

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
 Data File : BF118629.D
 Acq On : 21 Jan 2020 10:22
 Operator : CG/JU
 Sample : L1148-14 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-35-(5-7)

Manual Integrations
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Quant Time: Jan 21 11:40:04 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 20 14:45:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	340777	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	1206106	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	605081	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	950213	20.00	ng	0.00
76) Chrysene-d12	14.05	240	858253	20.00	ng	0.00
87) Perylene-d12	15.53	264	941733	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	353890	19.29	ng	0.00
7) Phenol-d6	6.50	99	461686	19.36	ng	-0.01
23) Nitrobenzene-d5	7.44	82	250039	11.60	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	103594	14.80	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	420650	11.43	ng	0.00
79) Terphenyl-d14	12.99	244	411575	10.46	ng	0.00
Target Compounds						
3) Pyridine	3.45	79	86256	3.444	ng	Qvalue 94
20) 3+4-Methylphenols	7.27	107	88955	4.247	ng	# 66
27) 2,4-Dimethylphenol	7.83	122	39700	2.442	ng	# 91
31) Naphthalene	8.19	128	525227	9.640	ng	97
37) 2-Methylnaphthalene	8.88	142	102473	2.665	ng	97
38) 1-Methylnaphthalene	8.98	142	77213	2.113	ng	98
49) Acenaphthylene	9.78	152	354312	7.165	ng	94
58) Fluorene	10.47	166	146559	4.074	ng	99
71) Phenanthrene	11.43	178	1164772	25.408	ng	95
72) Anthracene	11.49	178	317844	7.007	ng	94
75) Fluoranthene	12.63	202	1719806	35.570	ng	96
78) Pylene	12.86	202	1879408	32.255	ng	94
81) Benzo(a)anthracene	14.04	228	996444m	19.300	ng	
83) Chrysene	14.07	228	882125	17.828	ng	97
86) Indeno(1,2,3-cd)pyrene	17.01	276	516047	12.003	ng	97
88) Benzo(b)fluoranthene	15.10	252	1323379m	22.356	ng	
89) Benzo(k)fluoranthene	15.12	252	364578m	6.648	ng	
90) Benzo(a)pyrene	15.47	252	887767	17.386	ng	100
91) Dibenzo(a,h)anthracene	17.02	278	125574	2.780	ng	# 90
92) Benzo(a,h,i)perylene	17.46	276	485054	11.060	ng	98

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

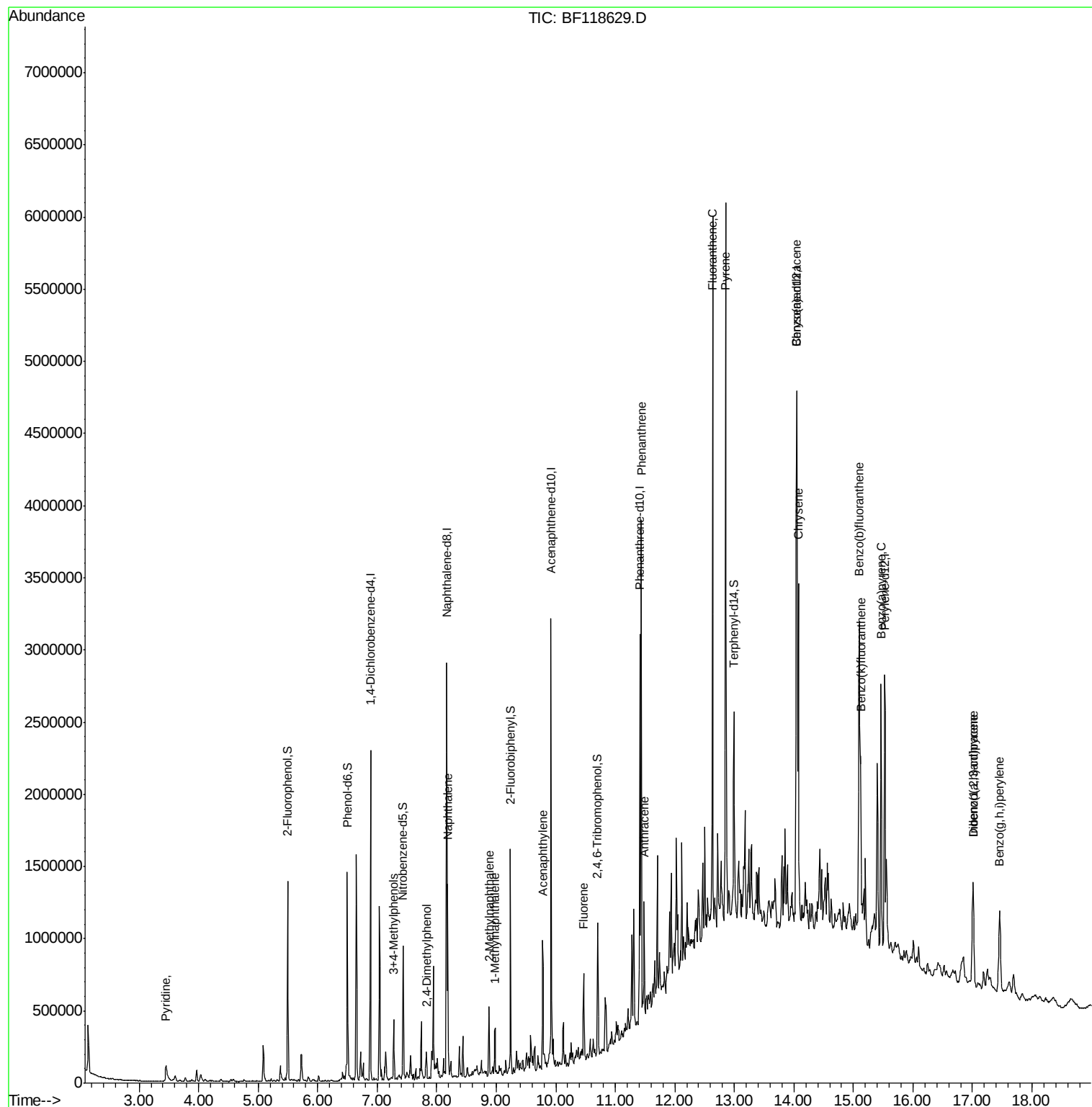
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012020\
Data File : BF118629.D
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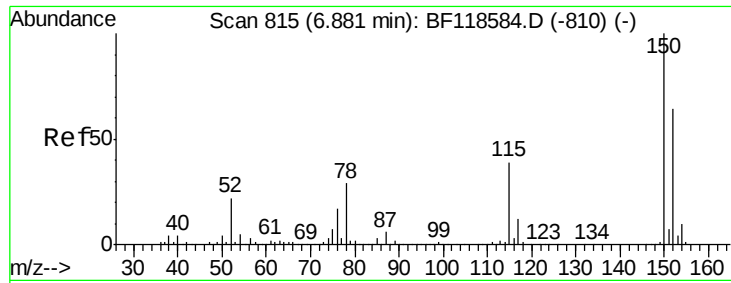
Instrument :
BNA_F
ClientSampled :
SB-35-(5-7)

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Quant Time: Jan 21 11:40:04 2020
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jan 20 14:45:03 2020
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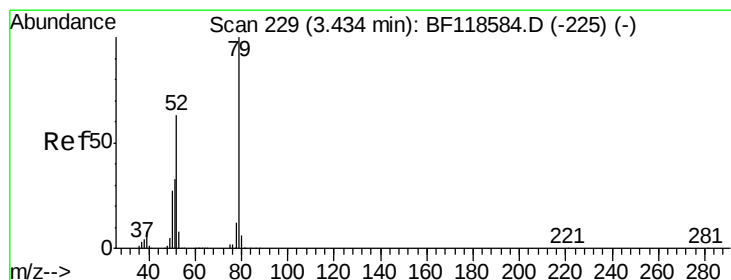
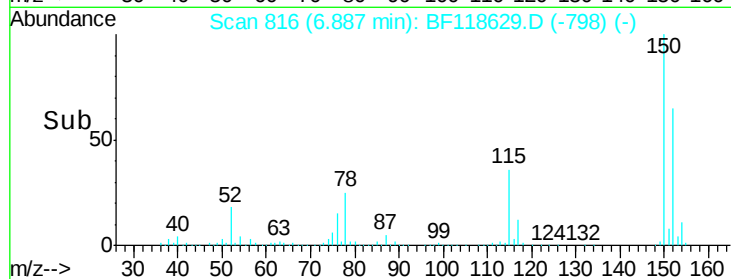
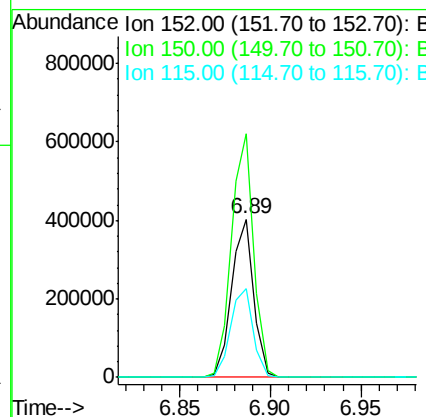
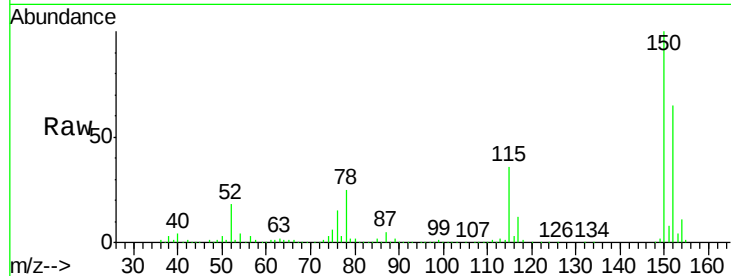
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.89 min Scan# 816
 Delta R.T. 0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Instrument :
 BNA_F
 ClientSampleId :
 SB-35-(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.6	188.4
115	56.2	48.4	72.6

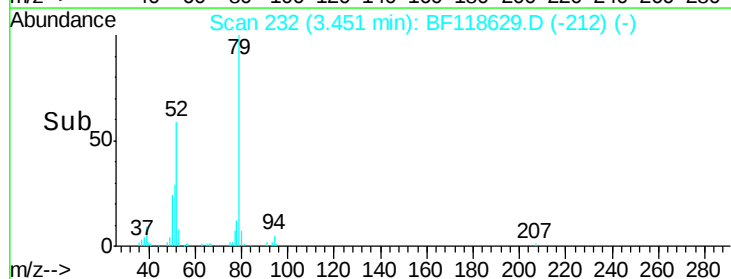
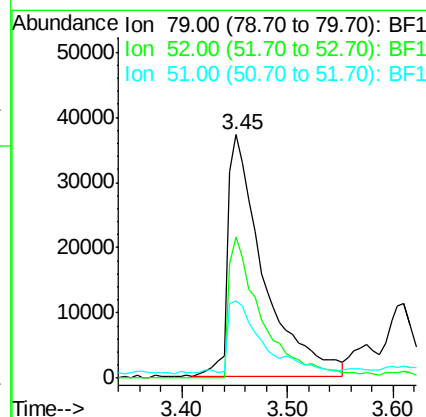
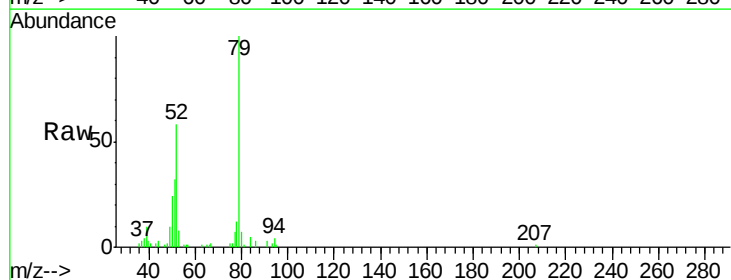
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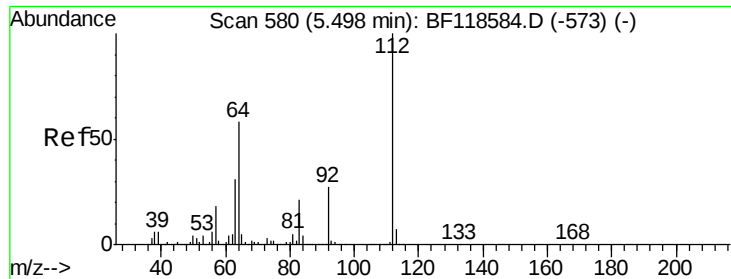
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#3
 Pyridine
 Concen: 3.444 ng
 RT: 3.45 min Scan# 232
 Delta R.T. 0.02 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
79	100		
52	58.0	50.7	76.1
51	31.6	26.6	40.0





#5

2-Fluorophenol

Concen: 19.287 ng

RT: 5.50 min Scan# 580

Delta R.T. 0.00 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

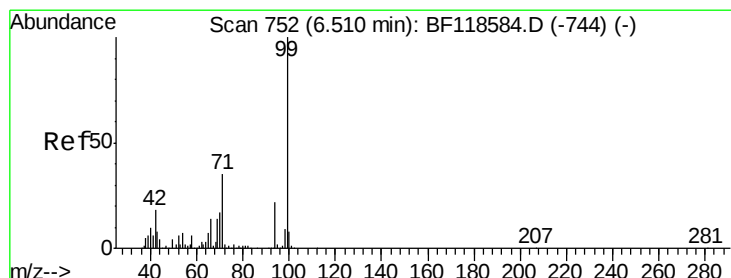
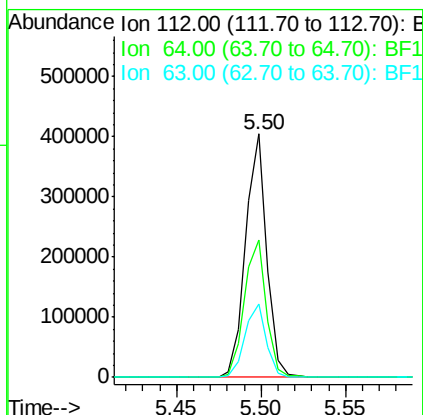
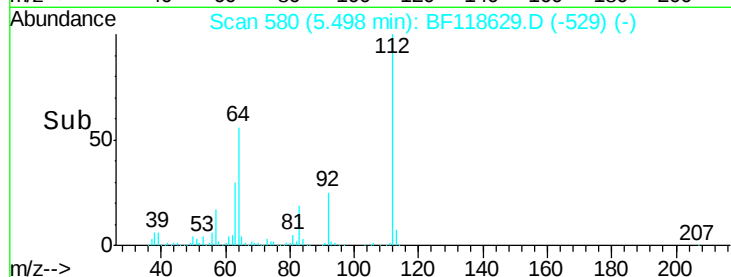
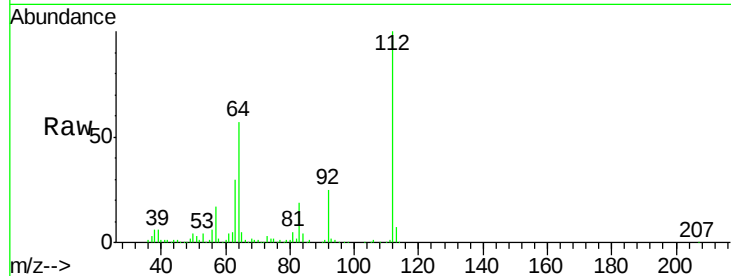
ClientSampleId :

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
112	100		353890		
64	56.6	46.6	70.0		
63	30.3	25.1	37.7		

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#7

Phenol-d6

Concen: 19.359 ng

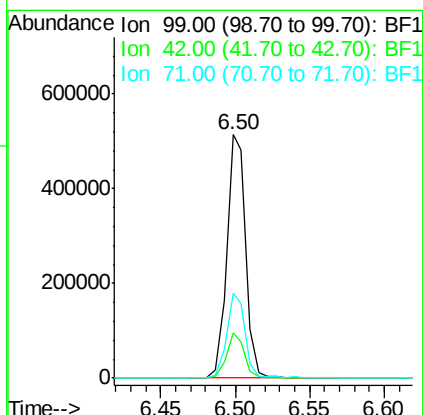
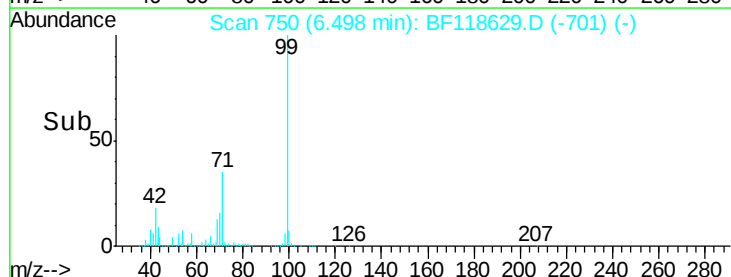
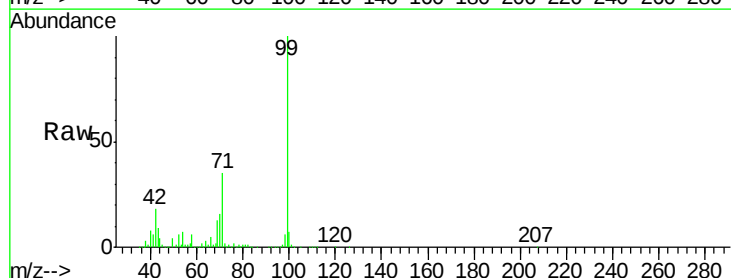
RT: 6.50 min Scan# 750

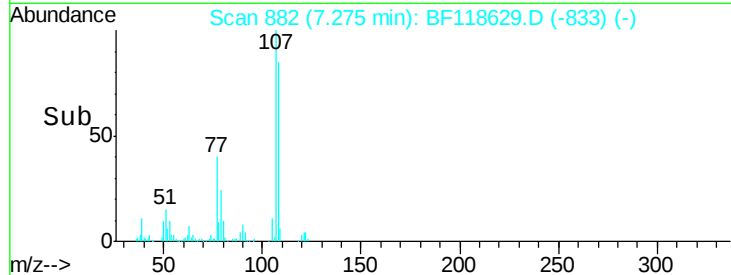
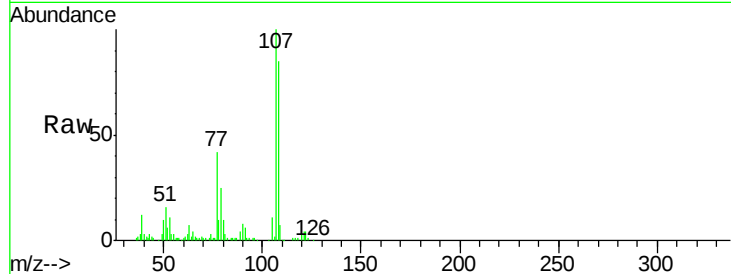
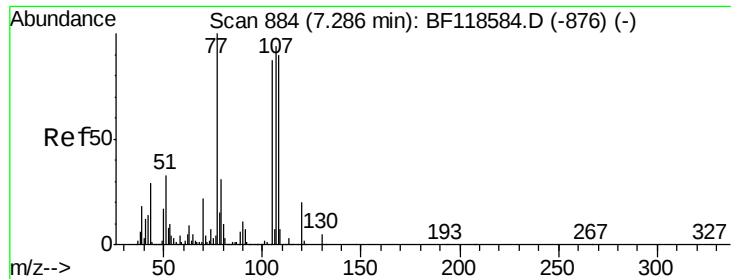
Delta R.T. -0.01 min

Lab File: BF118629.D

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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		461686		
42	18.4	14.2	21.2		
71	34.9	27.8	41.6		





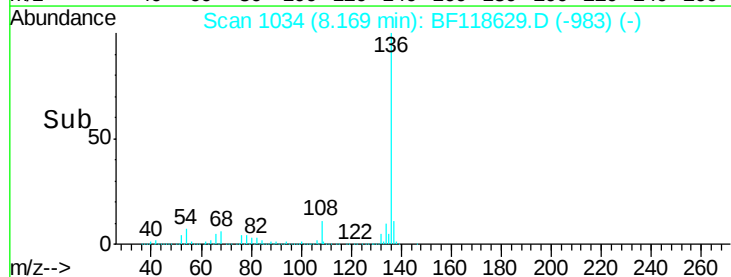
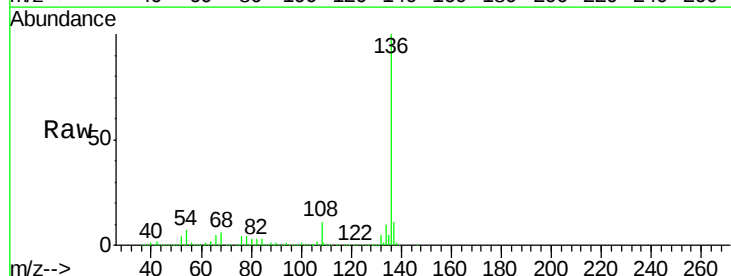
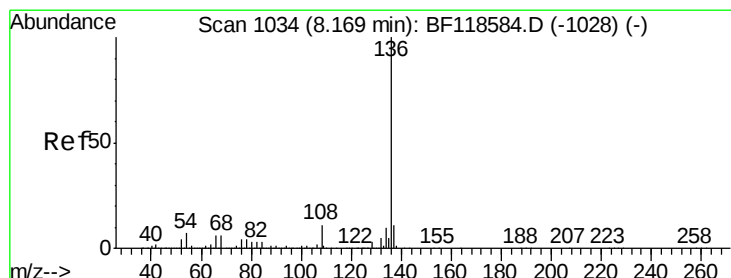
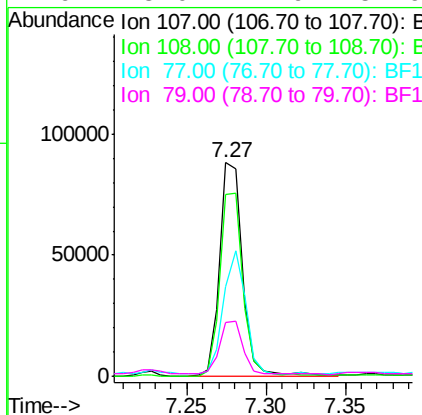
#20
3+4-Methylphenols
Concen: 4.247 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	85.4	75.8	115.8	
77	42.1	86.5	126.5	
79	25.0	12.9	52.9	

Instrument :
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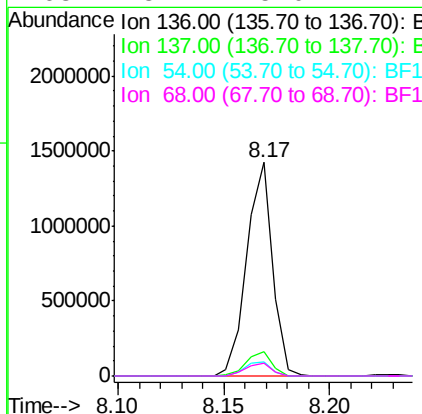
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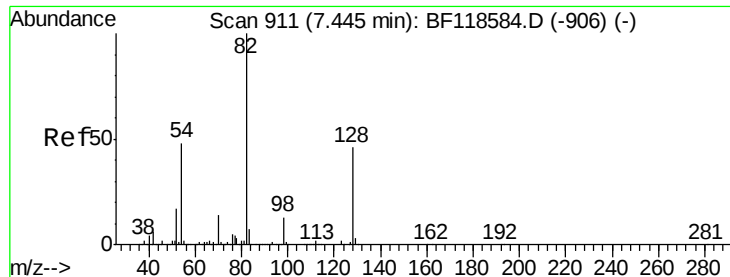
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#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.17 min Scan# 1034
Delta R.T. 0.00 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.5	9.1	13.7	
54	6.9	5.8	8.6	
68	5.7	5.0	7.4	





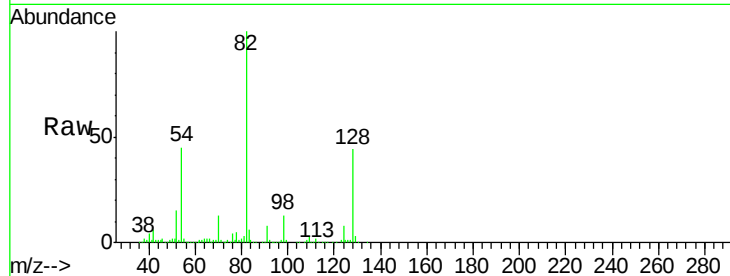
#23
 Nitrobenzene-d5
 Concen: 11.596 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Instrument :
 BNA_F
 ClientSampleId :
 SB-35-(5-7)

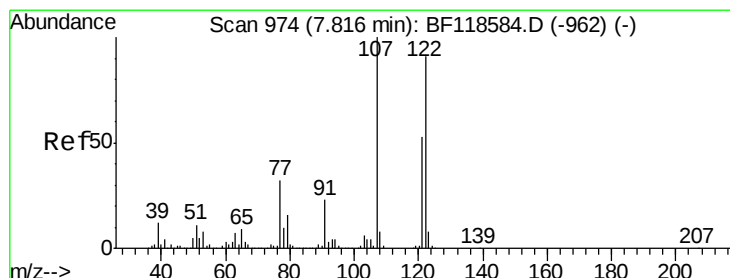
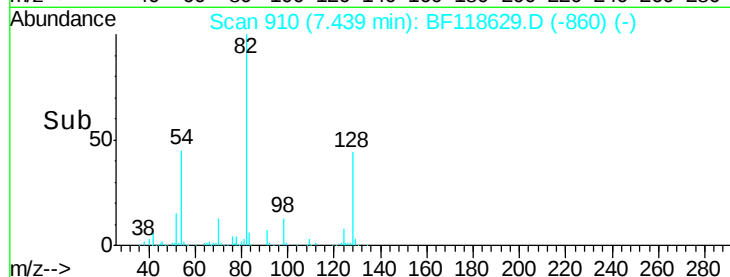
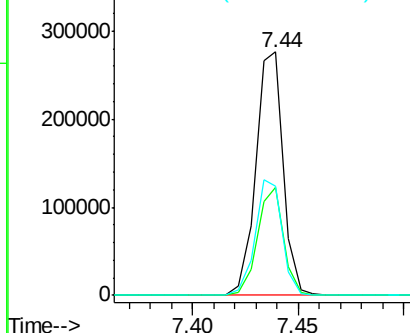
Tot Ion	Ratio	Lower	Upper
82	100		
128	44.2	36.6	54.8
54	44.8	38.0	57.0

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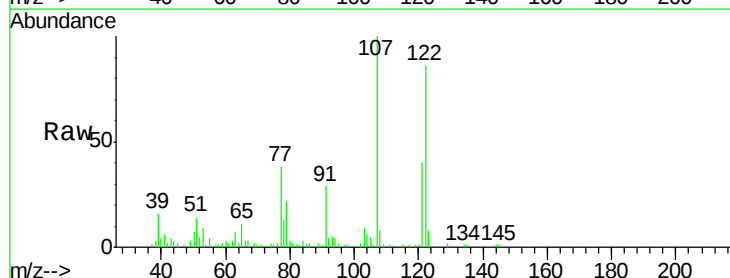


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

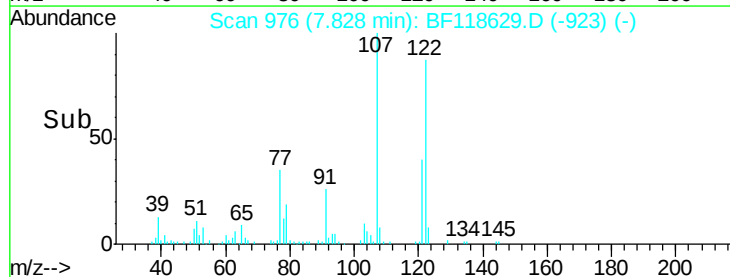
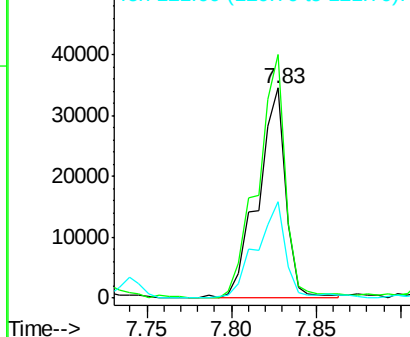


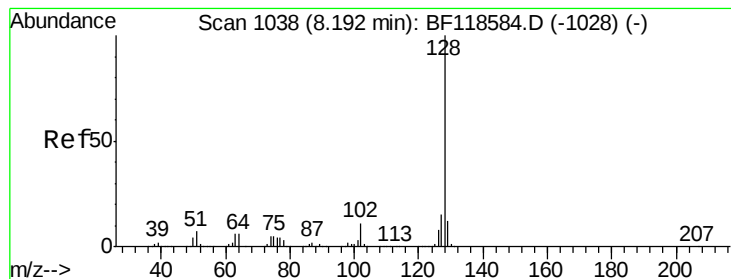
#27
 2,4-Dimethylphenol
 Concen: 2.442 ng
 RT: 7.83 min Scan# 976
 Delta R.T. 0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
122	100		
107	116.0	88.0	132.0
121	46.0	46.3	69.5#



Abundance Ion 122.00 (121.70 to 122.70): E
 Ion 107.00 (106.70 to 107.70): E
 Ion 121.00 (120.70 to 121.70): E





#31

Naphthalene

Concen: 9.640 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

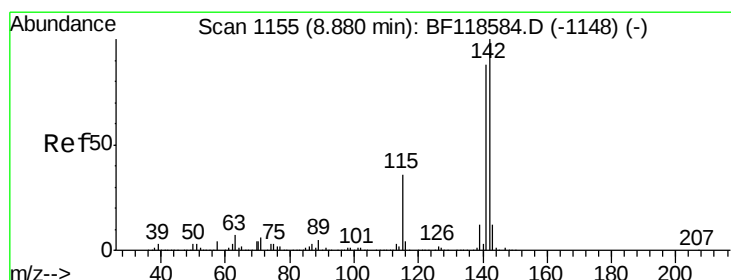
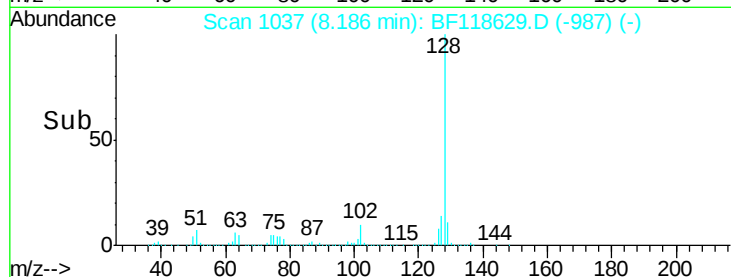
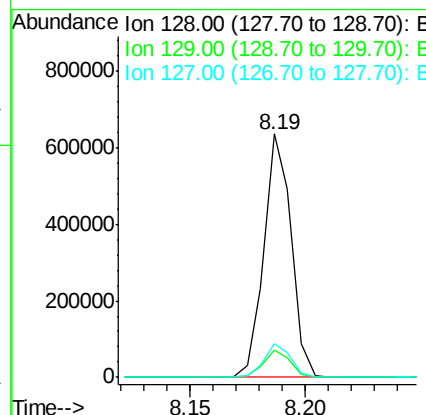
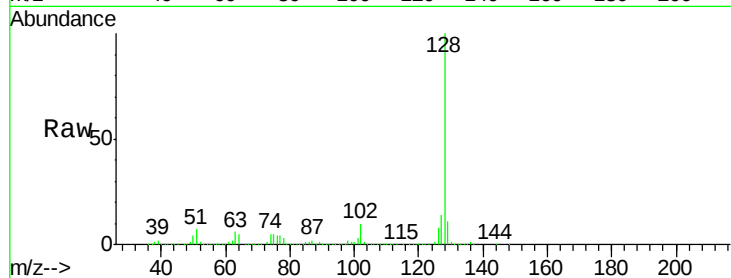
ClientSampleId :

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Tot Ion:	128	Resp:	525227
Ion Ratio		Lower	Upper
128	100		
129	11.4	9.9	14.9
127	13.6	12.0	18.0

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#37

2-Methylnaphthalene

Concen: 2.665 ng

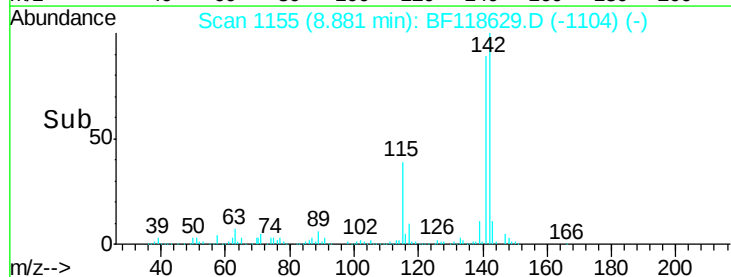
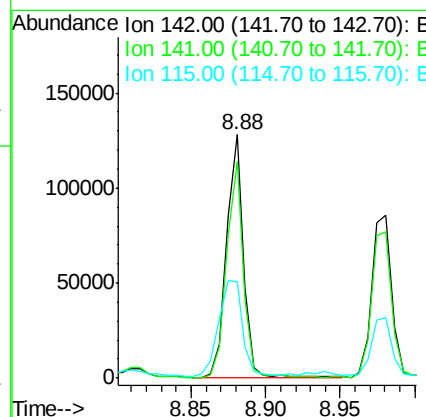
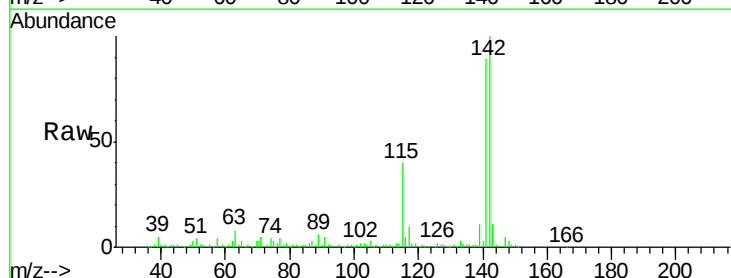
RT: 8.88 min Scan# 1155

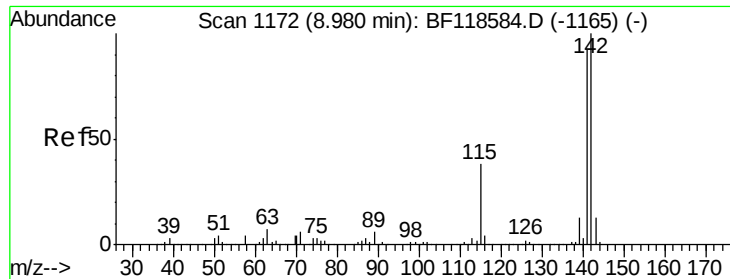
Delta R.T. 0.00 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Tgt Ion:	142	Resp:	102473
Ion Ratio		Lower	Upper
142	100		
141	89.1	70.7	106.1
115	39.7	28.5	42.7





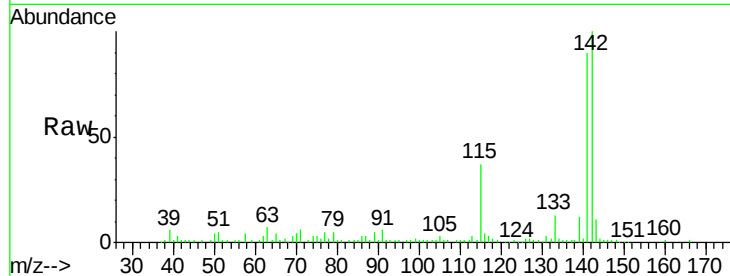
#38
1-Methylnaphthalene
Concen: 2.113 ng
RT: 8.98 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Instrument :
BNA_F
ClientSampleId :
SB-35-(5-7)

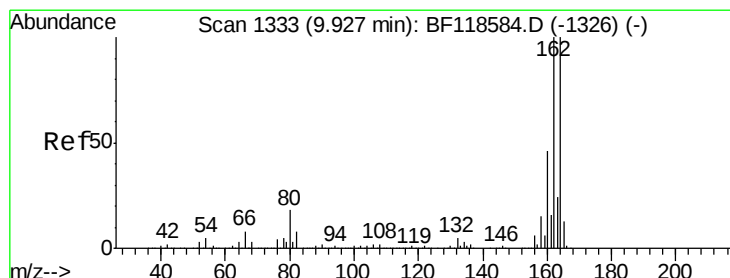
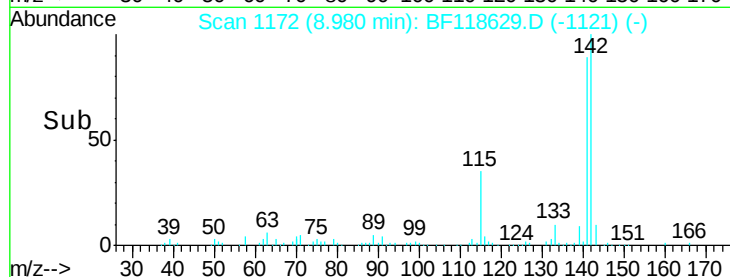
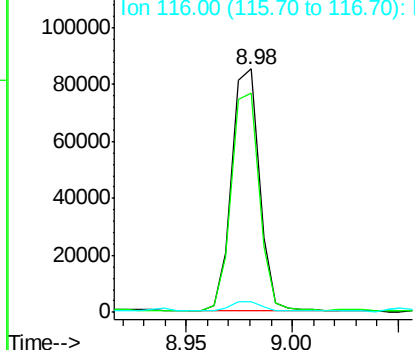
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	73.4	110.2
116	4.3	3.3	4.9

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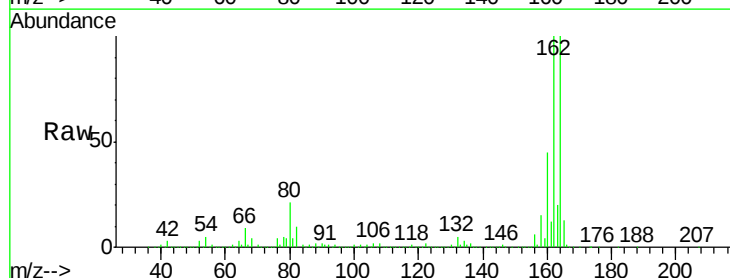


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E

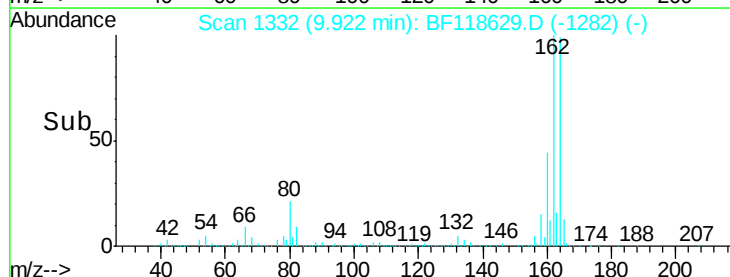
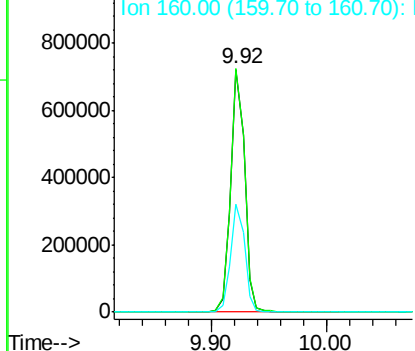


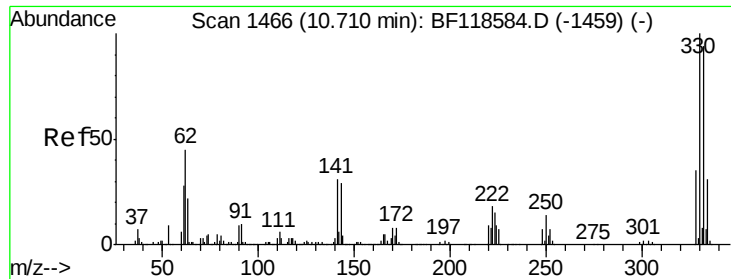
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.4	120.6
160	44.7	36.6	55.0



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





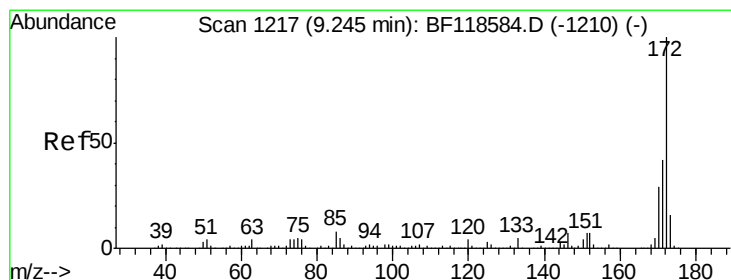
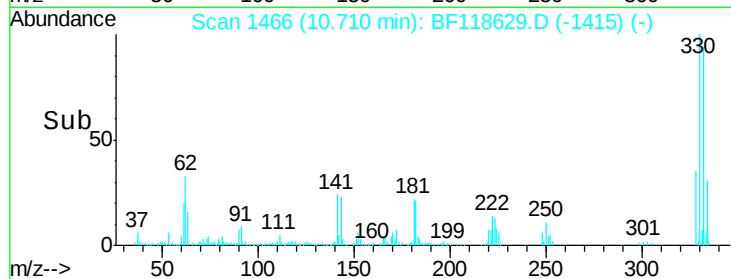
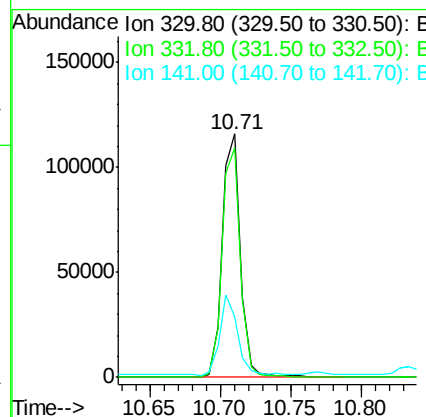
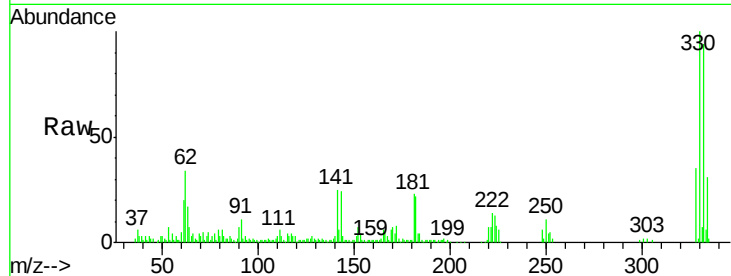
#42
 2,4,6-Tribromophenol
 Concen: 14.802 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Instrument :
 BNA_F
 ClientSampleId :
 SB-35-(5-7)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	94.7	76.2	114.4	
141	32.1	23.9	35.9	

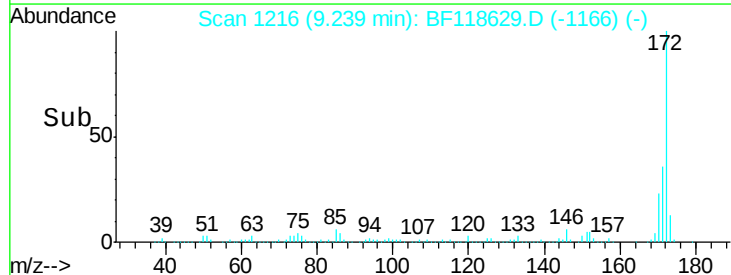
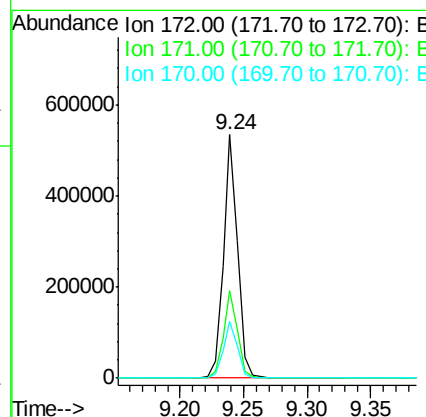
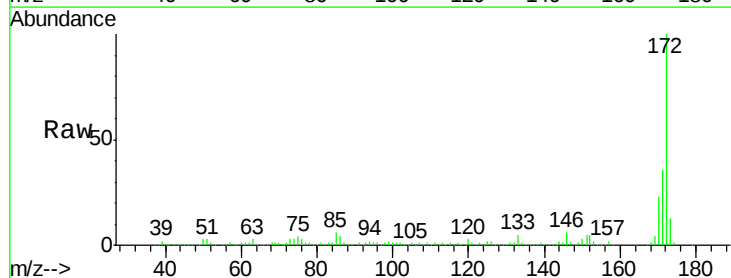
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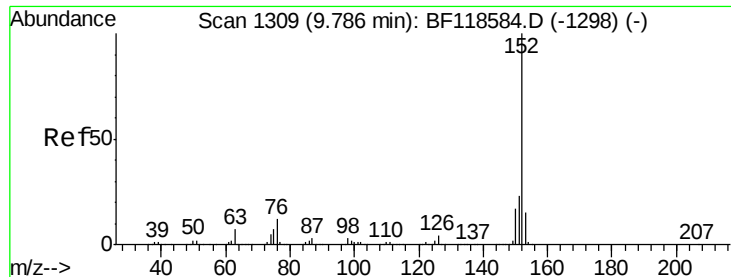
mohammad
 1/21/2020 2:27:08 PM



#45
 2-Fluorobiphenyl
 Concen: 11.426 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.9	33.4	50.2	
170	23.4	23.2	34.8	





#49

Acenaphthylene

Concen: 7.165 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

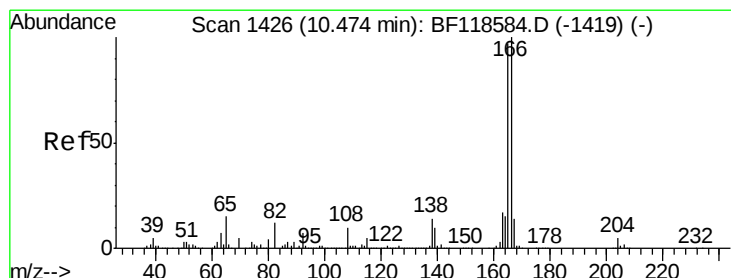
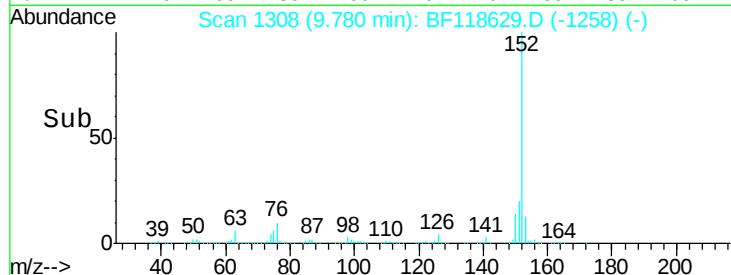
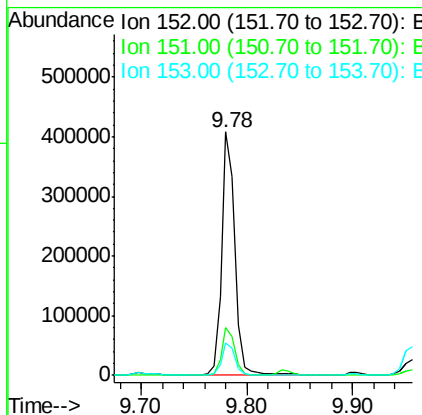
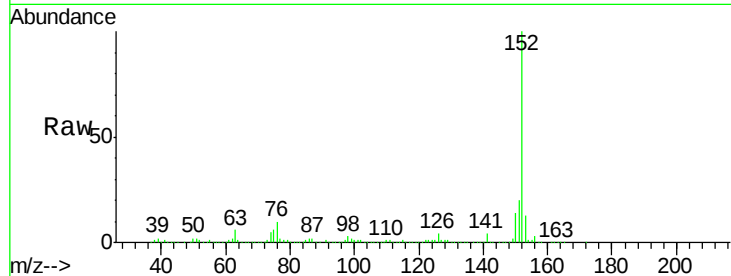
ClientSampled :

SB-35-(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.6	18.6	27.8
153	13.3	12.2	18.4

Manual Integrations
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#58

Fluorene

Concen: 4.074 ng

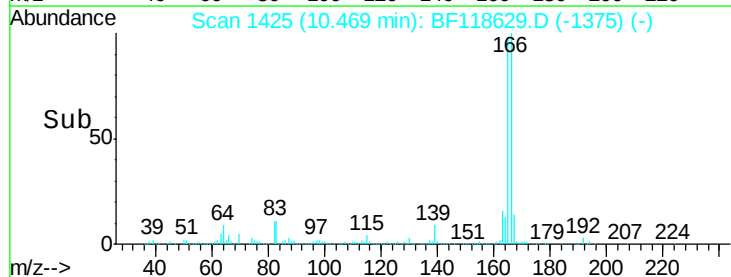
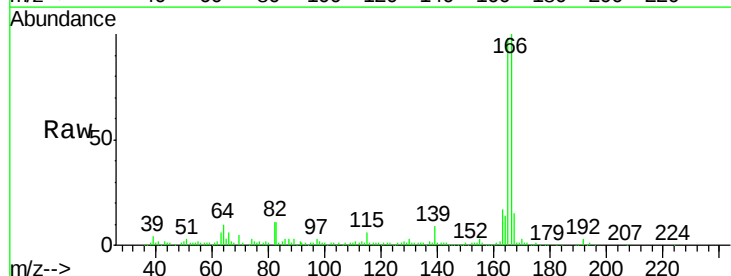
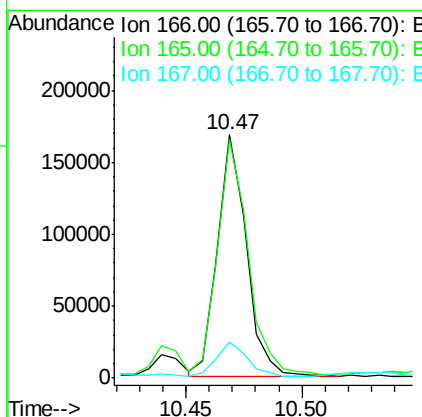
RT: 10.47 min Scan# 1425

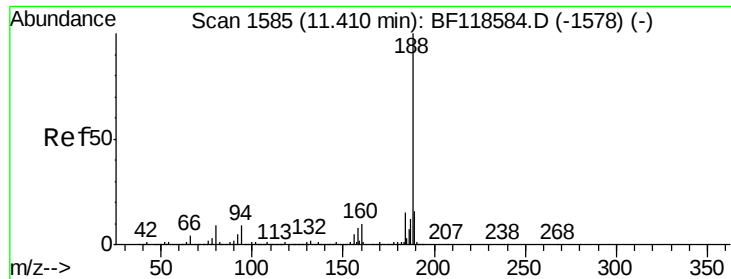
Delta R.T. -0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.0	77.3	115.9
167	14.9	11.5	17.3





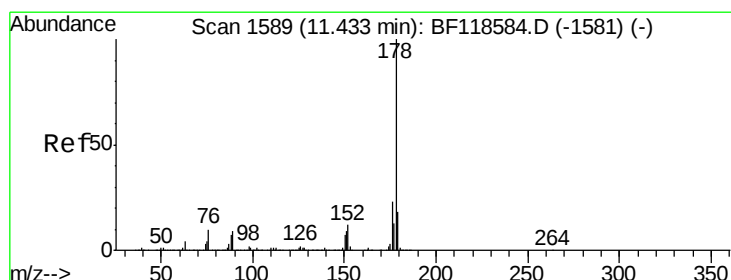
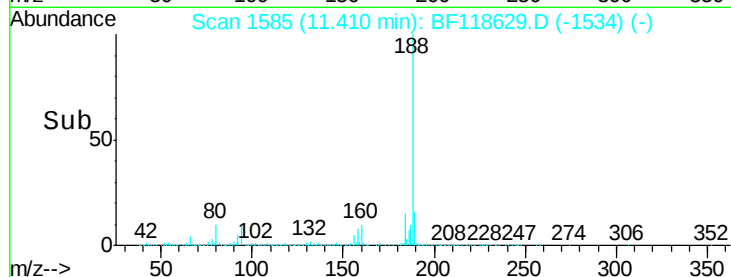
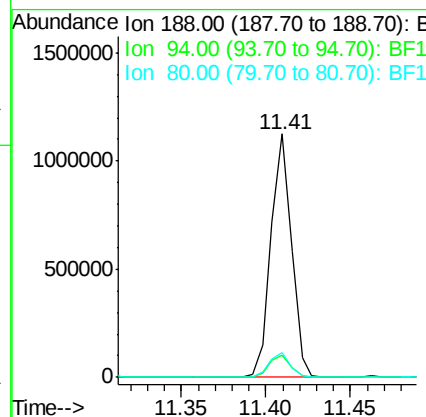
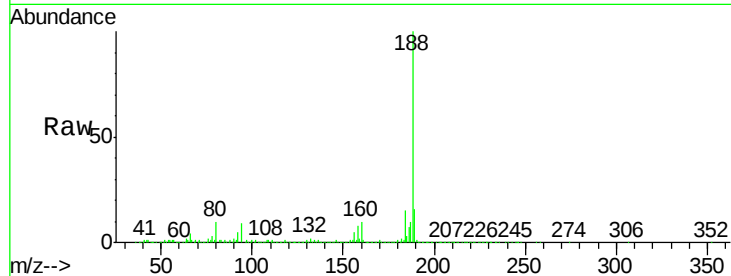
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Instrument :
BNA_F
ClientSampleId :
SB-35-(5-7)

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	8.9	7.1	10.7
80	10.2	7.5	11.3

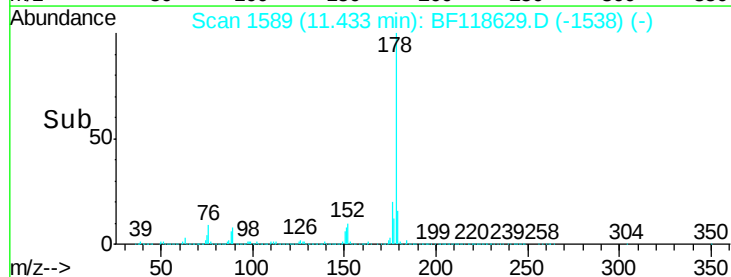
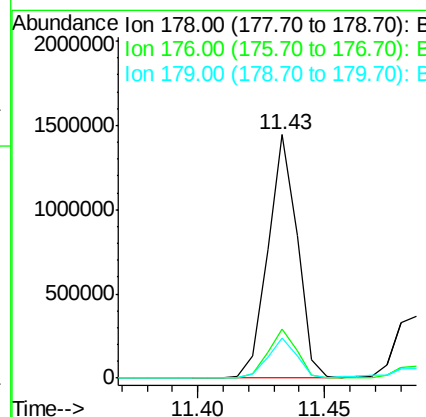
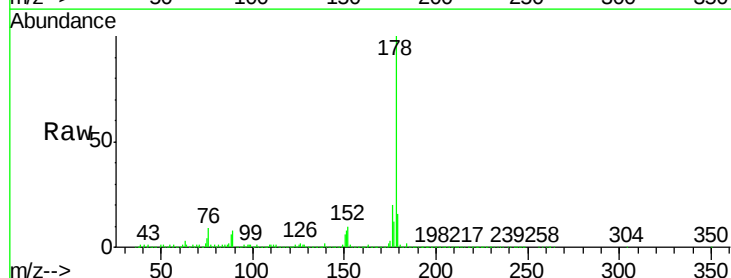
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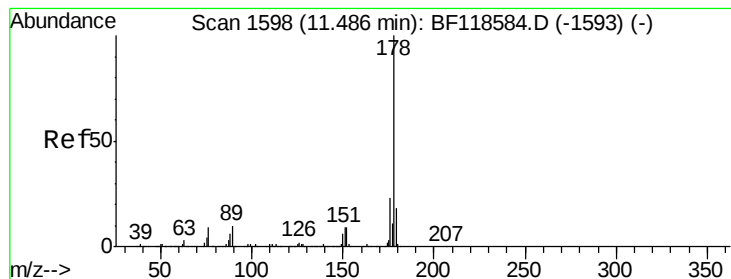
mohammad
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#71
Phenanthrene
Concen: 25.408 ng
RT: 11.43 min Scan# 1589
Delta R.T. 0.00 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.3	18.6	27.8
179	16.2	14.7	22.1





#72

Anthracene

Concen: 7.007 ng

RT: 11.49 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

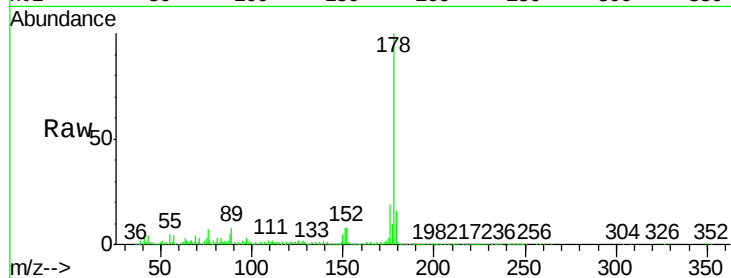
ClientSampleId :

SB-35-(5-7)

Tot Ion:	178	Resp:	317844
Ion Ratio	Lower	Upper	
178	100		
176	19.2	18.0	27.0
179	15.8	14.7	22.1

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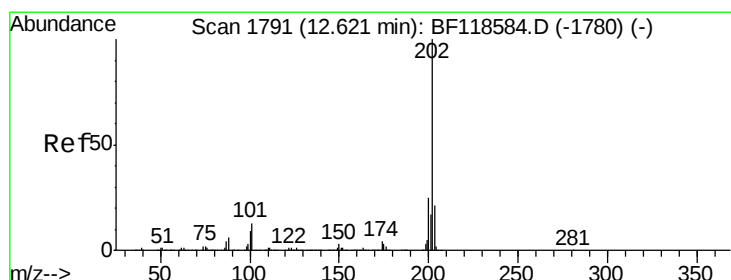
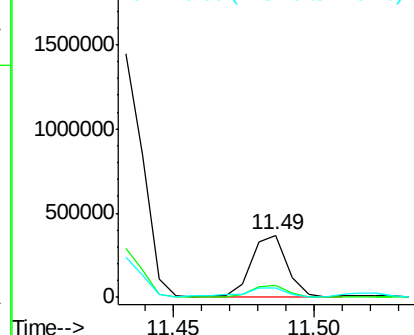
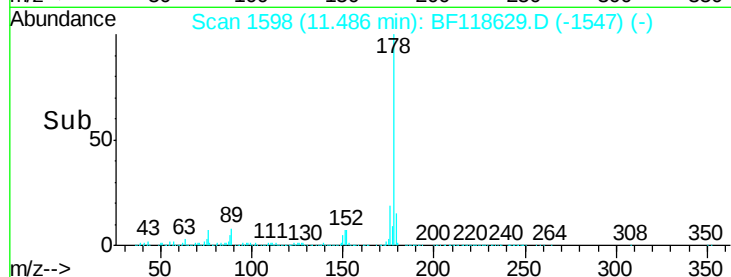


Abundance

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



#75

Fluoranthene

Concen: 35.570 ng

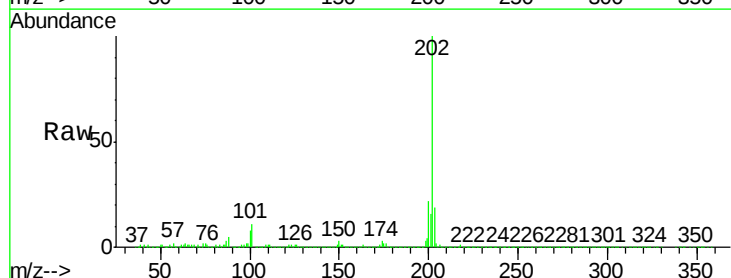
RT: 12.63 min Scan# 1793

Delta R.T. 0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Tgt Ion:	202	Resp:	1719806
Ion Ratio	Lower	Upper	
202	100		
101	11.0	0.0	32.5
203	18.9	0.8	40.8

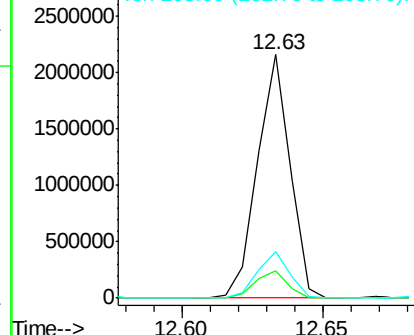
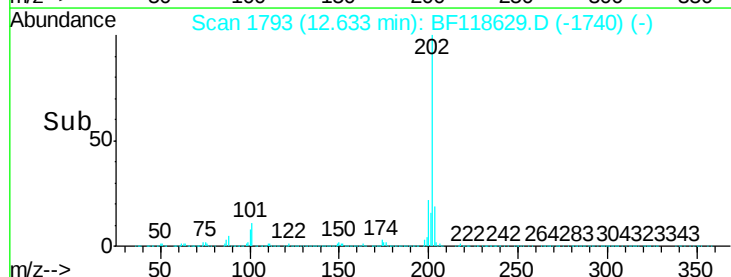


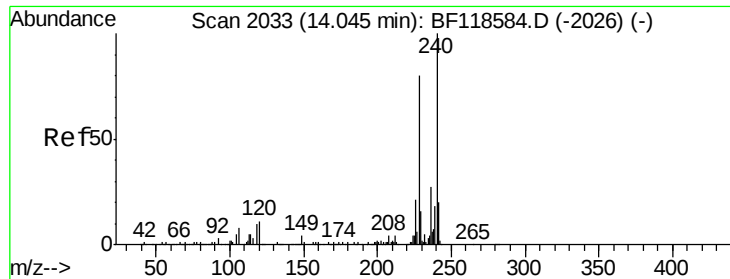
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





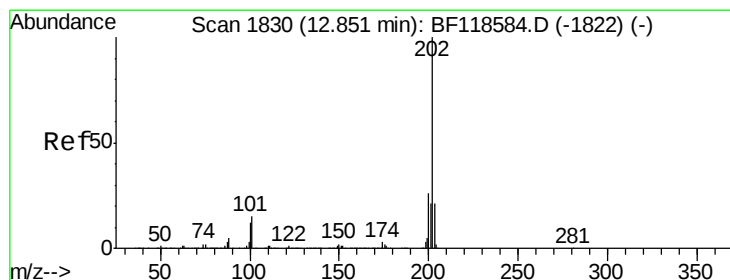
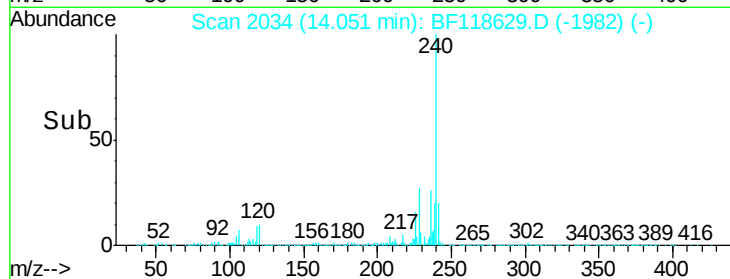
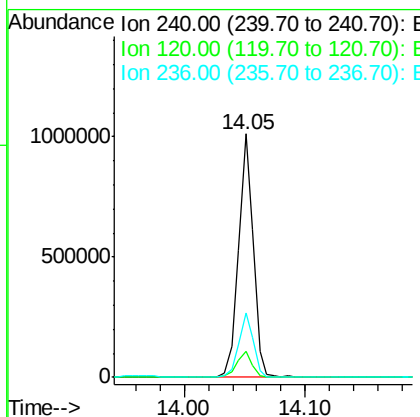
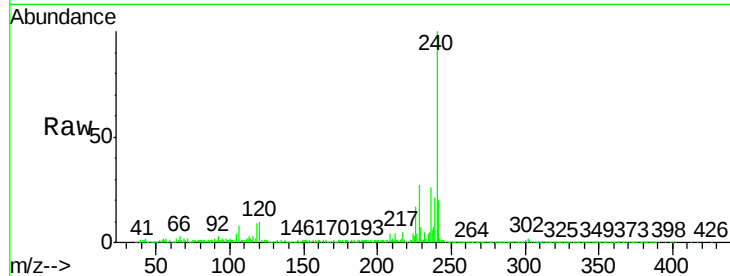
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.05 min Scan# 2034
 Delta R.T. 0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Instrument :
 BNA_F
 ClientSampled :
 SB-35-(5-7)

Tot Ion	Ratio	Resp	Lower	Upper
240	100			
120	10.5	8.9	13.3	
236	26.3	21.5	32.3	

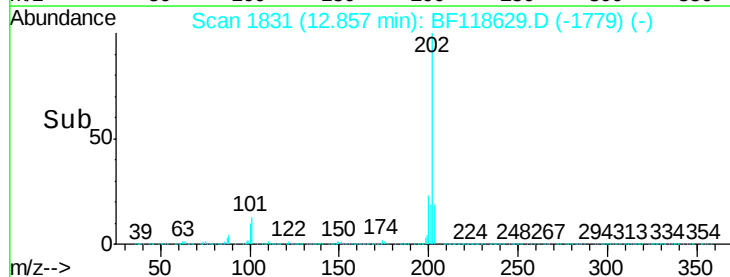
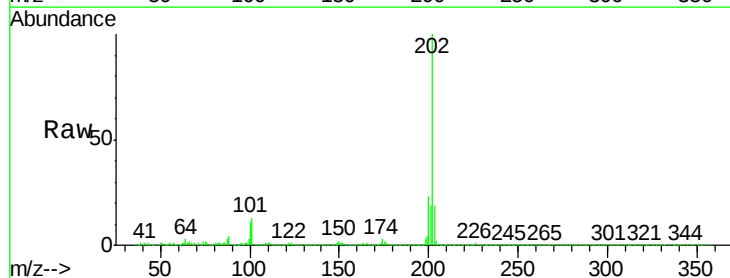
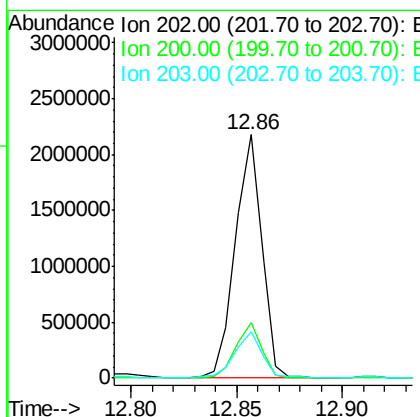
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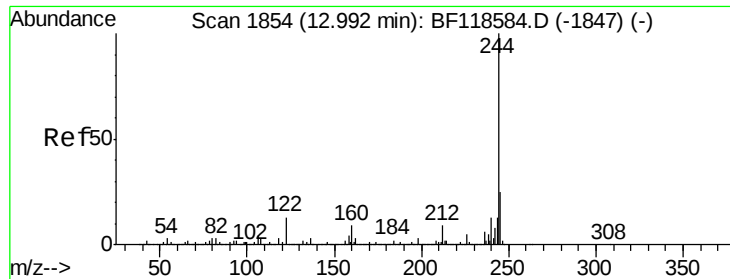
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#78
 Pyrene
 Concen: 32.255 ng
 RT: 12.86 min Scan# 1831
 Delta R.T. 0.01 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
200	22.5	20.6	31.0	
203	18.9	16.8	25.2	





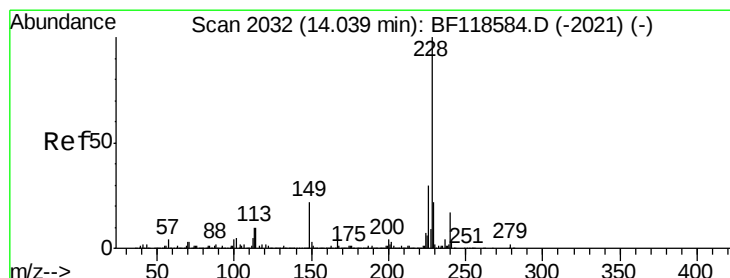
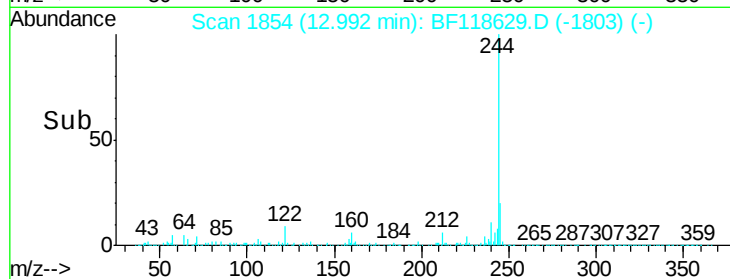
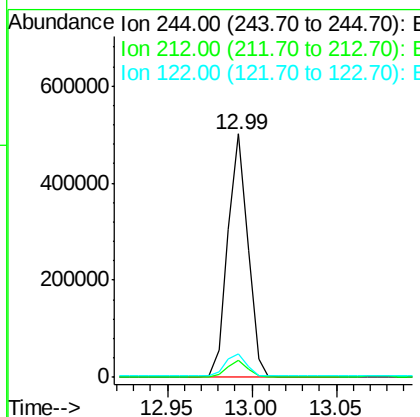
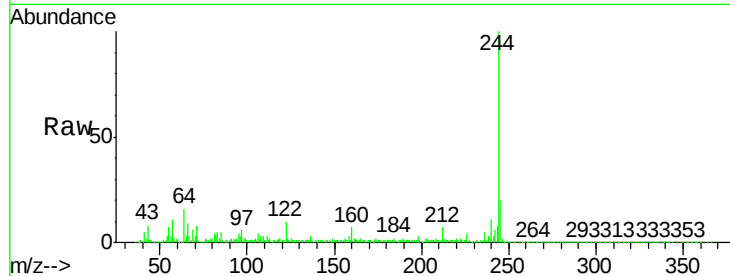
#79
 Terphenyl-d14
 Concen: 10.459 ng
 RT: 12.99 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Instrument :
 BNA_F
 ClientSampleId :
 SB-35-(5-7)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	7.0	10.4#
122	9.8	10.7	16.1#

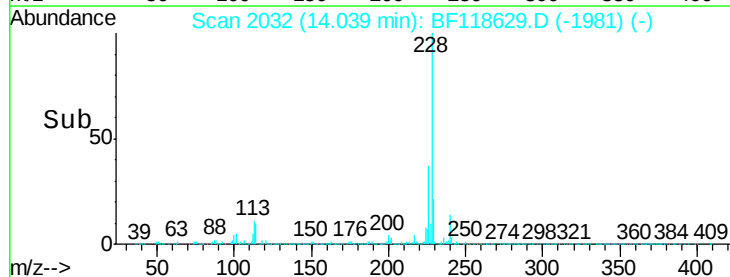
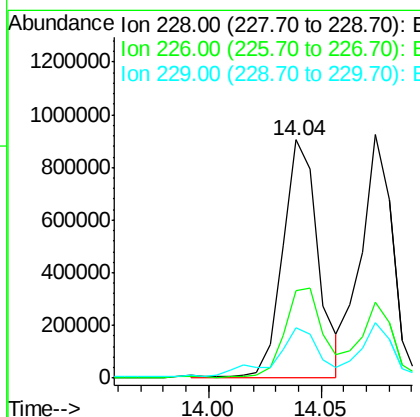
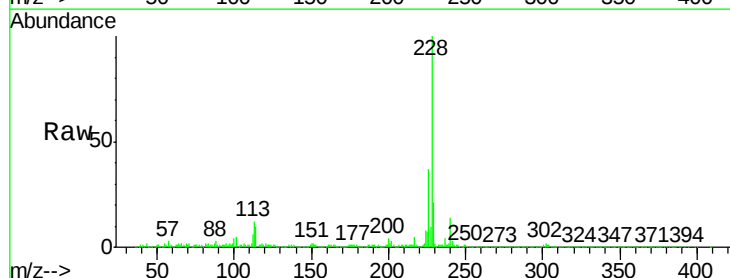
Manual Integrations
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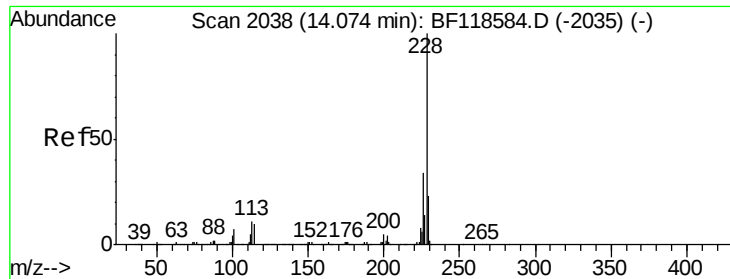
mohammad
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#81
 Benzo(a)anthracene
 Concen: 19.300 ng m
 RT: 14.04 min Scan# 2032
 Delta R.T. 0.00 min
 Lab File: BF118629.D
 Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.8	24.1	36.1#
229	21.2	17.6	26.4





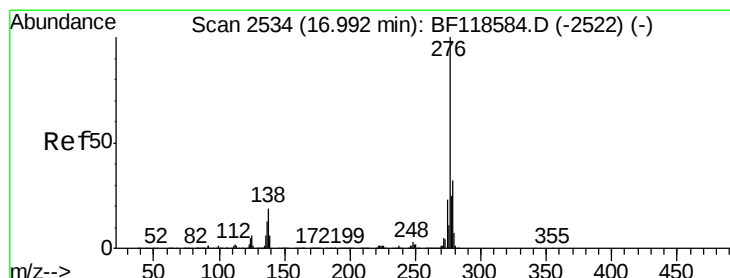
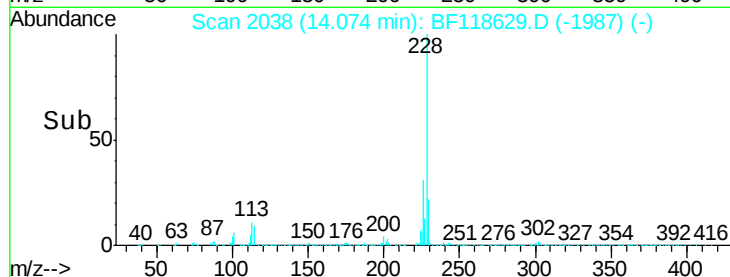
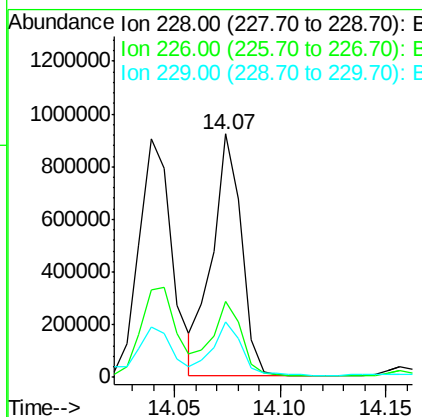
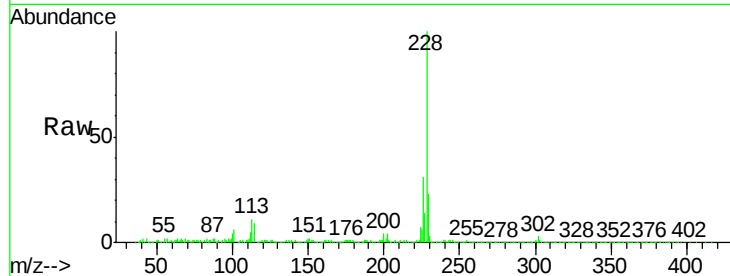
#83
Chrysene
Concen: 17.828 ng
RT: 14.07 min Scan# 2038
Delta R.T. 0.00 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Instrument :
BNA_F
ClientSampleId :
SB-35-(5-7)

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	27.4	41.0
229	22.8	18.3	27.5

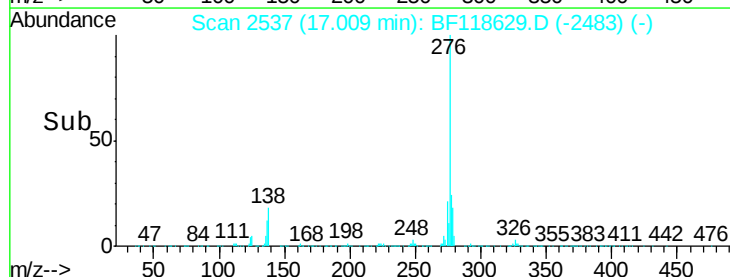
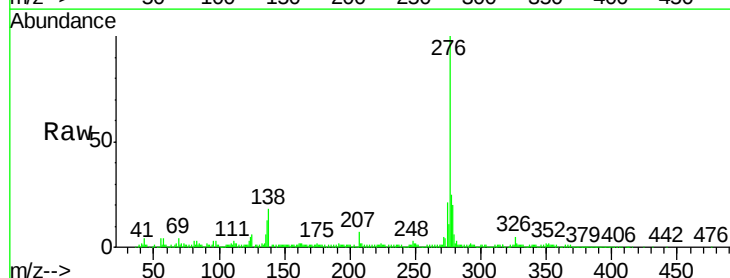
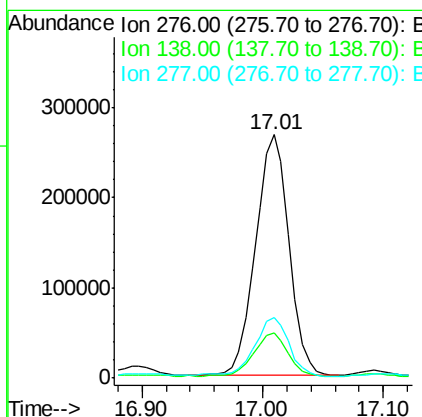
Manual Integrations
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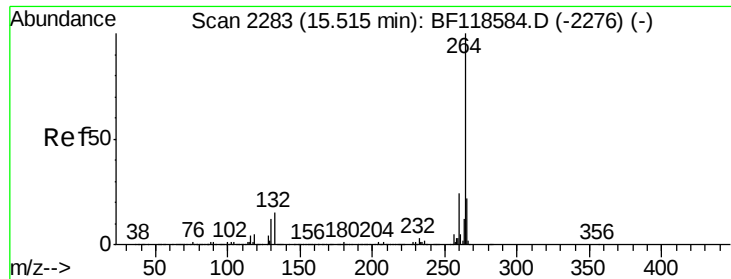
mohammad
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#86
Indeno(1,2,3-cd)pyrene
Concen: 12.003 ng
RT: 17.01 min Scan# 2537
Delta R.T. 0.02 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.3	17.2	25.8
277	25.6	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2285

Delta R.T. 0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

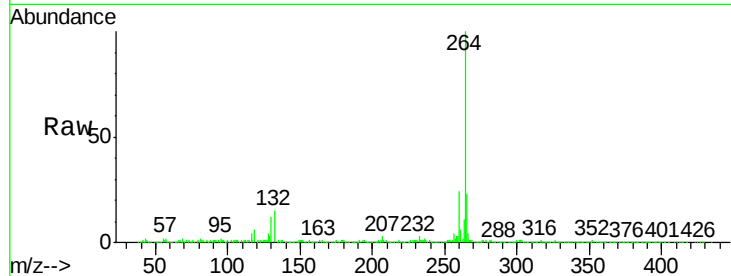
ClientSampleId :

SB-35-(5-7)

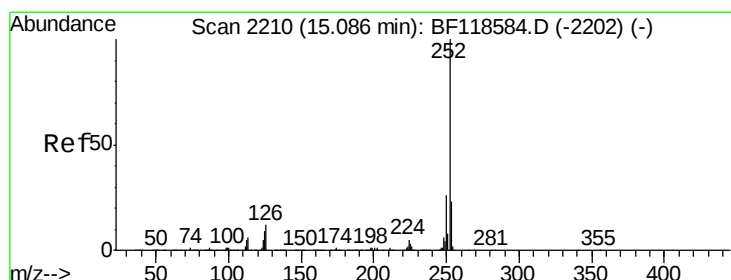
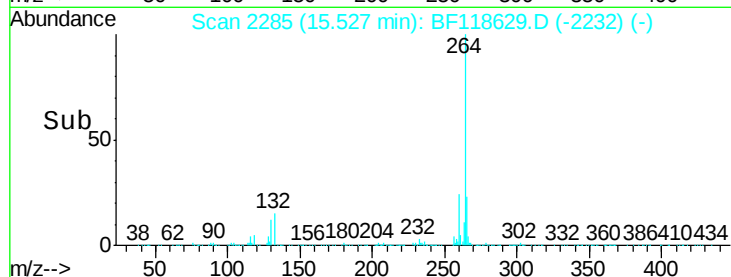
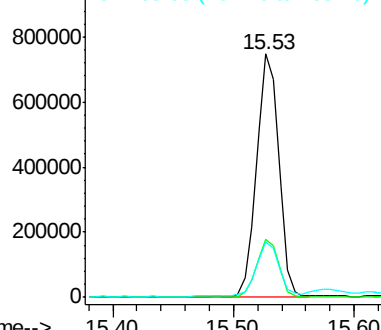
Tot Ion:	264	Resp:	941733
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.6	29.4
265	23.0	17.7	26.5

Manual Integrations
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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



#88

Benzo(b)fluoranthene

Concen: 22.356 ng m

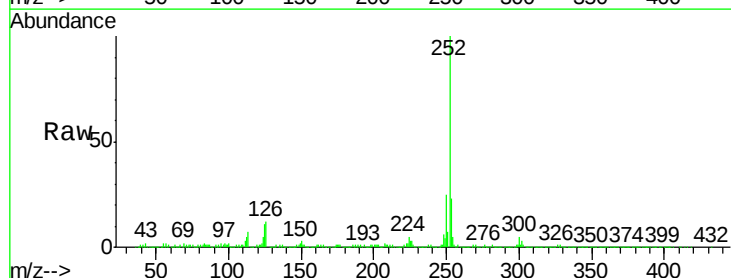
RT: 15.10 min Scan# 2212

Delta R.T. 0.01 min

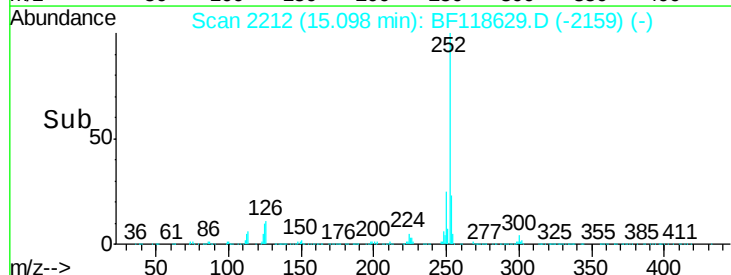
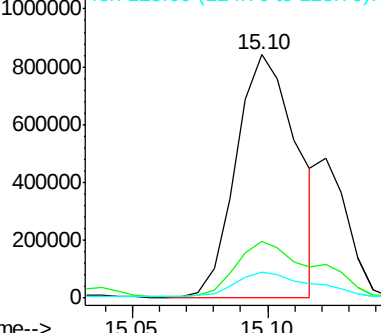
Lab File: BF118629.D

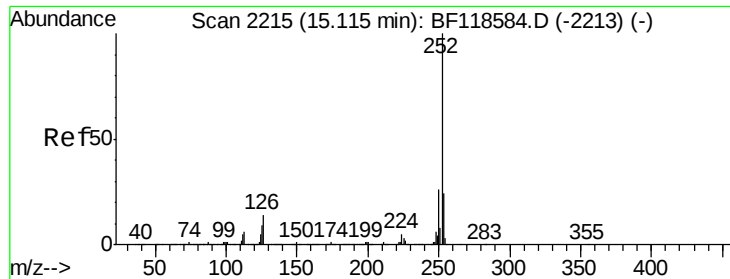
Acq: 21 Jan 2020 10:22

Tgt Ion:	252	Resp:	1323379
Ion Ratio	Lower	Upper	
252	100		
253	23.4	18.7	28.1
125	10.5	7.3	10.9



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





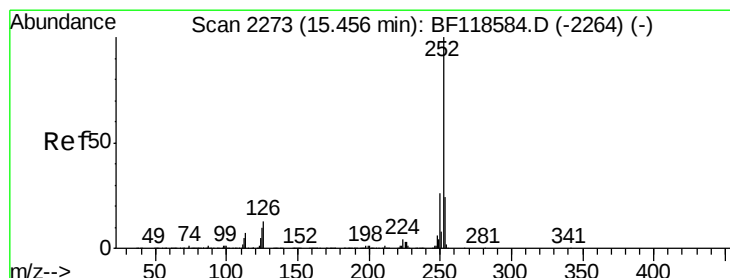
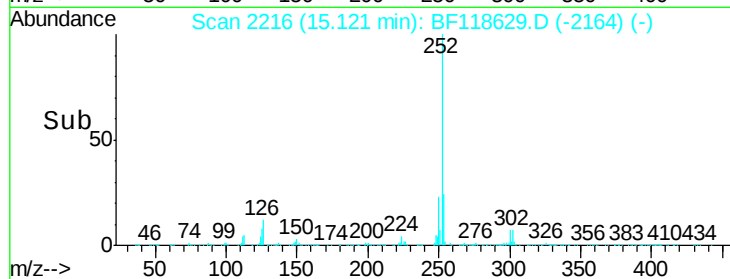
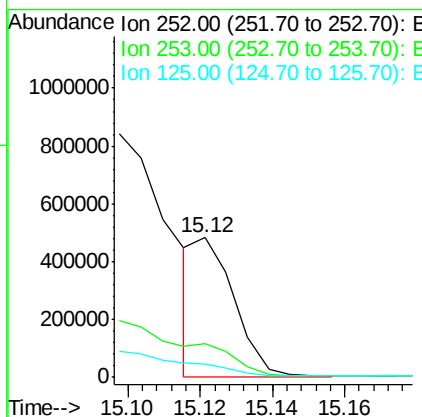
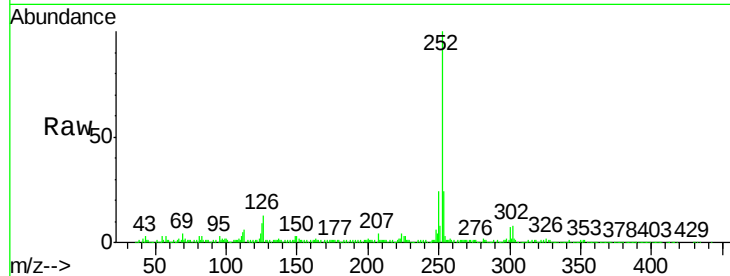
#89
Benzo(k)fluoranthene
Concen: 6.648 ng m
RT: 15.12 min Scan# 2216
Delta R.T. 0.01 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Instrument :
BNA_F
ClientSampleId :
SB-35-(5-7)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.0	28.4
125	9.0	7.6	11.4

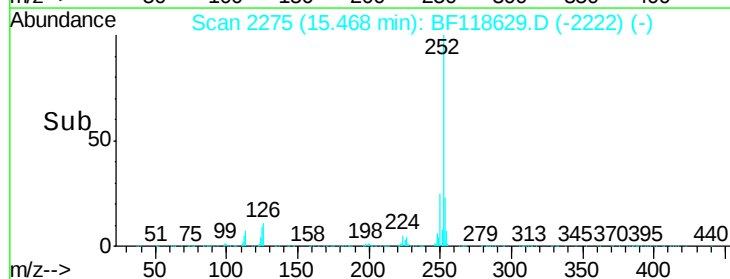
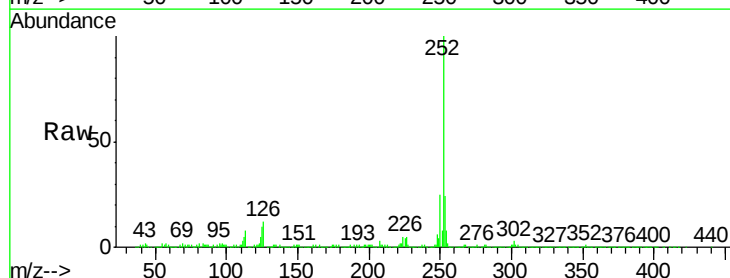
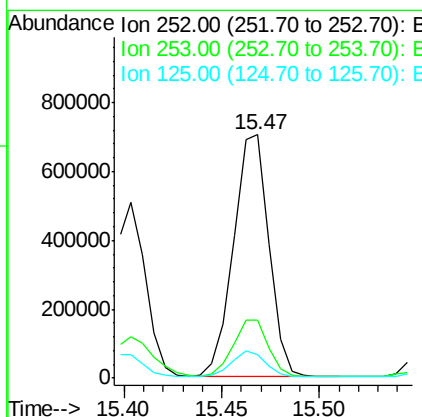
Manual Integrations
APPROVED

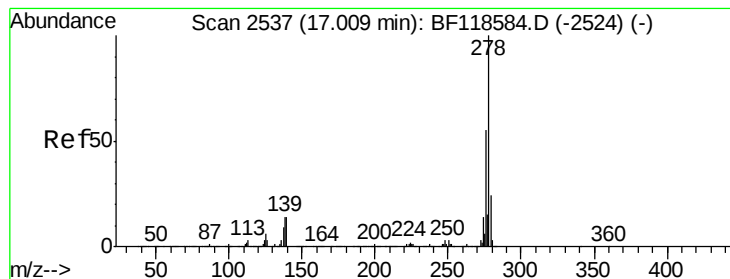
mohammad
1/21/2020 2:27:08 PM



#90
Benzo(a)pyrene
Concen: 17.386 ng
RT: 15.47 min Scan# 2275
Delta R.T. 0.01 min
Lab File: BF118629.D
Acq: 21 Jan 2020 10:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.8	28.2
125	9.7	7.8	11.6





#91

Dibenzo(a,h)anthracene

Concen: 2.780 ng

RT: 17.02 min Scan# 2538

Delta R.T. 0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Instrument :

BNA_F

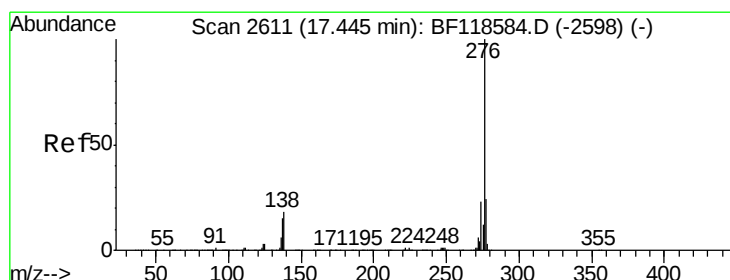
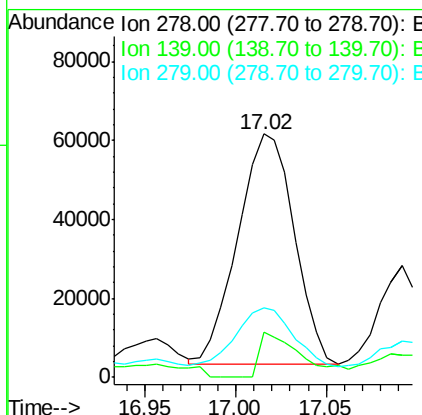
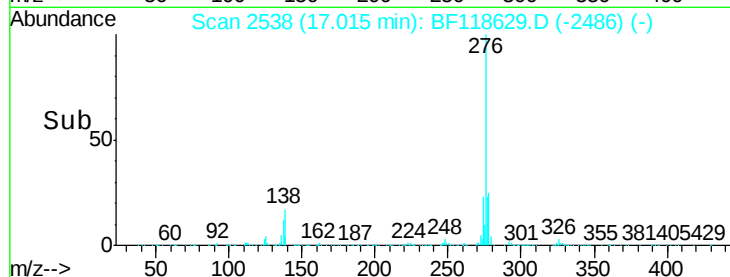
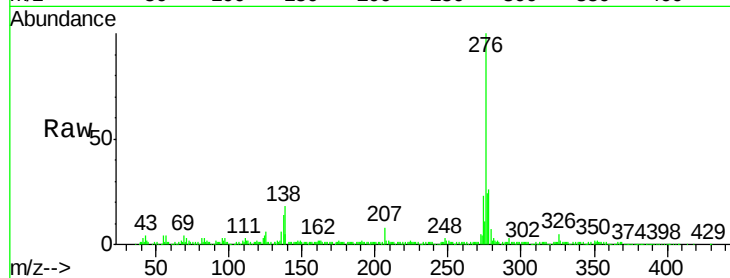
ClientSampleId :

SB-35-(5-7)

Tot Ion:	278	Resp:	125574
Ion Ratio	Lower	Upper	
278	100		
139	18.5	11.4	17.0#
279	28.6	19.0	28.6#

Manual Integrations
APPROVED

mohammad
1/21/2020 2:27:08 PM



#92

Benzo(g,h,i)perylene

Concen: 11.060 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.01 min

Lab File: BF118629.D

Acq: 21 Jan 2020 10:22

Tgt Ion:	276	Resp:	485054
Ion Ratio	Lower	Upper	
276	100		
277	23.6	18.9	28.3
138	19.9	14.4	21.6

