

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
 Data File : BF116868.D
 Acq On : 6 Sep 2019 19:09
 Operator : HP/JU
 Sample : K4661-01 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-090519

Manual Integrations
 APPROVED

mohammad
 9/12/2019 9:25:24 AM

Quant Time: Sep 07 05:17:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 30 20:02:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	76358	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	316819	20.00	ng	0.00
39) Acenaphthene-d10	9.88	164	155931	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	214869	20.00	ng	0.00
76) Chrysene-d12	14.00	240	149622	20.00	ng	0.00
87) Perylene-d12	15.46	264	154214	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	68576	14.55	ng	0.00
7) Phenol-d6	6.47	99	95141	15.37	ng	-0.01
23) Nitrobenzene-d5	7.40	82	55471	10.00	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	13979	13.41	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	107744	11.66	ng	-0.01
79) Terphenyl-d14	12.95	244	74258	9.18	ng	0.00
Target Compounds						
31) Naphthalene	8.15	128	128663	8.540	ng	99
37) 2-Methylnaphthalene	8.84	142	73415	7.324	ng	95
38) 1-Methylnaphthalene	8.94	142	58010	6.131	ng	99
49) Acenaphthylene	9.74	152	30640	2.163	ng	# 97
52) Acenaphthene	9.92	154	75483	8.672	ng	98
55) Dibenzofuran	10.09	168	115844	9.441	ng	98
58) Fluorene	10.43	166	177890	19.026	ng	99
71) Phenanthrene	11.39	178	887846	74.229	ng	99
72) Anthracene	11.44	178	253598	21.062	ng	99
73) Carbazole	11.59	167	78776	6.868	ng	98
75) Fluoranthene	12.58	202	762306	64.851	ng	98
78) Pyrene	12.81	202	622563	46.808	ng	98
81) Benzo(a)anthracene	13.99	228	303223	32.021	ng	98
83) Chrysene	14.03	228	248310	25.452	ng	96
86) Indeno(1,2,3-cd)pyrene	16.92	276	82764	10.562	ng	97
88) Benzo(b)fluoranthene	15.04	252	279452m	29.973	ng	
89) Benzo(k)fluoranthene	15.06	252	99492m	11.704	ng	
90) Benzo(a)pyrene	15.40	252	193908	23.905	ng	99
91) Dibenzo(a,h)anthracene	16.92	278	22716	3.199	ng	# 88
92) Benzo(a,h,i)perylene	17.36	276	70235	9.699	ng	# 92

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

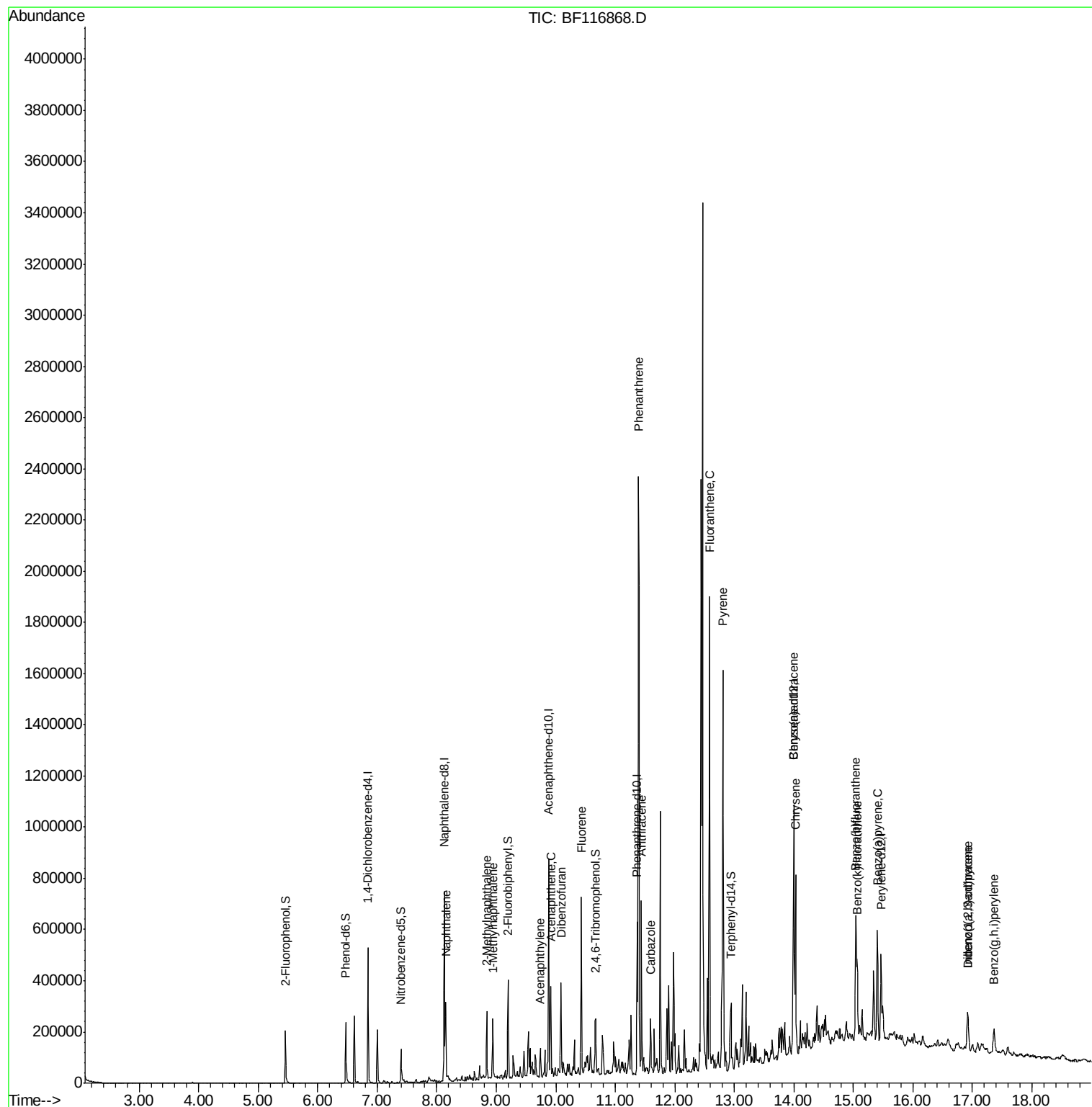
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\
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ALS Vial : 17 Sample Multiplier: 1

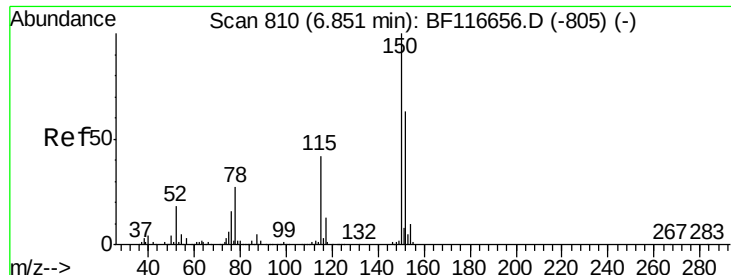
Instrument :
BNA_F
ClientSampleId :
HD-01-090519

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#1

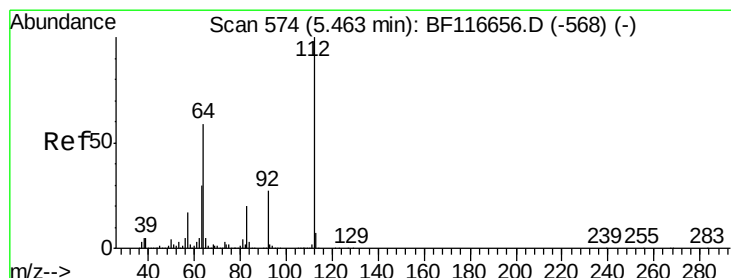
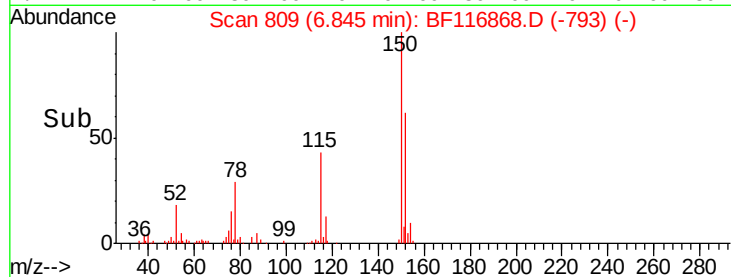
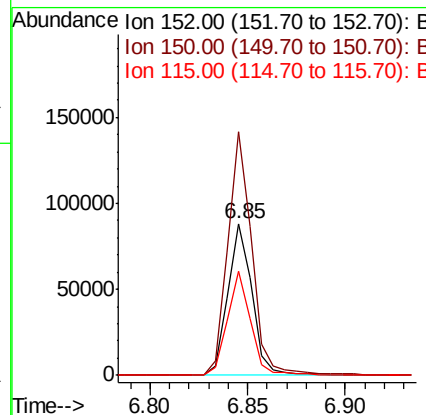
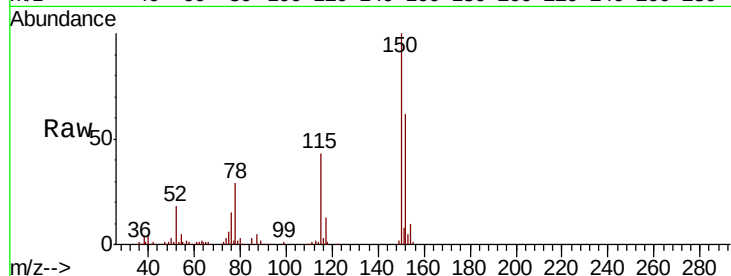
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.5	124.4	186.6
115	68.4	49.9	74.9

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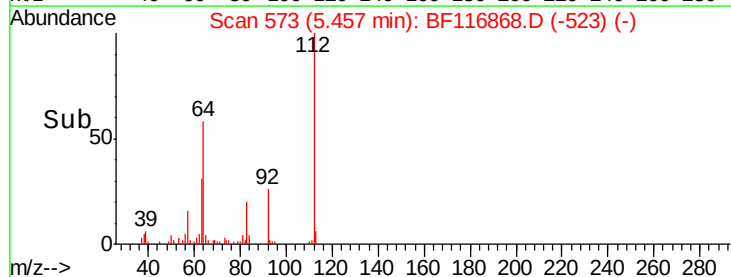
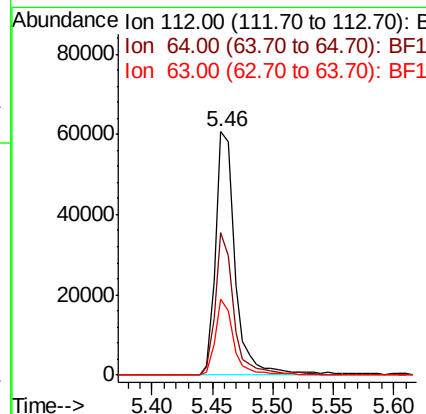
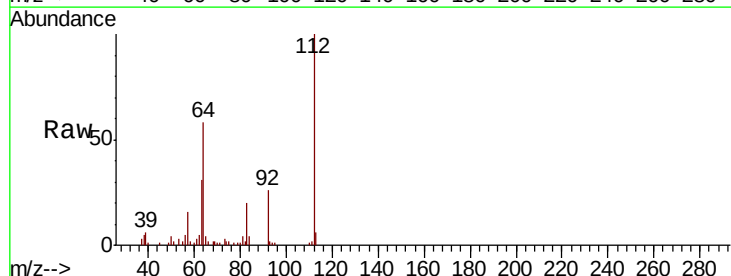
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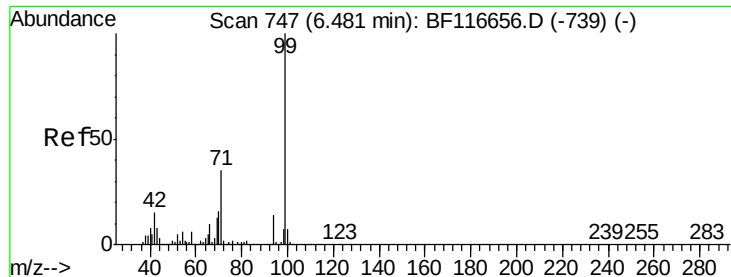


#5

2-Fluorophenol
Concen: 14.549 ng
RT: 5.46 min Scan# 573
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.1	70.7
63	31.1	24.9	37.3





#7

Phenol-d6

Concen: 15.372 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.01 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Instrument :

BNA_F

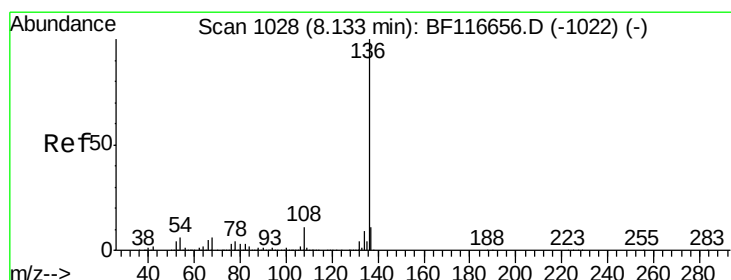
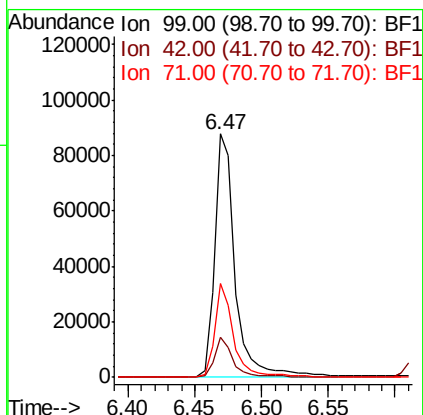
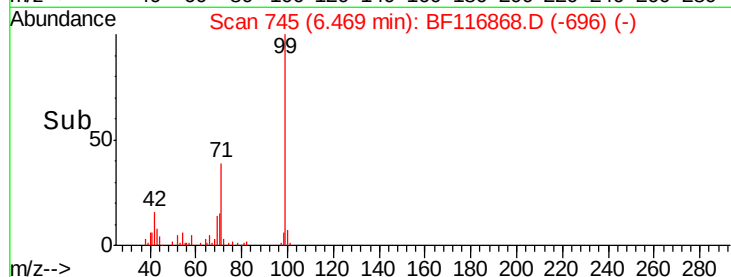
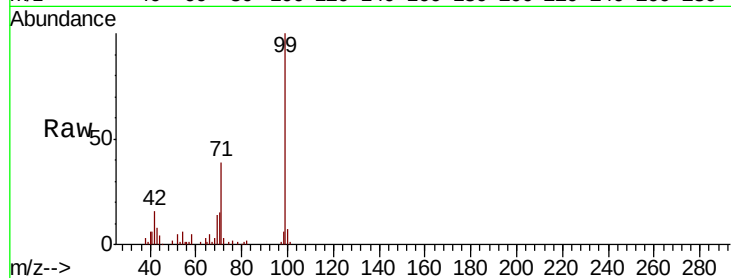
ClientSampleId :

HD-01-090519

Tot Ion:	99	Resp:	95141
Ion Ratio	Lower	Upper	
99	100		
42	16.5	13.7	20.5
71	38.8	30.8	46.2

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#21

Naphthalene-d8

Concen: 20.000 ng

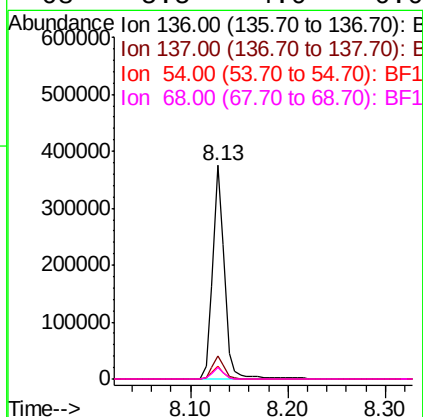
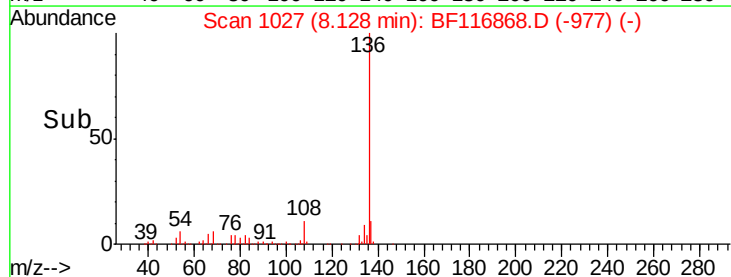
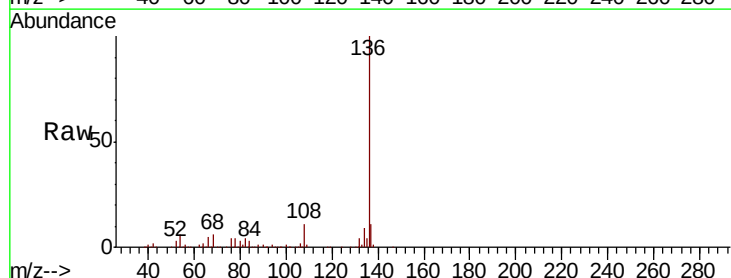
RT: 8.13 min Scan# 1027

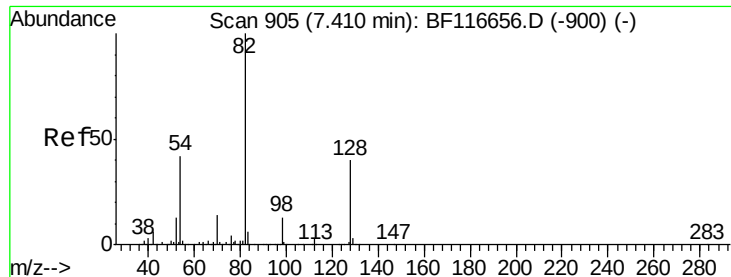
Delta R.T. -0.01 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Tgt Ion:	136	Resp:	316819
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	5.7	4.8	7.2
68	5.5	4.0	6.0





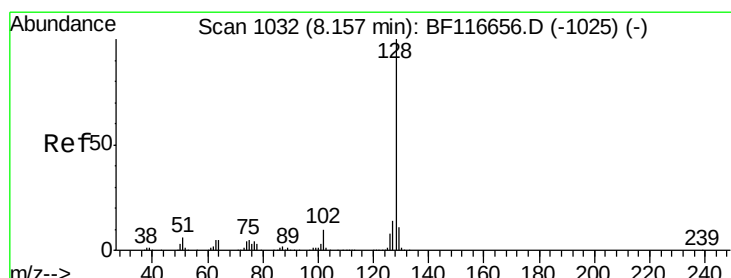
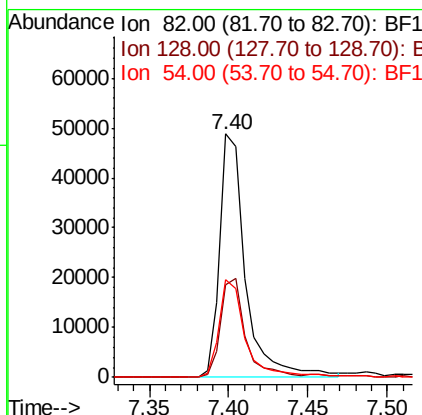
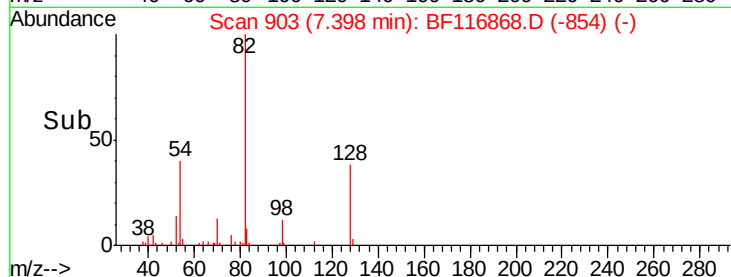
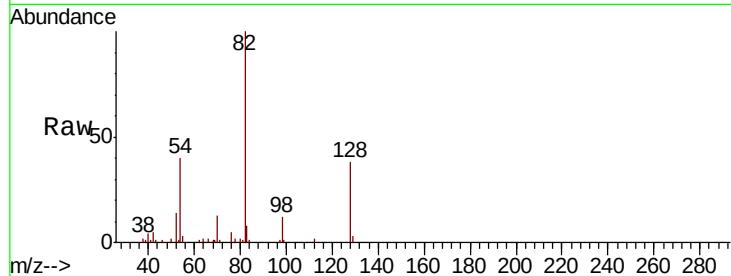
#23
Nitrobenzene-d5
Concen: 9.995 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
82	100		
128	38.1	32.8	49.2
54	40.0	36.9	55.3

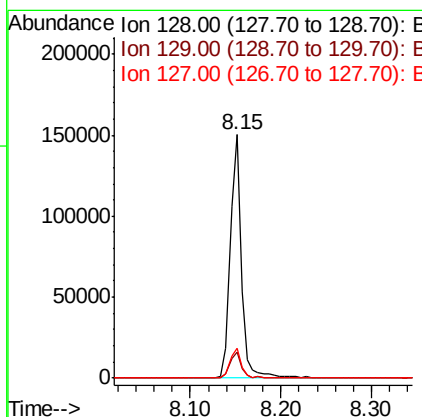
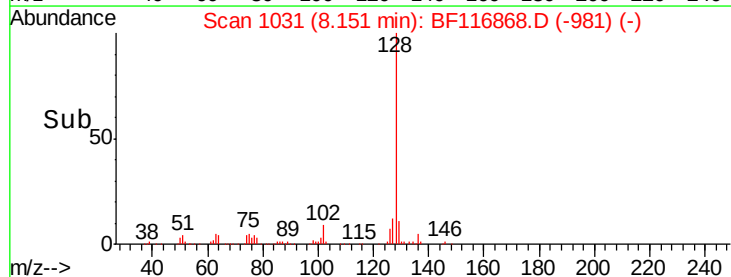
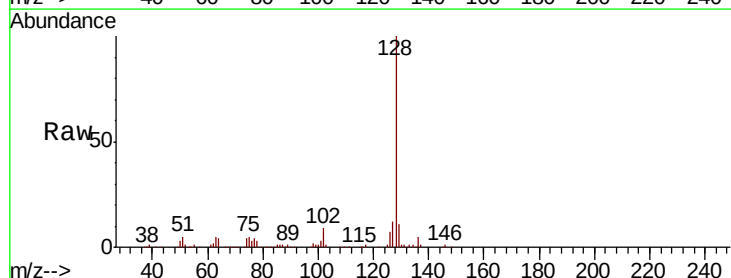
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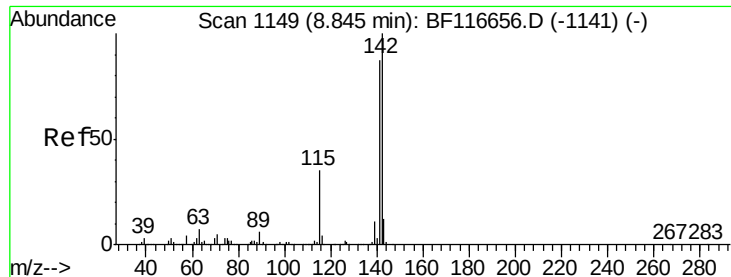
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#31
Naphthalene
Concen: 8.540 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	13.0
127	12.0	10.4	15.6





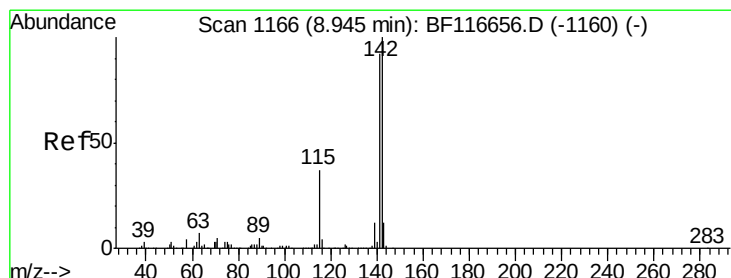
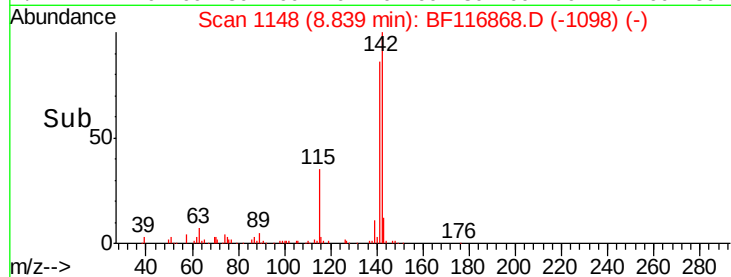
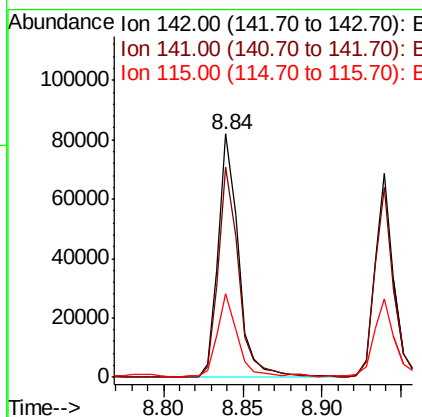
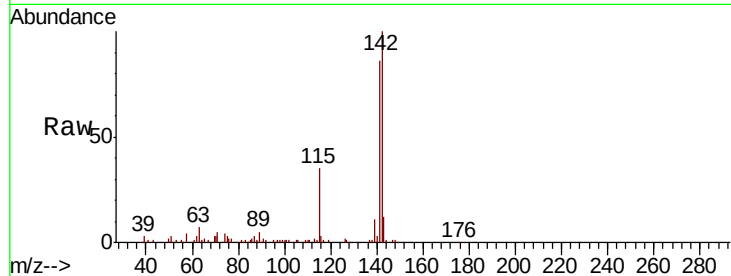
#37
2-Methylnaphthalene
Concen: 7.324 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampled :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.2	72.6	109.0
115	34.5	29.8	44.6

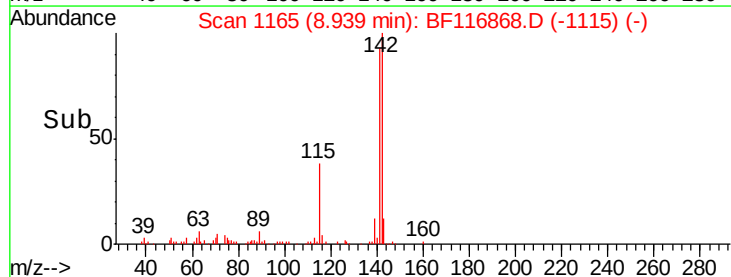
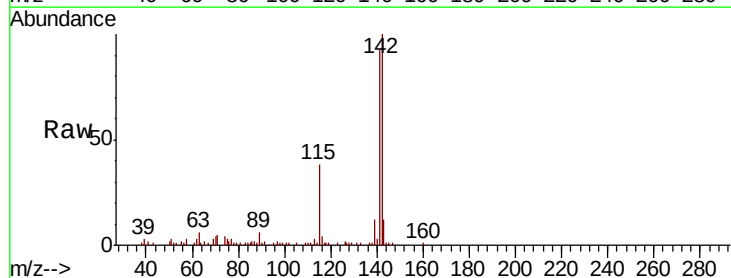
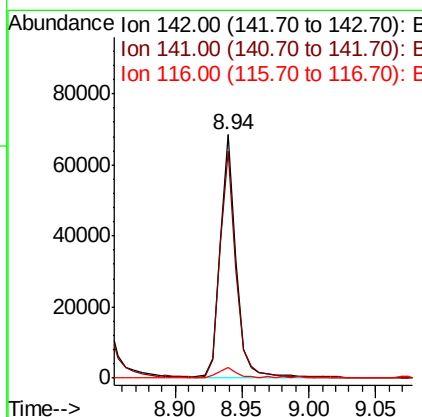
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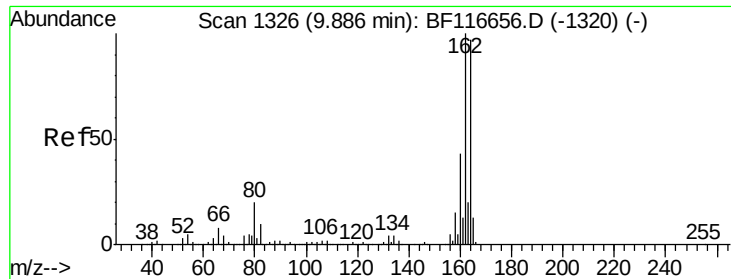
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#38
1-Methylnaphthalene
Concen: 6.131 ng
RT: 8.94 min Scan# 1165
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.1	73.9	110.9
116	4.2	3.0	4.6





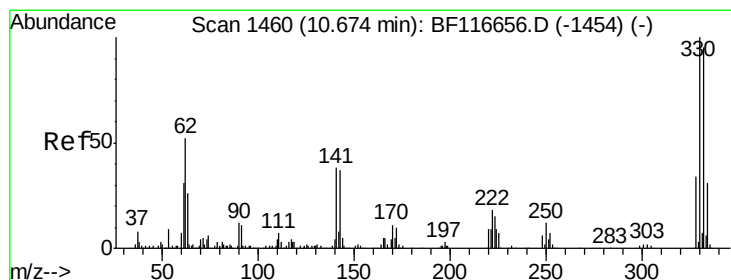
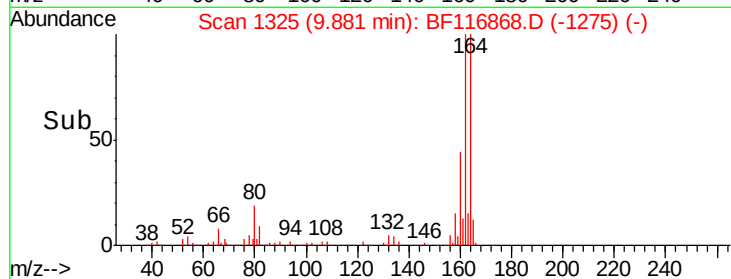
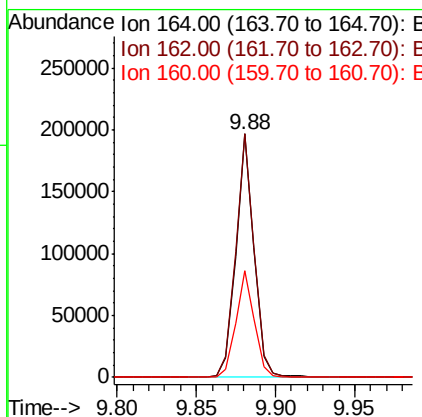
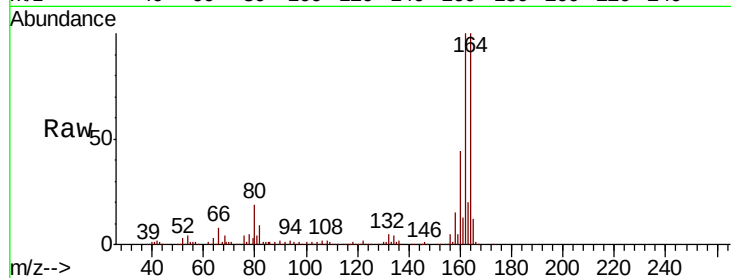
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion:	164	Resp:	155931
Ion Ratio	Lower	Upper	
164	100		
162	99.9	81.4	122.0
160	43.8	35.4	53.2

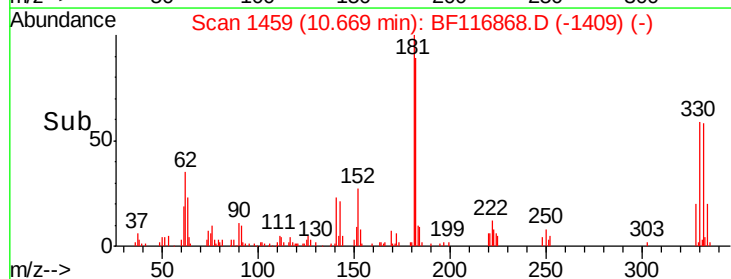
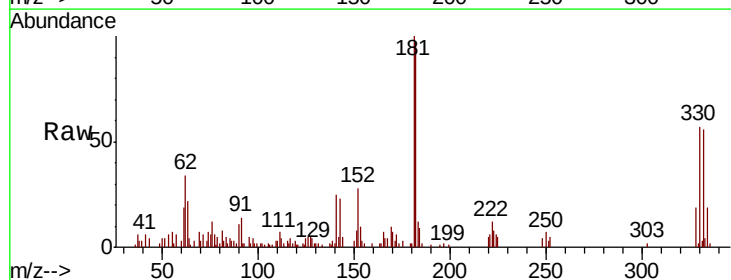
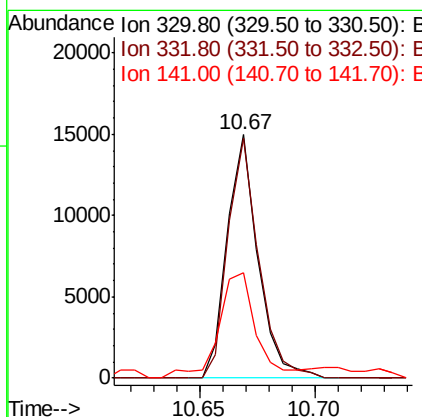
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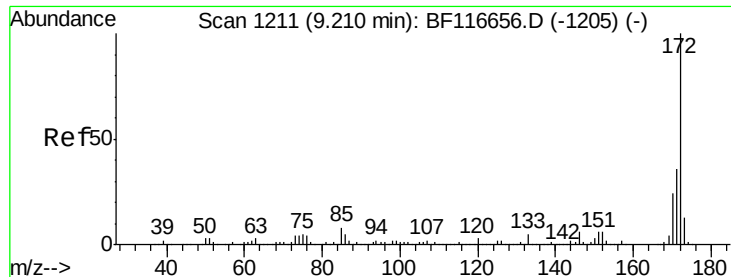
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#42
2,4,6-Tribromophenol
Concen: 13.410 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion:	330	Resp:	13979
Ion Ratio	Lower	Upper	
330	100		
332	98.6	76.9	115.3
141	52.4	31.4	47.2#





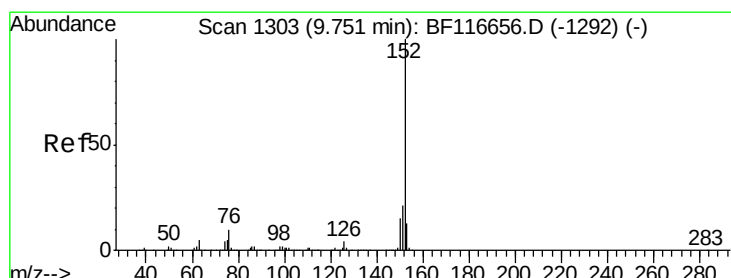
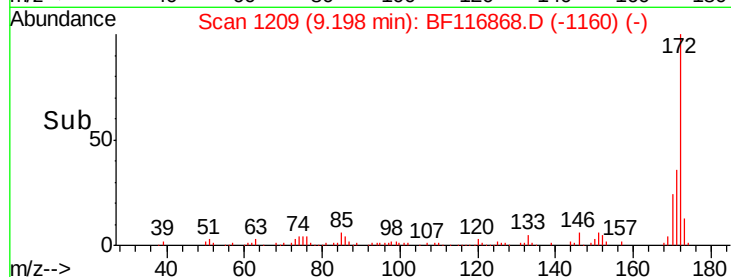
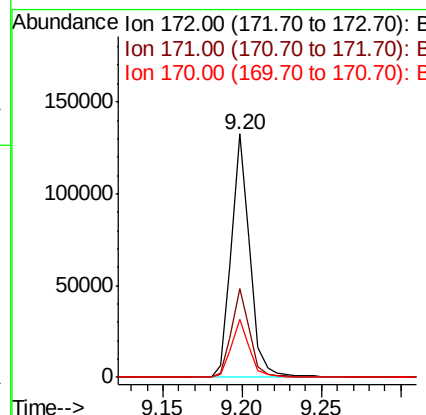
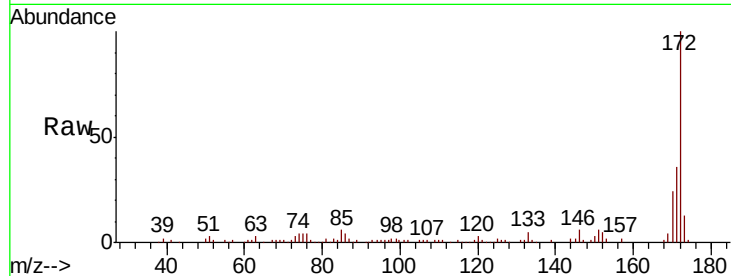
#45
2-Fluorobiphenyl
Concen: 11.656 ng
RT: 9.20 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	27.8	41.6
170	24.1	18.9	28.3

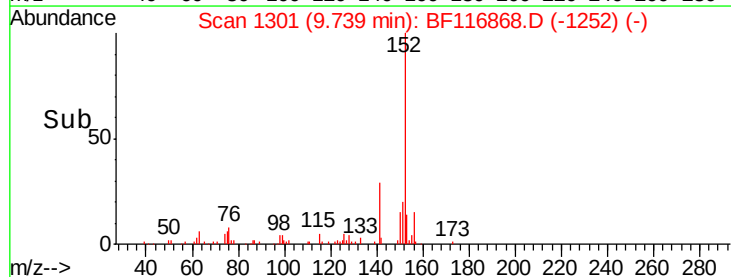
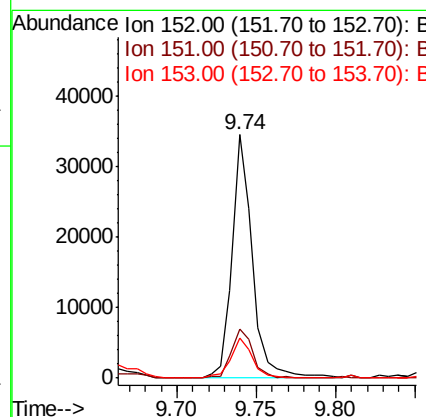
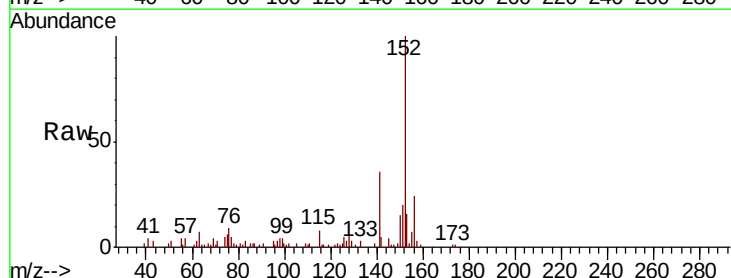
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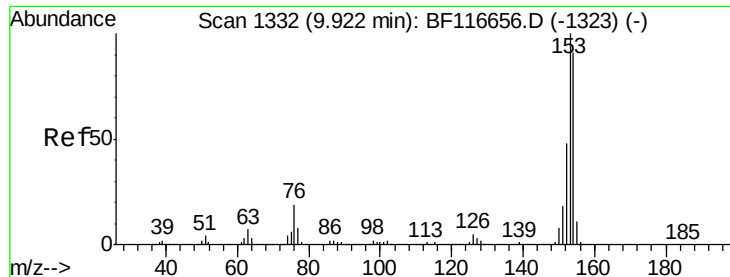
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#49
Acenaphthylene
Concen: 2.163 ng
RT: 9.74 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	16.3	10.9	16.3#





#52

Acenaphthene

Concen: 8.672 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Instrument :

BNA_F

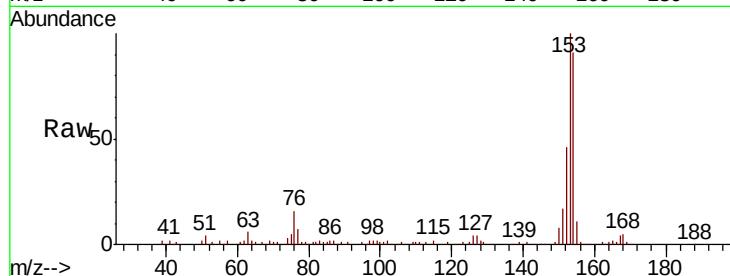
ClientSampleId :

HD-01-090519

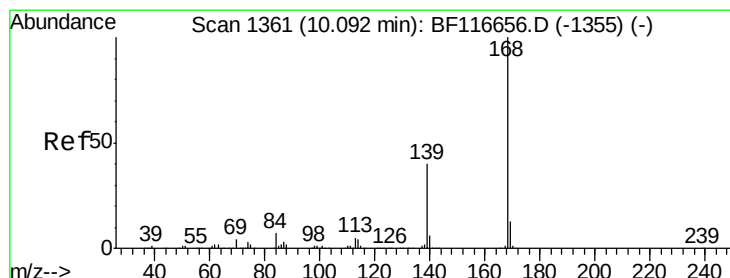
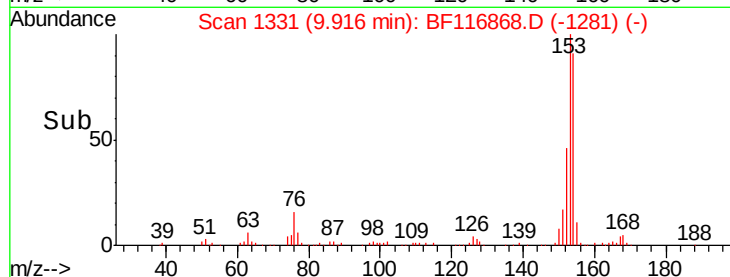
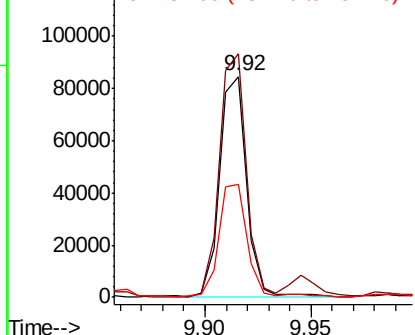
Tot Ion:	154	Resp:	75483
Ion Ratio	Lower	Upper	
154	100		
153	110.2	89.5	134.3
152	51.0	41.9	62.9

Manual Integrations
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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: 9.441 ng

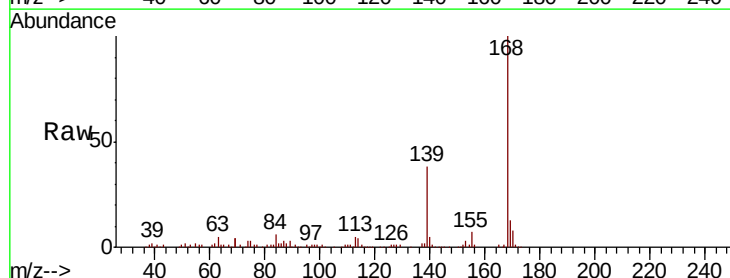
RT: 10.09 min Scan# 1360

Delta R.T. -0.01 min

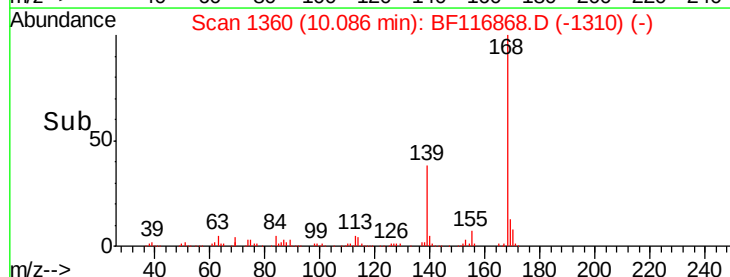
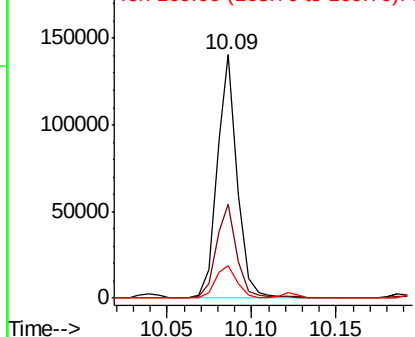
Lab File: BF116868.D

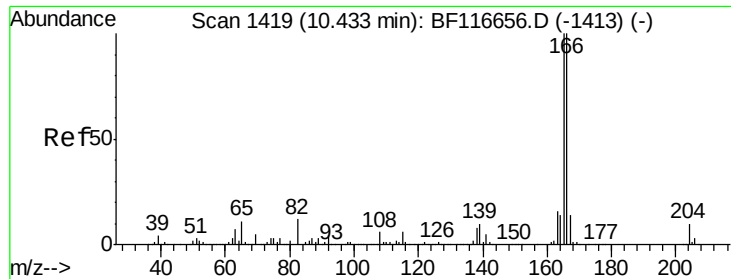
Acq: 6 Sep 2019 19:09

Tgt Ion:	168	Resp:	115844
Ion Ratio	Lower	Upper	
168	100		
139	38.3	31.5	47.3
169	13.4	10.3	15.5



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





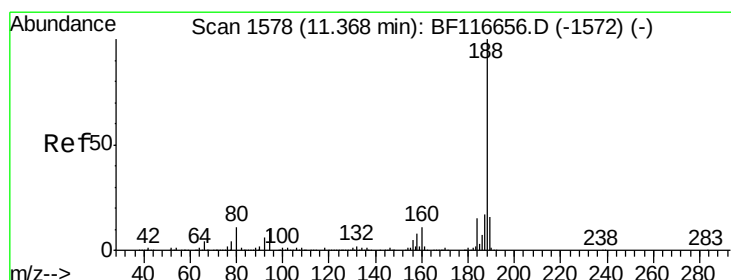
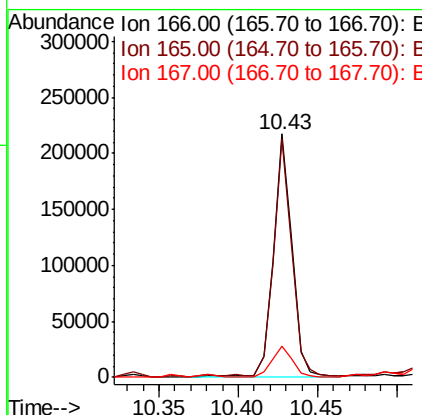
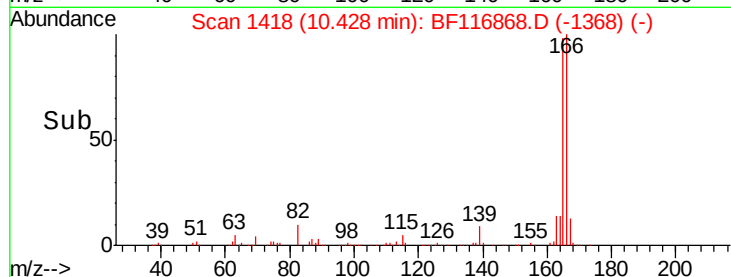
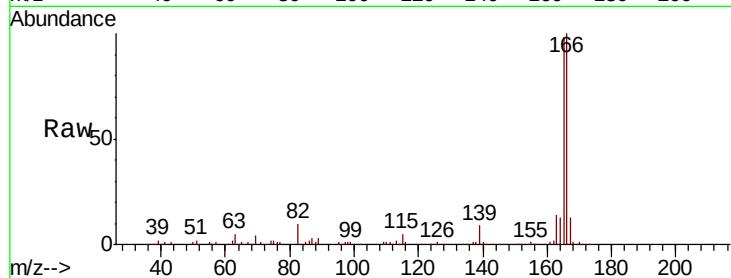
#58
 Fluorene
 Concen: 19.026 ng
 RT: 10.43 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-090519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		177890		
165	97.9	78.8	118.2		
167	13.0	10.0	15.0		

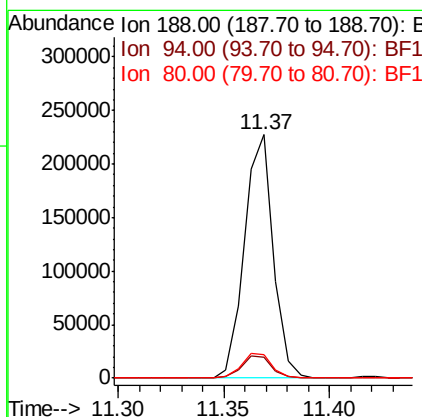
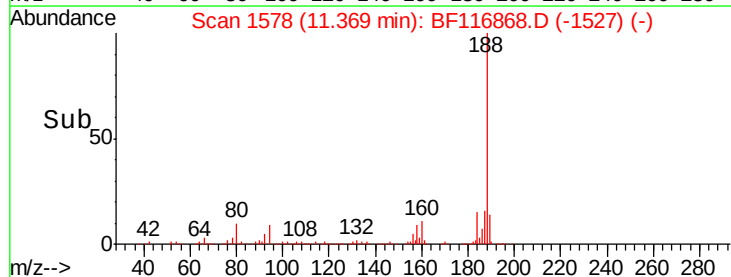
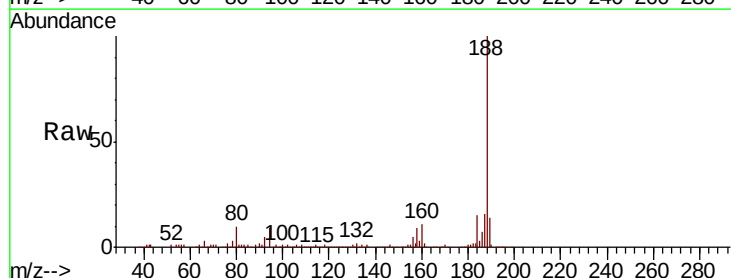
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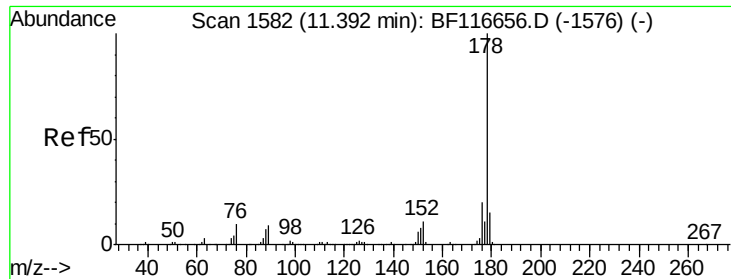
mohammad
 9/12/2019 9:25:24 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		214869		
94	8.8	7.3	10.9		
80	9.7	8.4	12.6		





#71

Phenanthrene

Concen: 74.229 ng

RT: 11.39 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Instrument :

BNA_F

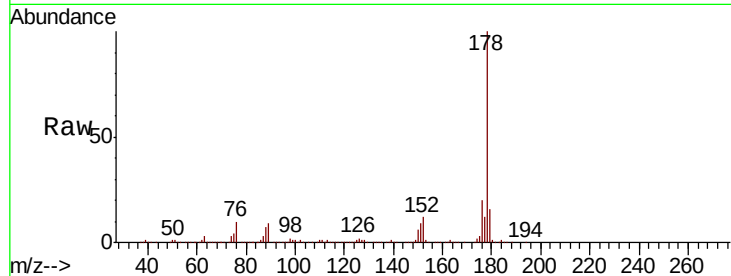
ClientSampleId :

HD-01-090519

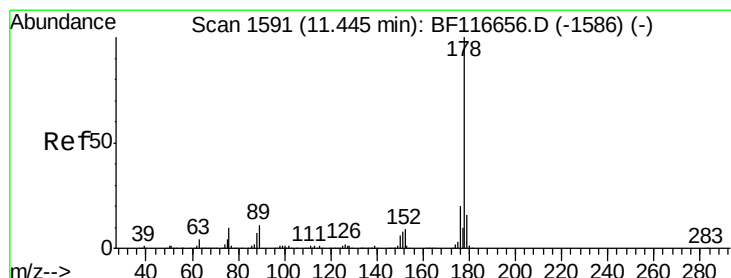
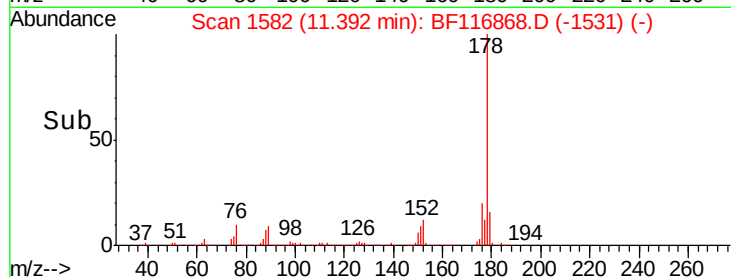
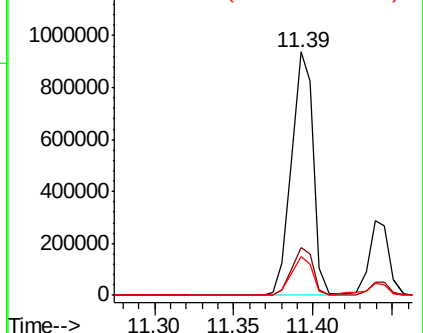
Tot Ion:178	Resp:	887846
Ion Ratio	Lower	Upper
178	100	
176	19.8	15.4 23.0
179	15.7	12.2 18.2

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



#72

Anthracene

Concen: 21.062 ng

RT: 11.44 min Scan# 1590

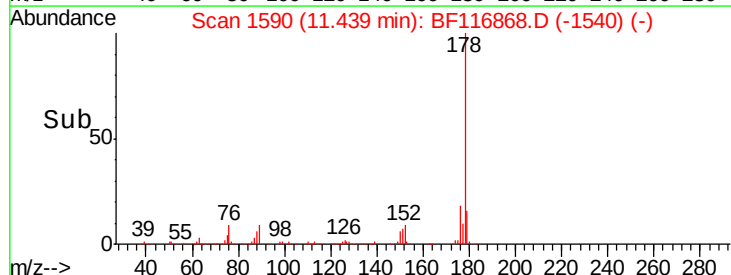
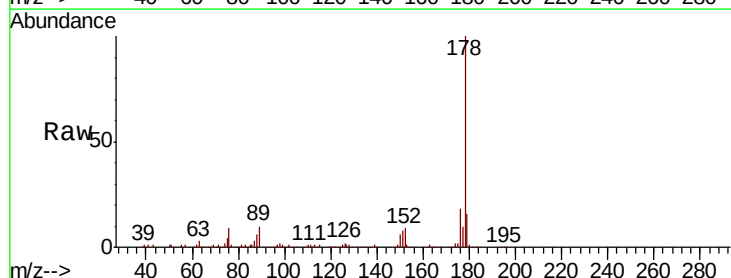
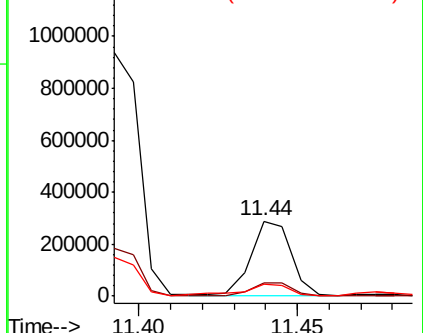
Delta R.T. -0.00 min

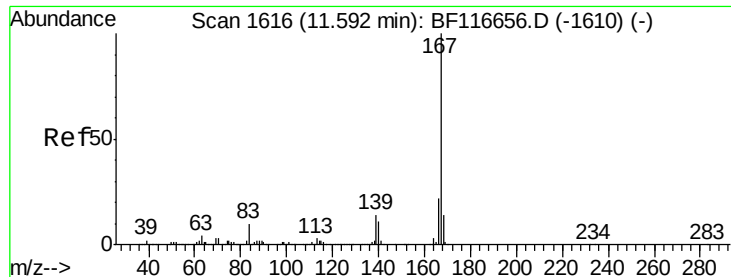
Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Tgt Ion:178	Resp:	253598
Ion Ratio	Lower	Upper
178	100	
176	18.2	15.4 23.0
179	15.7	12.5 18.7

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





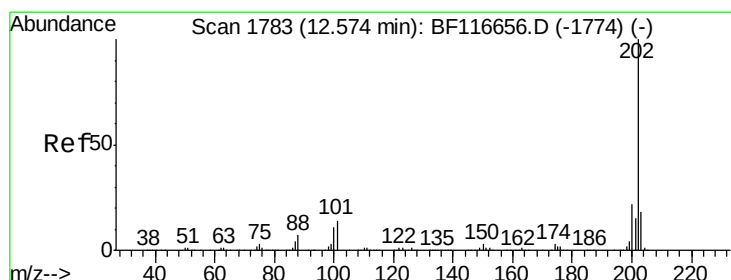
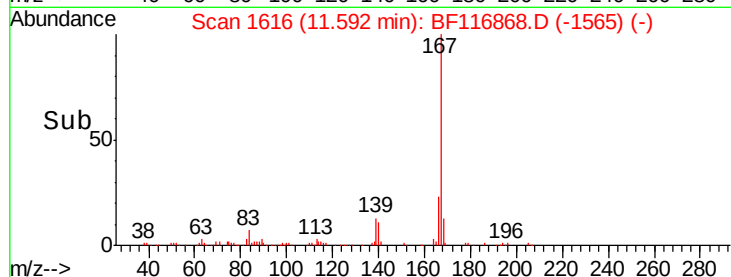
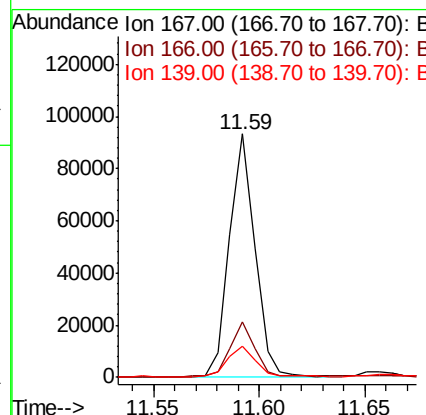
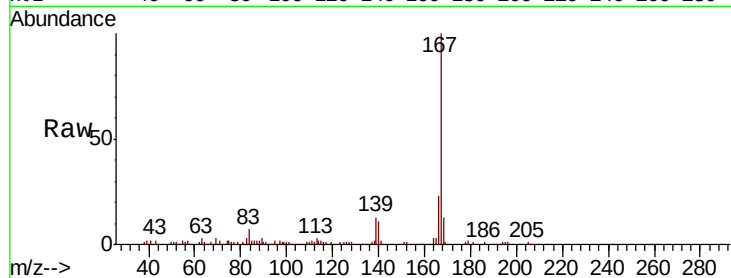
#73
 Carbazole
 Concen: 6.868 ng
 RT: 11.59 min Scan# 1616
 Delta R.T. 0.00 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-090519

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.8	17.8	26.6
139	13.1	11.1	16.7

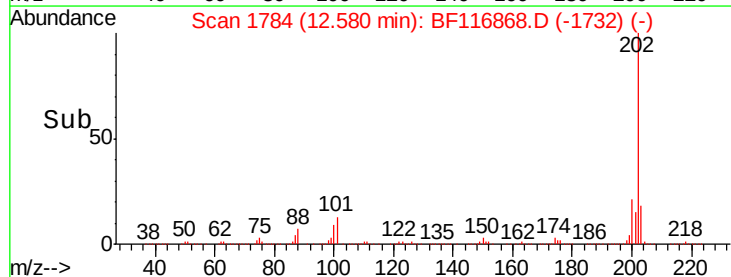
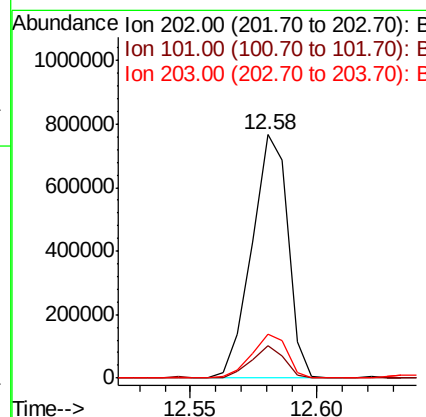
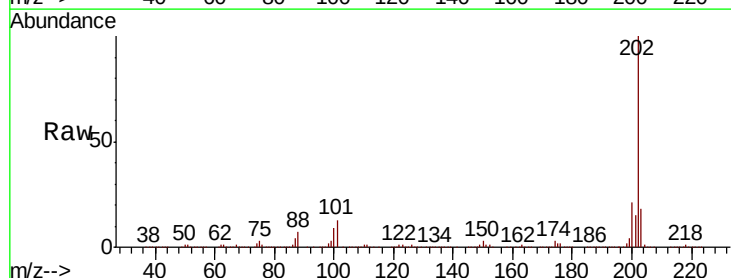
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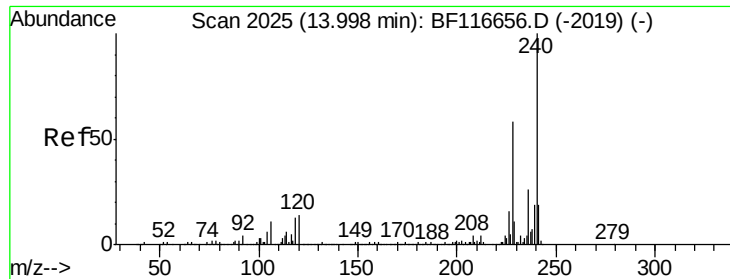
mohammad
 9/12/2019 9:25:24 AM



#75
 Fluoranthene
 Concen: 64.851 ng
 RT: 12.58 min Scan# 1784
 Delta R.T. 0.01 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	31.3
203	17.9	0.0	37.6





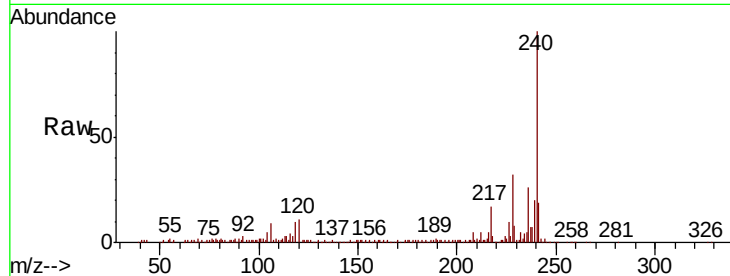
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.00 min Scan# 2026
Delta R.T. 0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.1	13.7
236	25.5	21.1	31.7

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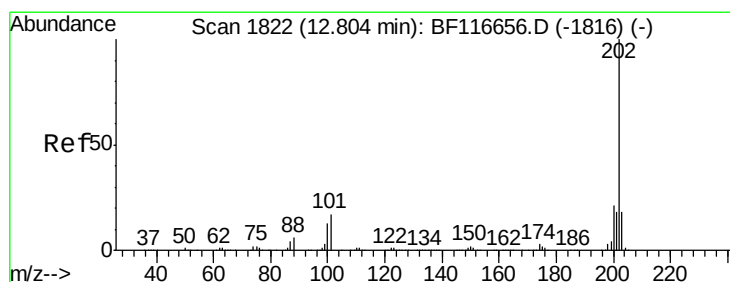
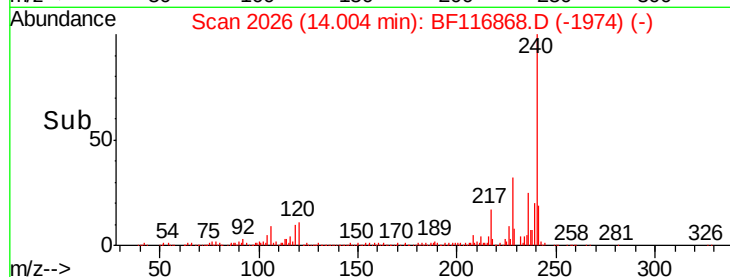
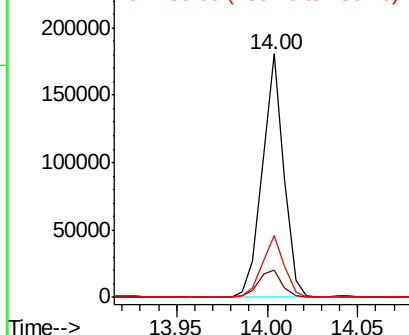


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78
Pyrene
Concen: 46.808 ng
RT: 12.81 min Scan# 1823
Delta R.T. 0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

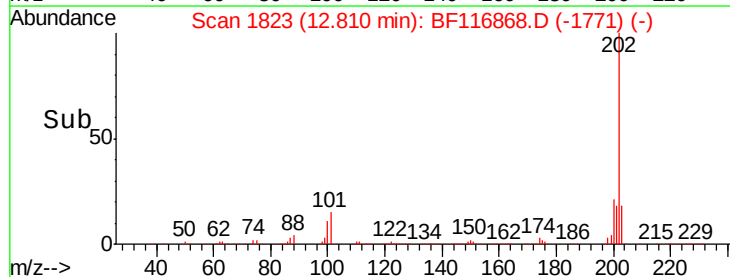
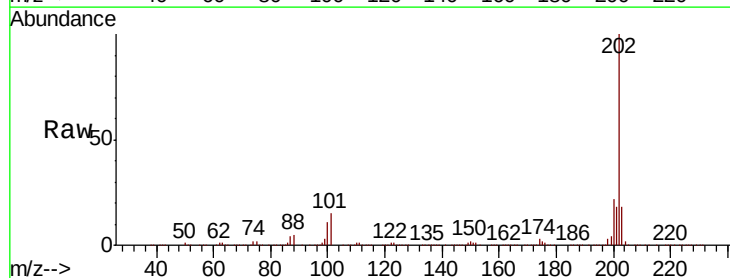
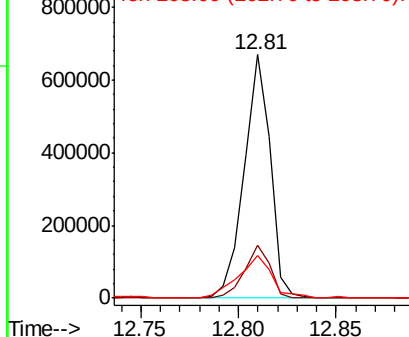
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.5	24.7
203	17.8	13.7	20.5

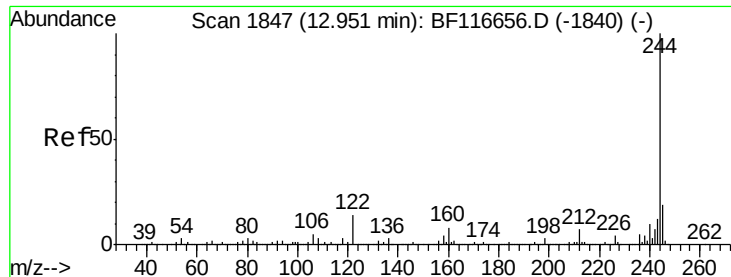
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





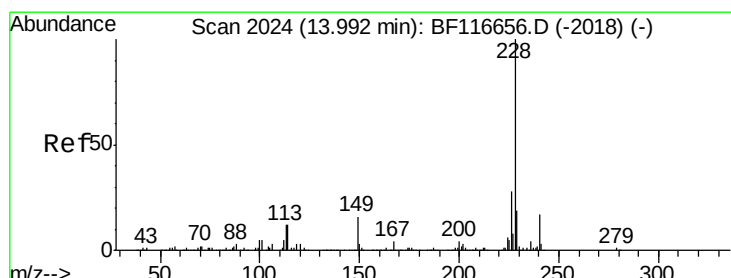
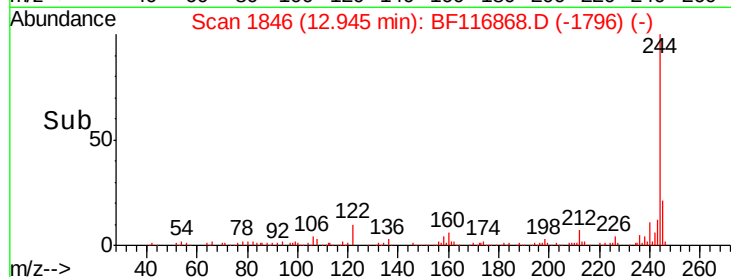
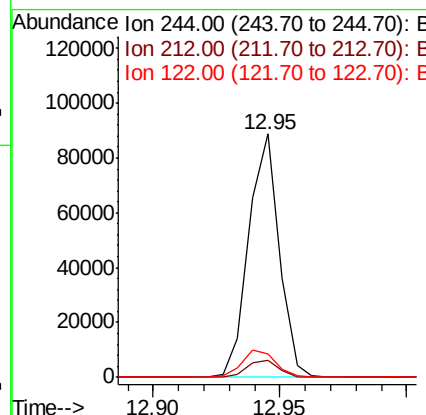
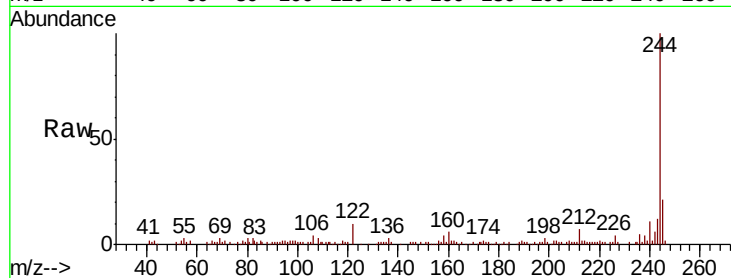
#79
 Terphenyl-d14
 Concen: 9.181 ng
 RT: 12.95 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-090519

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.1	9.1
122	9.9	10.2	15.4

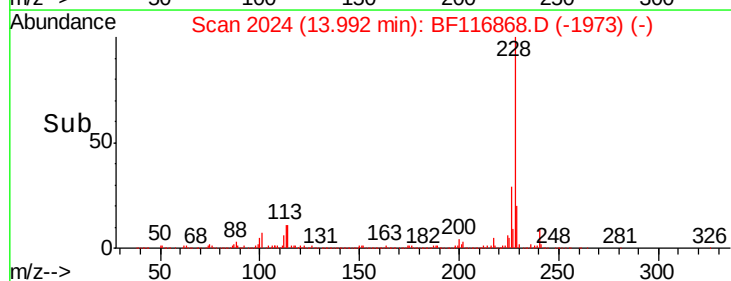
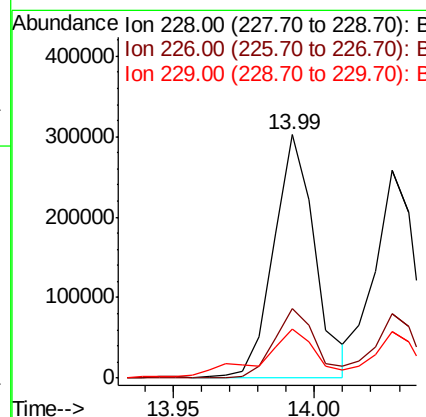
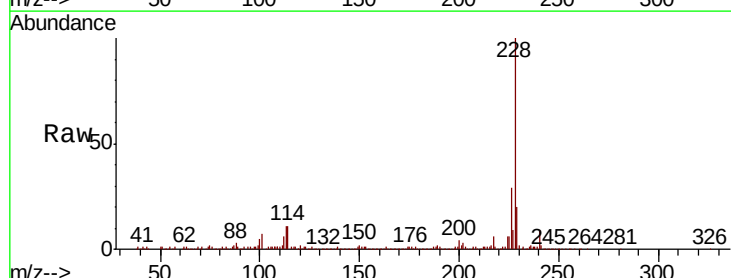
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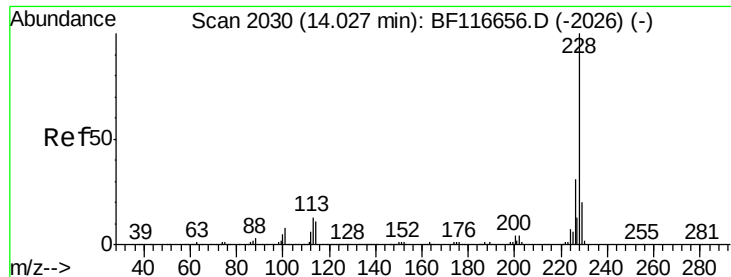
mohammad
 9/12/2019 9:25:24 AM



#81
 Benzo(a)anthracene
 Concen: 32.021 ng
 RT: 13.99 min Scan# 2024
 Delta R.T. 0.00 min
 Lab File: BF116868.D
 Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.0	33.0
229	20.0	16.4	24.6





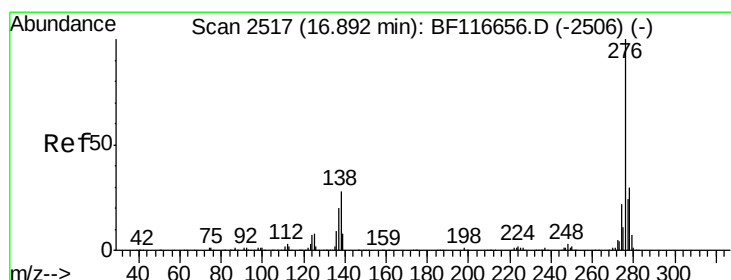
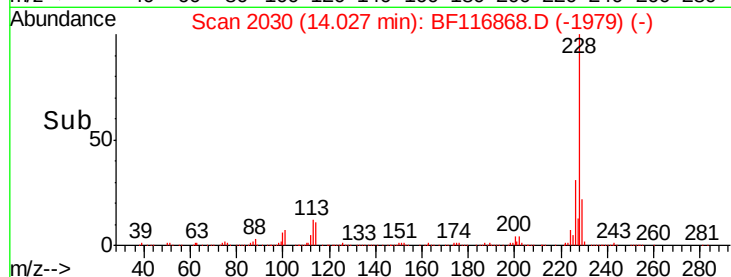
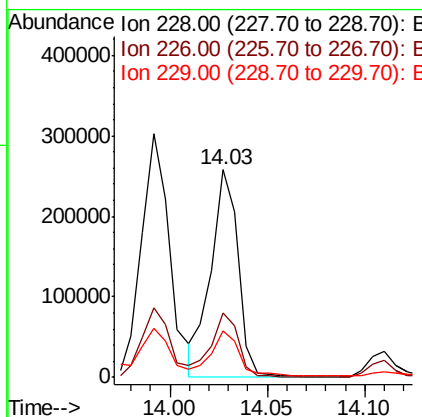
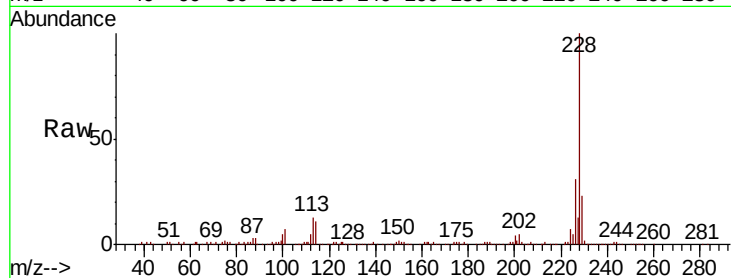
#83
Chrysene
Concen: 25.452 ng
RT: 14.03 min Scan# 2030
Delta R.T. 0.00 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.0	36.0
229	22.6	15.4	23.0

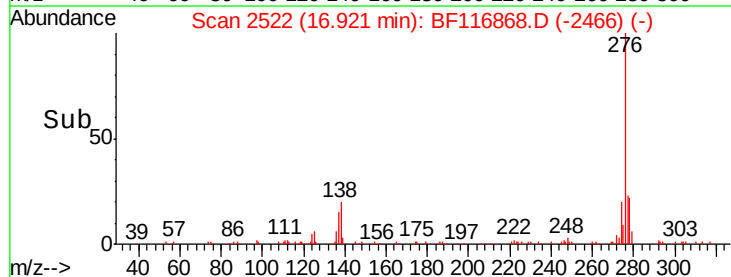
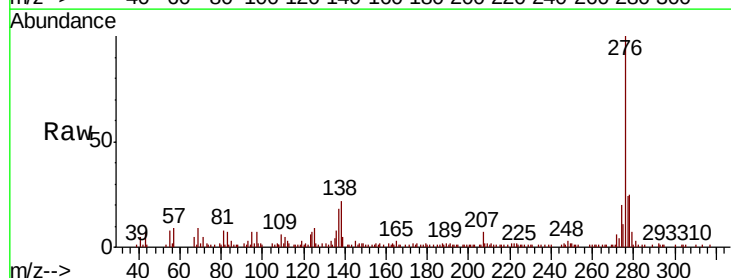
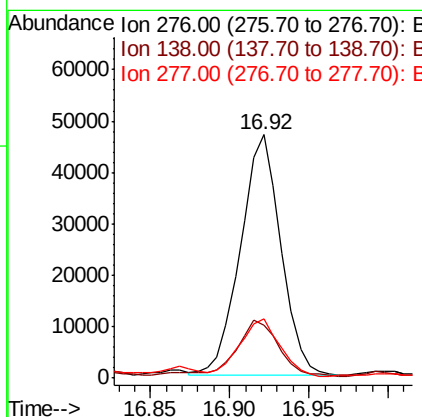
Manual Integrations
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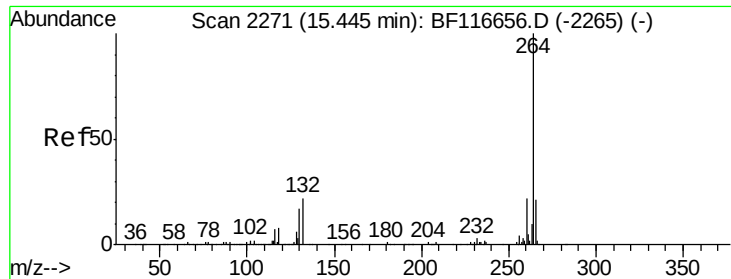
mohammad
9/12/2019 9:25:24 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.562 ng
RT: 16.92 min Scan# 2522
Delta R.T. 0.03 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.2
277	23.3	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Instrument :

BNA_F

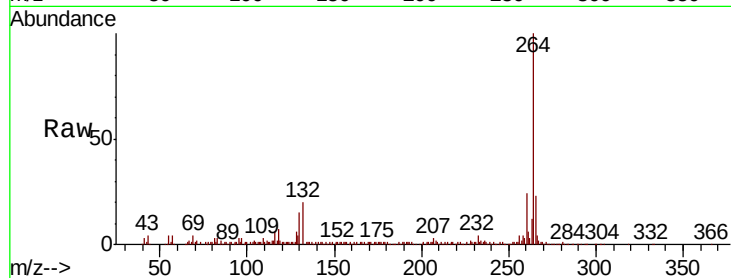
ClientSampleId :

HD-01-090519

Tot Ion:	264	Resp:	154214
Ion Ratio	Lower	Upper	
264	100		
260	24.3	18.3	27.5
265	23.2	16.5	24.7

Manual Integrations
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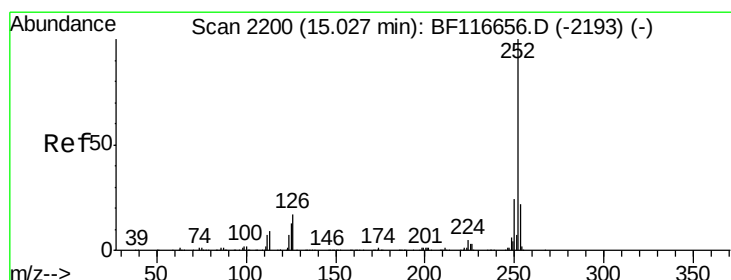
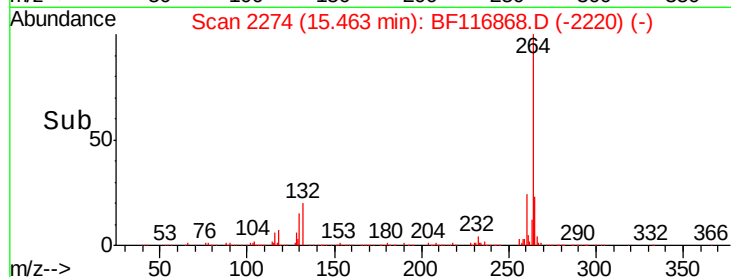
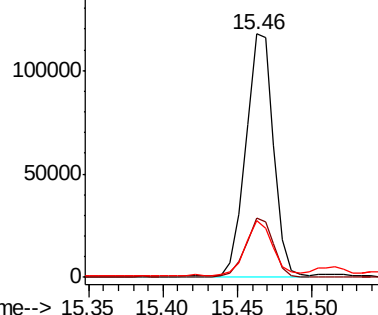


Abundance

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: 29.973 ng m

RT: 15.04 min Scan# 2202

Delta R.T. 0.01 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

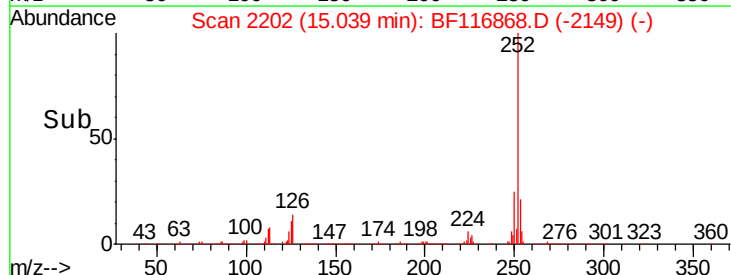
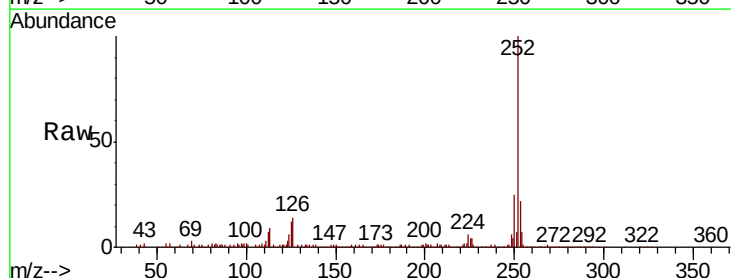
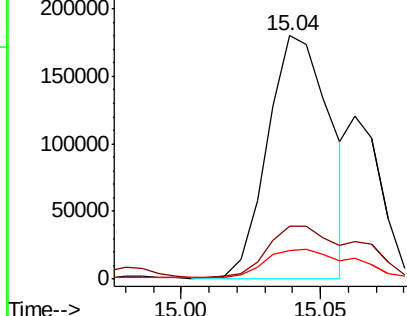
Tgt Ion:	252	Resp:	279452
Ion Ratio	Lower	Upper	
252	100		
253	21.7	17.7	26.5
125	11.6	8.2	12.2

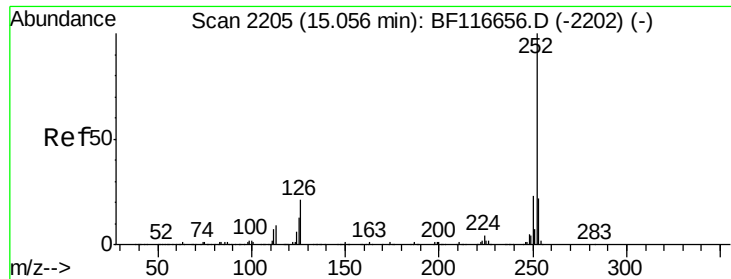
Abundance

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





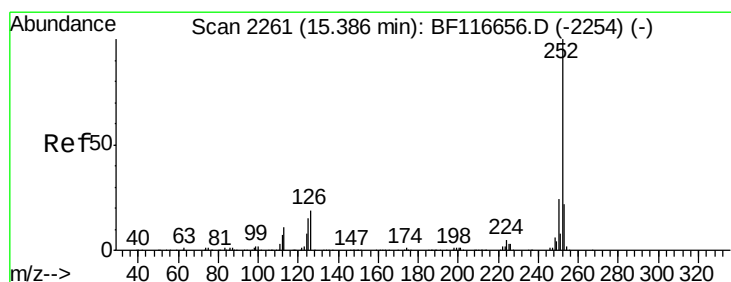
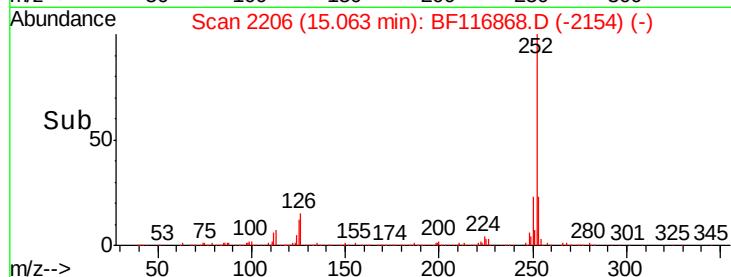
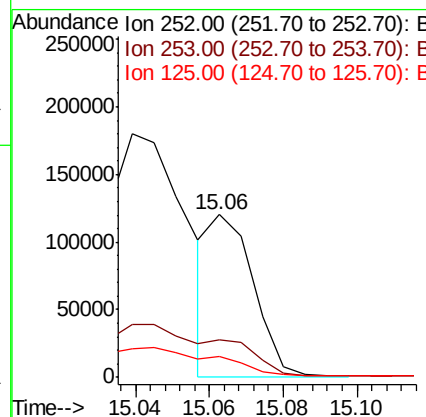
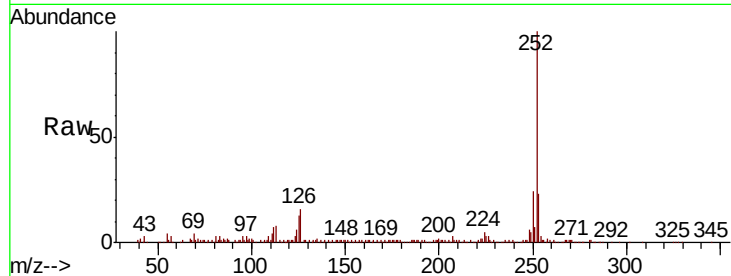
#89
Benzo(k)fluoranthene
Concen: 11.704 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.01 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Instrument :
BNA_F
ClientSampleId :
HD-01-090519

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.7	26.5
125	13.2	8.6	13.0

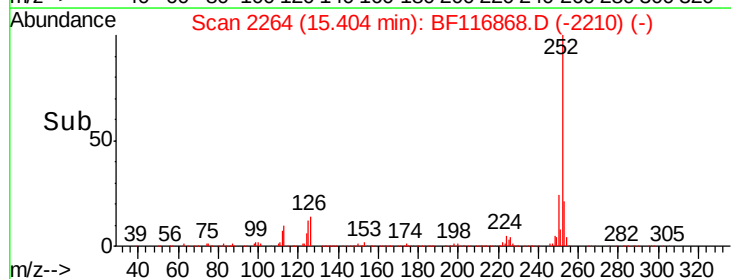
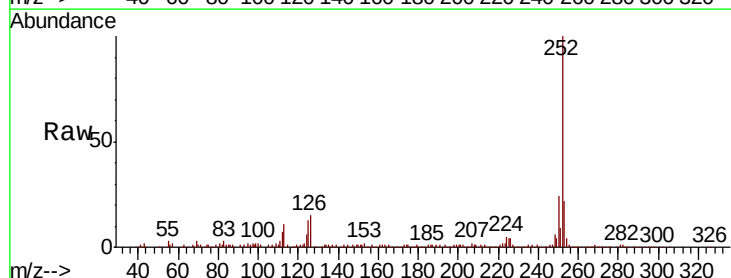
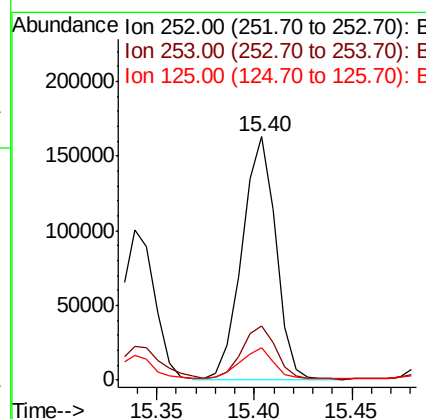
Manual Integrations
APPROVED

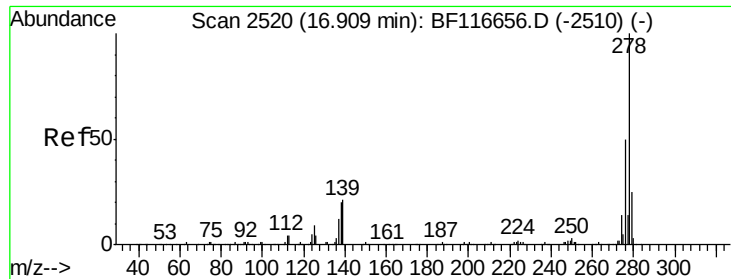
mohammad
9/12/2019 9:25:24 AM



#90
Benzo(a)pyrene
Concen: 23.905 ng
RT: 15.40 min Scan# 2264
Delta R.T. 0.02 min
Lab File: BF116868.D
Acq: 6 Sep 2019 19:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.1	27.1
125	13.1	9.8	14.8





#91

Dibenzo(a,h)anthracene

Concen: 3.199 ng

RT: 16.92 min Scan# 2522

Delta R.T. 0.01 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Instrument :

BNA_F

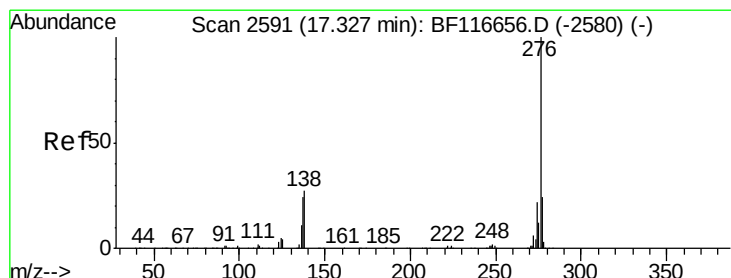
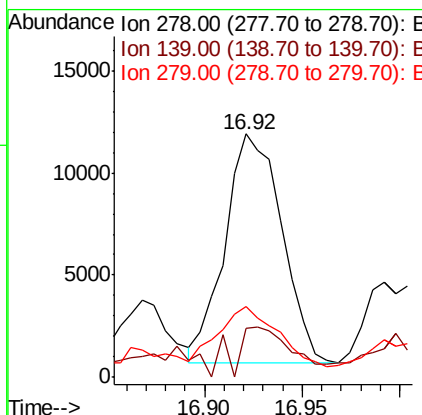
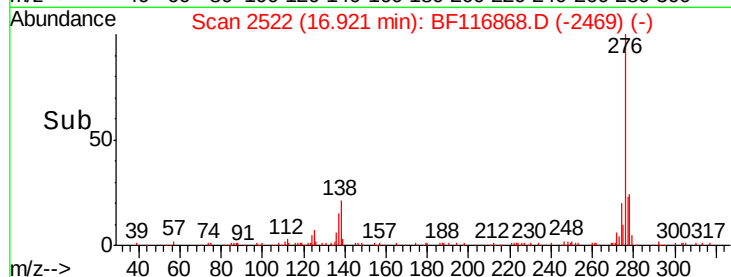
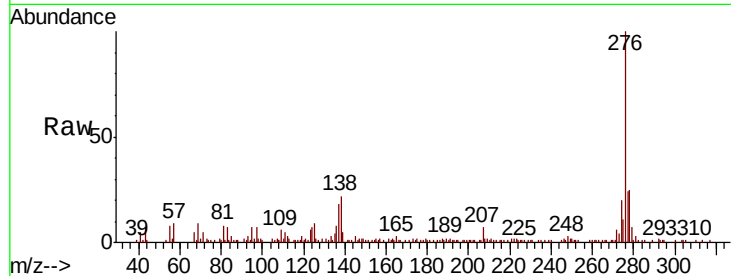
ClientSampleId :

HD-01-090519

Tot Ion:	278	Resp:	22716
Ion Ratio	Lower	Upper	
278	100		
139	20.0	12.4	18.6#
279	29.1	18.2	27.4#

Manual Integrations
APPROVED

mohammad
9/12/2019 9:25:24 AM



#92

Benzo(g,h,i)perylene

Concen: 9.699 ng

RT: 17.36 min Scan# 2597

Delta R.T. 0.04 min

Lab File: BF116868.D

Acq: 6 Sep 2019 19:09

Tgt Ion:	276	Resp:	70235
Ion Ratio	Lower	Upper	
276	100		
277	26.2	18.5	27.7
138	24.8	16.2	24.2#

