

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030620\
 Data File : BF119273.D
 Acq On : 7 Mar 2020 2:32
 Operator : CG/JU
 Sample : L1761-01 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420

Manual Integrations
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Quant Time: Mar 09 04:18:03 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	101691	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	383164	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	200622	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	291828	20.00	ng	0.00
76) Chrysene-d12	13.90	240	234448	20.00	ng	0.01
87) Perylene-d12	15.32	264	209291	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	116039	19.07	ng	0.00
7) Phenol-d6	6.38	99	159868	21.60	ng	0.00
23) Nitrobenzene-d5	7.29	82	99582	13.72	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	38205	14.56	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	210260	15.44	ng	0.00
79) Terphenyl-d14	12.83	244	207909	15.27	ng	0.00

Target Compounds					Qvalue
31) Naphthalene	8.03	128	2414443	121.502 ng	99
37) 2-Methylnaphthalene	8.73	142	2089396	156.241 ng	98
38) 1-Methylnaphthalene	8.83	142	1763567m	140.226 ng	
46) 1,1'-Biphenyl	9.18	154	397750	24.531 ng	98
52) Acenaphthene	9.80	154	1021931	89.806 ng	97
55) Dibenzofuran	9.97	168	503599	29.650 ng	# 93
58) Fluorene	10.32	166	1569319	118.905 ng	100
71) Phenanthrene	11.30	178	5735800	360.405 ng	96
72) Anthracene	11.34	178	2353905	148.029 ng	99
73) Carbazole	11.49	167	277693	19.602 ng	99
75) Fluoranthene	12.47	202	2953872	174.856 ng	98
78) Pvrene	12.71	202	3759240	199.685 ng	96
81) Benzo(a)anthracene	13.89	228	1847878	115.677 ng	98
83) Chrysene	13.93	228	1524272	95.762 ng	97
86) Indeno(1,2,3-cd)pyrene	16.73	276	327545	21.252 ng	95
88) Benzo(b)fluoranthene	14.92	252	1149625m	83.334 ng	
89) Benzo(k)fluoranthene	14.94	252	405218m	31.696 ng	
90) Benzo(a)pyrene	15.27	252	996733	80.055 ng	98
91) Dibenzo(a,h)anthracene	16.73	278	118136m	10.784 ng	
92) Benzo(a,h,i)perylene	17.16	276	307941	28.449 ng	97

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

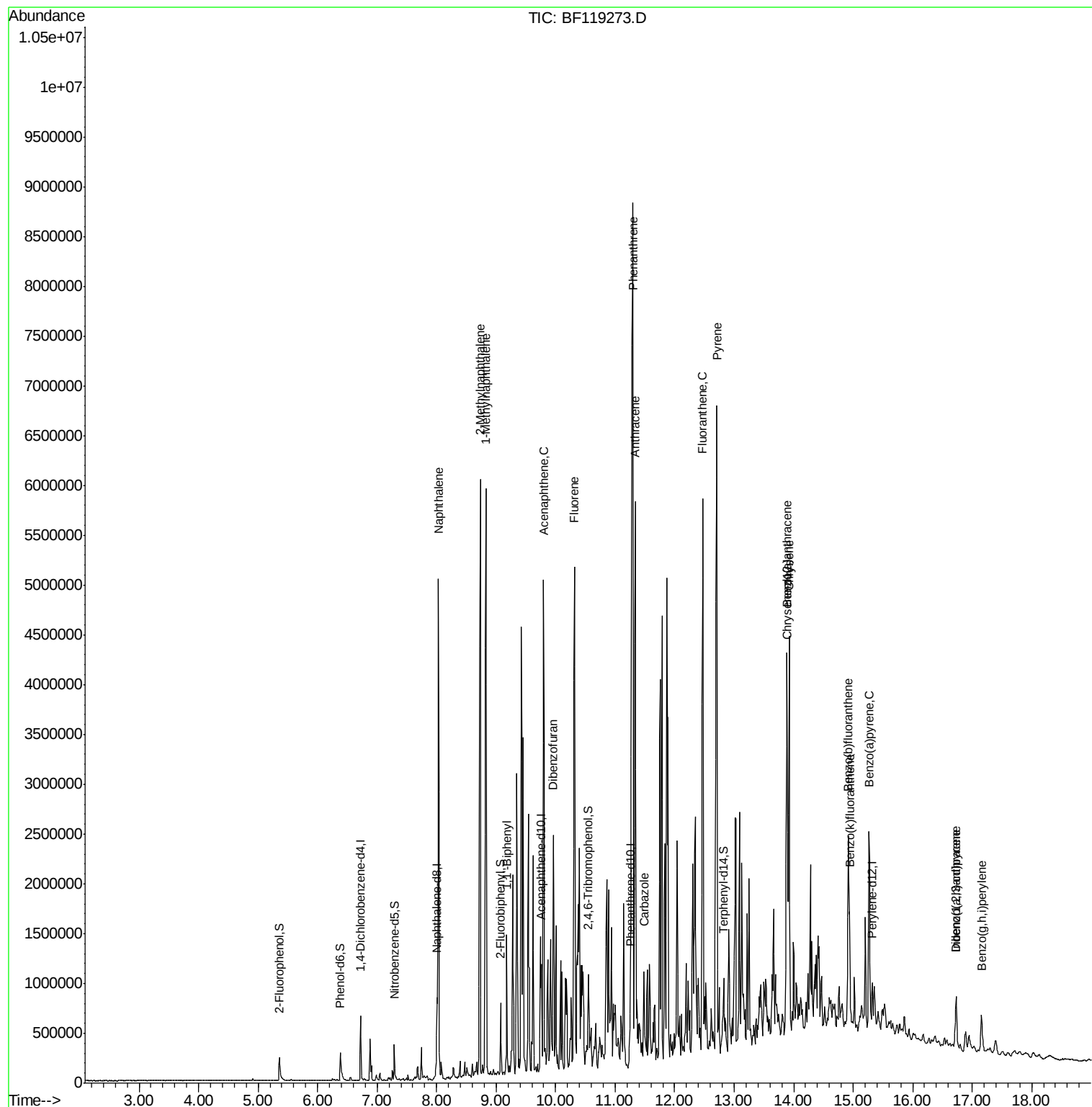
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030620\
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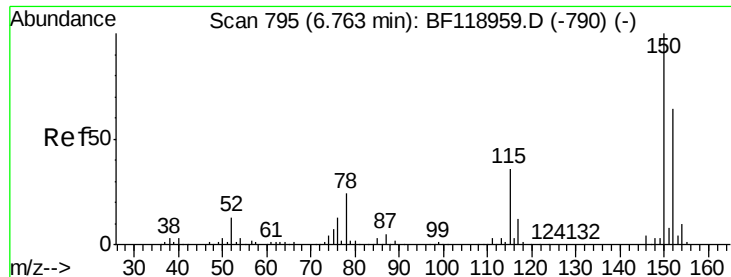
Instrument :
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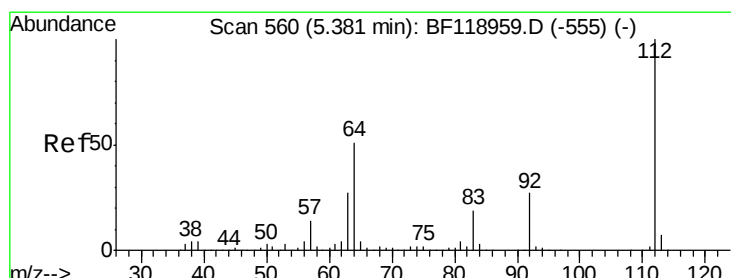
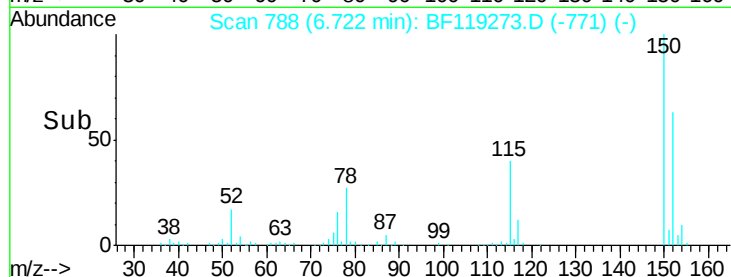
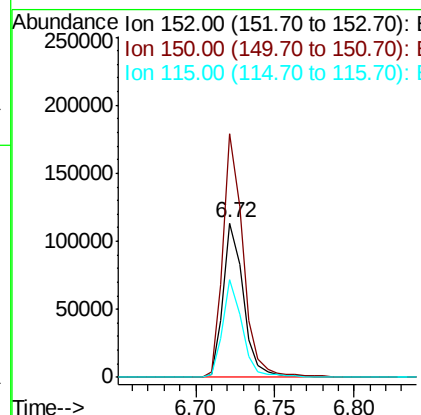
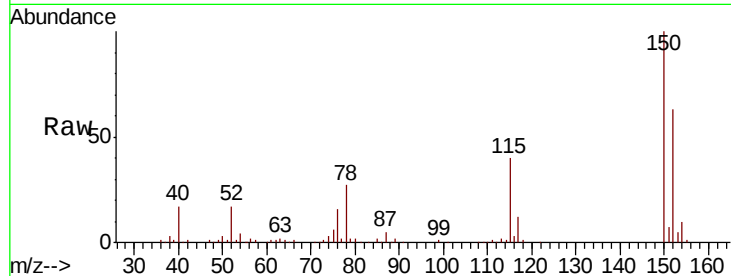
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.00 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	123.0	184.6
115	63.3	49.5	74.3

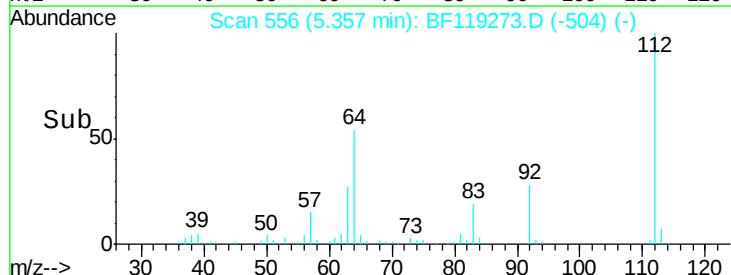
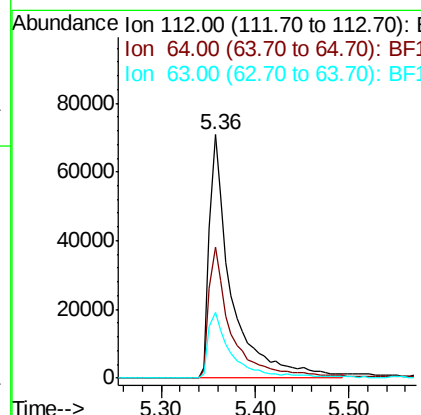
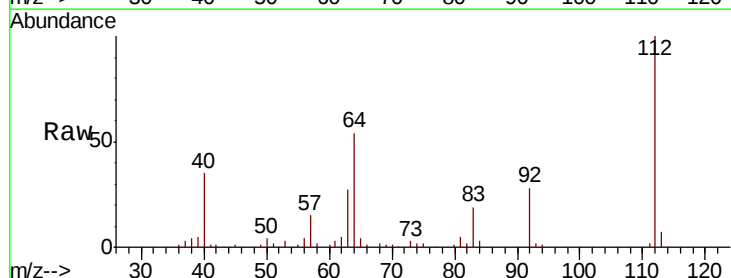
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#5
2-Fluorophenol
Concen: 19.070 ng
RT: 5.36 min Scan# 556
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.0	45.0	67.4
63	27.2	24.2	36.4





#7

Phenol-d6

Concen: 21.602 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

Instrument :

BNA_F

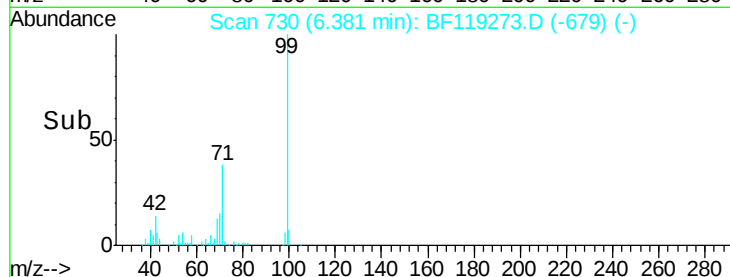
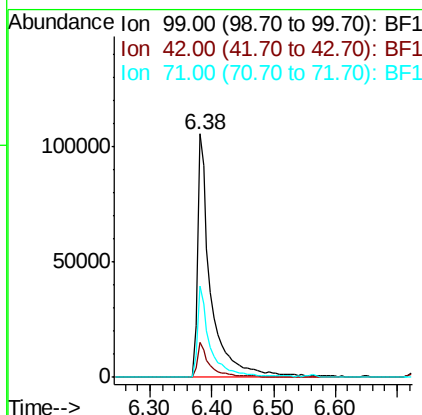
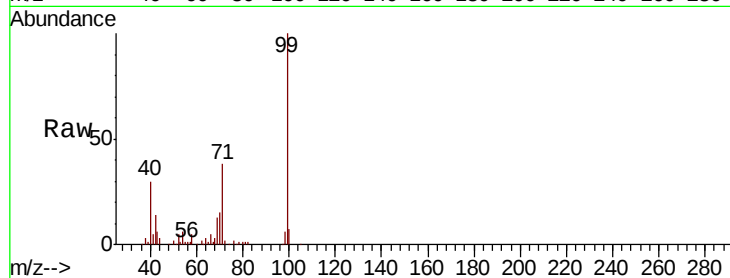
ClientSampleId :

SU-04-030420

Tot Ion:	99	Resp:	159868
Ion	Ratio	Lower	Upper
99	100		
42	14.2	12.6	18.8
71	37.6	31.0	46.4

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#21

Naphthalene-d8

Concen: 20.000 ng

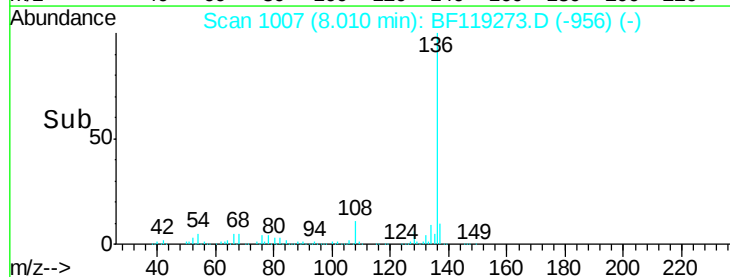
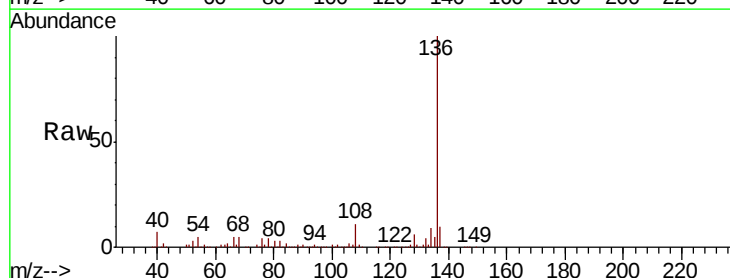
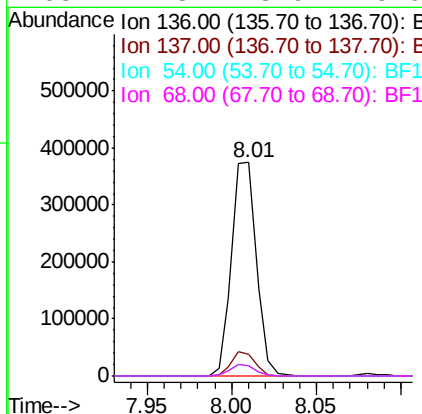
RT: 8.01 min Scan# 1007

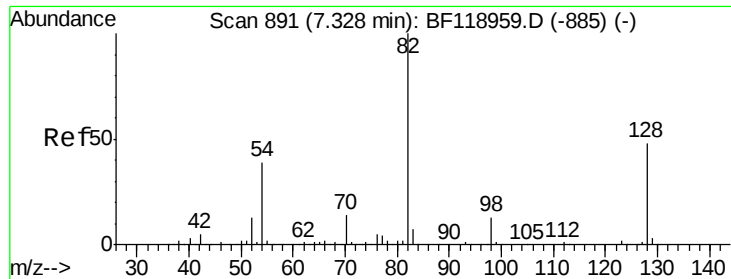
Delta R.T. -0.00 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

Tgt Ion:	136	Resp:	383164
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.8	13.2
54	4.7	3.8	5.6
68	4.8	3.9	5.9





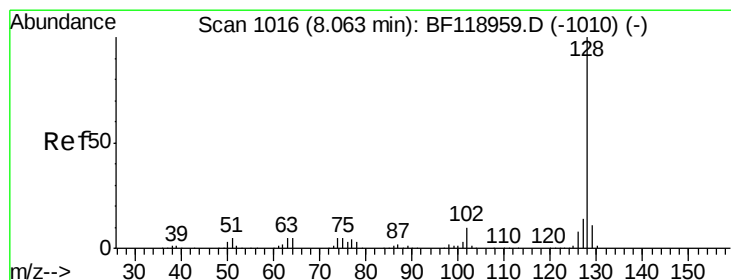
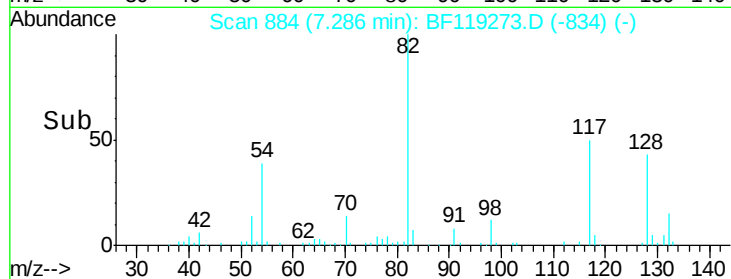
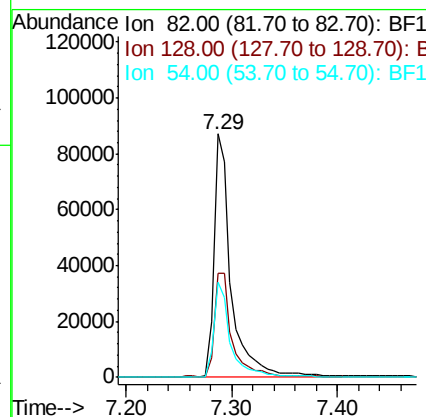
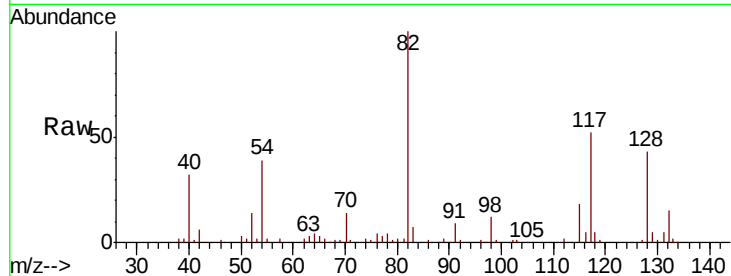
#23
Nitrobenzene-d5
Concen: 13.722 ng
RT: 7.29 min Scan# 884
Delta R.T. -0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
82	100		
128	42.7	37.9	56.9
54	39.3	33.4	50.2

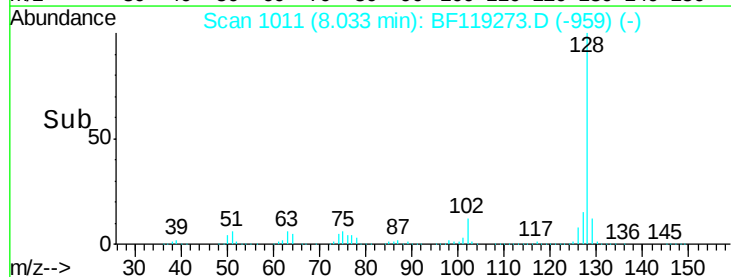
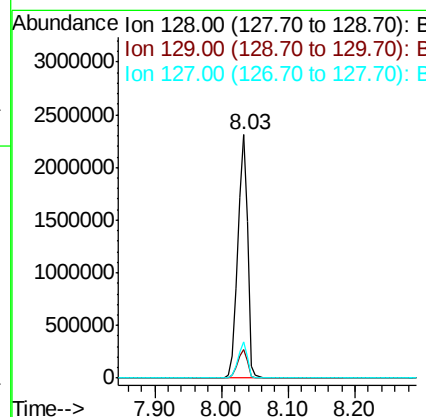
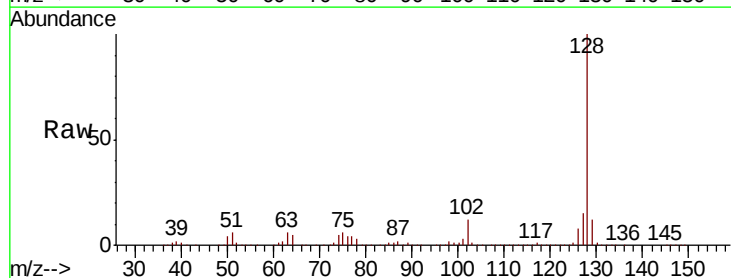
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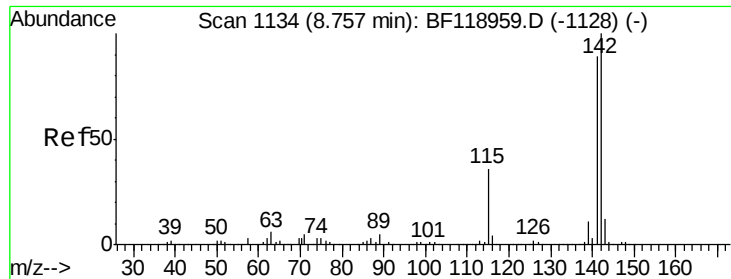
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#31
Naphthalene
Concen: 121.502 ng
RT: 8.03 min Scan# 1011
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.4	14.2
127	14.8	11.4	17.2





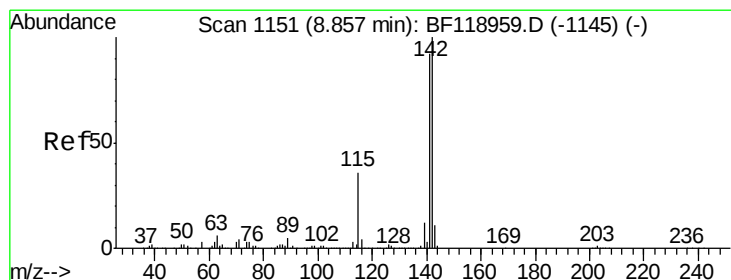
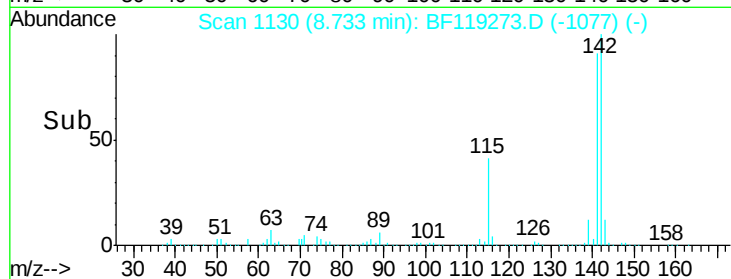
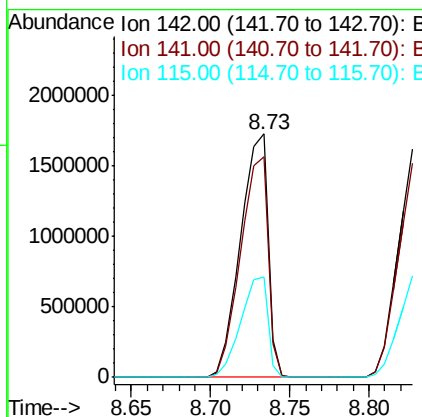
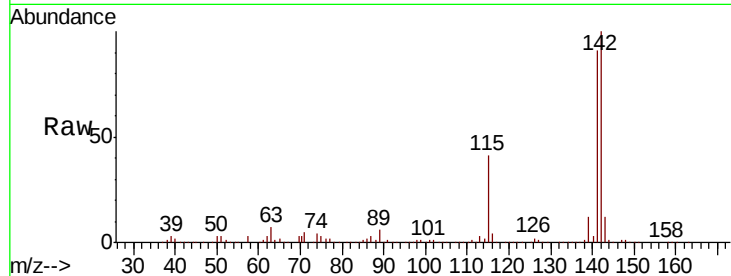
#37
2-Methylnaphthalene
Concen: 156.241 ng
RT: 8.73 min Scan# 1130
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.3	108.5
115	41.3	30.6	45.8

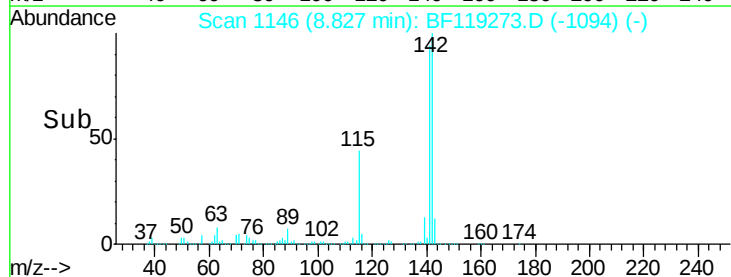
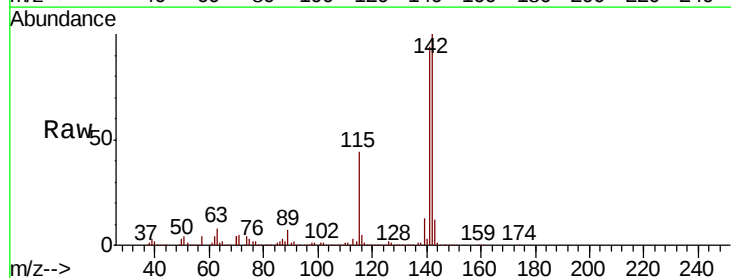
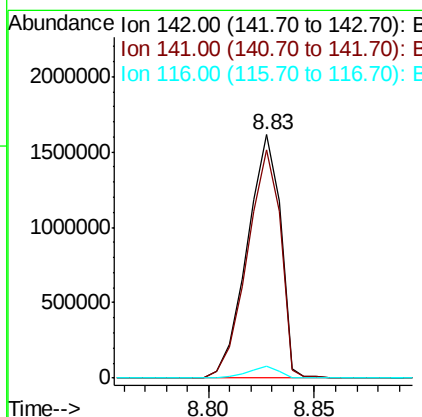
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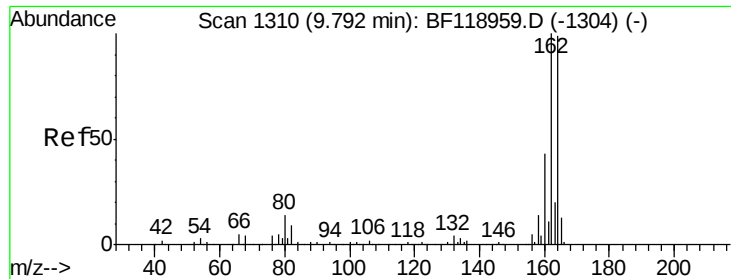
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#38
1-Methylnaphthalene
Concen: 140.226 ng m
RT: 8.83 min Scan# 1146
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.9	75.8	113.6
116	4.8	3.1	4.7#





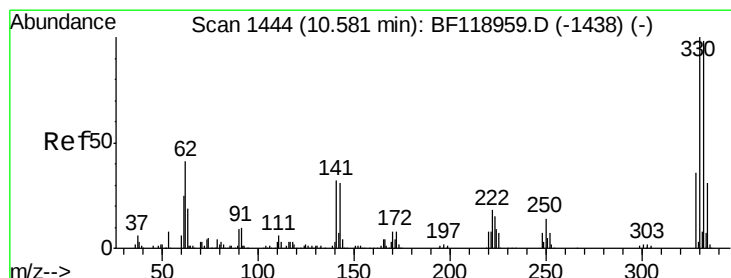
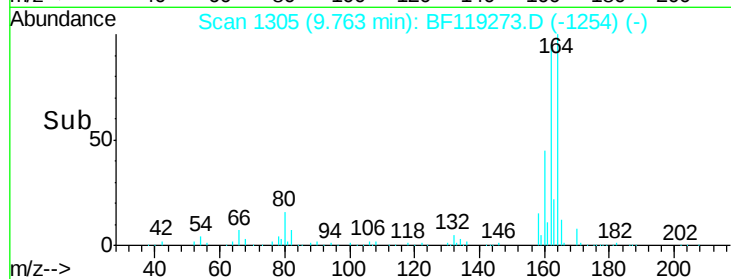
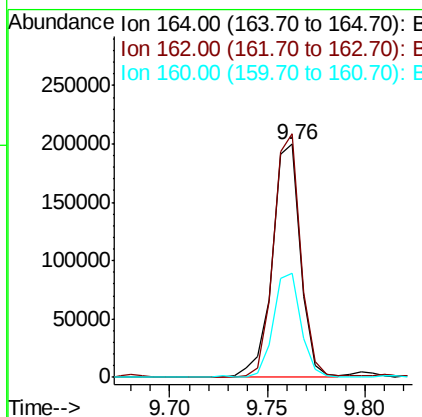
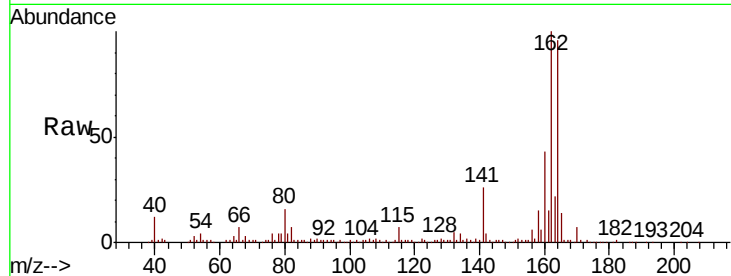
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
164	100		
162	104.6	81.8	122.8
160	44.8	36.0	54.0

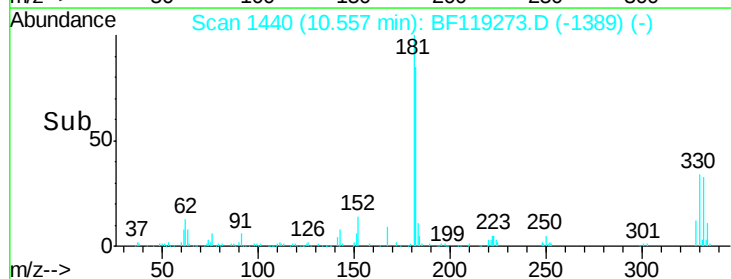
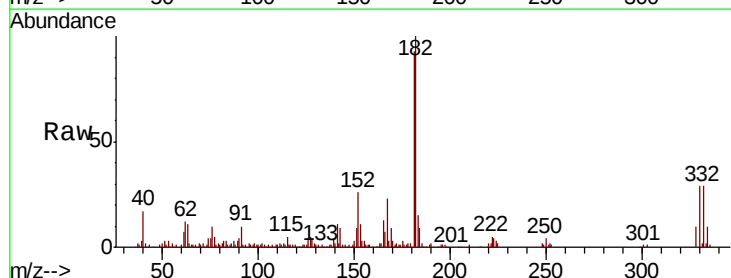
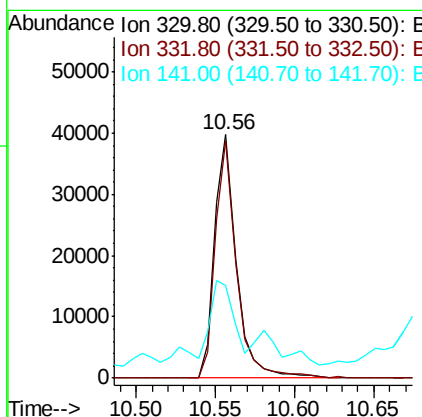
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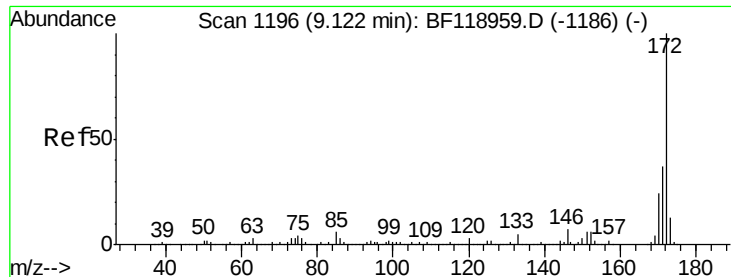
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#42
2,4,6-Tribromophenol
Concen: 14.557 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.00 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.0	114.0
141	39.8	22.9	34.3





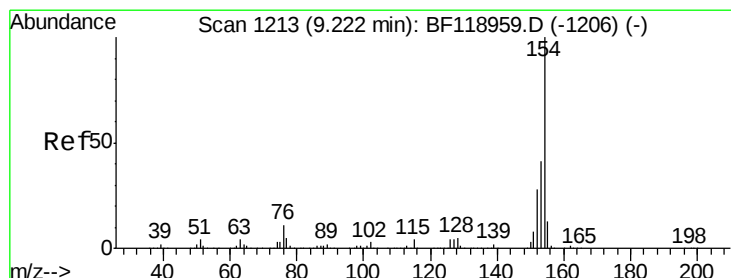
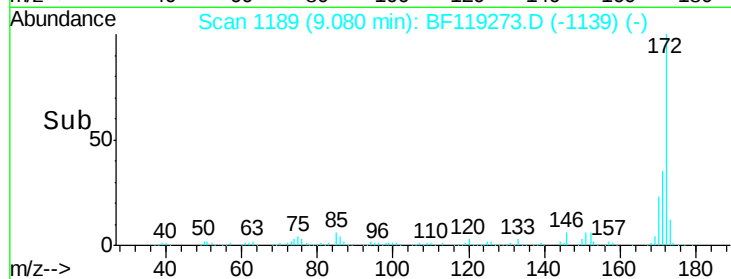
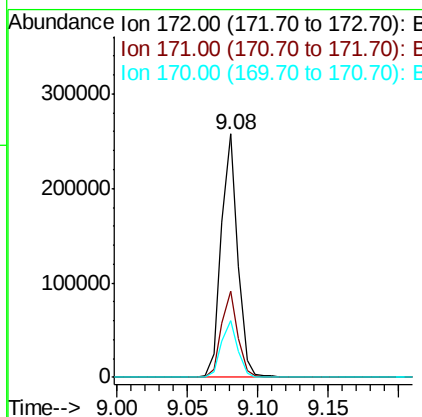
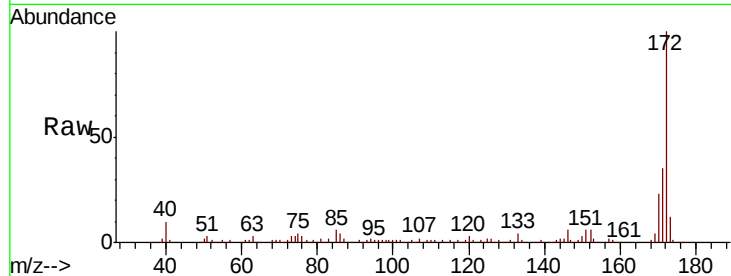
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2-Fluorobiphenyl
Concen: 15.439 ng
RT: 9.08 min Scan# 1189
Delta R.T. -0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Resp	Lower	Upper
172	100	210260		
171	35.4		30.6	45.8
170	23.5		20.2	30.2

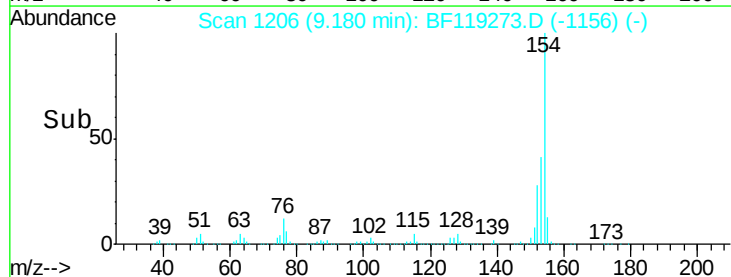
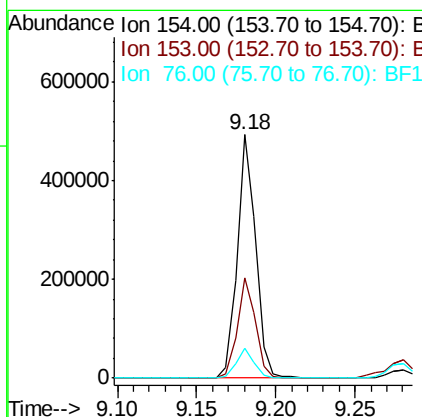
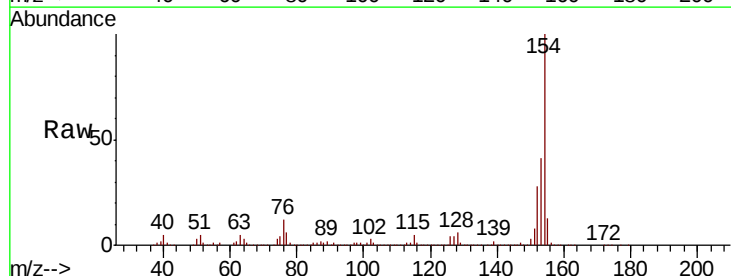
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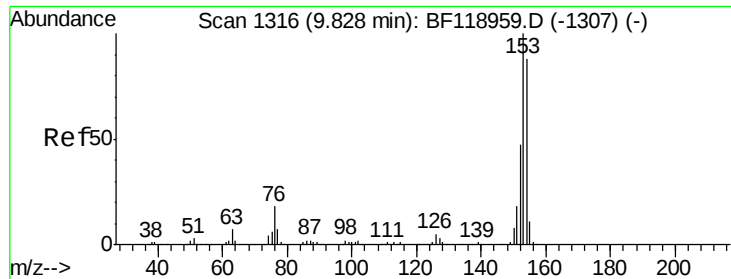
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#46
1,1'-Biphenyl
Concen: 24.531 ng
RT: 9.18 min Scan# 1206
Delta R.T. -0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	397750		
153	41.2		22.8	62.8
76	12.0		0.0	32.2





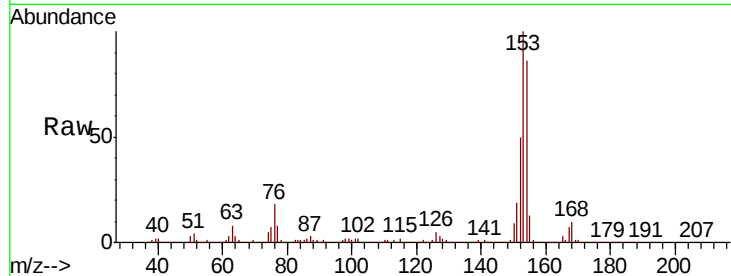
#52
Acenaphthene
Concen: 89.806 ng
RT: 9.80 min Scan# 1311
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

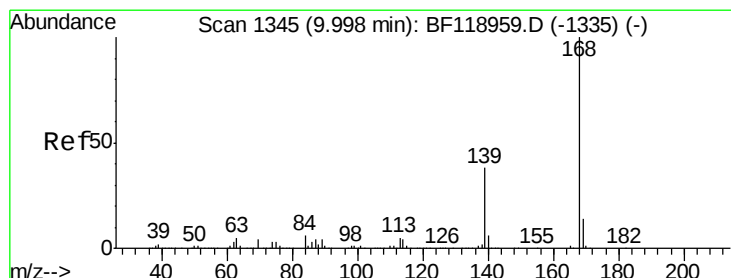
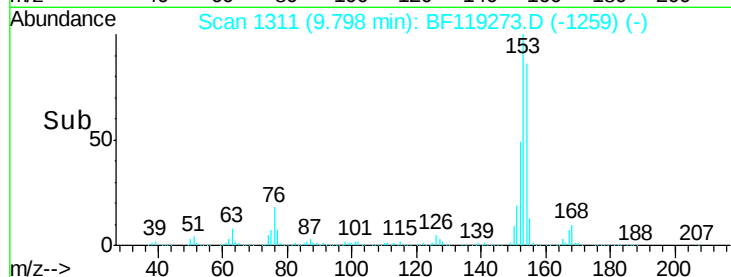
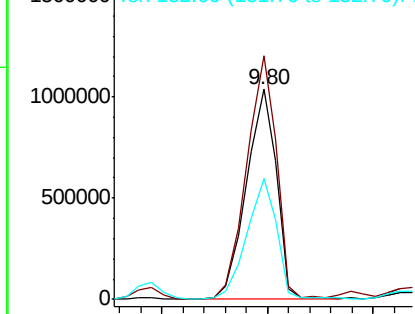
Tot Ion	Ratio	Lower	Upper
154	100		
153	116.1	90.3	135.5
152	57.5	43.8	65.8

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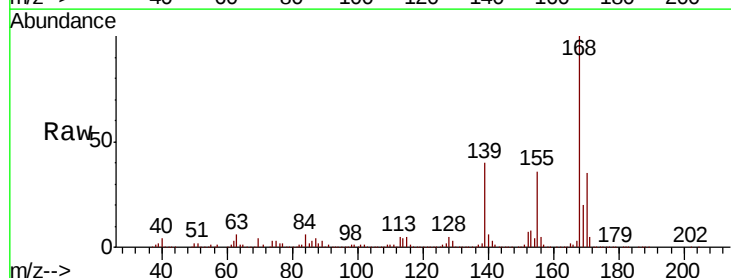


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

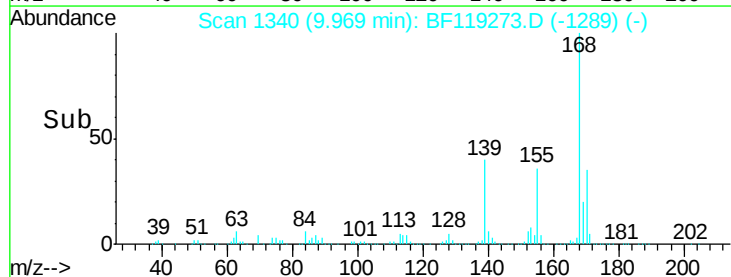
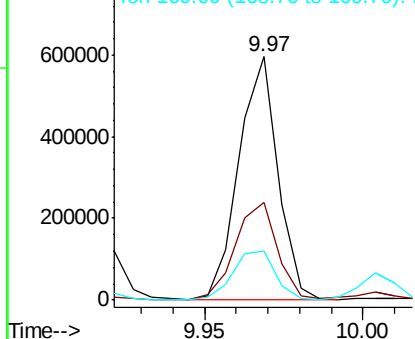


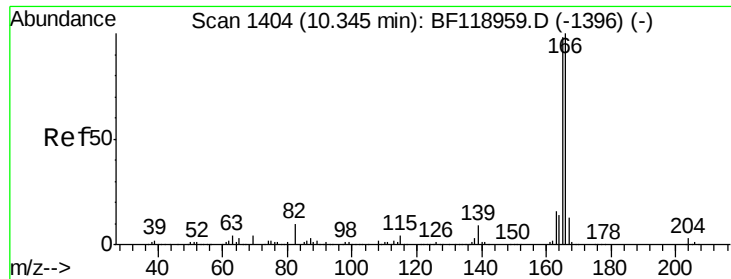
#55
Dibenzofuran
Concen: 29.650 ng
RT: 9.97 min Scan# 1340
Delta R.T. -0.00 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
168	100		
139	40.1	34.0	51.0
169	20.0	11.0	16.4#



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: 118.905 ng

RT: 10.32 min Scan# 1399

Delta R.T. 0.01 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

Instrument :

BNA_F

ClientSampleId :

SU-04-030420

Tot Ion:166 Resp: 1569319

Ion Ratio Lower Upper

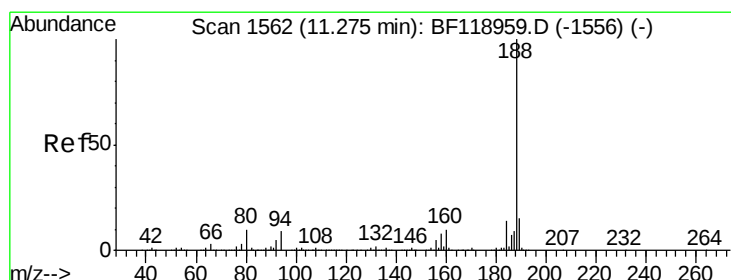
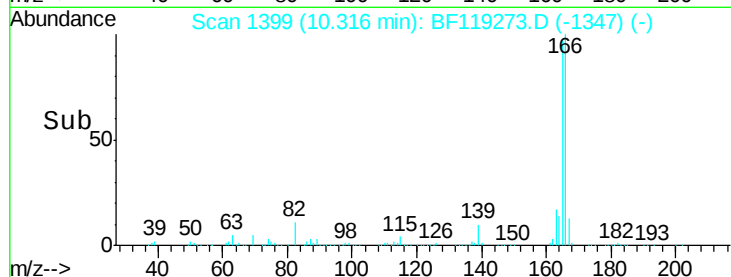
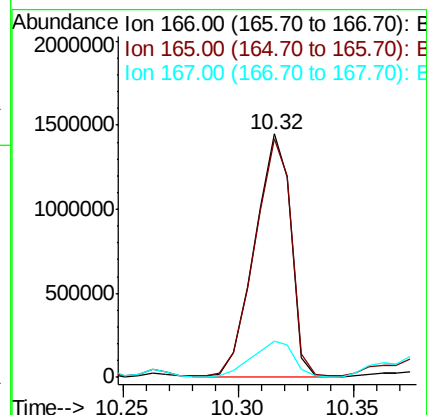
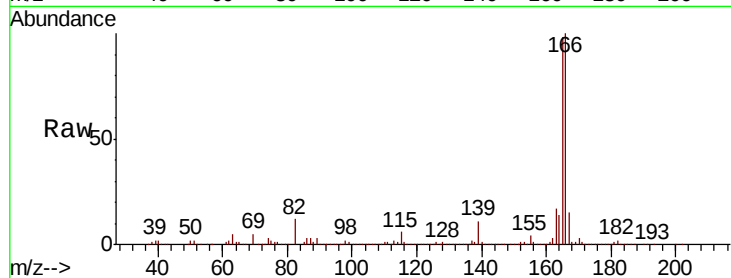
166 100

165 98.2 78.5 117.7

167 14.8 11.0 16.4

Manual Integrations
APPROVED

mohammad
3/9/2020 3:09:40 PM



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.01 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

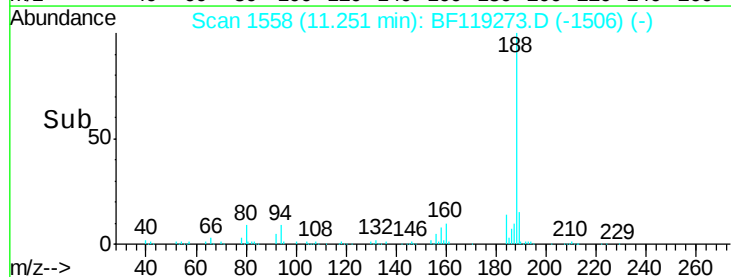
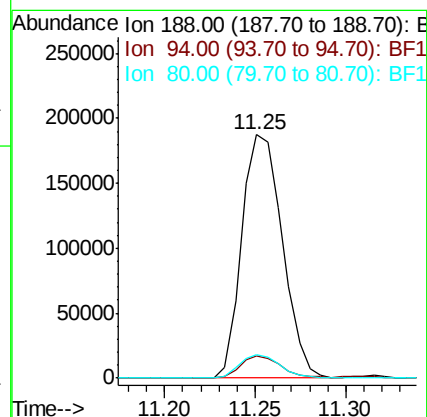
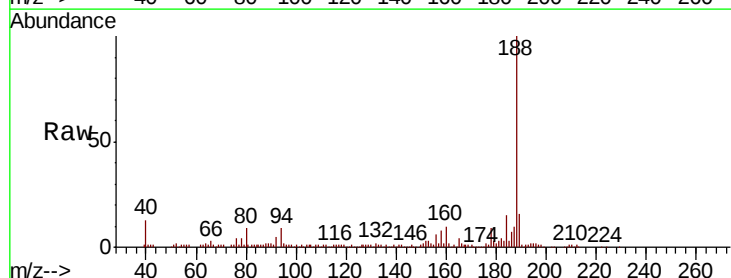
Tgt Ion:188 Resp: 291828

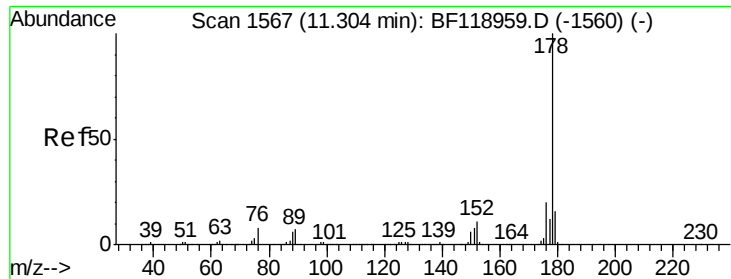
Ion Ratio Lower Upper

188 100

94 9.0 7.1 10.7

80 9.5 7.8 11.8





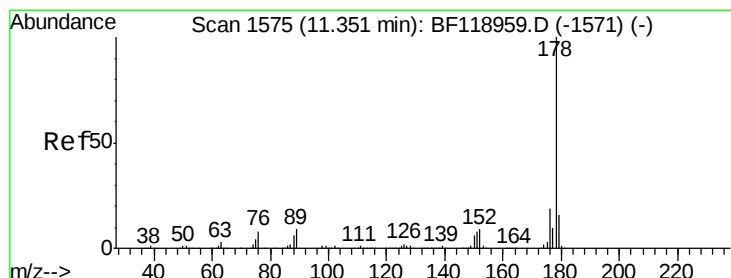
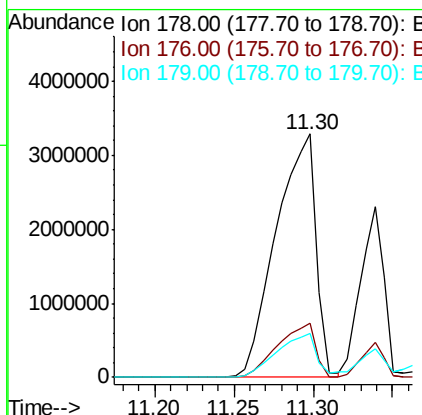
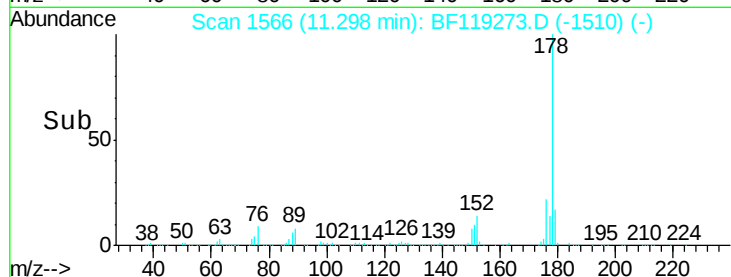
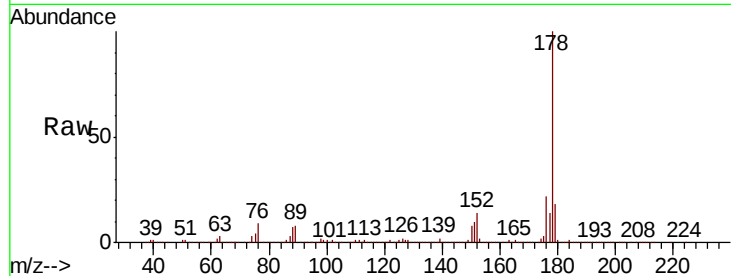
#71
Phenanthrene
Concen: 360.405 ng
RT: 11.30 min Scan# 1566
Delta R.T. 0.03 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion:178 Resp: 5735800
Ion Ratio Lower Upper
178 100
176 22.4 16.5 24.7
179 17.9 13.0 19.6

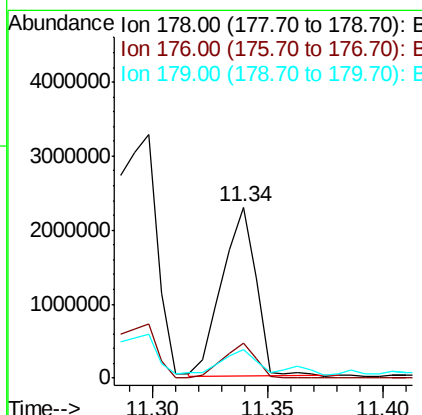
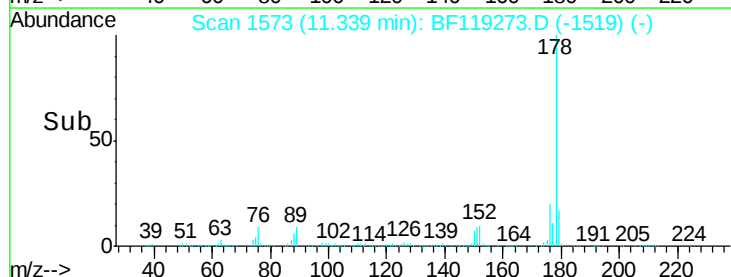
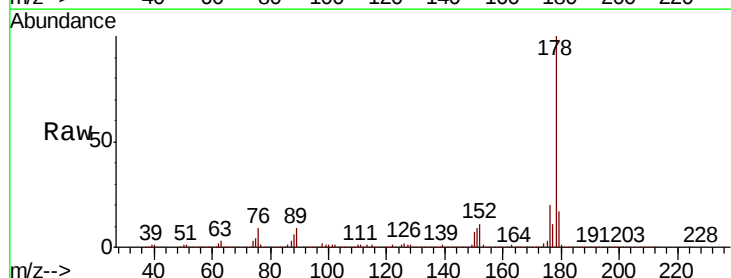
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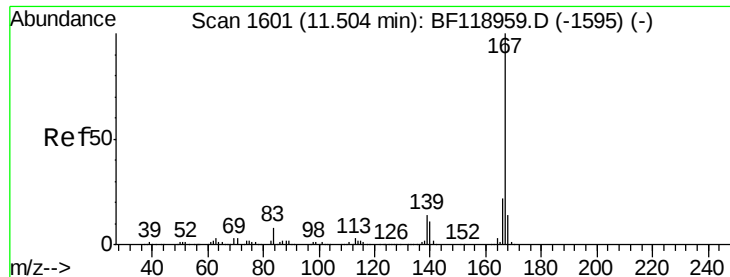
mohammad
3/9/2020 3:09:40 PM



#72
Anthracene
Concen: 148.029 ng
RT: 11.34 min Scan# 1573
Delta R.T. 0.02 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion:178 Resp: 2353905
Ion Ratio Lower Upper
178 100
176 20.2 16.0 24.0
179 16.7 13.1 19.7





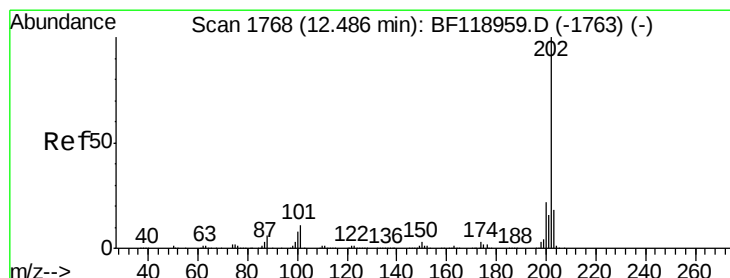
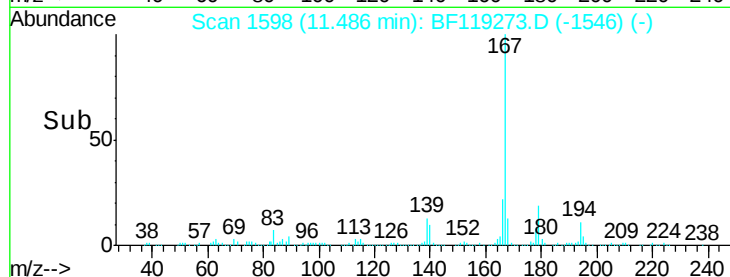
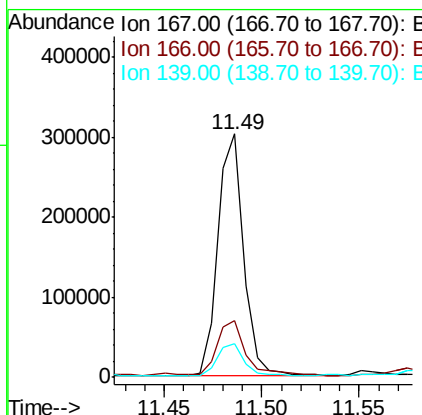
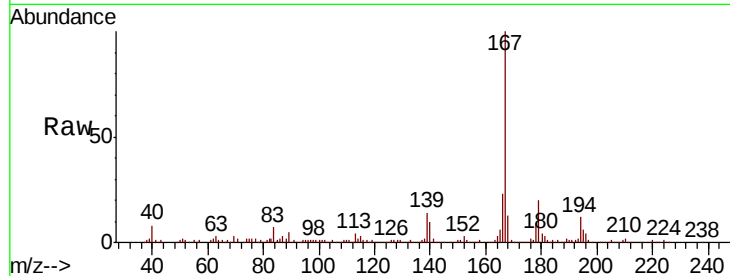
#73
 Carbazole
 Concen: 19.602 ng
 RT: 11.49 min Scan# 1598
 Delta R.T. 0.01 min
 Lab File: BF119273.D
 Acq: 7 Mar 2020 2:32

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420

Tot Ion	Ion	Ratio	Resp	Lower	Upper
167	100				
166	23.2	18.2	27.4		
139	13.8	11.7	17.5		

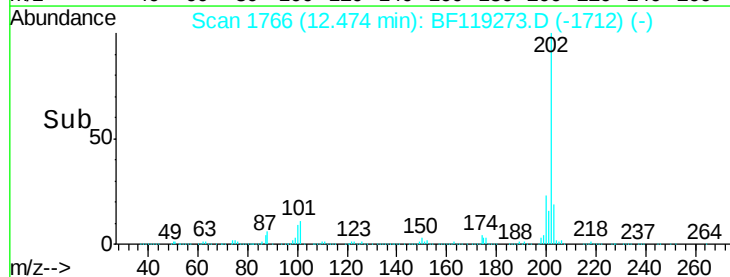
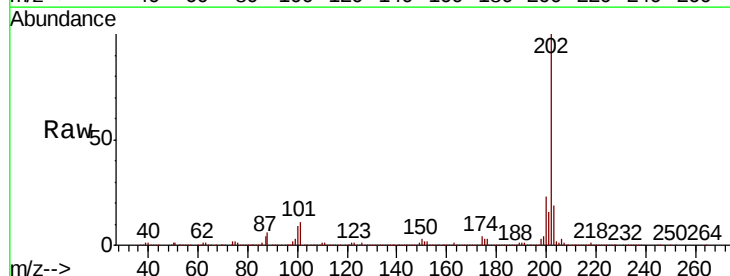
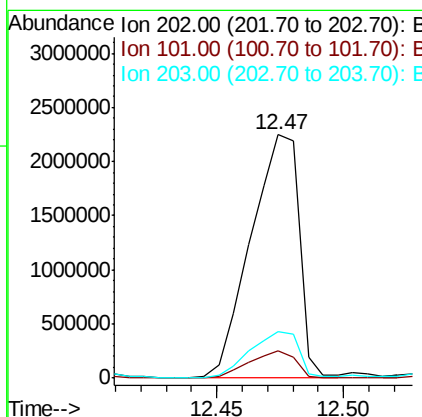
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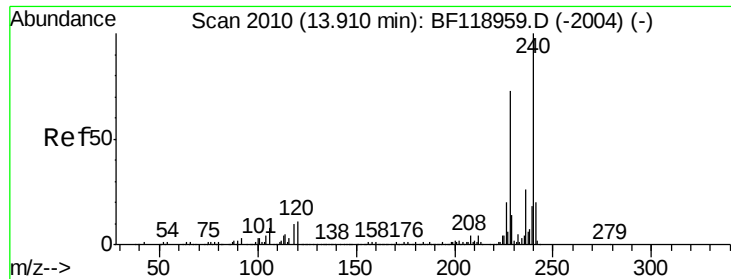
mohammad
 3/9/2020 3:09:40 PM



#75
 Fluoranthene
 Concen: 174.856 ng
 RT: 12.47 min Scan# 1766
 Delta R.T. 0.02 min
 Lab File: BF119273.D
 Acq: 7 Mar 2020 2:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	11.3	0.0	30.3		
203	19.1	0.0	38.4		





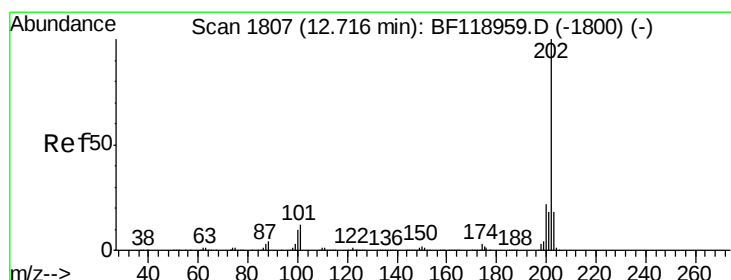
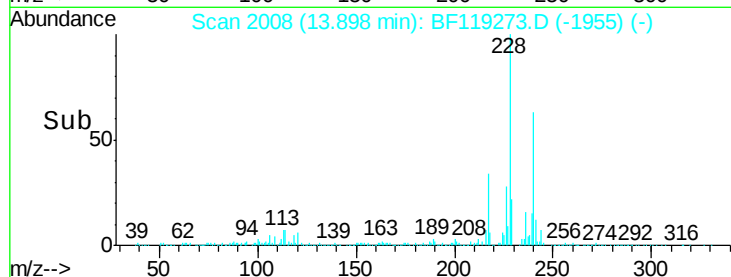
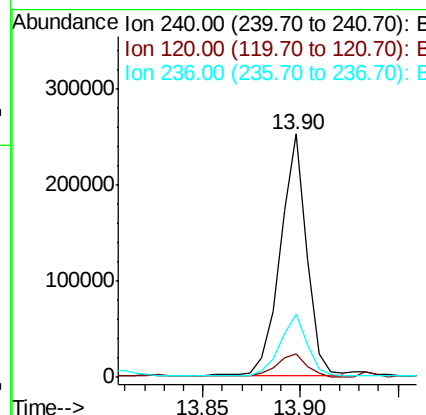
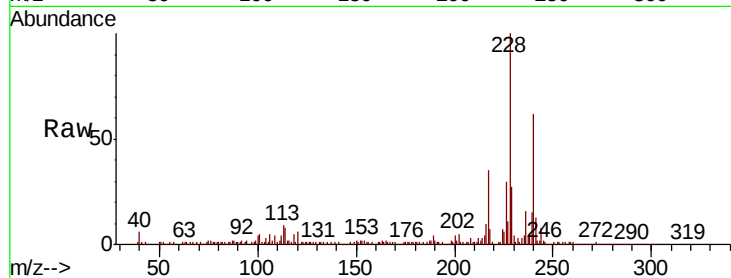
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.4	12.6
236	26.1	21.0	31.4

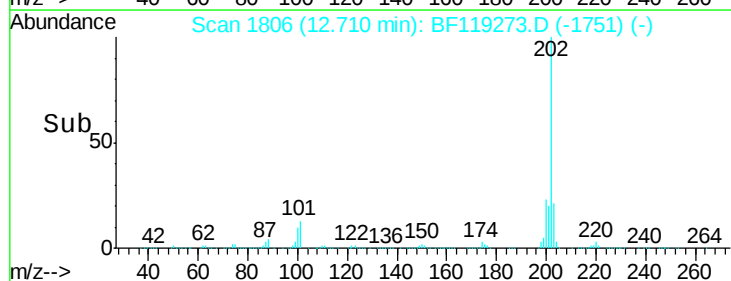
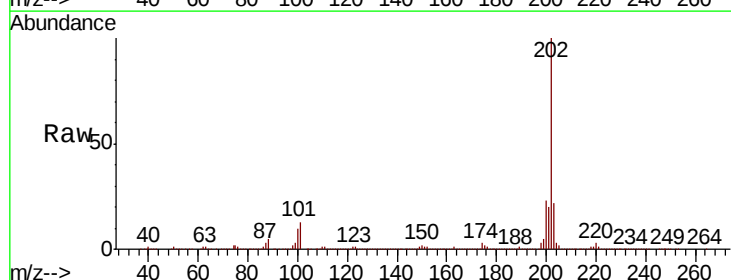
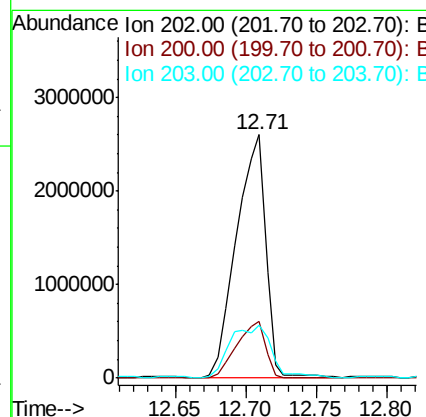
Manual Integrations
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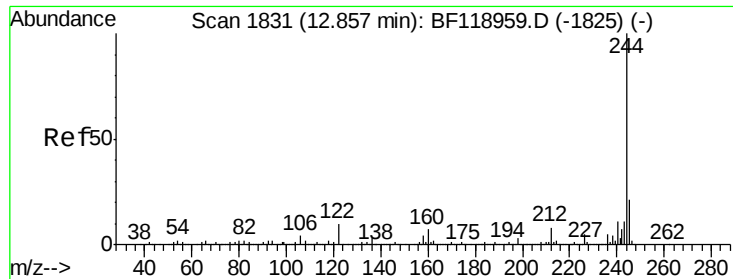
mohammad
3/9/2020 3:09:40 PM



#78
Pyrene
Concen: 199.685 ng
RT: 12.71 min Scan# 1806
Delta R.T. 0.02 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.3	18.0	27.0
203	21.9	14.6	22.0





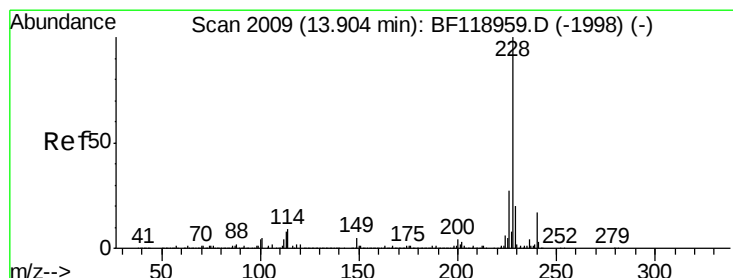
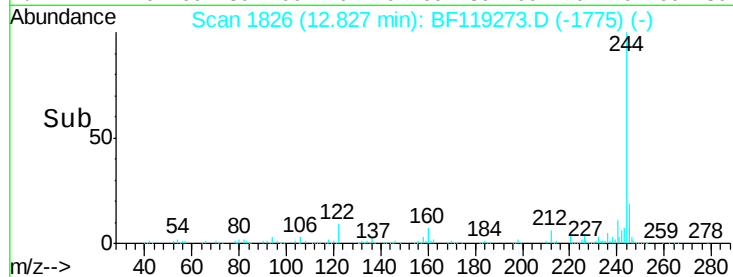
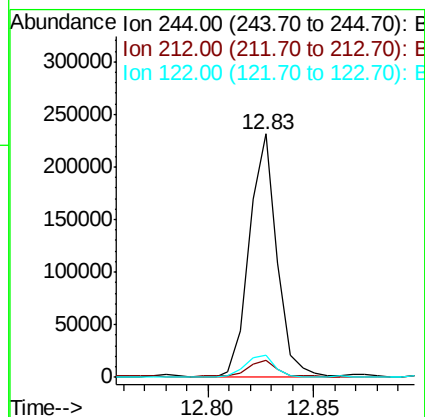
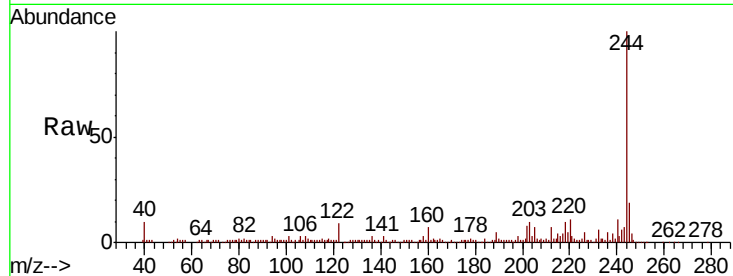
#79
 Terphenyl-d14
 Concen: 15.268 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.00 min
 Lab File: BF119273.D
 Acq: 7 Mar 2020 2:32

Instrument :
 BNA_F
 ClientSampleId :
 SU-04-030420

Tot Ion:	244	Resp:	207909
Ion Ratio	Lower	Upper	
244	100		
212	7.0	6.6	10.0
122	9.3	8.2	12.2

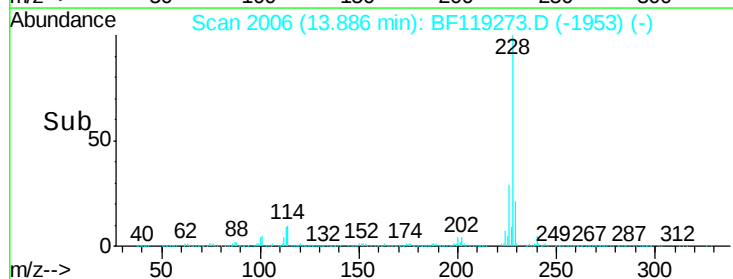
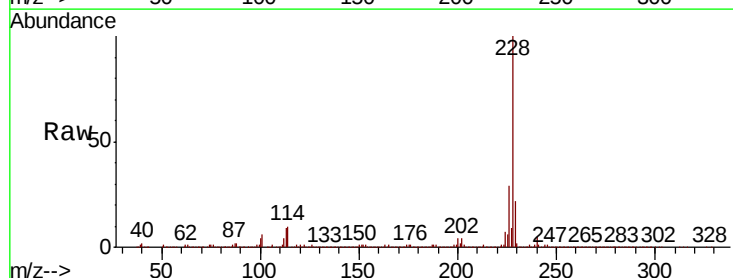
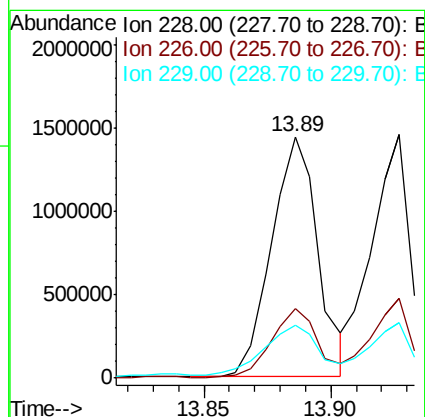
Manual Integrations
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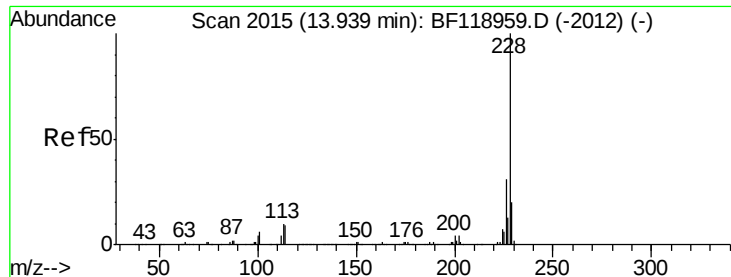
mohammad
 3/9/2020 3:09:40 PM



#81
 Benzo(a)anthracene
 Concen: 115.677 ng
 RT: 13.89 min Scan# 2006
 Delta R.T. 0.01 min
 Lab File: BF119273.D
 Acq: 7 Mar 2020 2:32

Tgt Ion:	228	Resp:	1847878
Ion Ratio	Lower	Upper	
228	100		
226	29.1	22.6	33.8
229	22.0	16.6	24.8





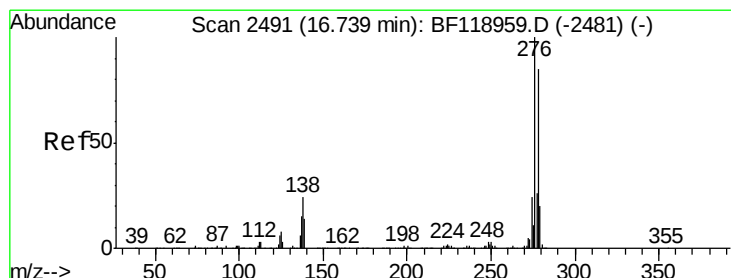
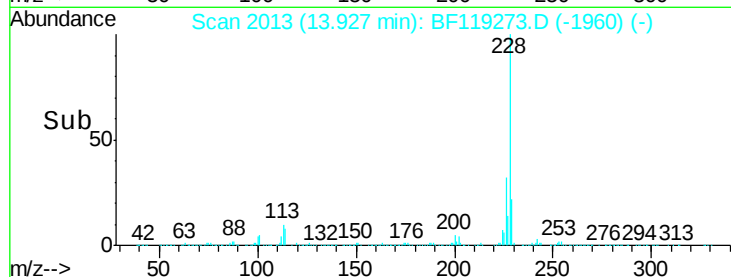
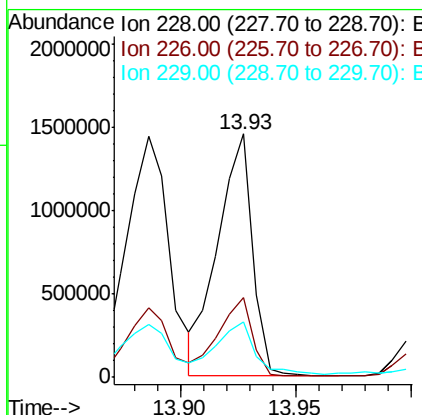
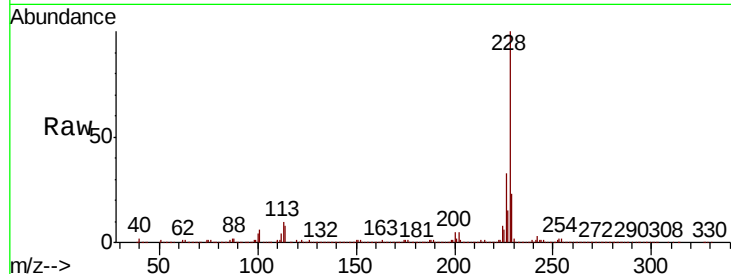
#83
Chrysene
Concen: 95.762 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion:228 Resp: 1524272
Ion Ratio Lower Upper
228 100
226 32.7 25.1 37.7
229 22.7 16.3 24.5

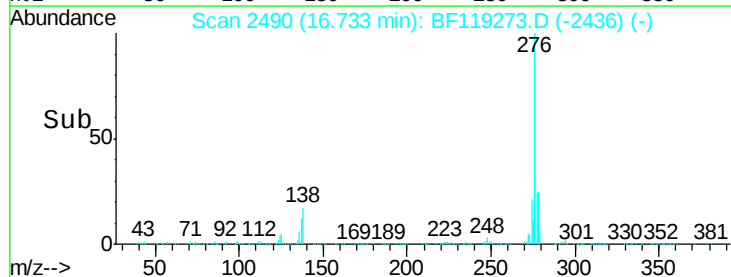
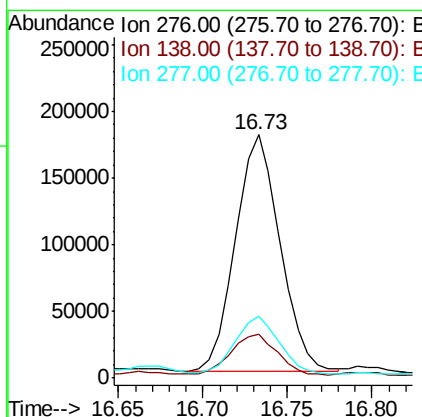
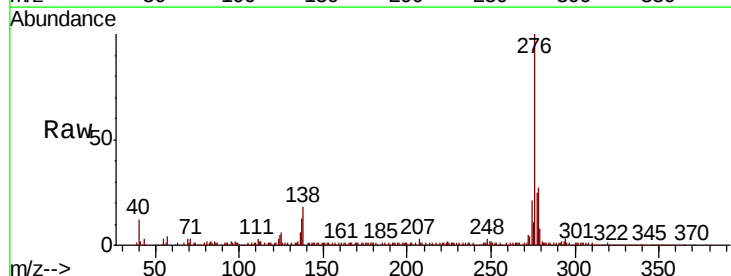
Manual Integrations
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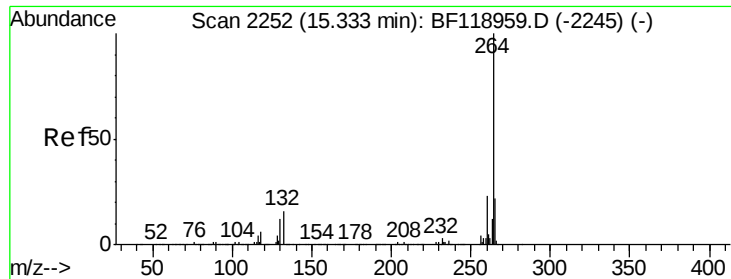
mohammad
3/9/2020 3:09:40 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 21.252 ng
RT: 16.73 min Scan# 2490
Delta R.T. 0.02 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion:276 Resp: 327545
Ion Ratio Lower Upper
276 100
138 17.8 17.4 26.0
277 24.3 20.3 30.5





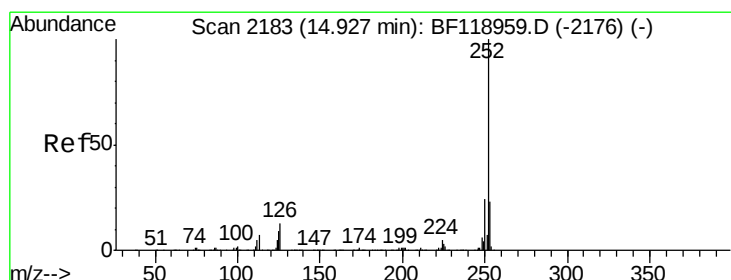
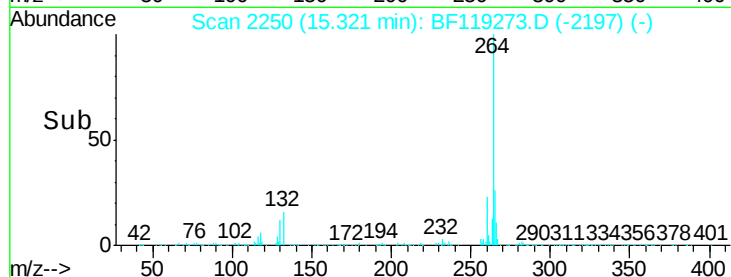
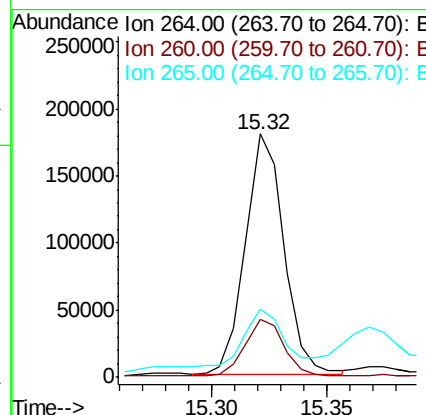
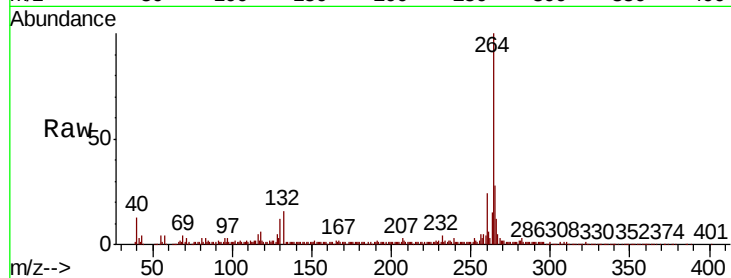
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.4	29.2
265	28.1	17.7	26.5

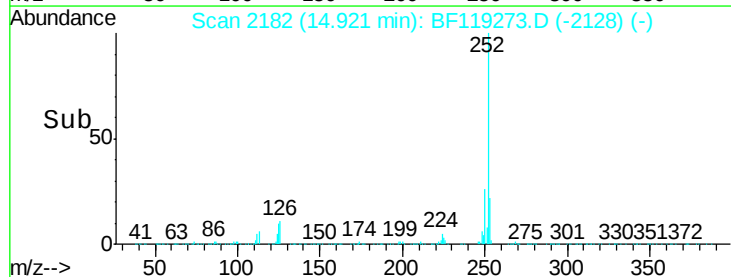
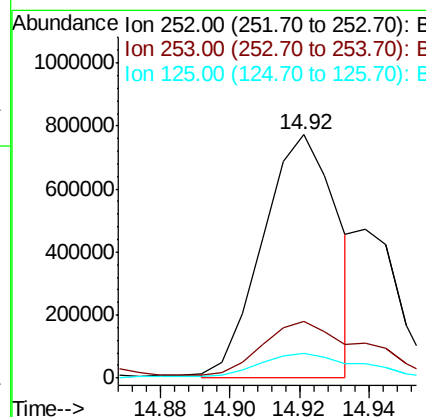
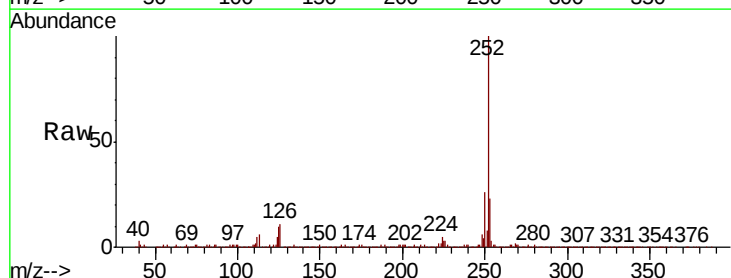
Manual Integrations
APPROVED

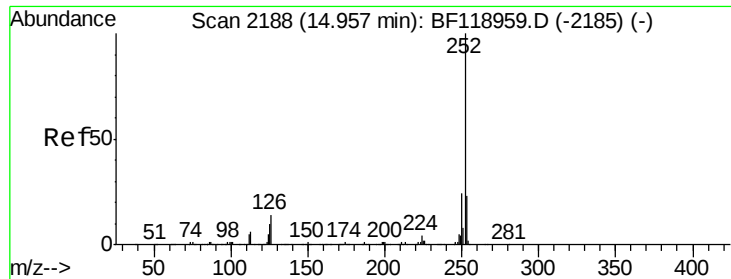
mohammad
3/9/2020 3:09:40 PM



#88
Benzo(b)fluoranthene
Concen: 83.334 ng m
RT: 14.92 min Scan# 2182
Delta R.T. 0.02 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	10.3	7.4	11.0





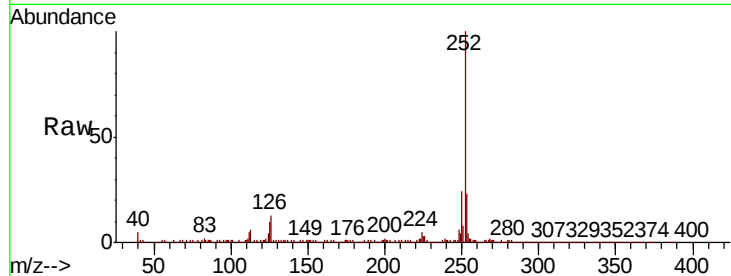
#89
Benzo(k)fluoranthene
Concen: 31.696 ng m
RT: 14.94 min Scan# 2185
Delta R.T. 0.01 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

Instrument :
BNA_F
ClientSampleId :
SU-04-030420

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	9.5	7.5	11.3

Manual Integrations
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mohammad
3/9/2020 3:09:40 PM

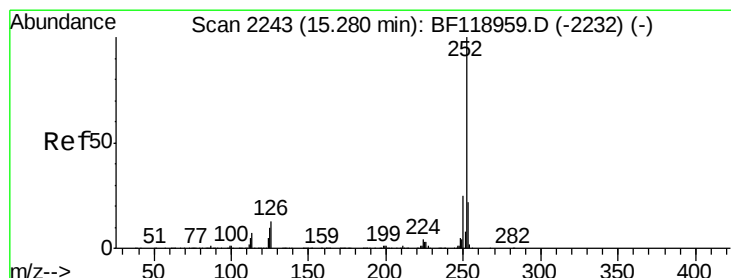
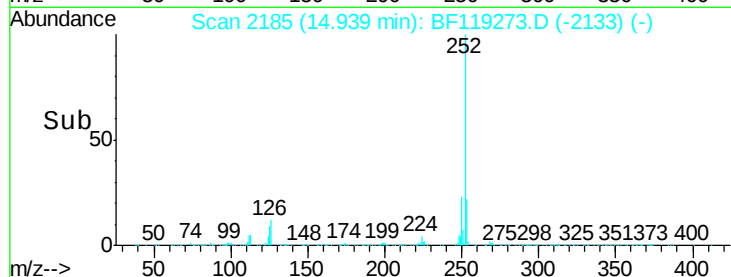
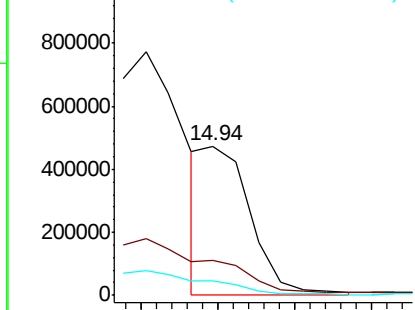


Abundance

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



#90
Benzo(a)pyrene
Concen: 80.055 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.02 min
Lab File: BF119273.D
Acq: 7 Mar 2020 2:32

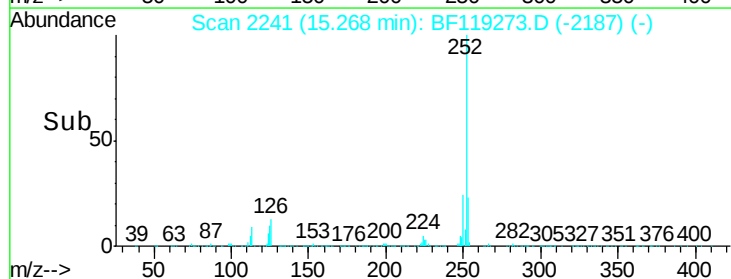
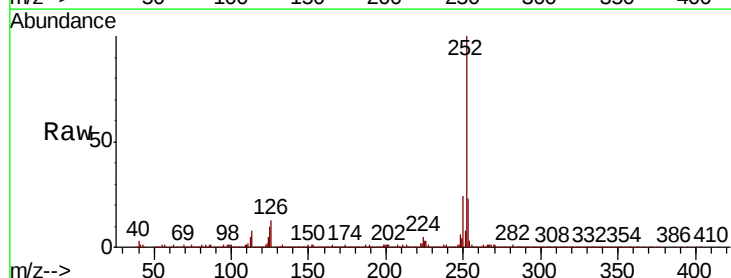
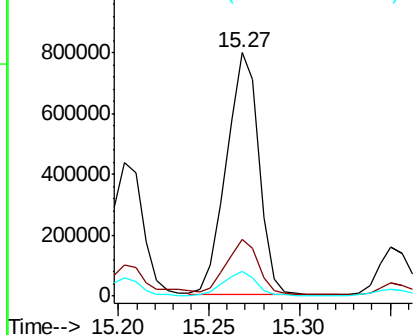
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	9.9	8.6	12.8

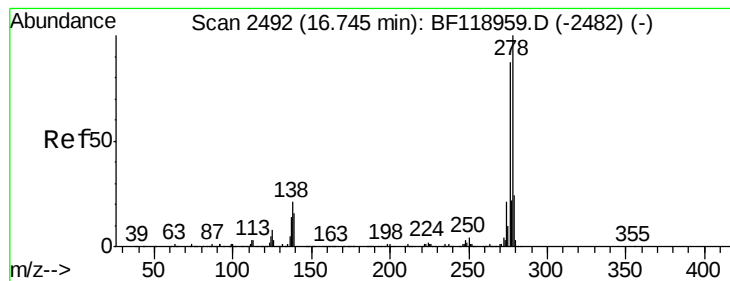
Abundance

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





#91

Dibenzo(a,h)anthracene

Concen: 10.784 ng

RT: 16.73 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

Instrument :

BNA_F

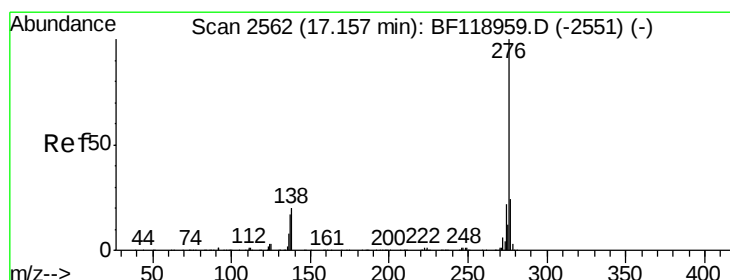
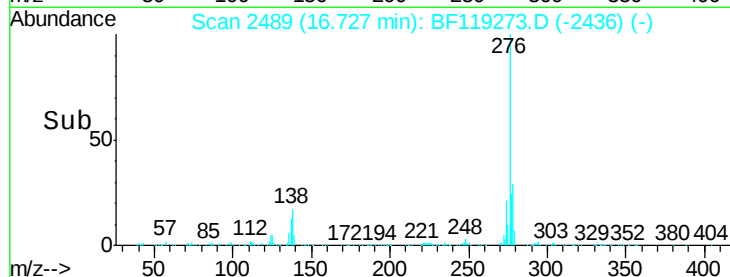
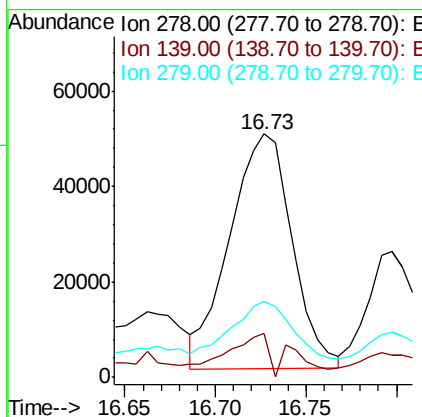
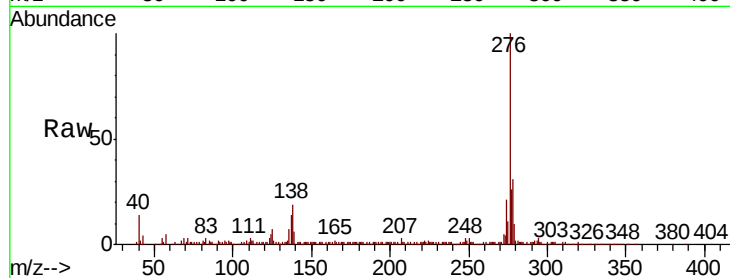
ClientSampleId :

SU-04-030420

Tot Ion:	278	Resp:	118136
Ion Ratio	Lower	Upper	
278	100		
139	18.0	11.0	16.4#
279	31.3	18.6	28.0#

Manual Integrations
APPROVED

mohammad
3/9/2020 3:09:40 PM



#92

Benzo(g,h,i)perylene

Concen: 28.449 ng

RT: 17.16 min Scan# 2562

Delta R.T. 0.02 min

Lab File: BF119273.D

Acq: 7 Mar 2020 2:32

Tgt Ion:	276	Resp:	307941
Ion Ratio	Lower	Upper	
276	100		
277	25.8	18.7	28.1
138	18.4	14.3	21.5

