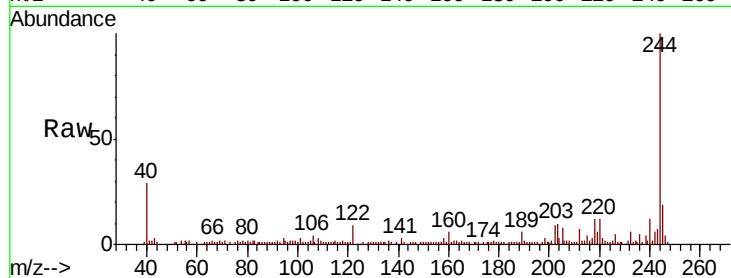
#79
 Terphenyl-d14
 Concen: 4.174 ng
 RT: 12.82 min Scan# 1825
 Delta R.T. -0.01 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
244	100		71443		
212	6.8	6.6	10.0		
122	9.2	8.2	12.2		

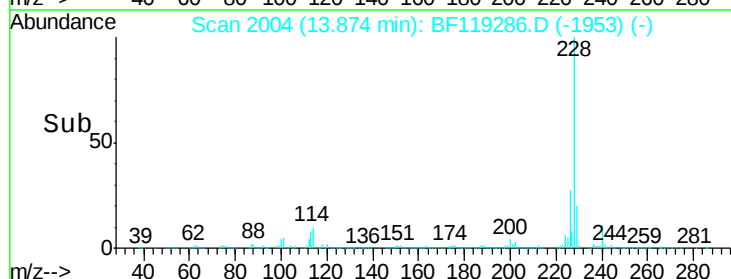
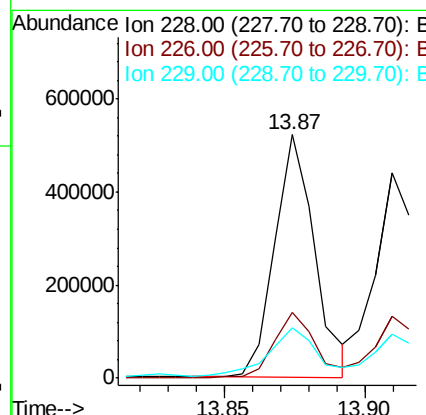
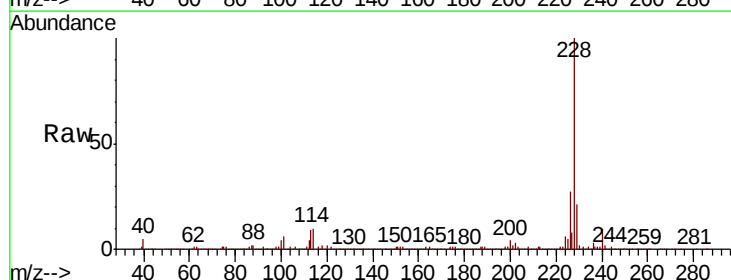
Manual Integrations
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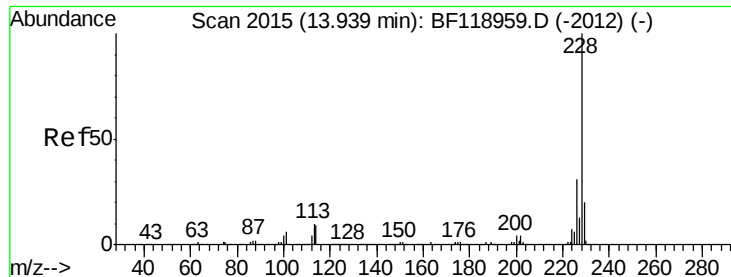
mohammad
 3/10/2020 2:44:10 PM



#81
 Benzo(a)anthracene
 Concen: 25.437 ng
 RT: 13.87 min Scan# 2004
 Delta R.T. 0.00 min
 Lab File: BF119286.D
 Acq: 9 Mar 2020 14:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
228	100		510733		
226	26.9	22.6	33.8		
229	20.7	16.6	24.8		





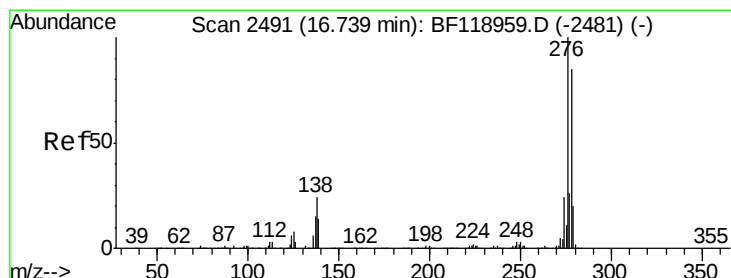
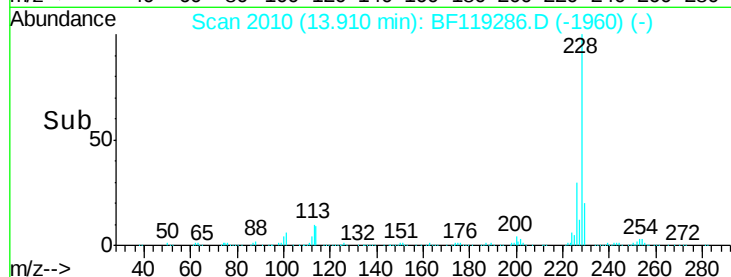
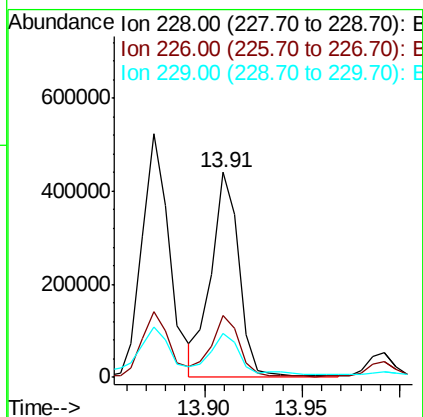
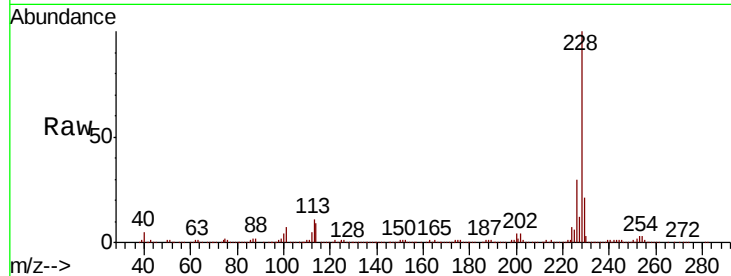
#83
Chrysene
Concen: 21.663 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.1	37.7
229	21.5	16.3	24.5

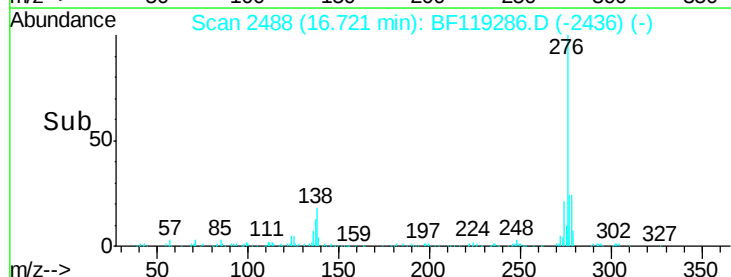
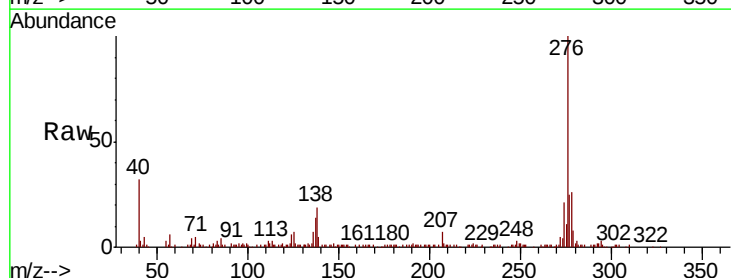
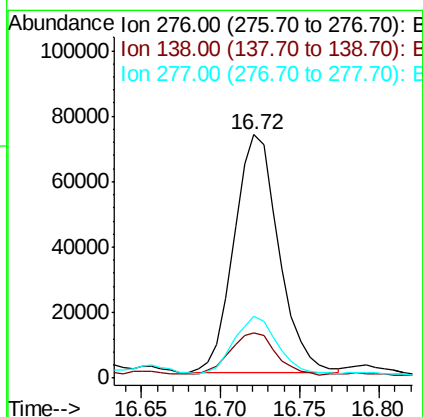
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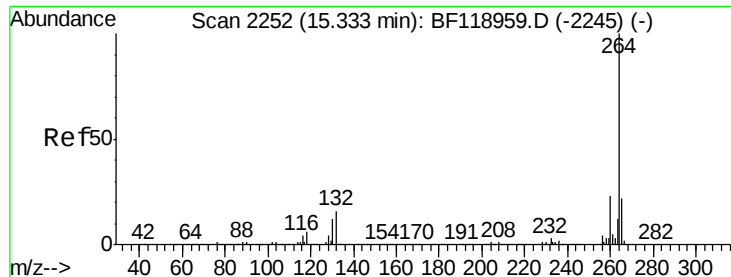
mohammad
3/10/2020 2:44:10 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 7.311 ng
RT: 16.72 min Scan# 2488
Delta R.T. 0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.5	17.4	26.0
277	24.0	20.3	30.5





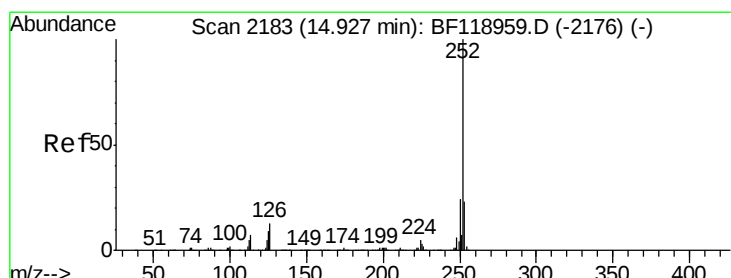
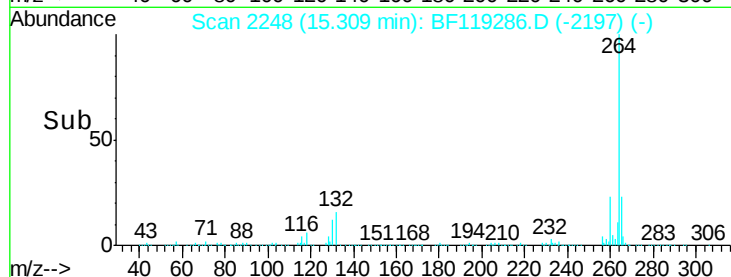
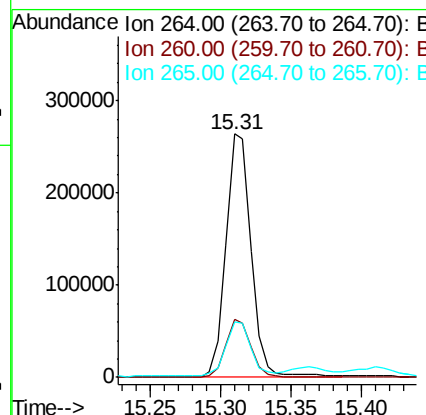
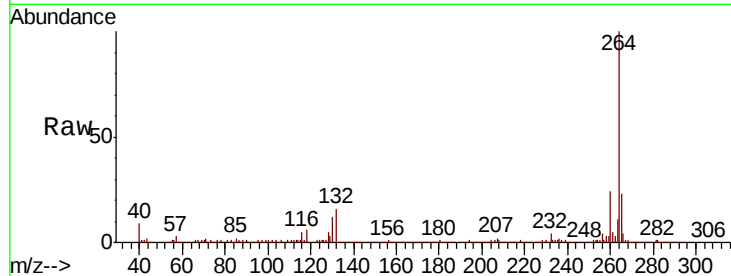
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.31 min Scan# 2248
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.2
265	23.0	17.7	26.5

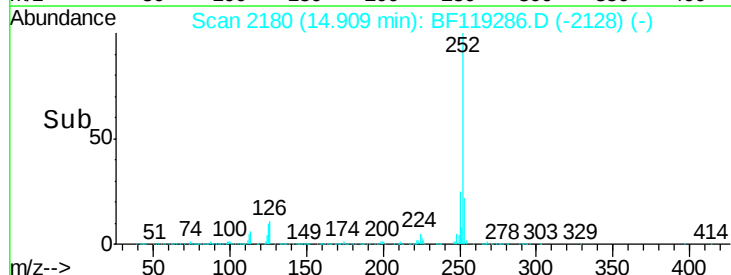
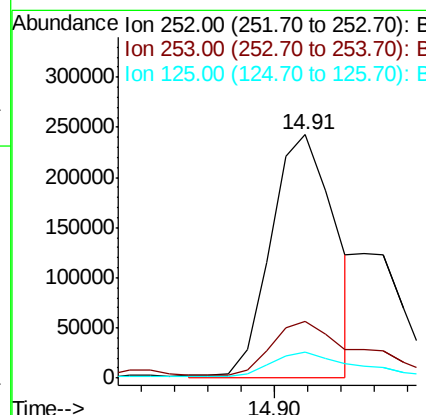
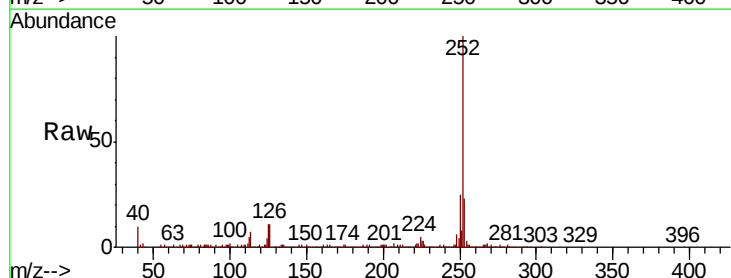
Manual Integrations
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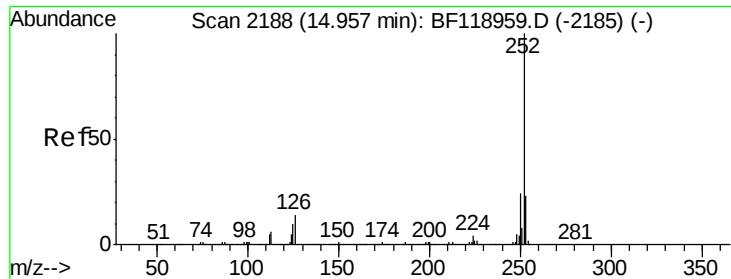
mohammad
3/10/2020 2:44:10 PM



#88
Benzo(b)fluoranthene
Concen: 15.267 ng m
RT: 14.91 min Scan# 2180
Delta R.T. 0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	10.5	7.4	11.0





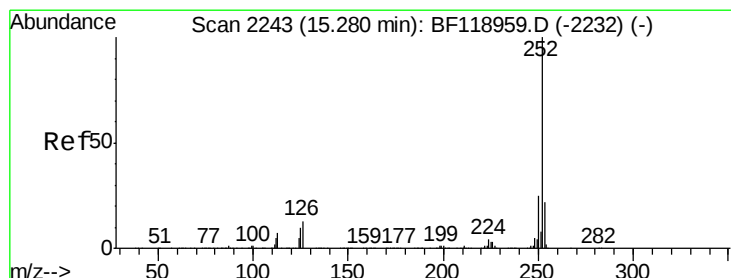
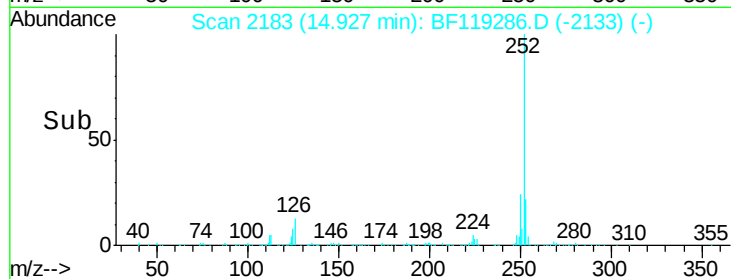
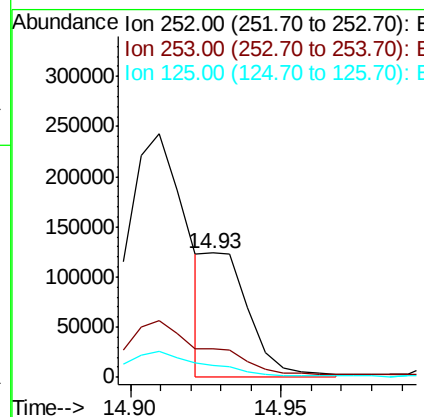
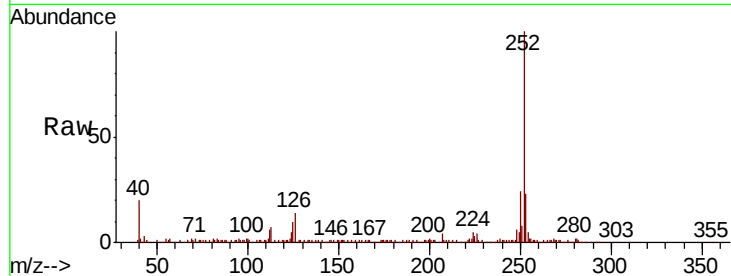
#89
Benzo(k)fluoranthene
Concen: 6.430 ng m
RT: 14.93 min Scan# 2183
Delta R.T. -0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.8
125	9.7	7.5	11.3

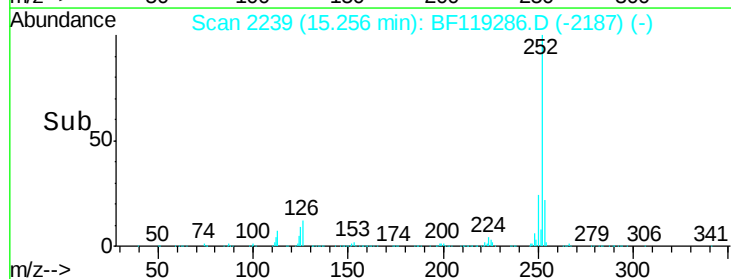
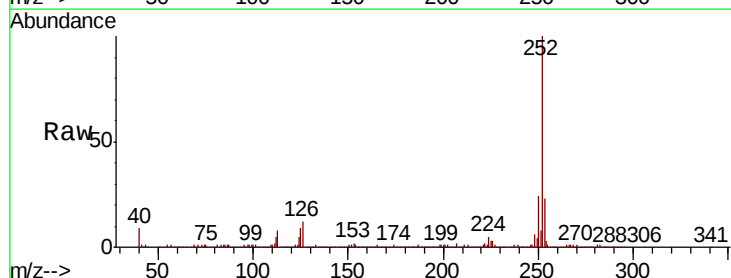
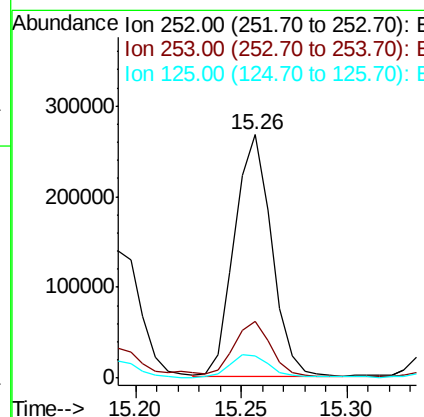
Manual Integrations
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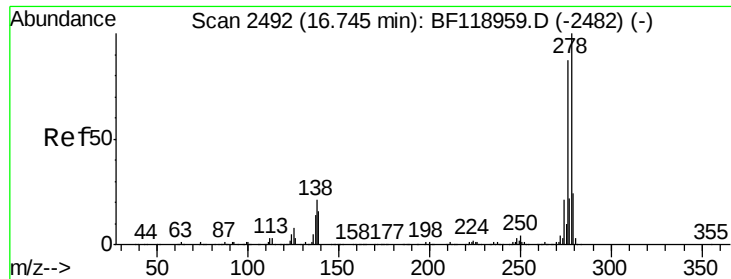
mohammad
3/10/2020 2:44:10 PM



#90
Benzo(a)pyrene
Concen: 16.925 ng
RT: 15.26 min Scan# 2239
Delta R.T. 0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.0	27.0
125	9.2	8.6	12.8





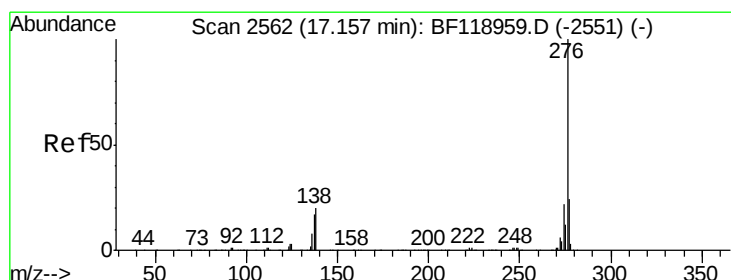
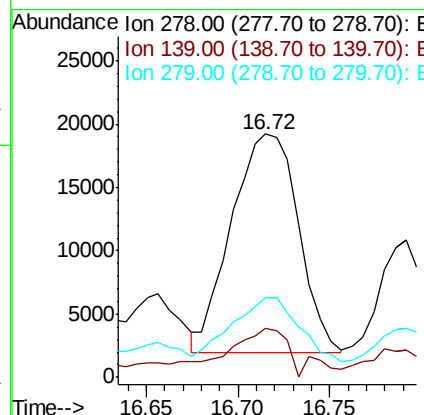
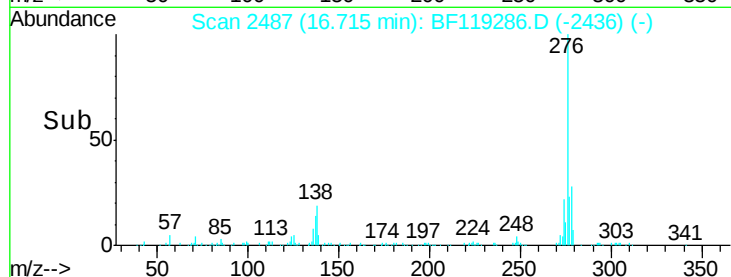
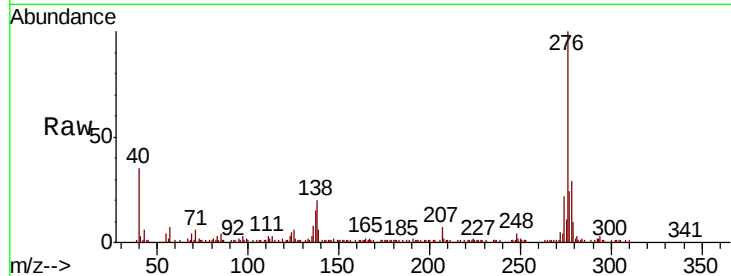
#91
Dibenzo(a,h)anthracene
Concen: 2.565 ng m
RT: 16.72 min Scan# 2487
Delta R.T. 0.00 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Instrument :
BNA_F
ClientSampleId :
SU-04-030420DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.3	11.0	16.4#
279	33.0	18.6	28.0#

Manual Integrations
APPROVED

mohammad
3/10/2020 2:44:10 PM



#92
Benzo(g,h,i)perylene
Concen: 7.932 ng
RT: 17.14 min Scan# 2560
Delta R.T. 0.01 min
Lab File: BF119286.D
Acq: 9 Mar 2020 14:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.7	28.1
138	19.4	14.3	21.5

