

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\
 Data File : BF115755.D
 Acq On : 25 Jul 2019 12:38
 Operator : HP/JU
 Sample : K3887-03DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(2)DL

Manual Integrations
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 7/26/2019 3:02:42 PM

Quant Time: Jul 25 13:28:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 25 13:16:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	120055	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	509011	20.00	ng	0.00
39) Acenaphthene-d10	9.90	164	294929	20.00	ng	0.00
64) Phenanthrene-d10	11.39	188	532505	20.00	ng	0.00
76) Chrysene-d12	14.03	240	355912	20.00	ng	0.00
87) Perylene-d12	15.50	264	390277	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	26264	3.58	ng	0.00
7) Phenol-d6	6.50	99	49508	5.32	ng	0.00
23) Nitrobenzene-d5	7.43	82	31363	3.58	ng	0.00
42) 2,4,6-Tribromophenol	10.69	330	14528	4.22	ng	0.00
45) 2-Fluorobiphenyl	9.22	172	62948	3.74	ng	-0.01
79) Terphenyl-d14	12.97	244	72891	3.78	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.17	128	1127240	45.727	ng	99
37) 2-Methylnaphthalene	8.86	142	587513	35.954	ng	99
38) 1-Methylnaphthalene	8.96	142	515673	33.224	ng	99
46) 1,1'-Biphenyl	9.33	154	127970	5.550	ng	99
49) Acenaphthylene	9.77	152	204567	7.191	ng	98
52) Acenaphthene	9.94	154	69703	3.795	ng	91
55) Dibenzofuran	10.11	168	55333	2.121	ng	# 91
58) Fluorene	10.45	166	465140	24.946	ng	100
71) Phenanthrene	11.42	178	1930387	70.721	ng	99
72) Anthracene	11.47	178	295773	10.485	ng	99
75) Fluoranthene	12.60	202	980356	33.988	ng	97
78) Pylene	12.84	202	1492140	49.484	ng	100
81) Benzo(a)anthracene	14.02	228	545347	23.258	ng	93
83) Chrysene	14.06	228	564614	23.987	ng	99
86) Indeno(1,2,3-cd)pyrene	16.97	276	205139	10.258	ng	97
88) Benzo(b)fluoranthene	15.07	252	384458m	15.298	ng	
89) Benzo(k)fluoranthene	15.09	252	129177m	5.765	ng	
90) Benzo(a)pyrene	15.44	252	397219	18.390	ng	98
91) Dibenzo(a,h)anthracene	16.97	278	65253	3.441	ng	94
92) Benzo(a,h,i)perylene	17.42	276	236770	12.520	ng	97

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

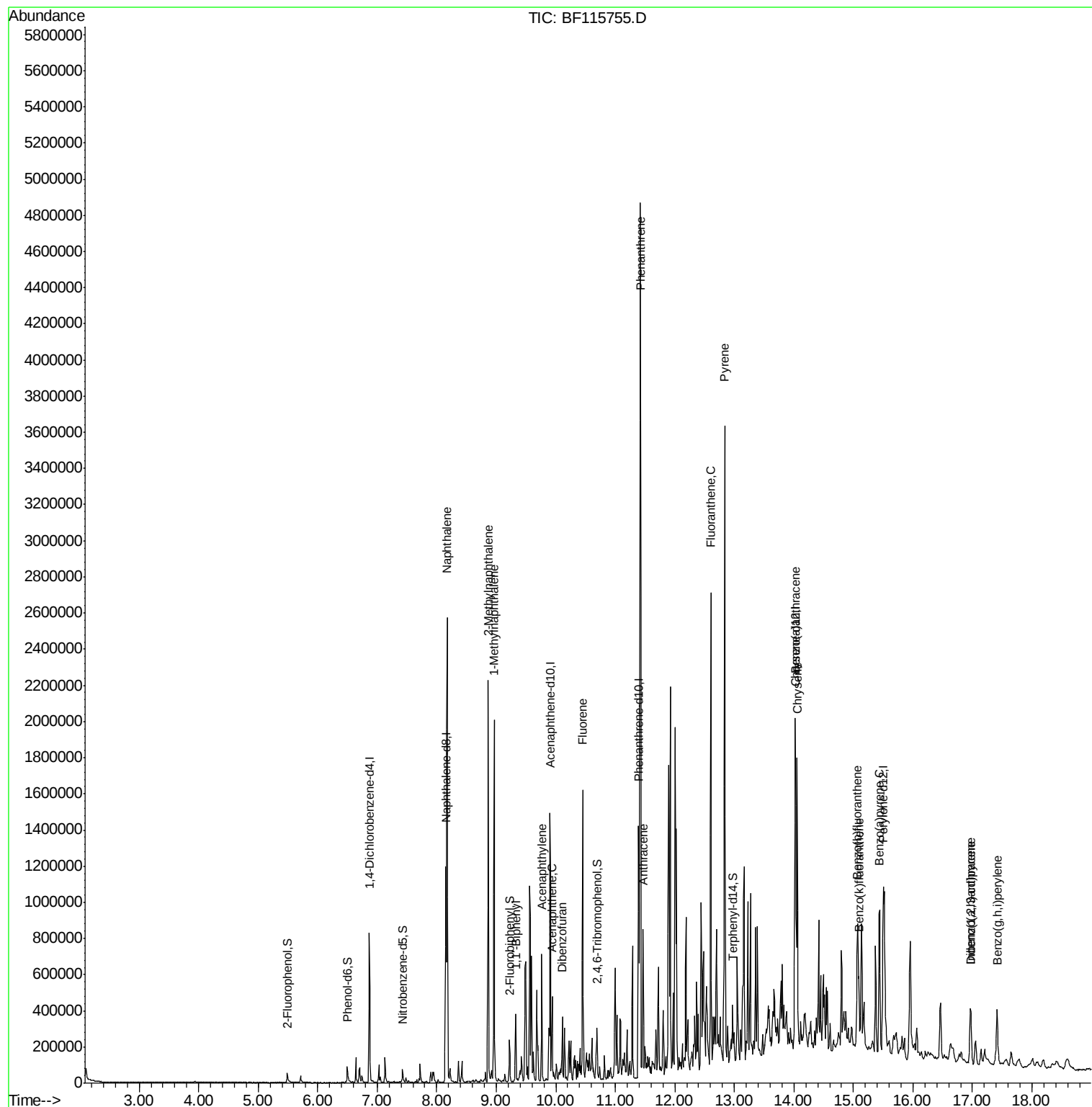
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072519\
Data File : BF115755.D
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ALS Vial : 4 Sample Multiplier: 1

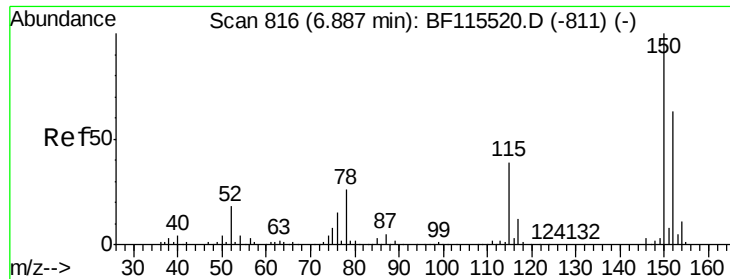
Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

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Quant Time: Jul 25 13:28:07 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 25 13:16:07 2019
Response via : Initial Calibration





#1

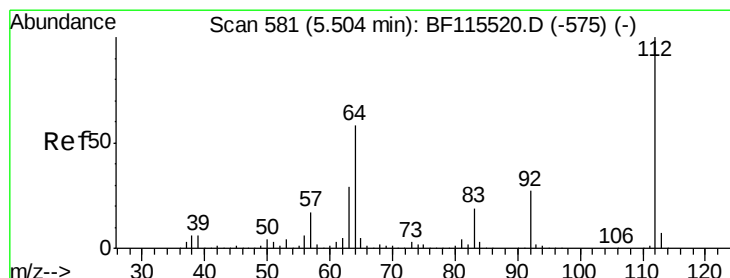
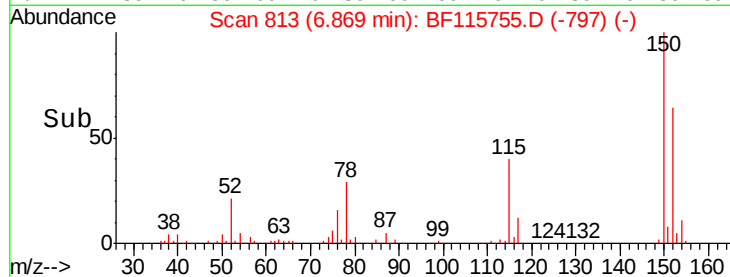
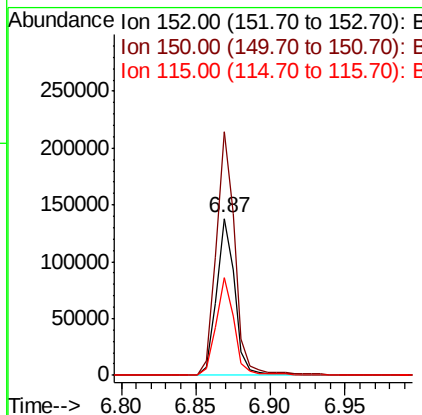
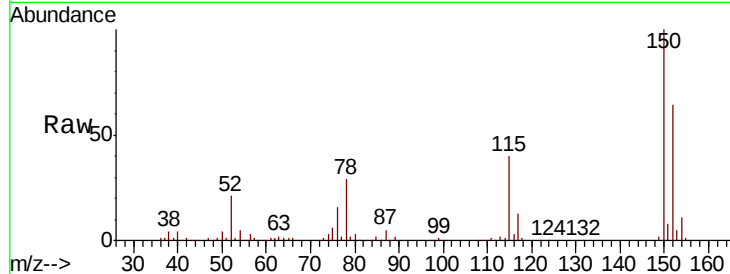
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 813
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.2	126.6	189.8
115	62.1	47.8	71.6

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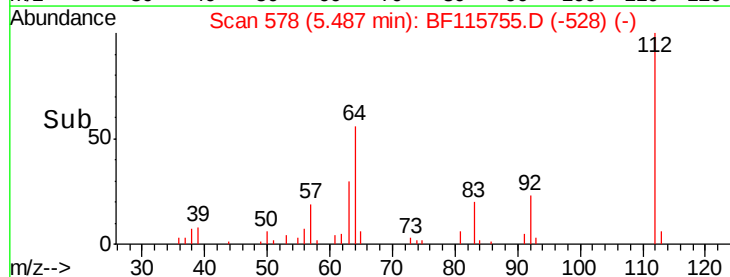
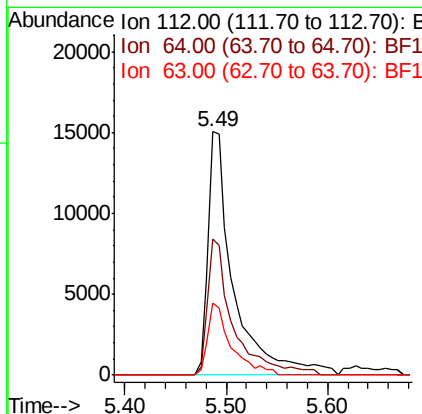
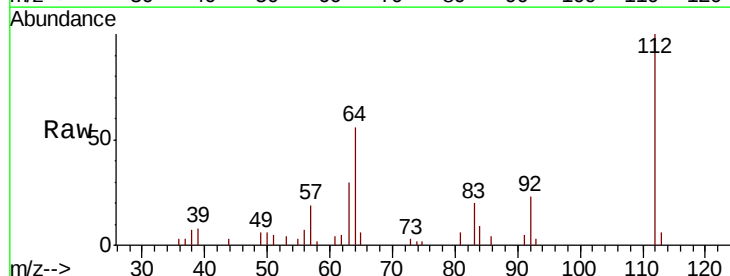
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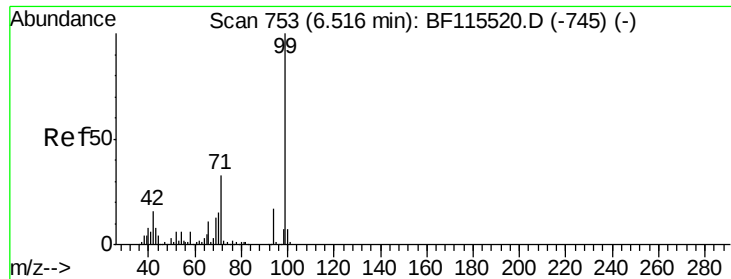


#5

2-Fluorophenol
Concen: 3.578 ng
RT: 5.49 min Scan# 578
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.8	45.8	68.8
63	29.8	23.6	35.4





#7

Phenol-d6

Concen: 5.316 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

Instrument :

BNA_F

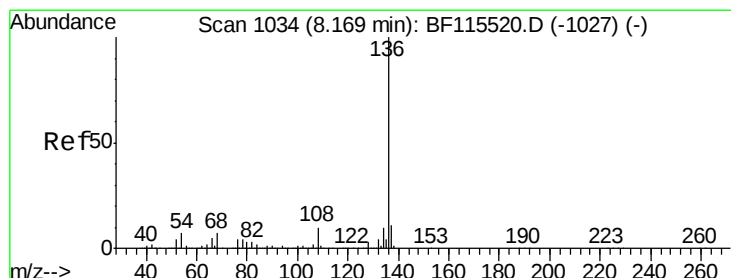
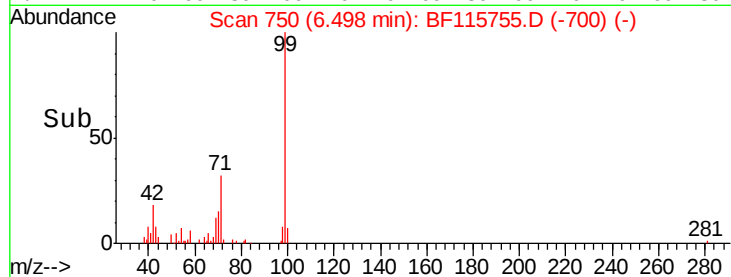
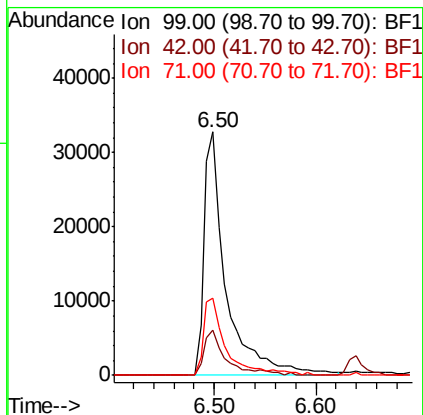
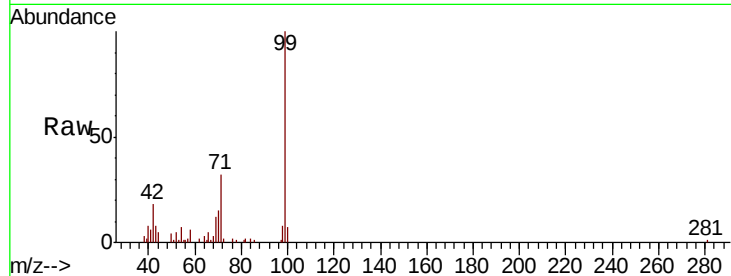
ClientSampled :

AOC-7(2)DL

Tot Ion:	99	Resp:	49508
Ion Ratio	Lower	Upper	
99	100		
42	18.4	13.4	20.2
71	31.6	26.7	40.1

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#21

Naphthalene-d8

Concen: 20.000 ng

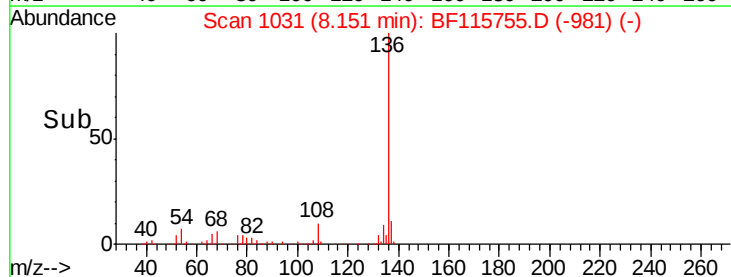
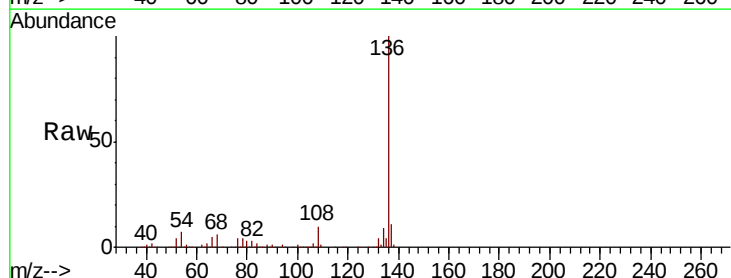
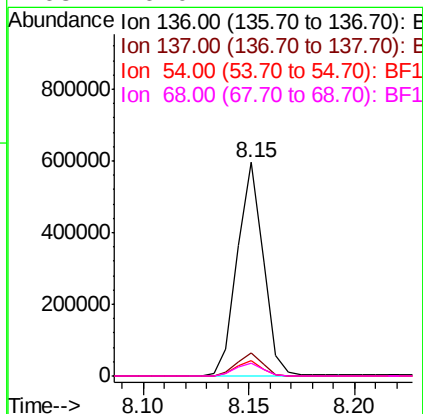
RT: 8.15 min Scan# 1031

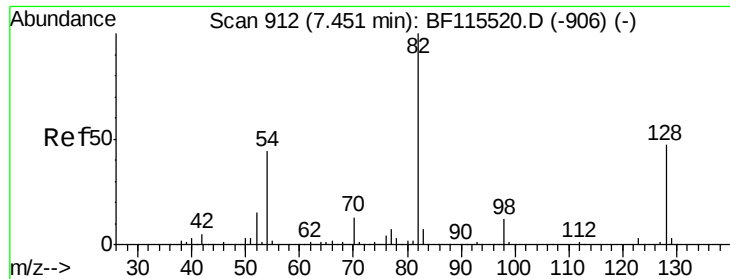
Delta R.T. -0.01 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

Tgt Ion:	136	Resp:	509011
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	7.1	5.0	7.6
68	6.0	4.7	7.1





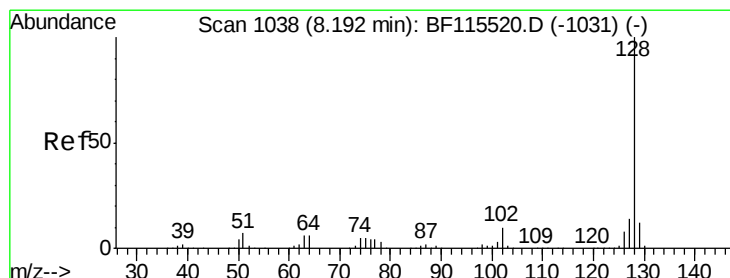
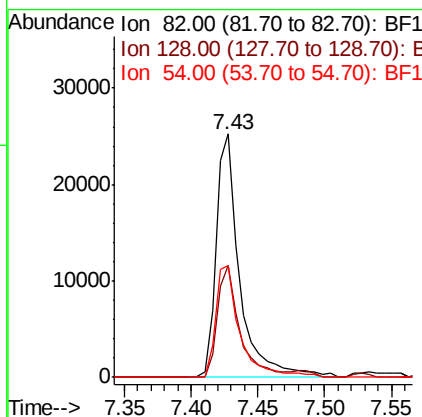
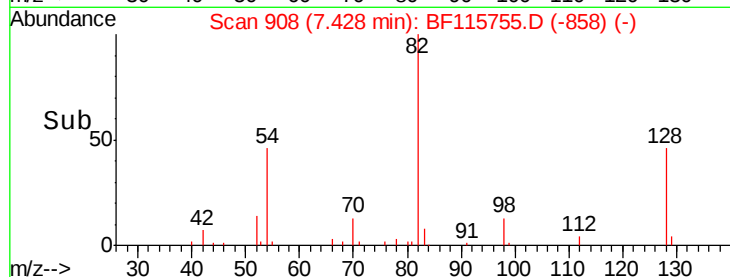
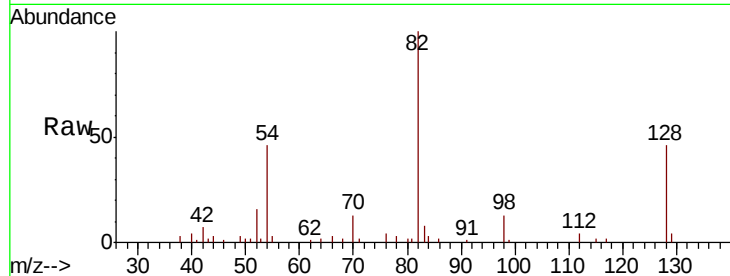
#23
Nitrobenzene-d5
Concen: 3.583 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.6	55.0
54	45.7	36.6	54.8

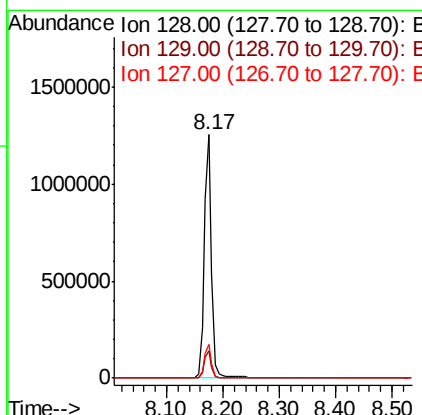
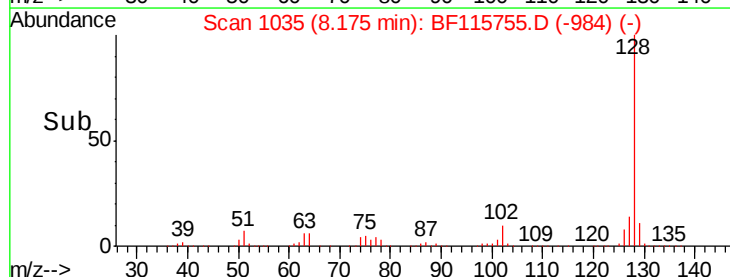
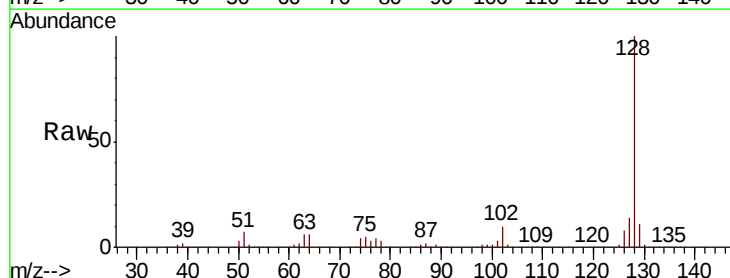
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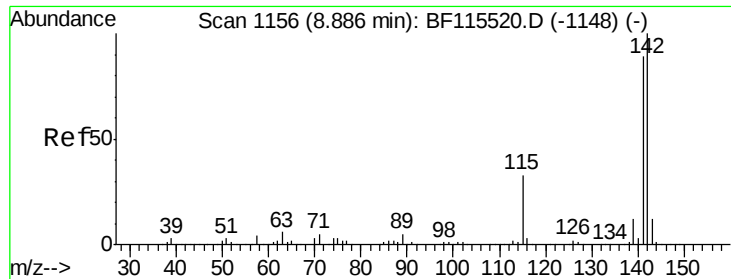
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#31
Naphthalene
Concen: 45.727 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.00 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.4	14.2
127	13.9	10.9	16.3





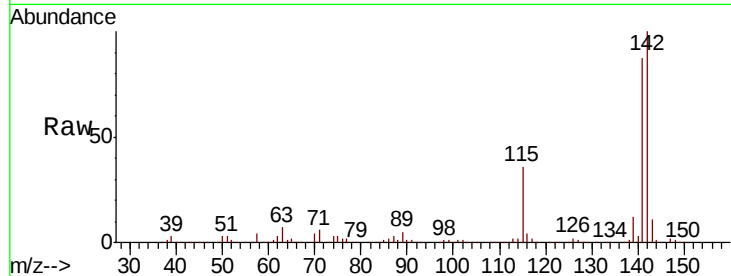
#37
2-Methylnaphthalene
Concen: 35.954 ng
RT: 8.86 min Scan# 1152
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.4	71.0	106.4
115	35.5	27.7	41.5

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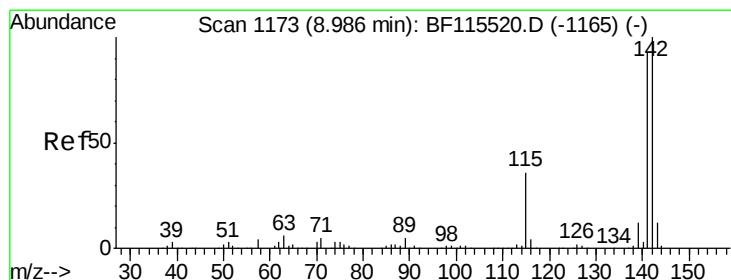
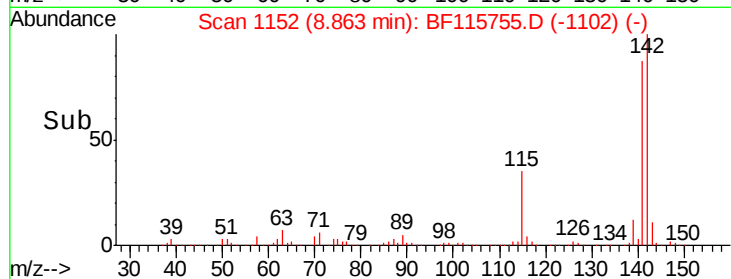
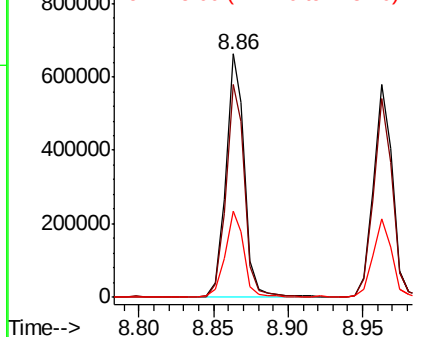


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 33.224 ng
RT: 8.96 min Scan# 1169
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

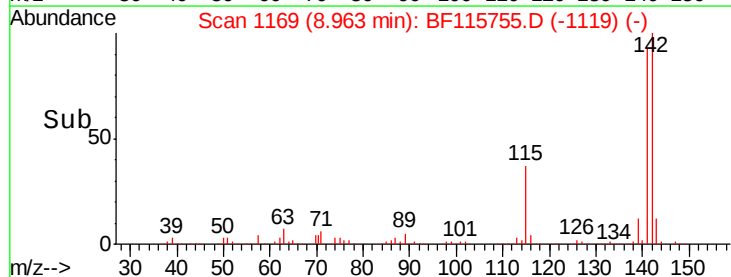
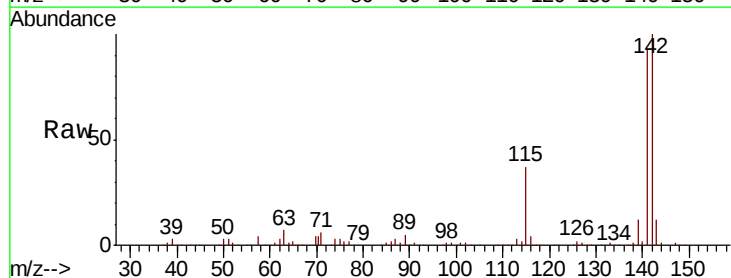
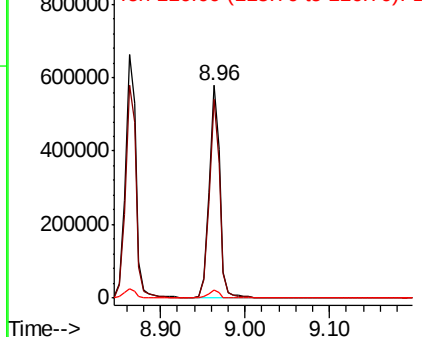
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.4	73.9	110.9
116	3.8	3.0	4.6

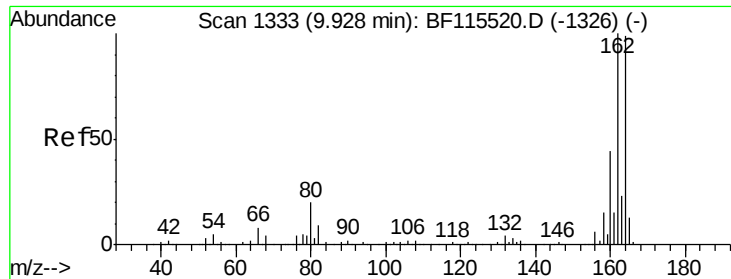
Abundance

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





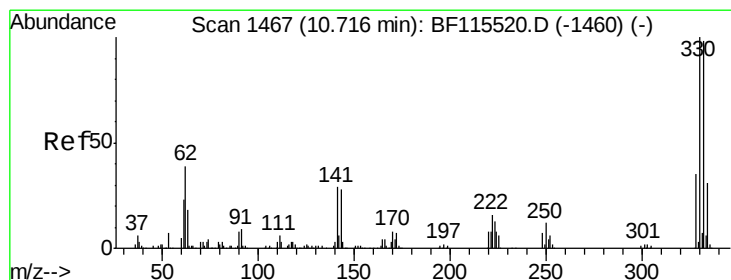
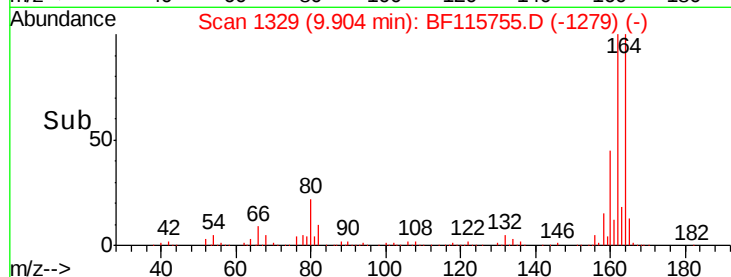
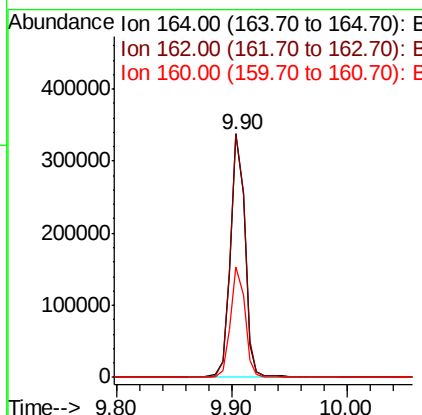
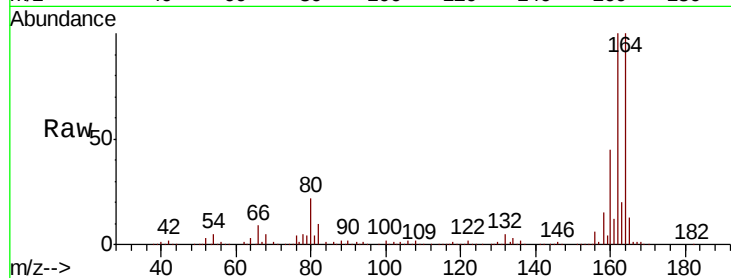
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.90 min Scan# 1329
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	100.0	81.8	122.6	
160	45.2	37.5	56.3	

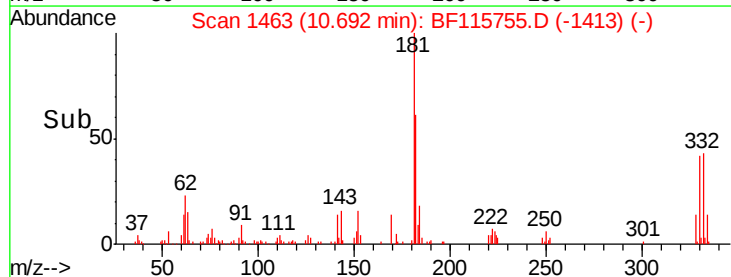
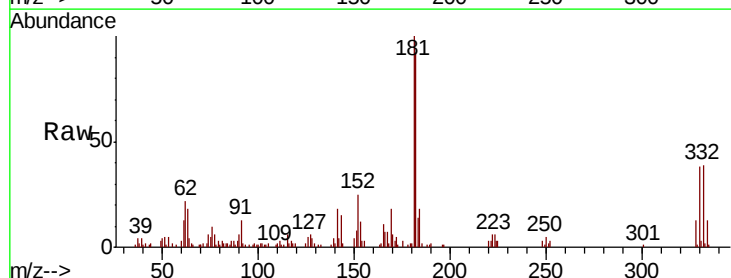
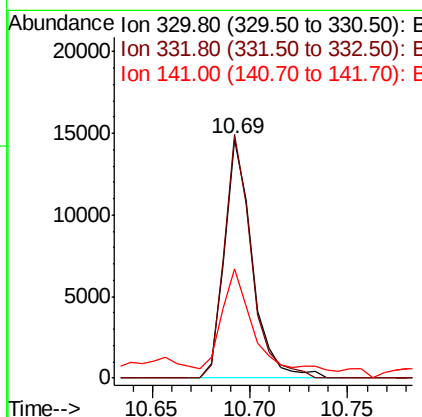
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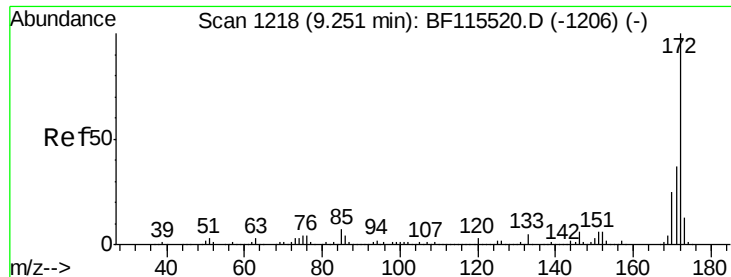
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#42
2,4,6-Tribromophenol
Concen: 4.220 ng
RT: 10.69 min Scan# 1463
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	99.5	76.1	114.1	
141	61.3	25.9	38.9	





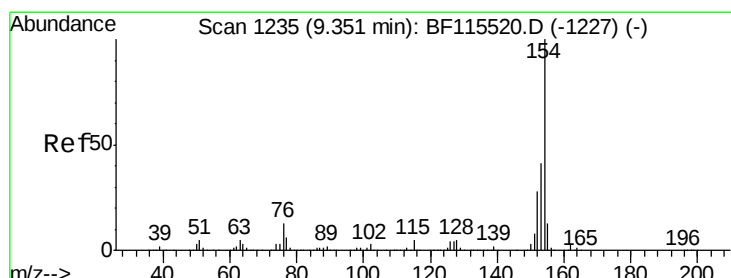
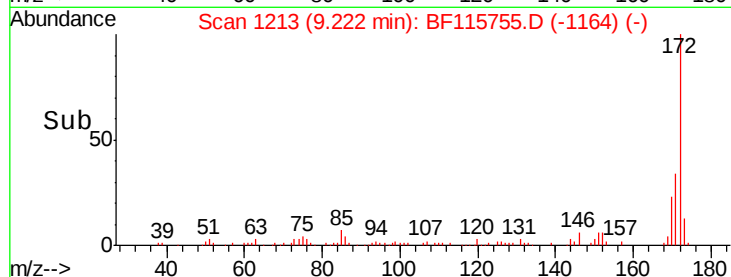
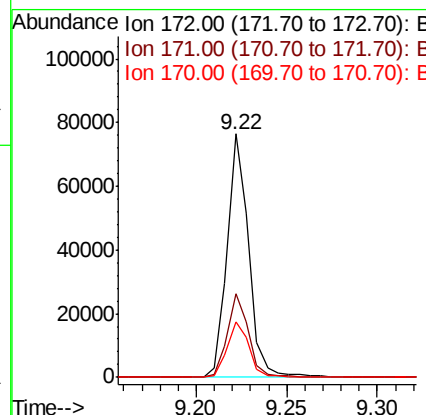
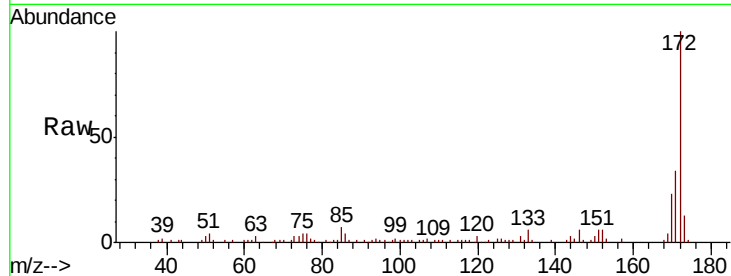
#45
2-Fluorobiphenyl
Concen: 3.736 ng
RT: 9.22 min Scan# 1213
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampled :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.4	29.0	43.4
170	22.9	20.1	30.1

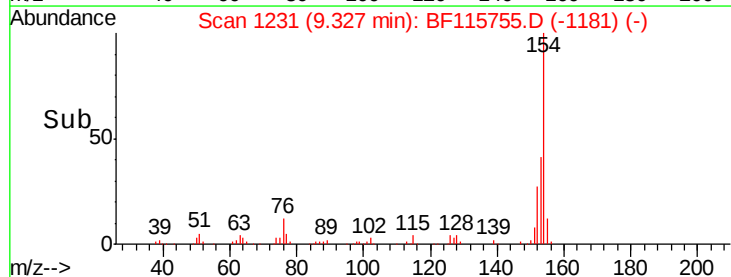
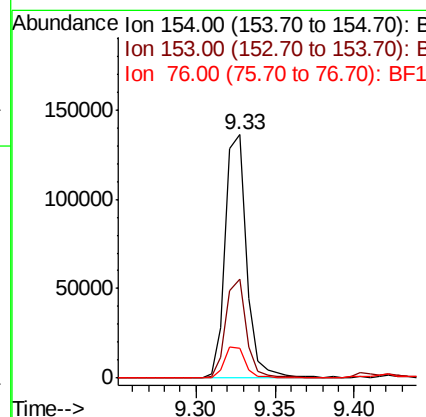
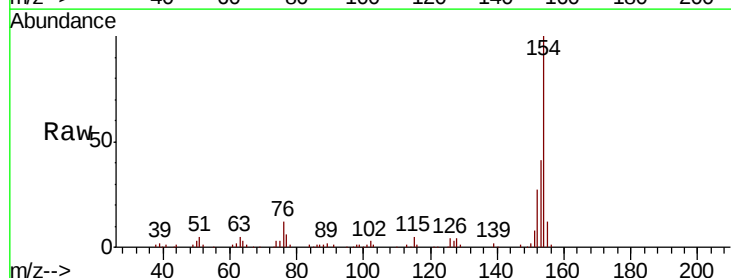
Manual Integrations
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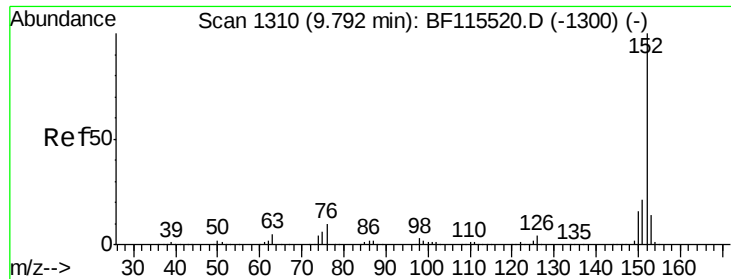
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#46
1,1'-Biphenyl
Concen: 5.550 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.4	61.4
76	12.3	0.0	33.2





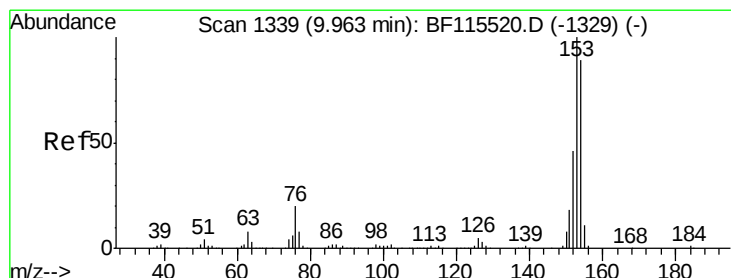
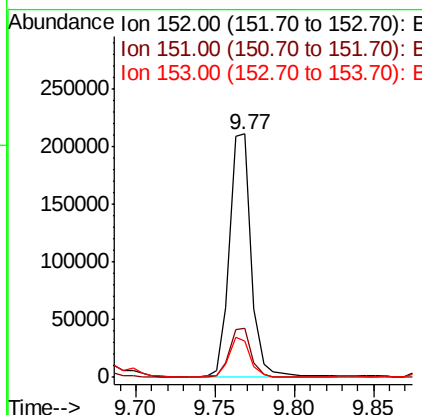
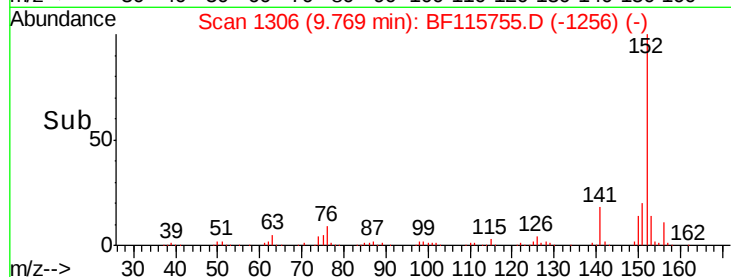
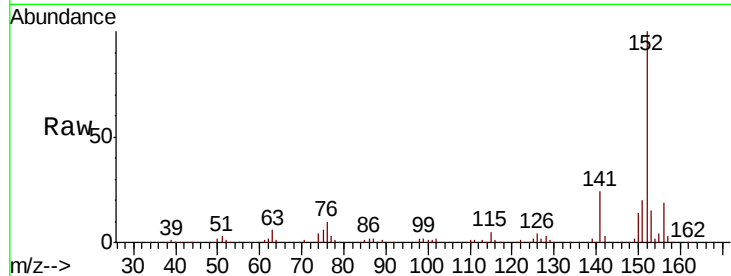
#49
Acenaphthylene
Concen: 7.191 ng
RT: 9.77 min Scan# 1306
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampled :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.9	25.3
153	14.8	11.5	17.3

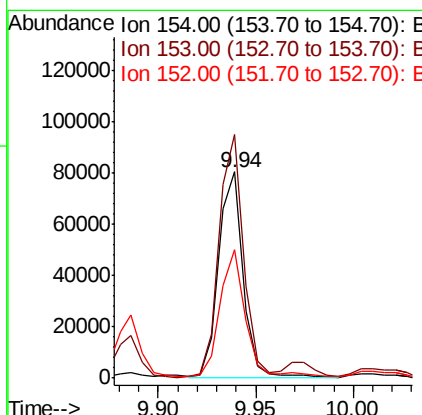
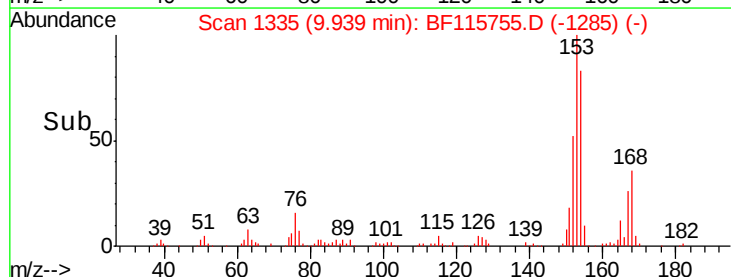
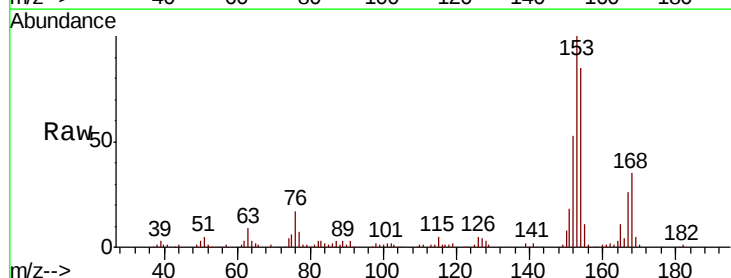
Manual Integrations
APPROVED

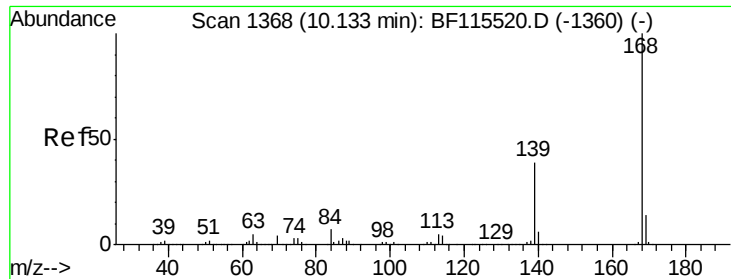
mohammad
7/26/2019 3:02:42 PM



#52
Acenaphthene
Concen: 3.795 ng
RT: 9.94 min Scan# 1335
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.0	88.1	132.1
152	62.0	42.0	63.0





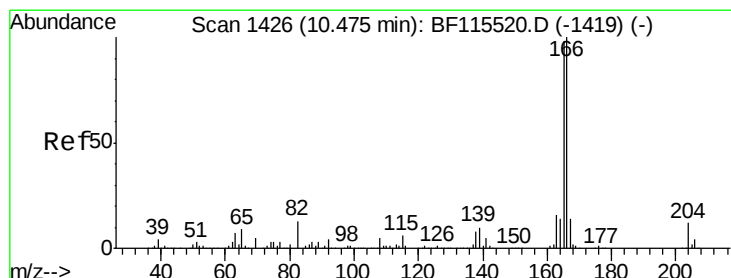
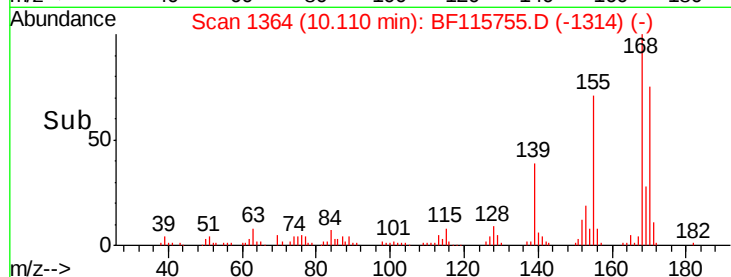
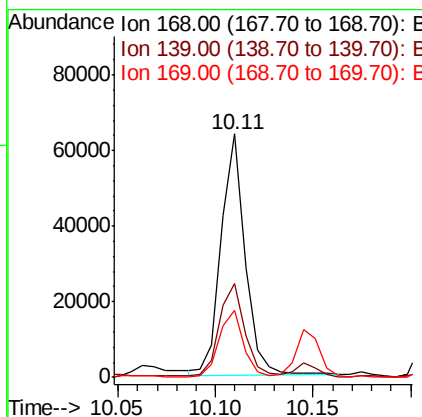
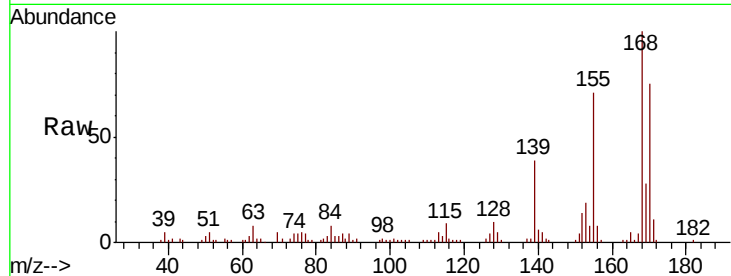
#55
Dibenzofuran
Concen: 2.121 ng
RT: 10.11 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.4	47.2
169	27.7	11.3	16.9

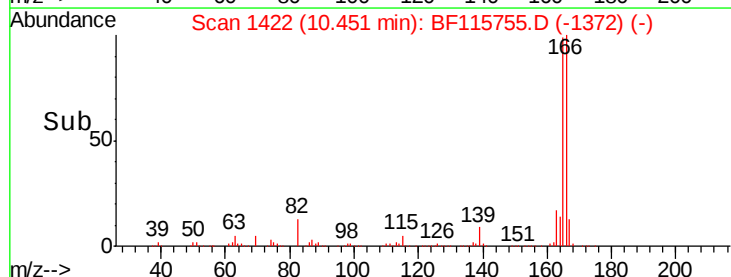
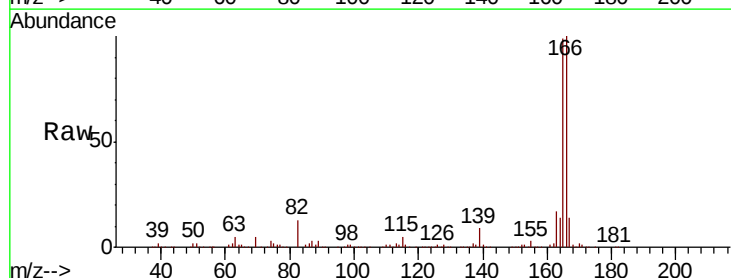
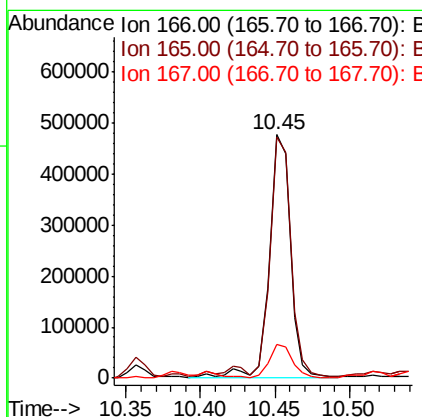
Manual Integrations
APPROVED

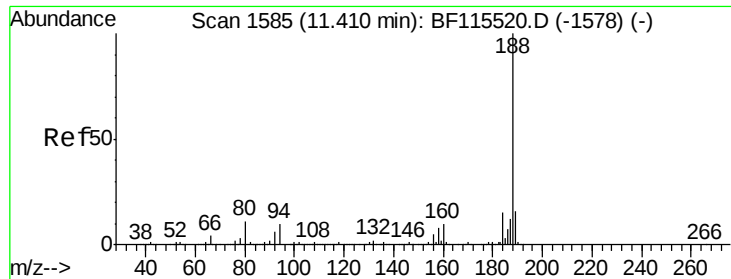
mohammad
7/26/2019 3:02:42 PM



#58
Fluorene
Concen: 24.946 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.0	118.4
167	14.1	11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.39 min Scan# 1582

Delta R.T. -0.00 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

Instrument :

BNA_F

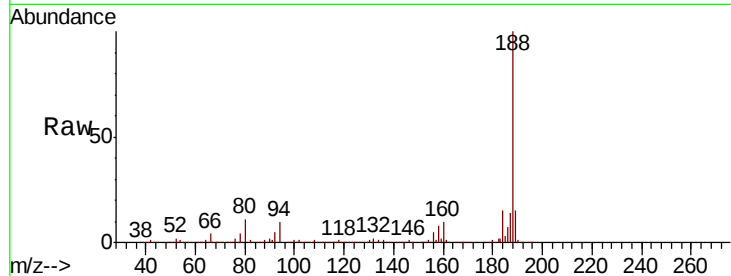
ClientSampleId :

AOC-7(2)DL

Tot Ion:	188	Resp:	532505
Ion Ratio	Lower	Upper	
188	100		
94	9.6	8.2	12.2
80	10.7	9.0	13.6

Manual Integrations
APPROVED

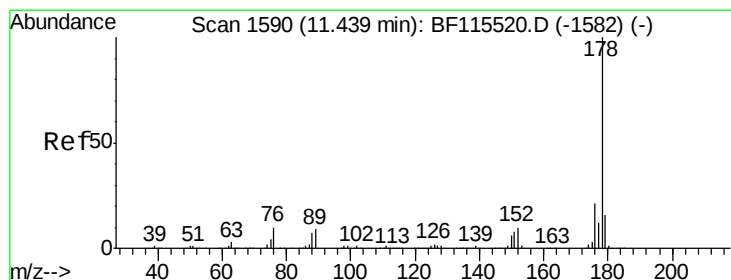
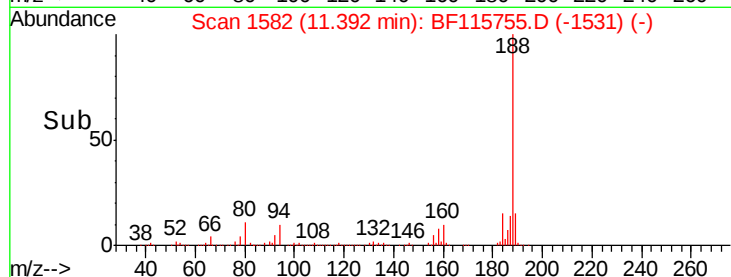
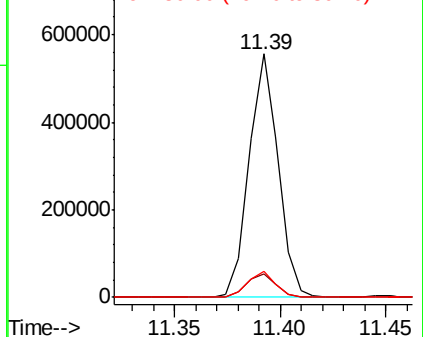
mohammad
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 70.721 ng

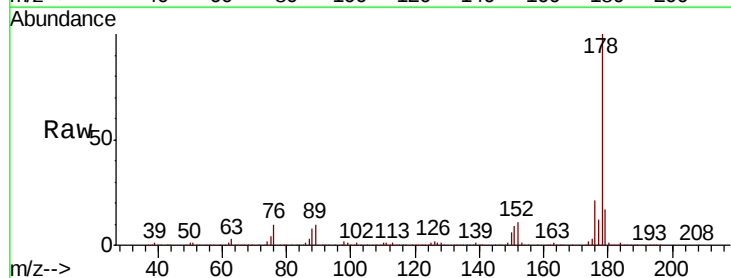
RT: 11.42 min Scan# 1587

Delta R.T. -0.00 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

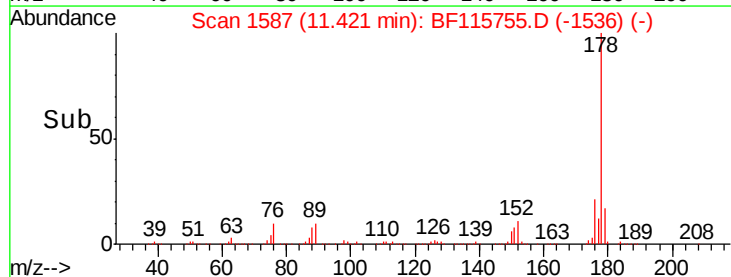
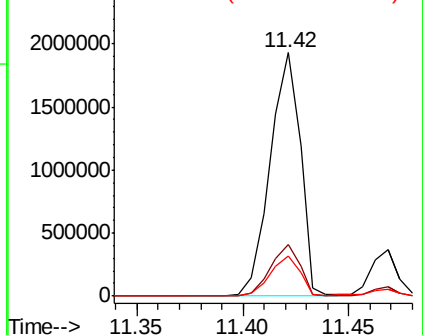
Tgt Ion:	178	Resp:	1930387
Ion Ratio	Lower	Upper	
178	100		
176	21.0	16.4	24.6
179	16.7	12.7	19.1

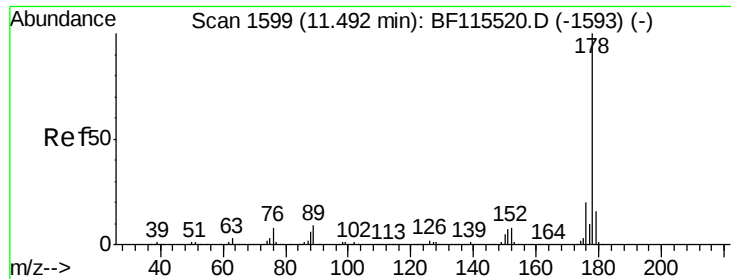


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 10.485 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

Instrument :

BNA_F

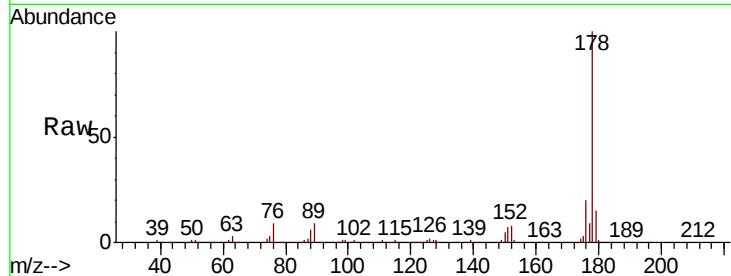
ClientSampled :

AOC-7(2)DL

Tot Ion:	178	Resp:	295773
Ion Ratio	Lower	Upper	
178	100		
176	19.6	16.1	24.1
179	15.2	12.6	18.8

Manual Integrations
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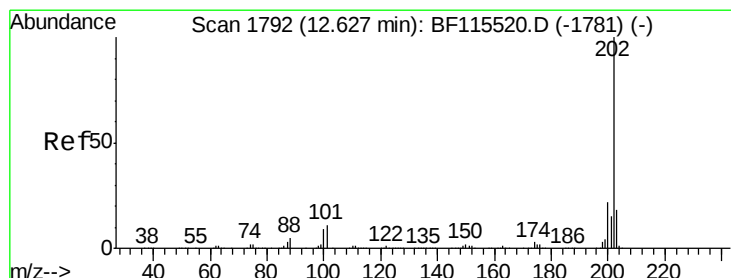
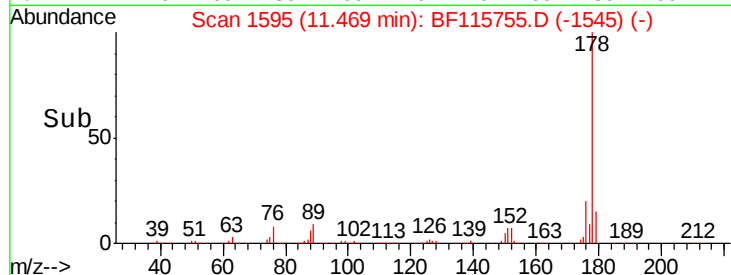
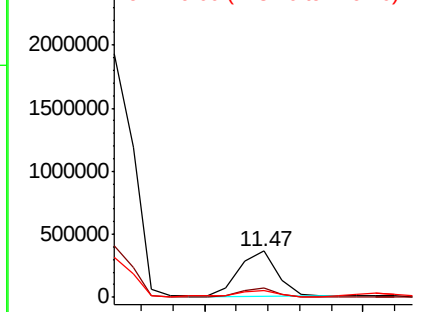


Abundance

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: 33.988 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.01 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

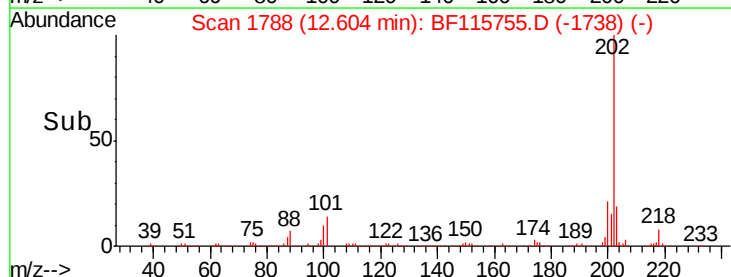
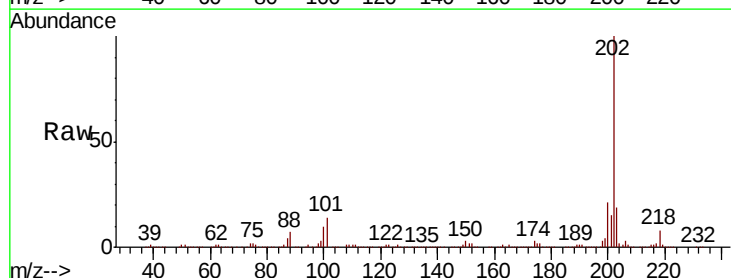
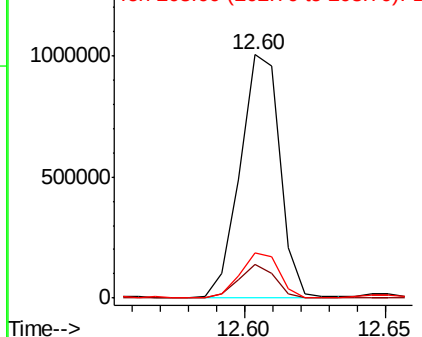
Tgt Ion:	202	Resp:	980356
Ion Ratio	Lower	Upper	
202	100		
101	13.6	0.0	31.6
203	18.8	0.0	38.0

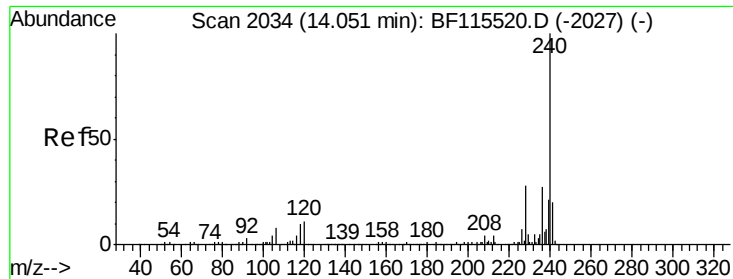
Abundance

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





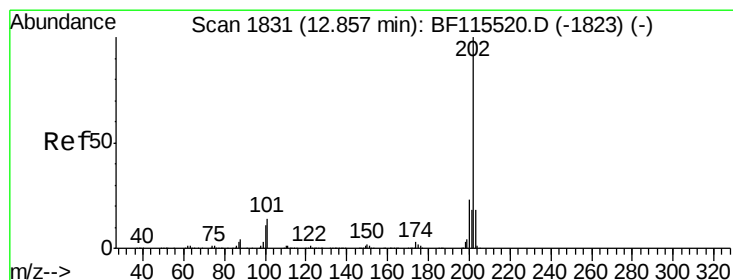
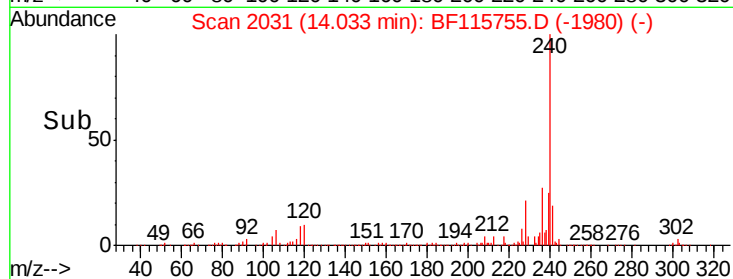
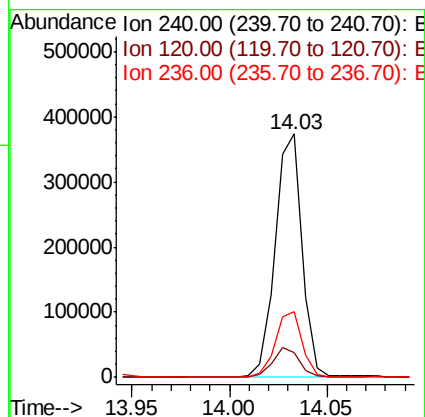
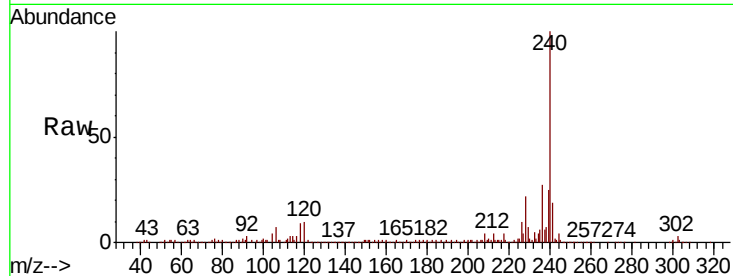
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.03 min Scan# 2031
Delta R.T. -0.00 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampled :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.4	10.0	15.0
236	26.8	21.8	32.6

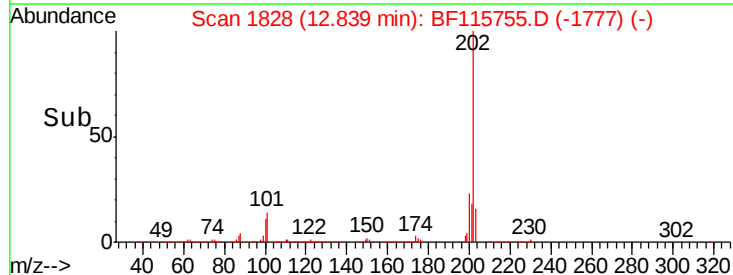
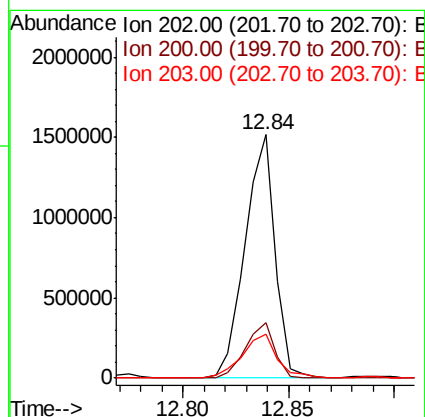
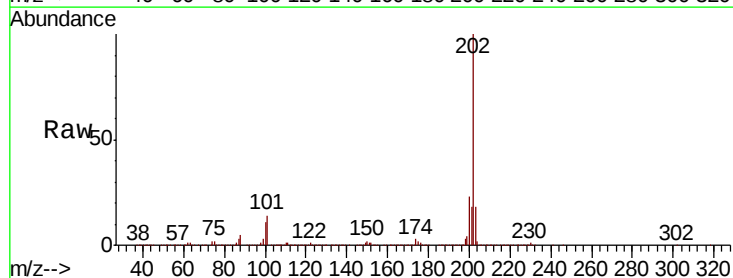
Manual Integrations
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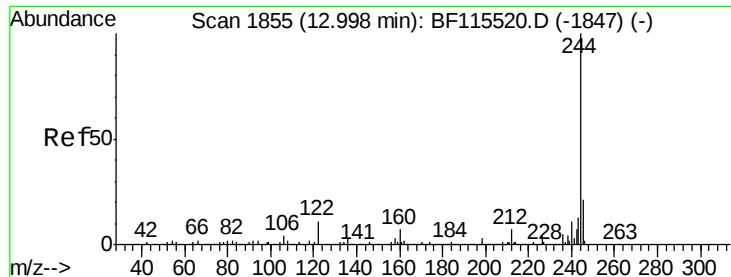
mohammad
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#78
Pyrene
Concen: 49.484 ng
RT: 12.84 min Scan# 1828
Delta R.T. -0.00 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.6	18.2	27.4
203	18.2	14.6	21.8





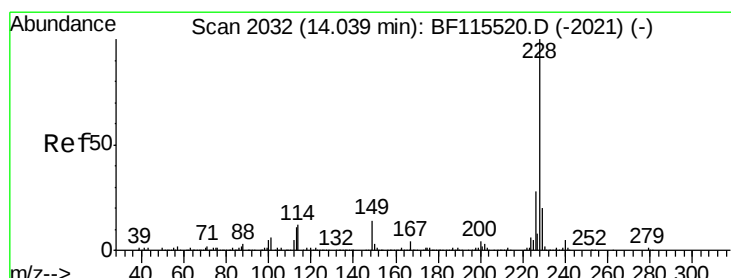
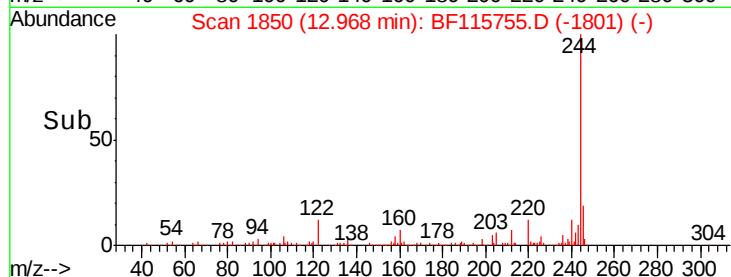
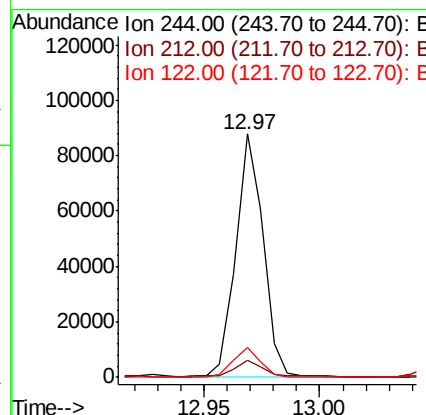
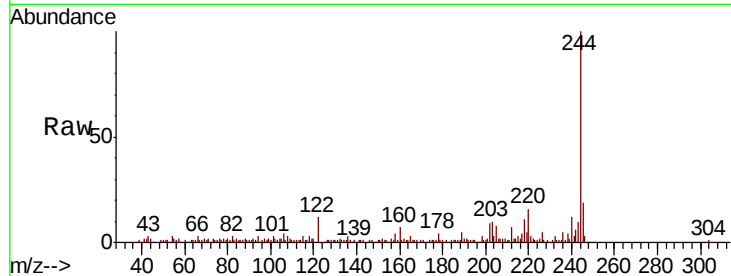
#79
 Terphenyl-d14
 Concen: 3.779 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. -0.01 min
 Lab File: BF115755.D
 Acq: 25 Jul 2019 12:38

Instrument :
 BNA_F
 ClientSampleId :
 AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	12.0	8.2	12.4

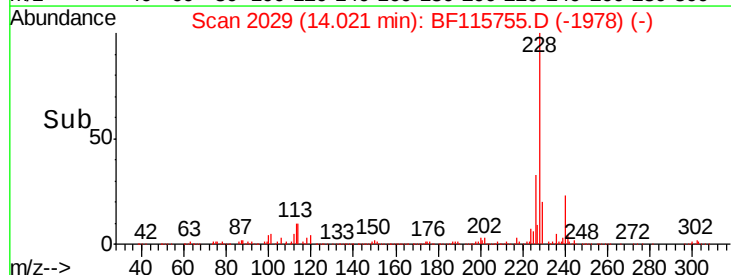
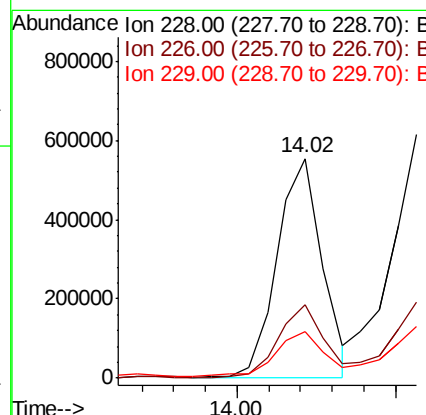
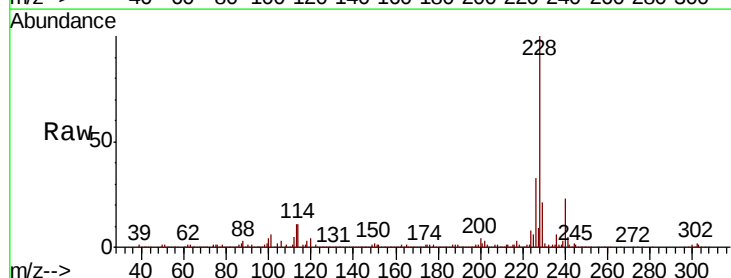
Manual Integrations
 APPROVED

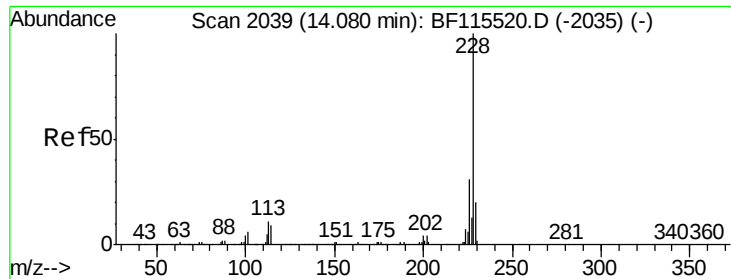
mohammad
 7/26/2019 3:02:42 PM



#81
 Benzo(a)anthracene
 Concen: 23.258 ng
 RT: 14.02 min Scan# 2029
 Delta R.T. -0.00 min
 Lab File: BF115755.D
 Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.2	22.2	33.2
229	21.3	16.1	24.1





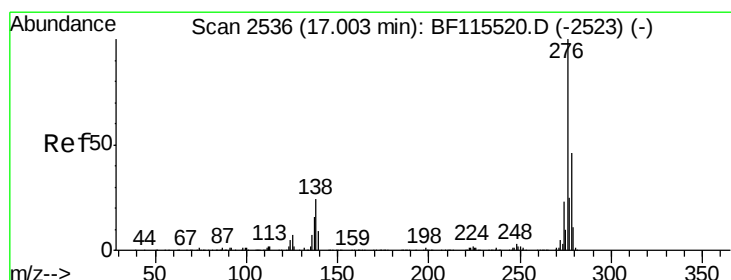
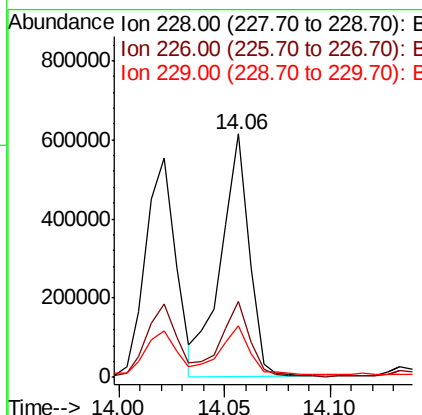
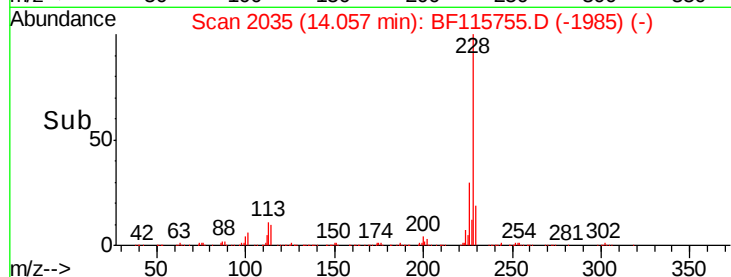
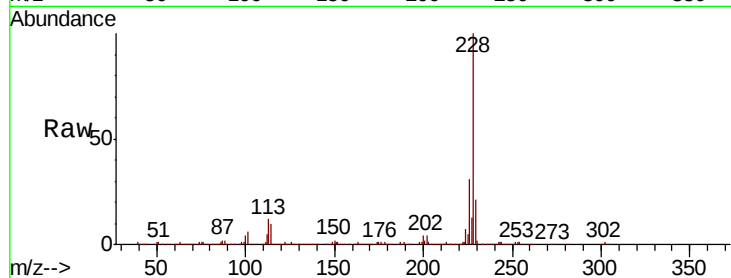
#83
Chrysene
Concen: 23.987 ng
RT: 14.06 min Scan# 2035
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion:	228	Resp:	564614
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.4
229	21.4	16.2	24.2

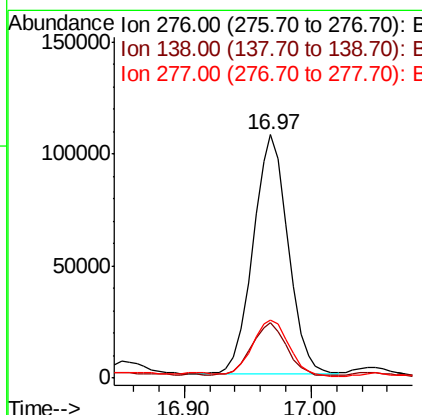
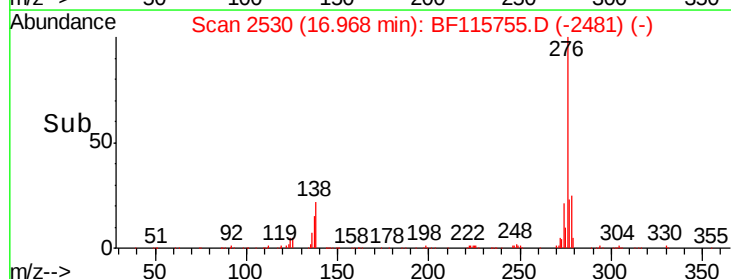
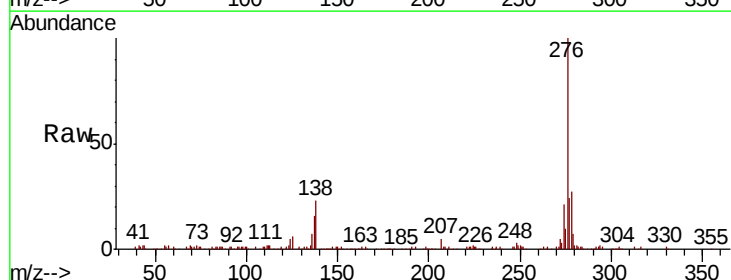
Manual Integrations
APPROVED

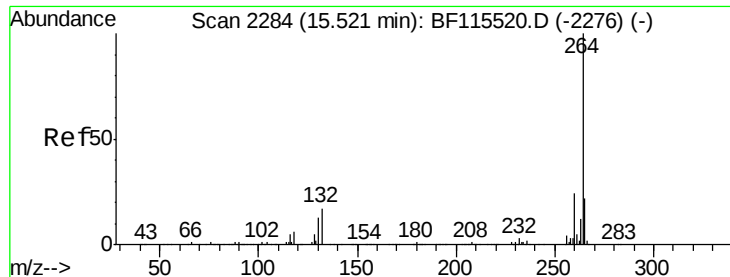
mohammad
7/26/2019 3:02:42 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 10.258 ng
RT: 16.97 min Scan# 2530
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion:	276	Resp:	205139
Ion Ratio	Lower	Upper	
276	100		
138	22.4	20.1	30.1
277	24.4	19.8	29.8





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BF115755.D

Acq: 25 Jul 2019 12:38

Instrument :

BNA_F

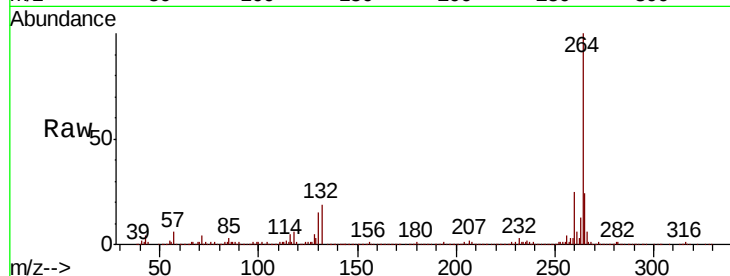
ClientSampled :

AOC-7(2)DL

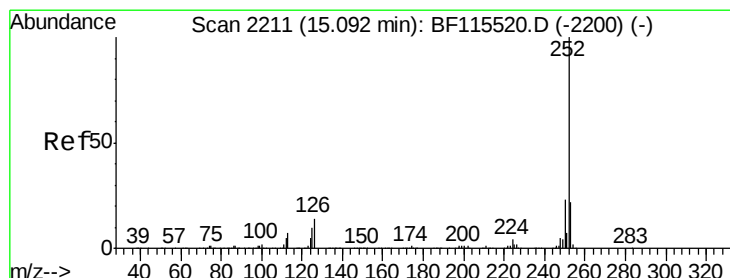
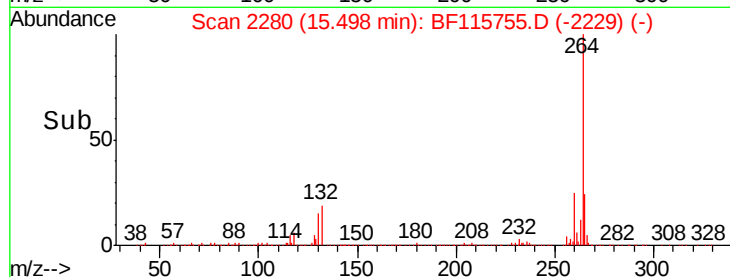
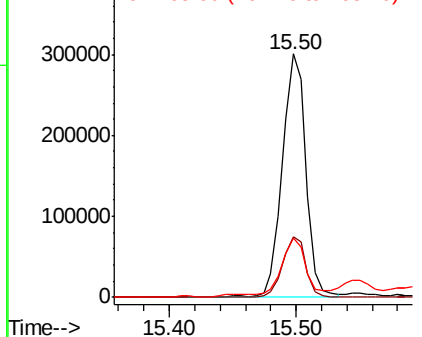
Tot Ion:	264	Resp:	390277
Ion Ratio	Lower	Upper	
264	100		
260	25.0	19.8	29.6
265	24.3	17.5	26.3

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: 15.298 ng m

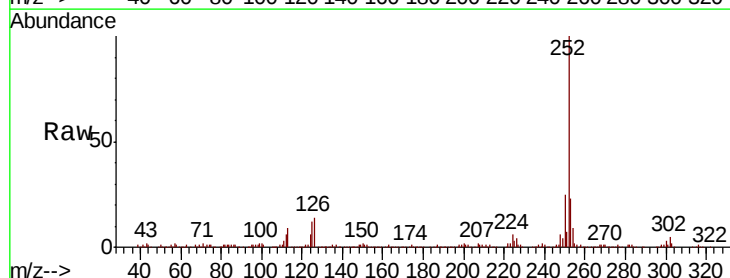
RT: 15.07 min Scan# 2207

Delta R.T. -0.01 min

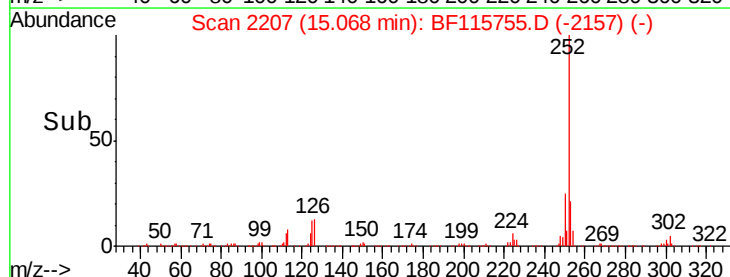
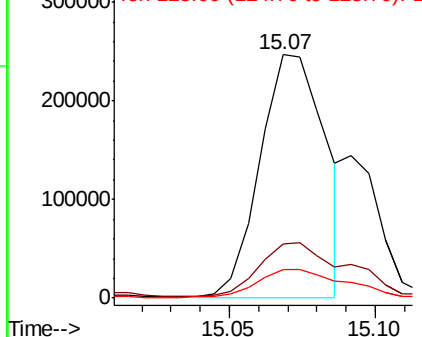
Lab File: BF115755.D

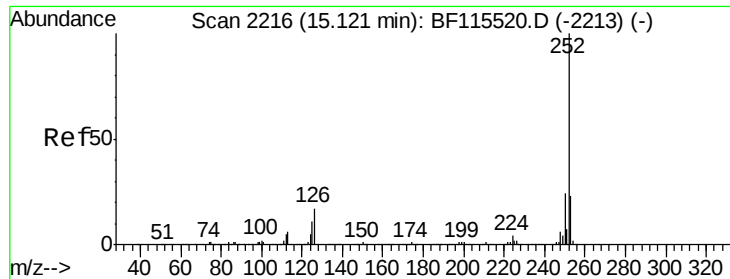
Acq: 25 Jul 2019 12:38

Tgt Ion:	252	Resp:	384458
Ion Ratio	Lower	Upper	
252	100		
253	22.5	17.8	26.8
125	11.9	8.4	12.6



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





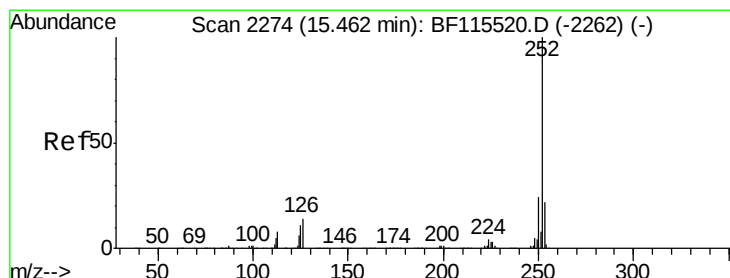
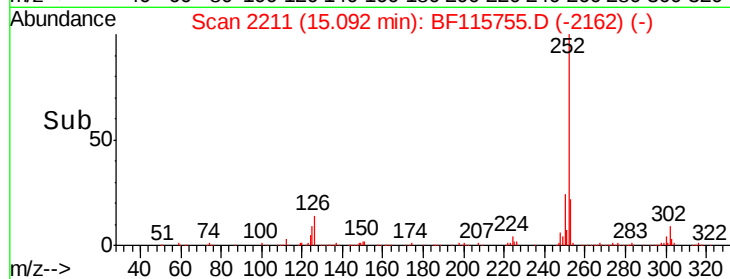
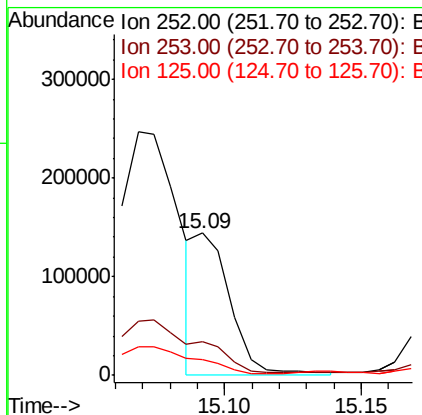
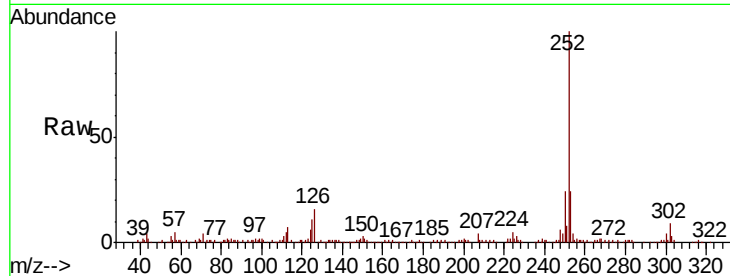
#89
Benzo(k)fluoranthene
Concen: 5.765 ng m
RT: 15.09 min Scan# 2211
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	10.9	8.6	13.0

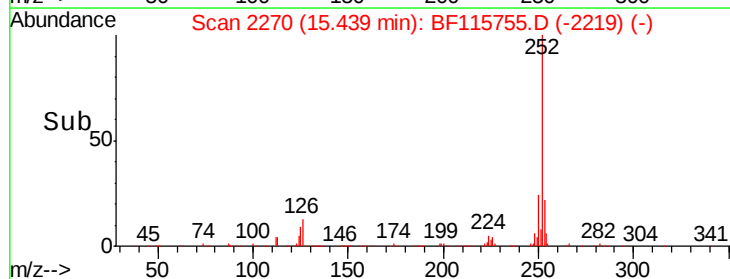
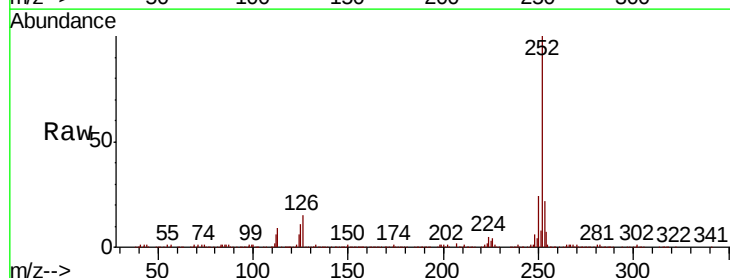
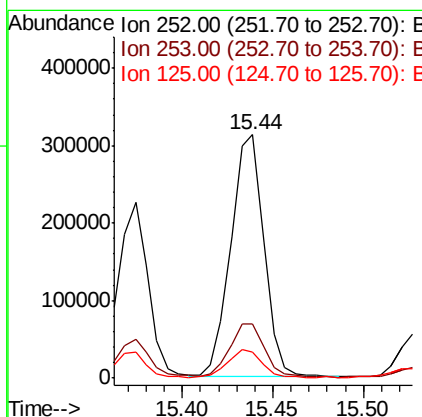
Manual Integrations
APPROVED

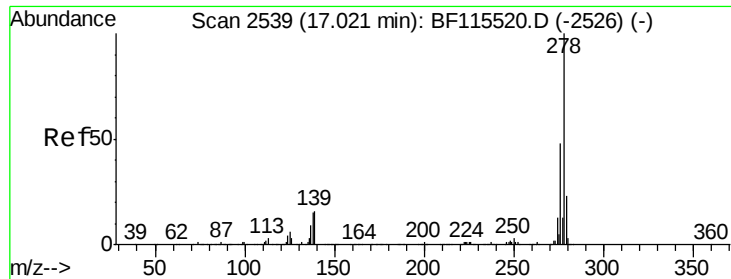
mohammad
7/26/2019 3:02:42 PM



#90
Benzo(a)pyrene
Concen: 18.390 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.00 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	10.8	9.4	14.2





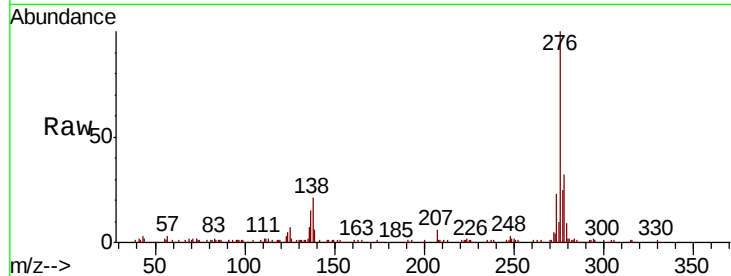
#91
Dibenzo(a,h)anthracene
Concen: 3.441 ng
RT: 16.97 min Scan# 2531
Delta R.T. -0.02 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Instrument :
BNA_F
ClientSampleId :
AOC-7(2)DL

Tot Ion:	278	Resp:	65253
Ion	Ratio	Lower	Upper
278	100		
139	19.3	13.6	20.4
279	28.0	19.6	29.4

Manual Integrations
APPROVED

mohammad
7/26/2019 3:02:42 PM

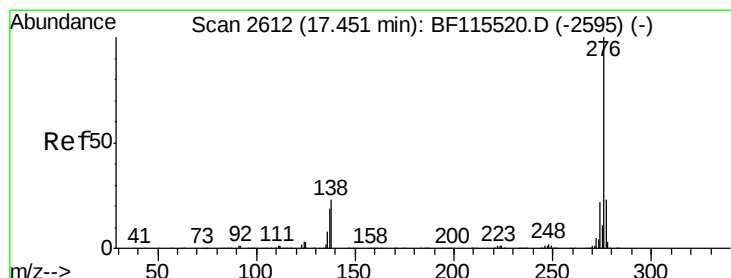
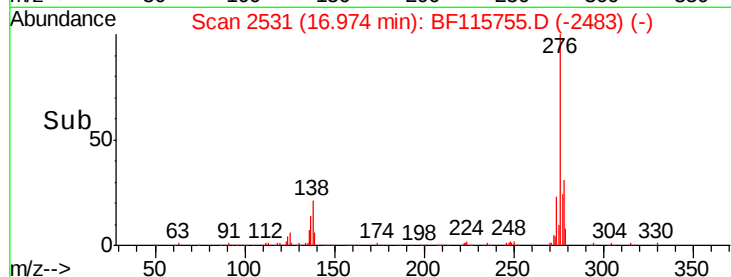
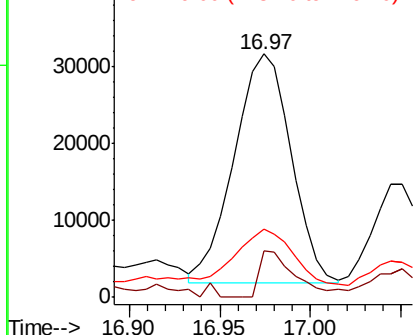


Abundance

Ion 278.00 (277.70 to 278.70): E

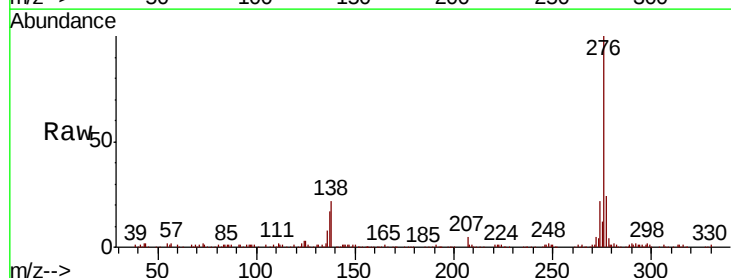
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 12.520 ng
RT: 17.42 min Scan# 2606
Delta R.T. -0.01 min
Lab File: BF115755.D
Acq: 25 Jul 2019 12:38

Tgt Ion:	276	Resp:	236770
Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.1	27.1
138	22.4	16.6	24.8



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

