

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
 Data File : BF117893.D
 Acq On : 20 Nov 2019 15:19
 Operator : JU
 Sample : K5676-16DL 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-111519DL

Manual Integrations
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Quant Time: Nov 20 16:08:24 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 18:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	187855	20.00	ng	-0.01
21) Naphthalene-d8	8.20	136	768448	20.00	ng	-0.01
39) Acenaphthene-d10	9.97	164	413285	20.00	ng	0.00
64) Phenanthrene-d10	11.46	188	642251	20.00	ng	-0.01
76) Chrysene-d12	14.11	240	419446	20.00	ng	0.00
87) Perylene-d12	15.62	264	515373	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	263361	24.82	ng	-0.02
7) Phenol-d6	6.53	99	342807	26.78	ng	-0.02
23) Nitrobenzene-d5	7.47	82	200517	15.51	ng	-0.02
42) 2,4,6-Tribromophenol	10.76	330	95823	21.90	ng	-0.01
45) 2-Fluorobiphenyl	9.28	172	413974	17.97	ng	-0.01
79) Terphenyl-d14	13.04	244	407009	17.73	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.22	128	243736	6.804	ng	97
37) 2-Methylnaphthalene	8.92	142	146417	6.049	ng	98
38) 1-Methylnaphthalene	9.02	142	142069	6.208	ng	99
49) Acenaphthylene	9.83	152	247299	6.725	ng	99
50) Dimethylphthalate	9.67	163	66429	2.292	ng	97
52) Acenaphthene	10.00	154	71533	3.036	ng	99
55) Dibenzofuran	10.17	168	122384	3.752	ng	97
58) Fluorene	10.52	166	233887	9.252	ng	98
71) Phenanthrene	11.49	178	1156093	35.803	ng	98
72) Anthracene	11.53	178	351414	10.977	ng	98
73) Carbazole	11.69	167	59656	2.132	ng	99
75) Fluoranthene	12.68	202	1558162	54.595	ng	99
78) Pvrene	12.91	202	1459336	43.051	ng	99
81) Benzo(a)anthracene	14.10	228	821094	29.624	ng	94
83) Chrysene	14.13	228	663259	24.695	ng	98
86) Indeno(1,2,3-cd)pyrene	17.15	276	446344	19.526	ng	95
88) Benzo(b)fluoranthene	15.17	252	1121824m	33.503	ng	
89) Benzo(k)fluoranthene	15.20	252	288193m	9.135	ng	
90) Benzo(a)pvrene	15.56	252	813186	27.618	ng	99
91) Dibenzo(a,h)anthracene	17.16	278	123435m	4.871	ng	
92) Benzo(g,h,i)perylene	17.62	276	357039	14.145	ng	98

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

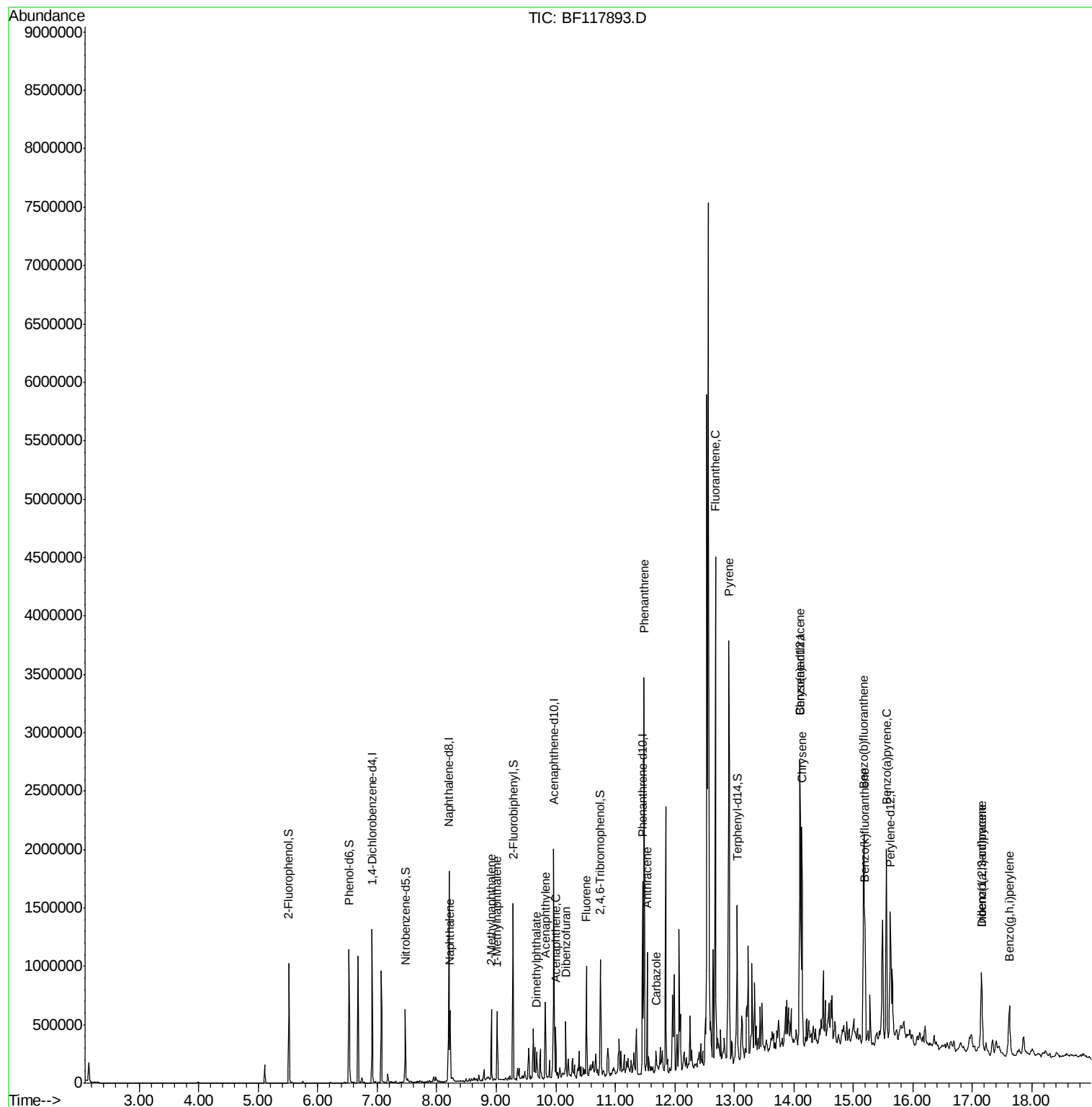
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112019\
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Sample : K5676-16DL 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

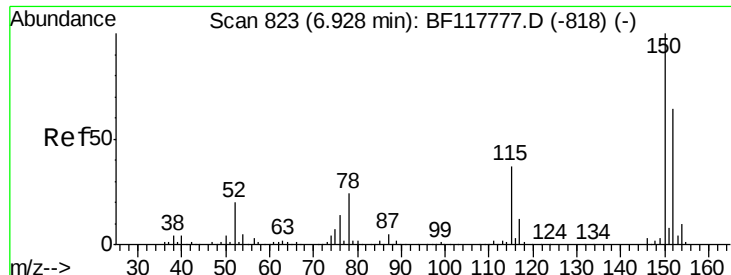
Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Quant Time: Nov 20 16:08:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 18:36:07 2019
Response via : Initial Calibration

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#1

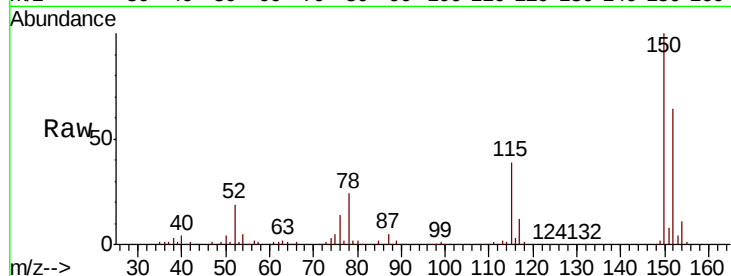
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.3	187.9
115	60.4	47.0	70.4

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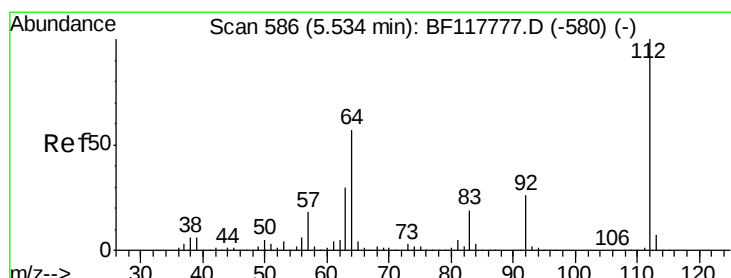
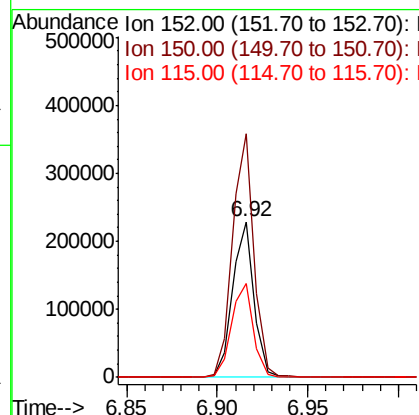
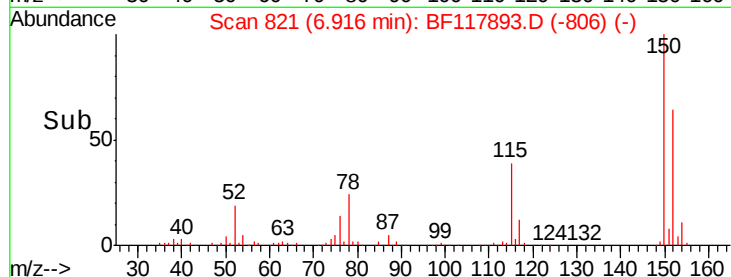


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

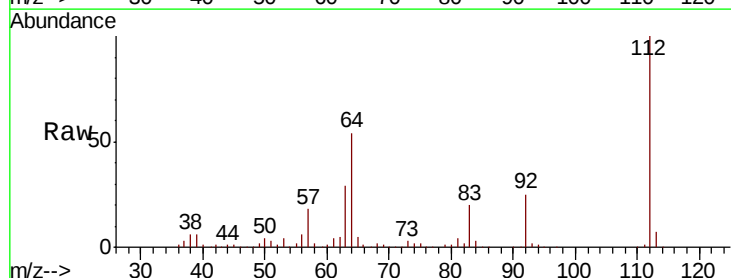
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 24.816 ng
RT: 5.52 min Scan# 583
Delta R.T. -0.02 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.5	45.6	68.4
63	28.8	24.1	36.1

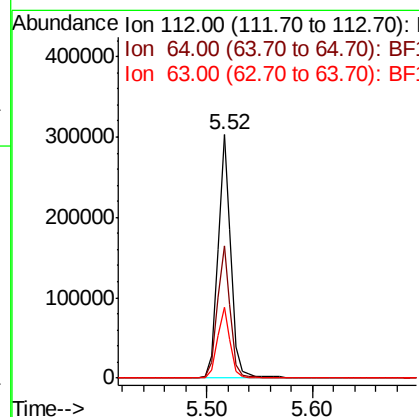
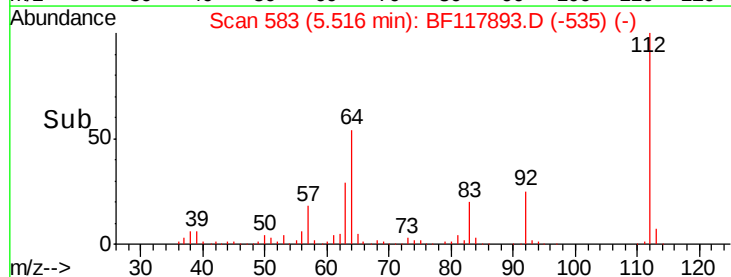


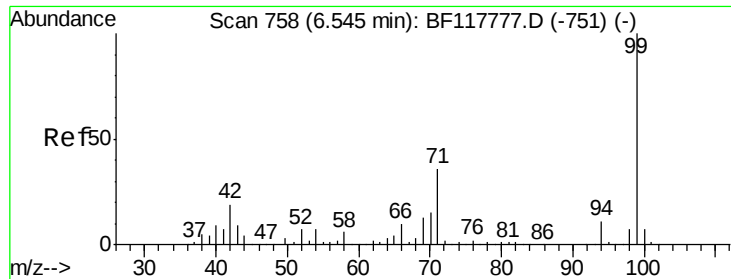
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 26.781 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.02 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Instrument :

BNA_F

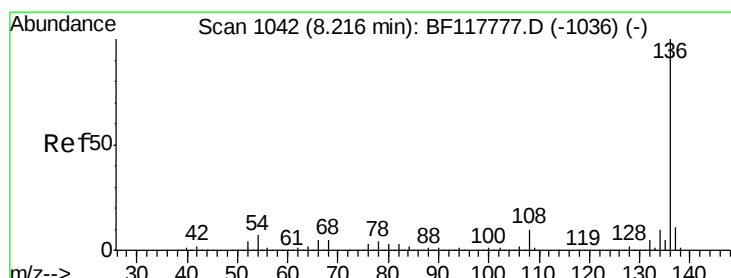
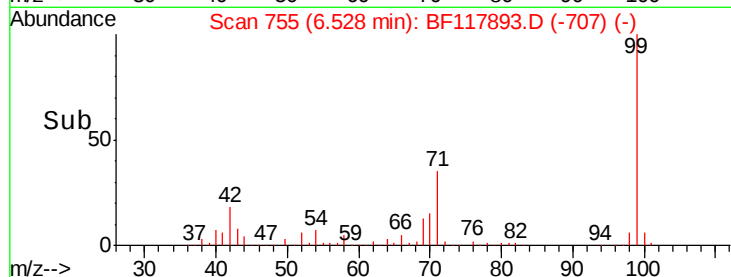
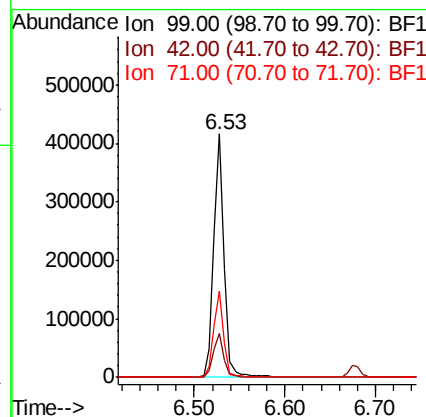
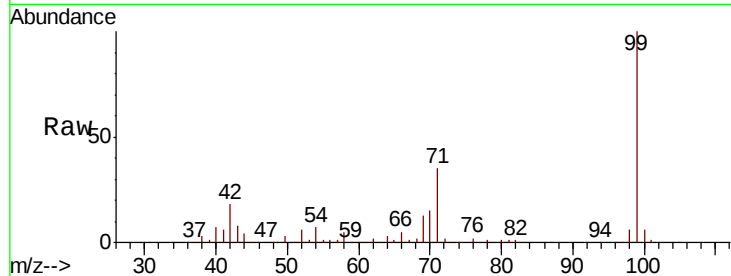
ClientSampleId :

SU-01-111519DL

Tot Ion:	99	Resp:	342807
Ion Ratio	Lower	Upper	
99	100		
42	18.0	14.9	22.3
71	35.4	28.6	43.0

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#21

Naphthalene-d8

Concen: 20.000 ng

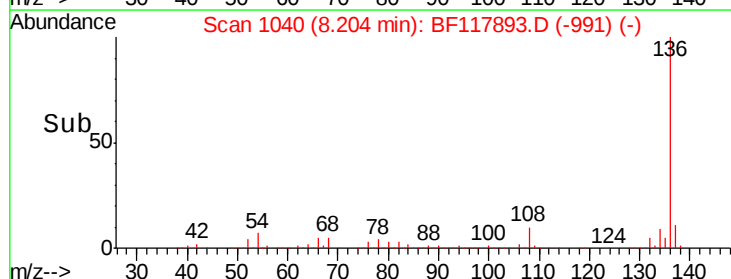
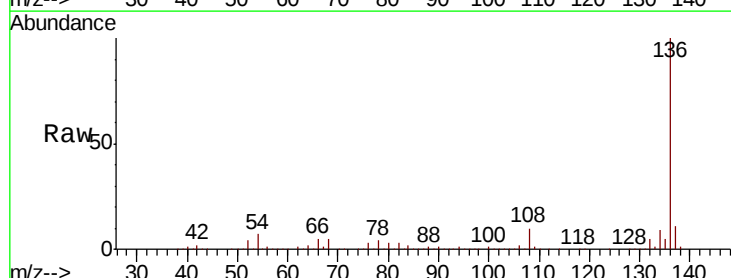
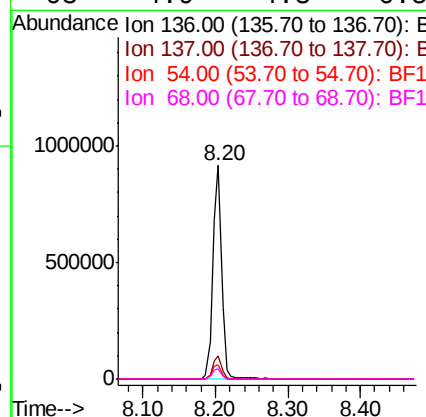
RT: 8.20 min Scan# 1040

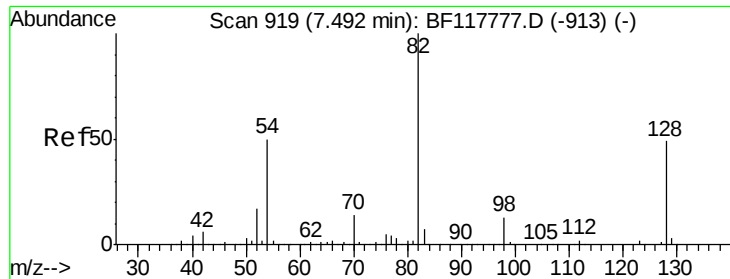
Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Tgt Ion:	136	Resp:	768448
Ion Ratio	Lower	Upper	
136	100		
137	10.8	9.0	13.4
54	6.8	5.4	8.2
68	4.9	4.3	6.5





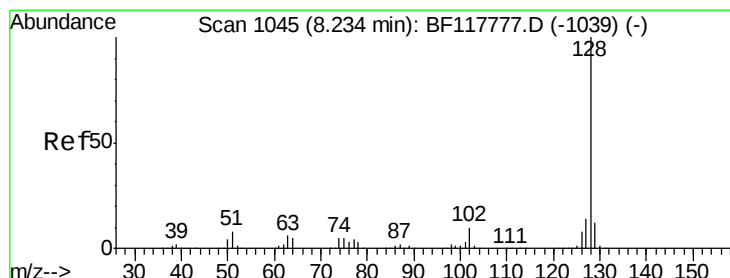
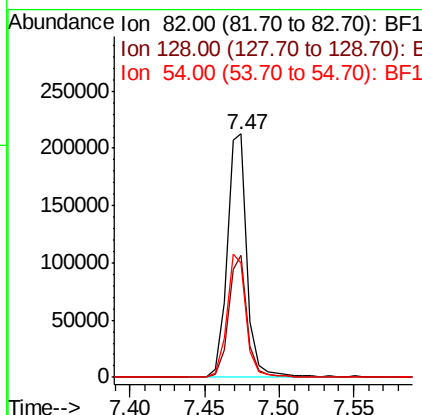
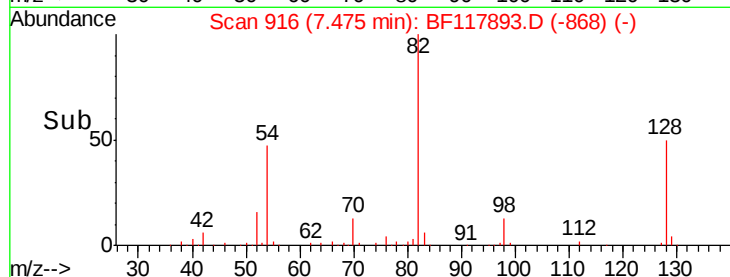
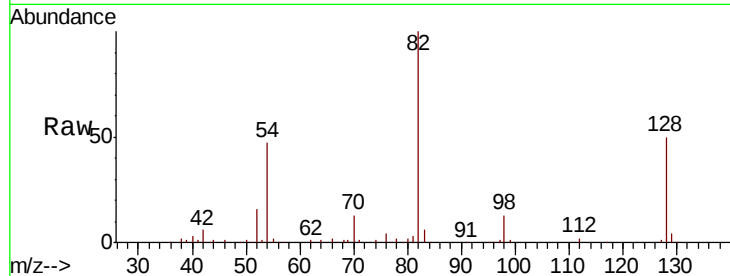
#23
Nitrobenzene-d5
Concen: 15.512 ng
RT: 7.47 min Scan# 916
Delta R.T. -0.02 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Resp	Lower	Upper
82	100	200517		
128	50.0		38.9	58.3
54	46.9		39.8	59.6

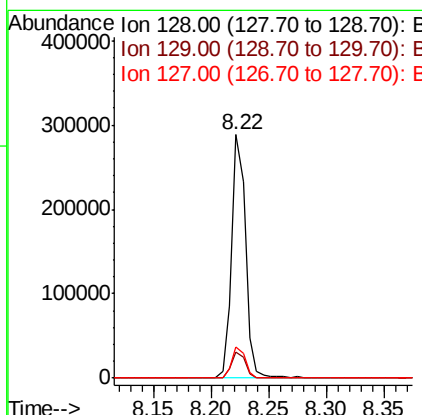
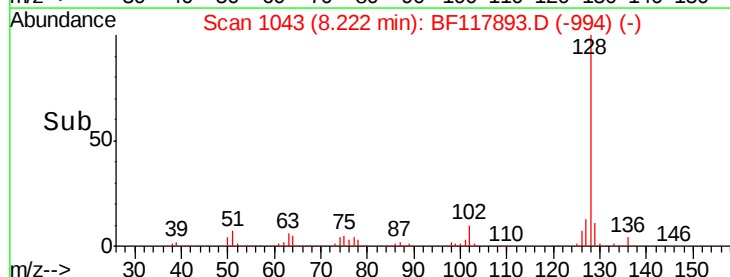
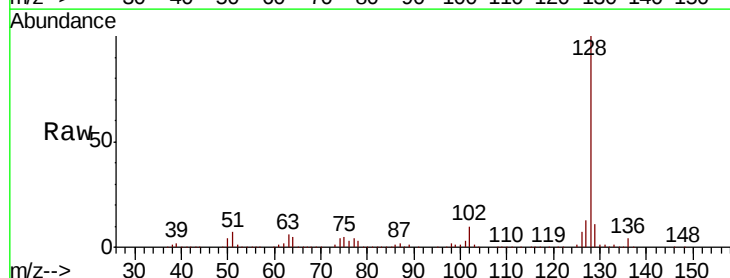
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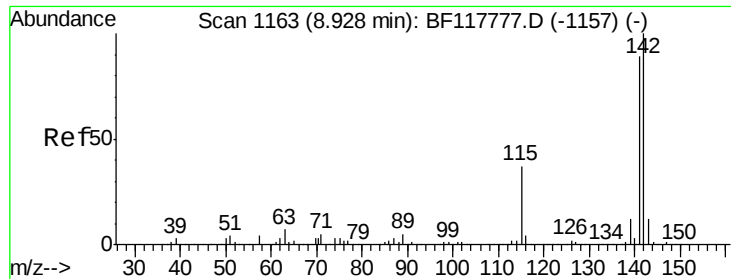
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#31
Naphthalene
Concen: 6.804 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	243736		
129	10.9		9.5	14.3
127	13.0		11.3	16.9





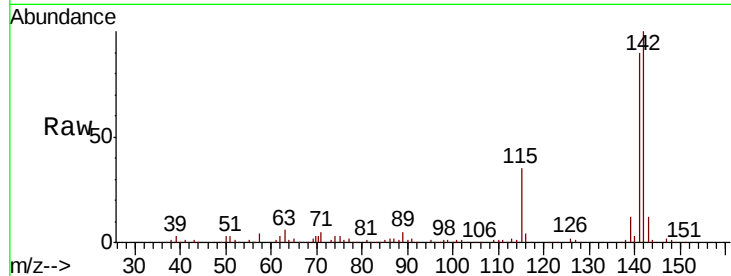
#37
2-Methylnaphthalene
Concen: 6.049 ng
RT: 8.92 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.1	106.7
115	35.3	29.2	43.8

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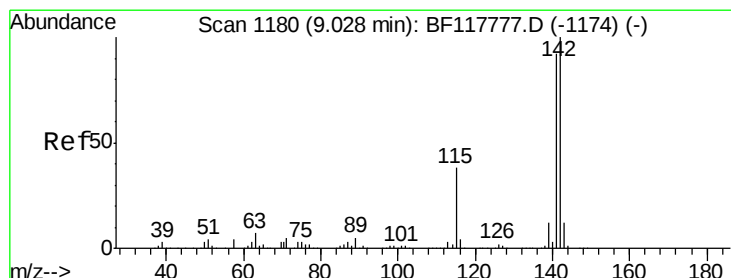
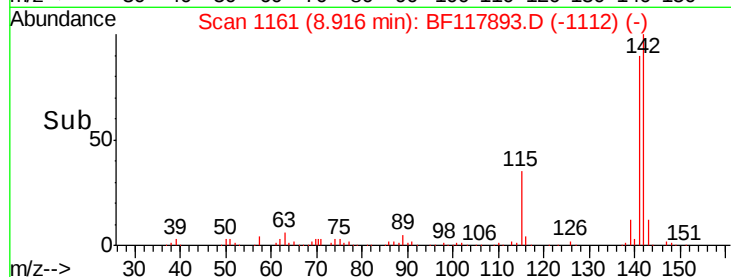
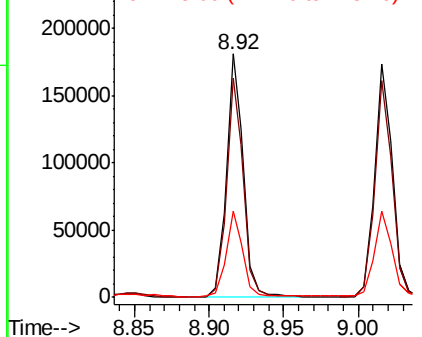


Abundance

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: 6.208 ng
RT: 9.02 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

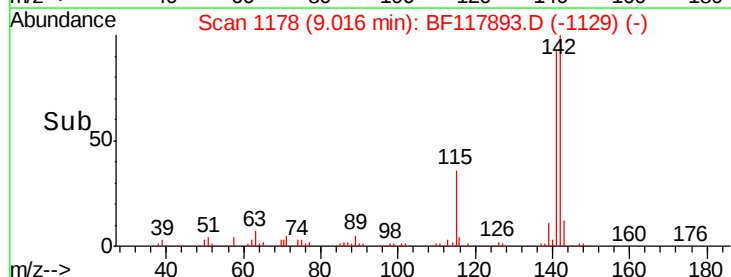
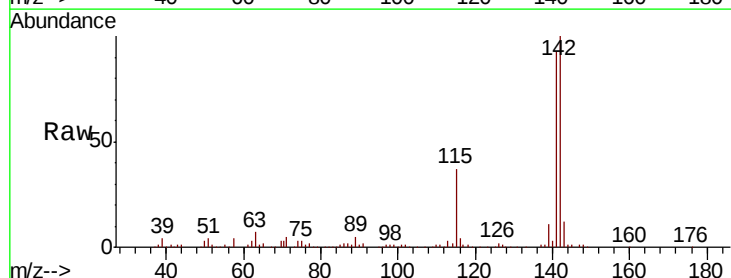
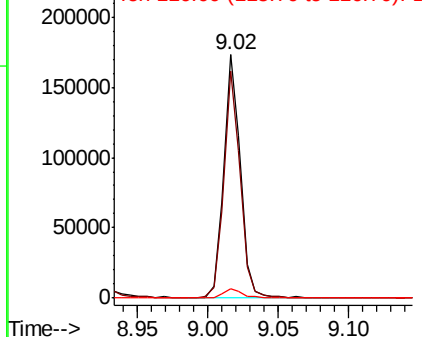
Tgt Ion	Ratio	Lower	Upper
142	100		
141	93.1	73.5	110.3
116	4.0	3.2	4.8

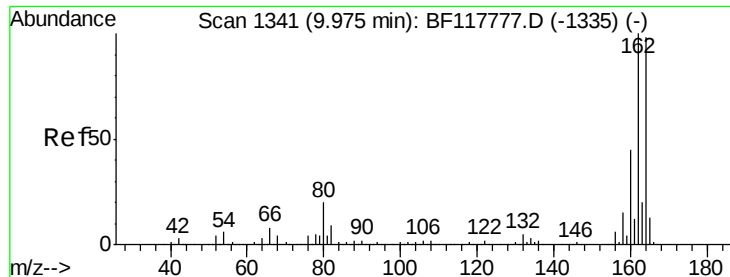
Abundance

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





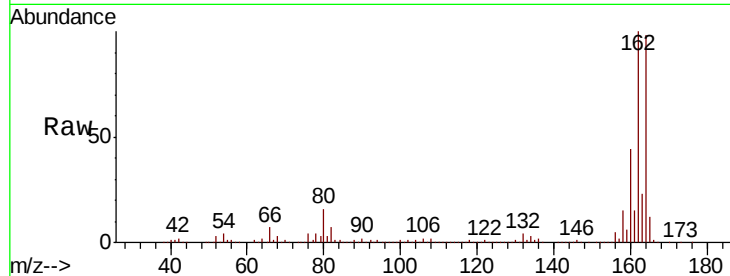
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.97 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

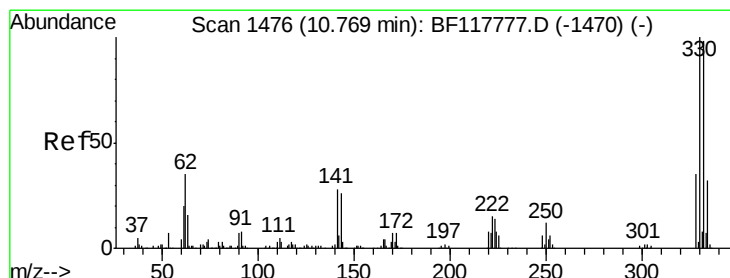
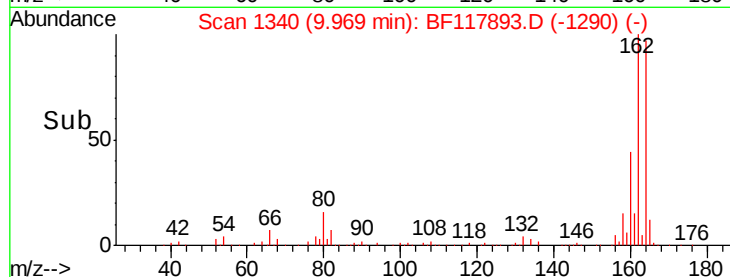
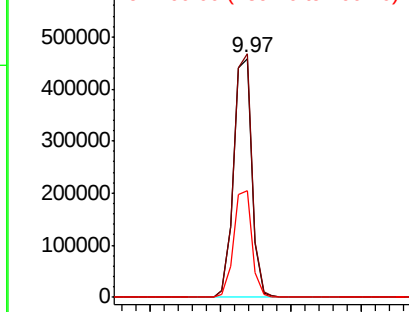
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.0	81.3	121.9	
160	44.9	36.6	55.0	

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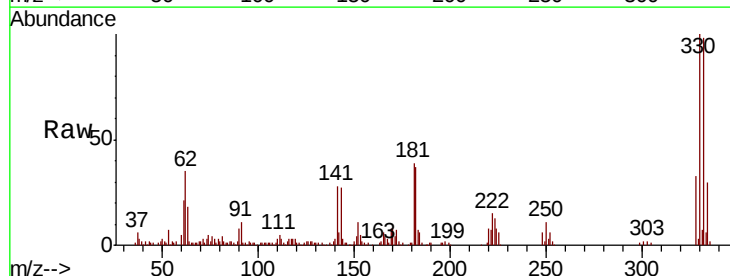


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

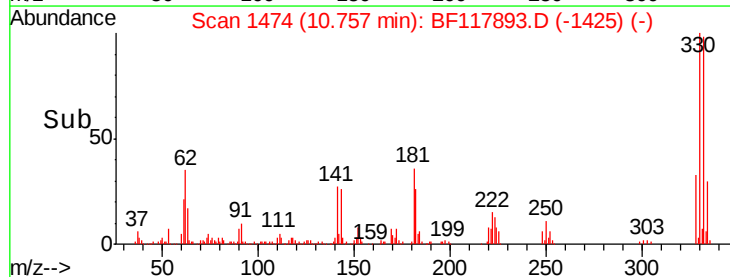
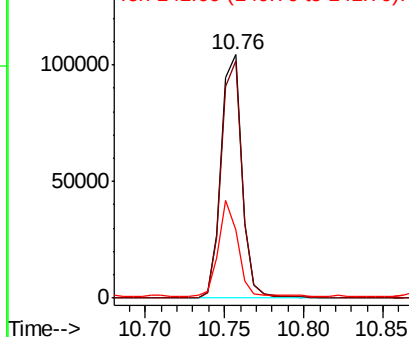


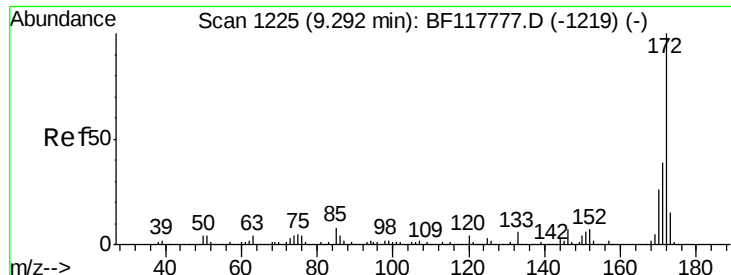
#42
2,4,6-Tribromophenol
Concen: 21.900 ng
RT: 10.76 min Scan# 1474
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.1	76.7	115.1	
141	36.6	27.7	41.5	



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





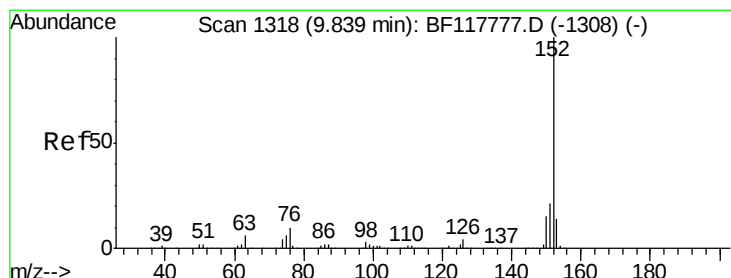
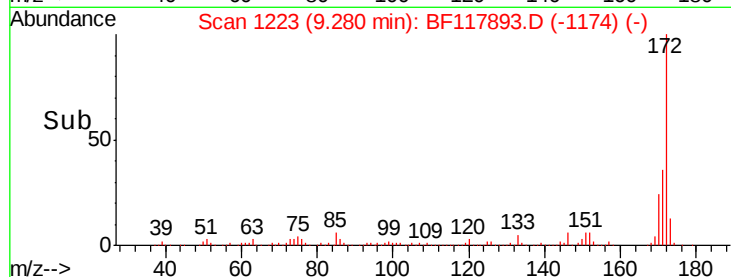
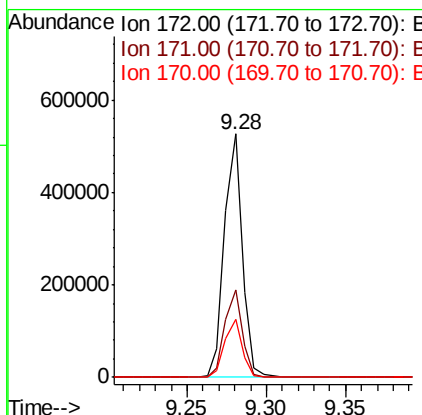
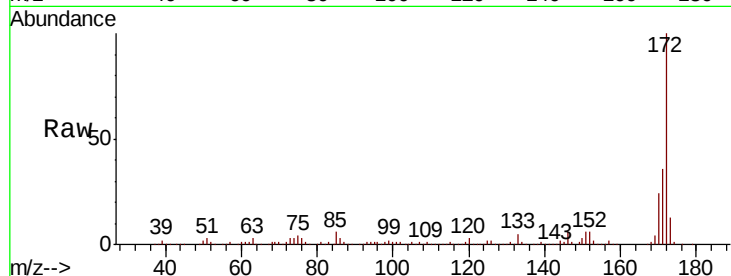
#45
2-Fluorobiphenyl
Concen: 17.970 ng
RT: 9.28 min Scan# 1223
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.1	30.9	46.3
170	24.0	21.0	31.4

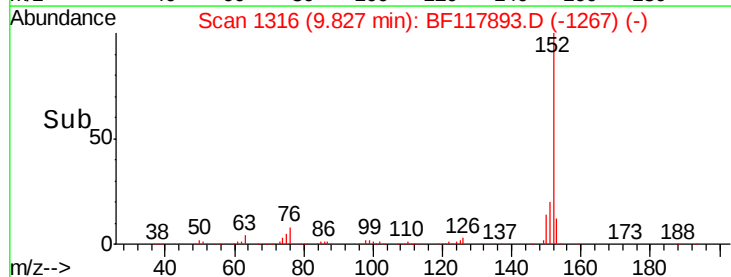
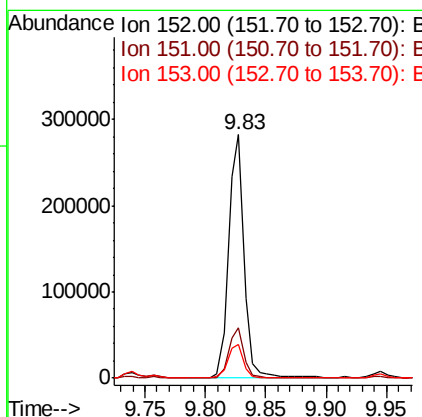
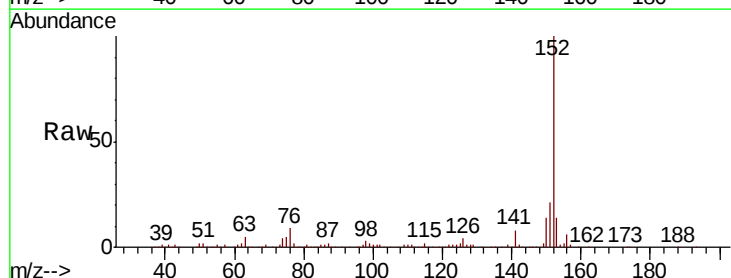
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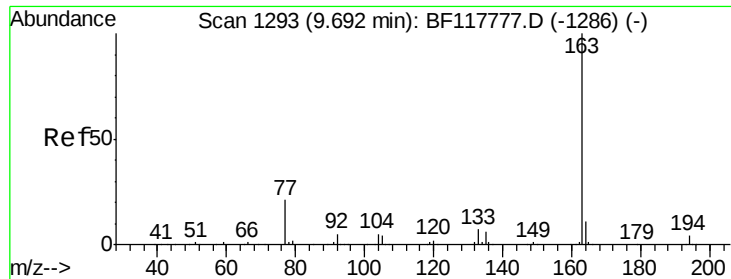
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#49
Acenaphthylene
Concen: 6.725 ng
RT: 9.83 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.6	17.0	25.6
153	13.7	11.0	16.6





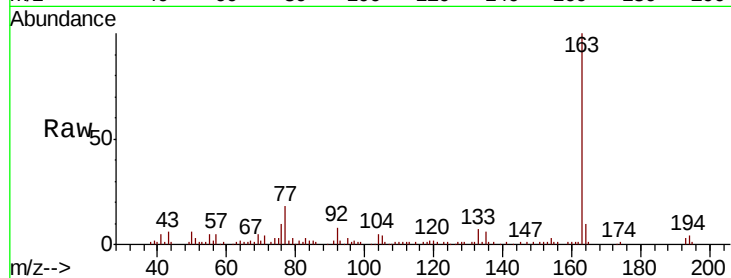
#50
Dimethylphthalate
Concen: 2.292 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.02 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

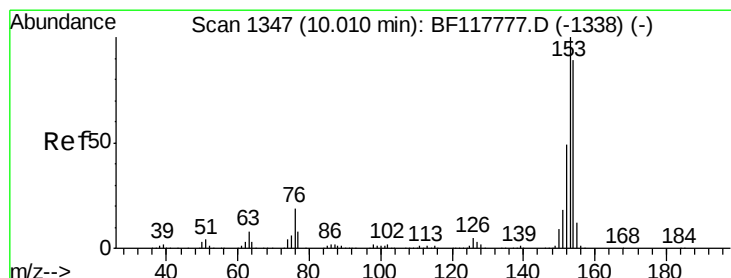
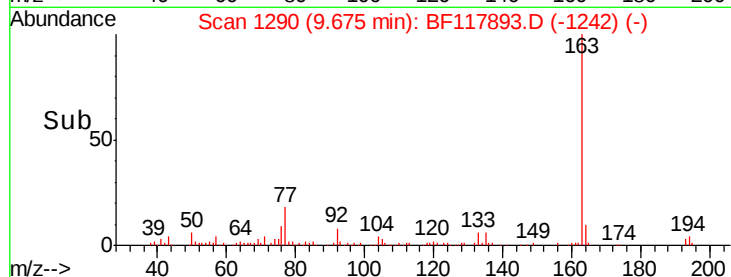
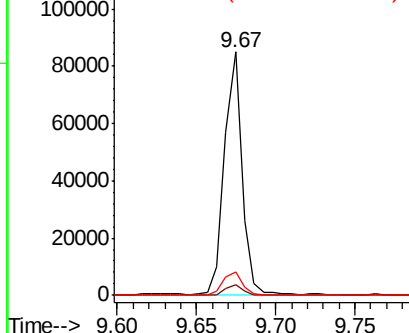
Tot Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.3	4.9
164	9.5	8.7	13.1

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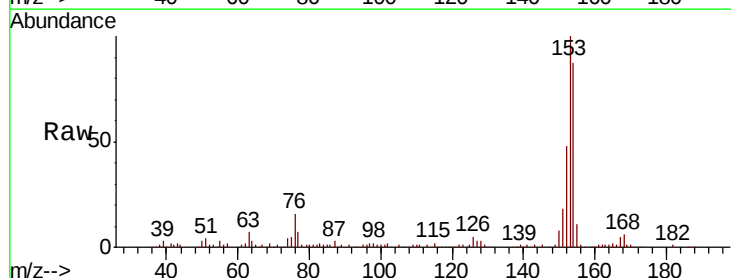


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

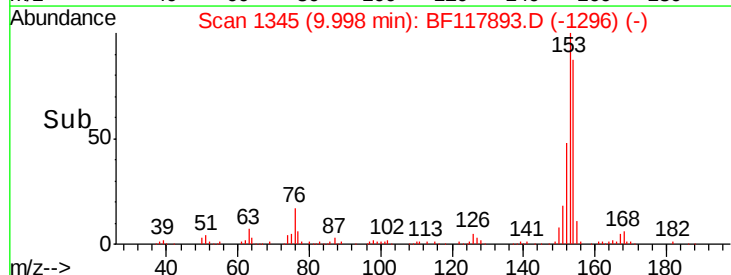
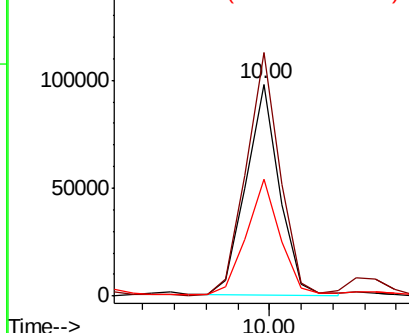


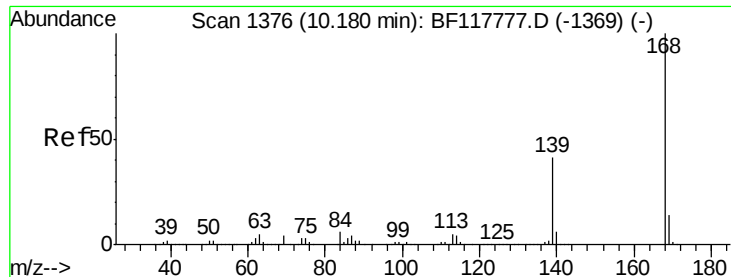
#52
Acenaphthene
Concen: 3.036 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.7	90.1	135.1
152	55.2	44.0	66.0



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





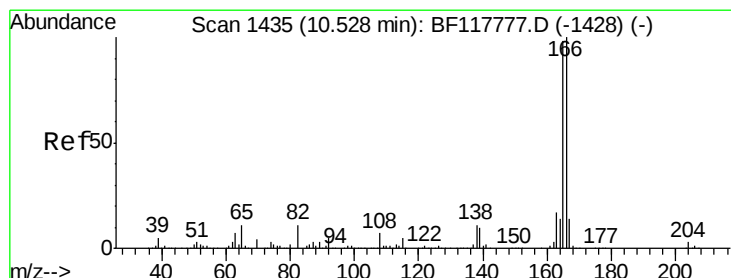
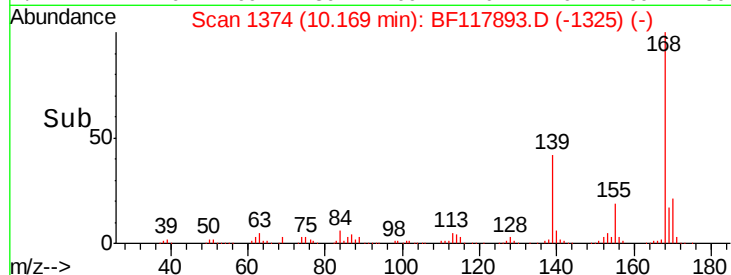
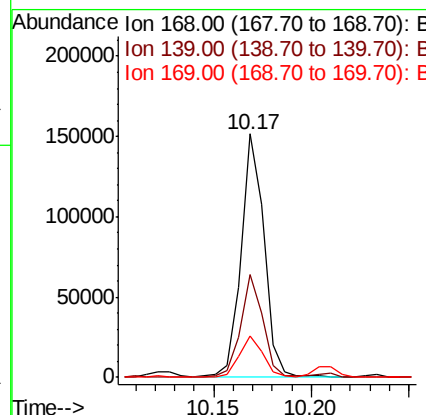
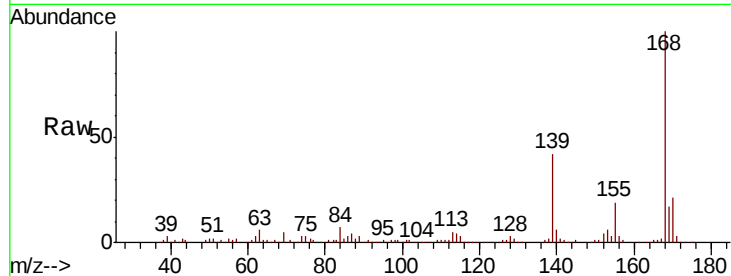
#55
Dibenzofuran
Concen: 3.752 ng
RT: 10.17 min Scan# 1374
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleID :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.1	33.0	49.6
169	16.9	11.5	17.3

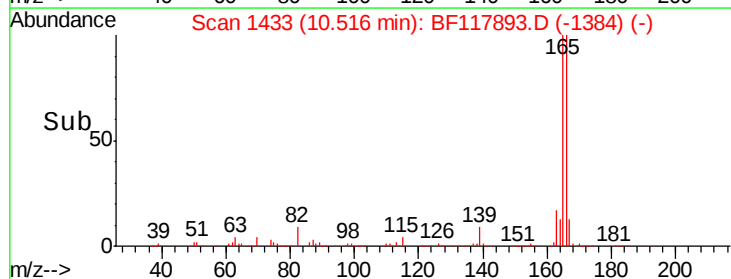
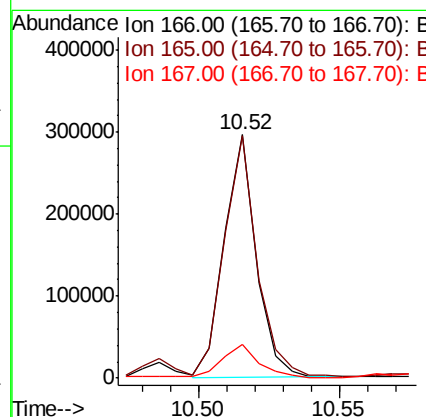
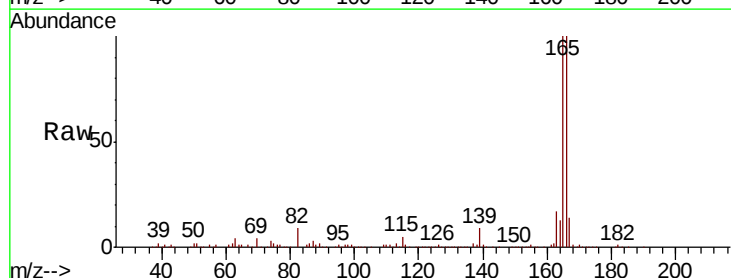
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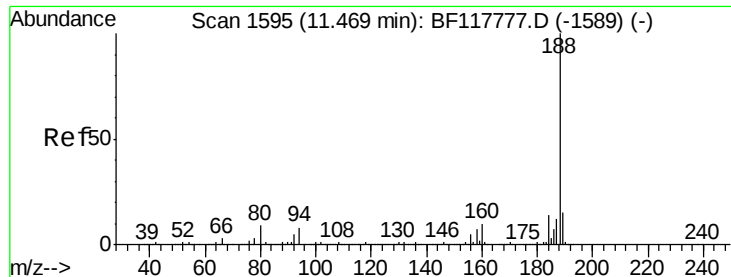
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#58
Fluorene
Concen: 9.252 ng
RT: 10.52 min Scan# 1433
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.4	117.6
167	13.7	11.0	16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Instrument :

BNA_F

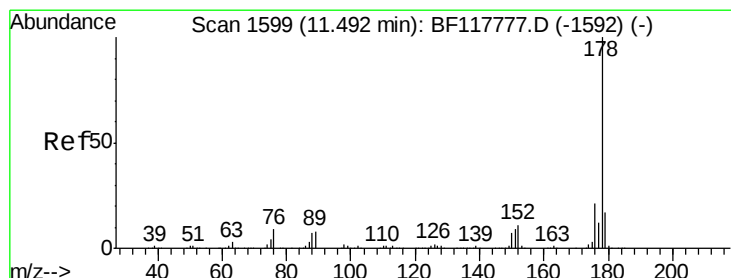
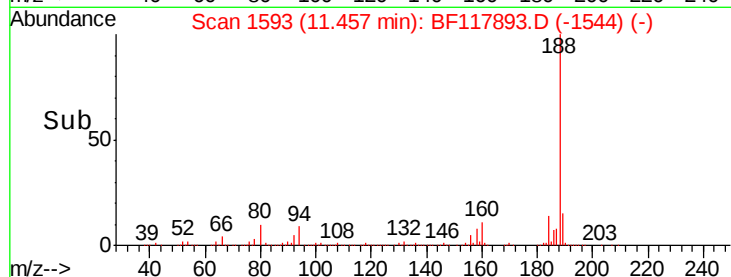
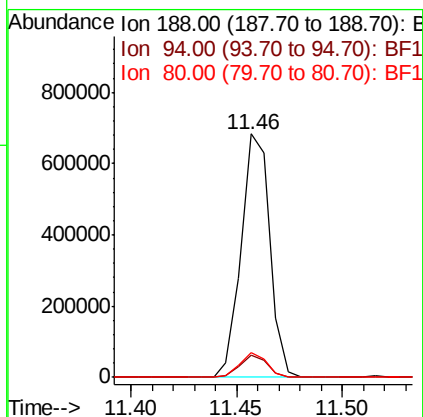
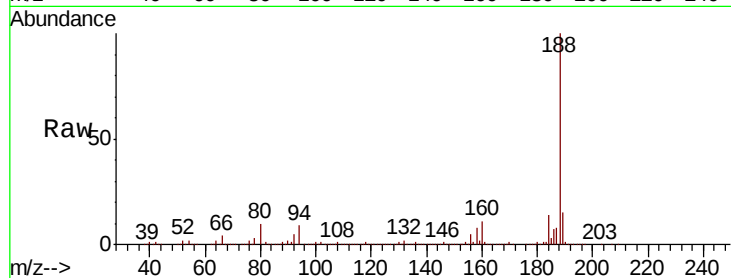
ClientSampleId :

SU-01-111519DL

Tot Ion:	188	Resp:	642251
Ion Ratio	Lower	Upper	
188	100		
94	9.0	6.6	10.0
80	10.0	7.2	10.8

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#71

Phenanthrene

Concen: 35.803 ng

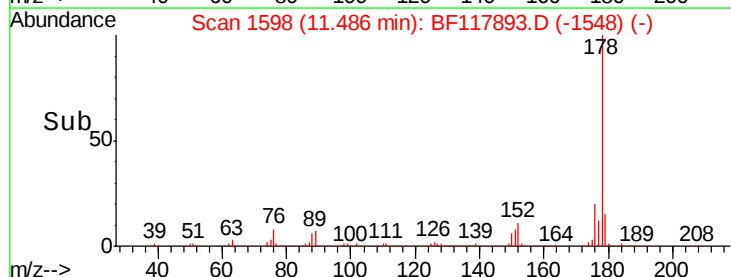
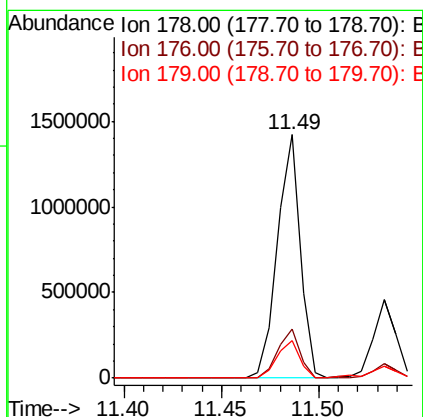
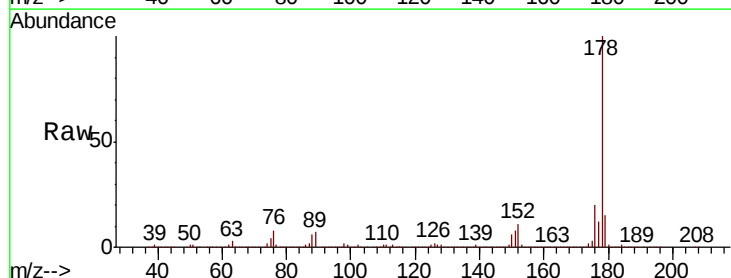
RT: 11.49 min Scan# 1598

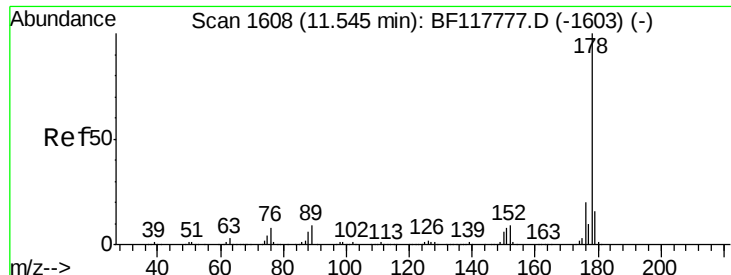
Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Tgt Ion:	178	Resp:	1156093
Ion Ratio	Lower	Upper	
178	100		
176	20.0	16.6	25.0
179	15.5	13.2	19.8





#72

Anthracene

Concen: 10.977 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Instrument :

BNA_F

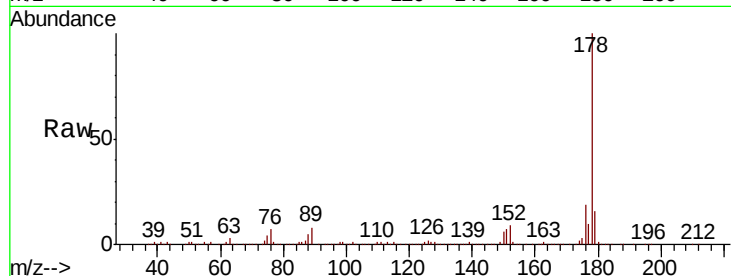
ClientSampleId :

SU-01-111519DL

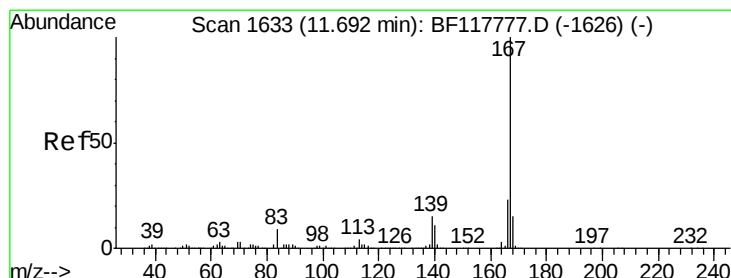
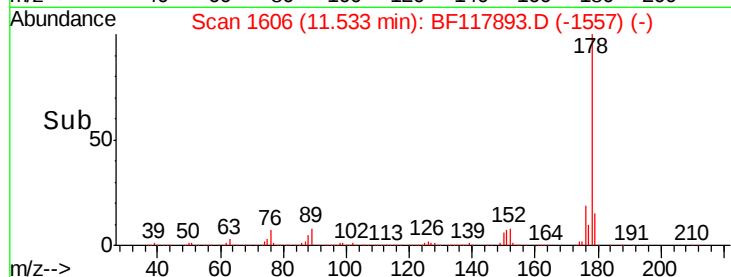
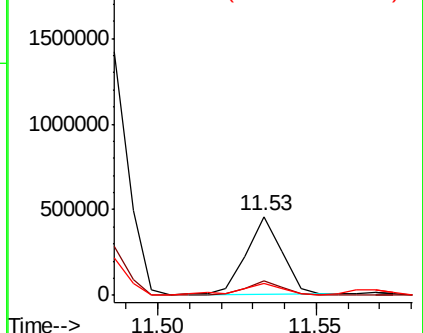
Tot Ion:	178	Resp:	351414
Ion Ratio	Lower	Upper	
178	100		
176	18.8	16.1	24.1
179	15.7	13.0	19.4

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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



#73

Carbazole

Concen: 2.132 ng

RT: 11.69 min Scan# 1632

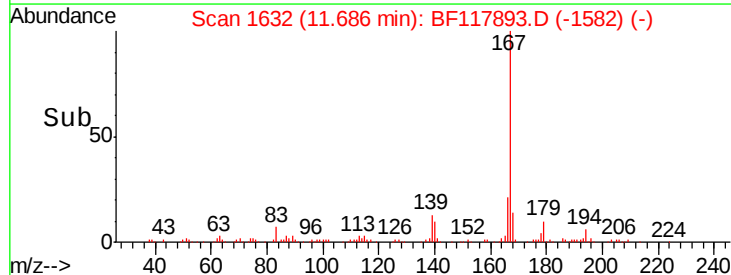
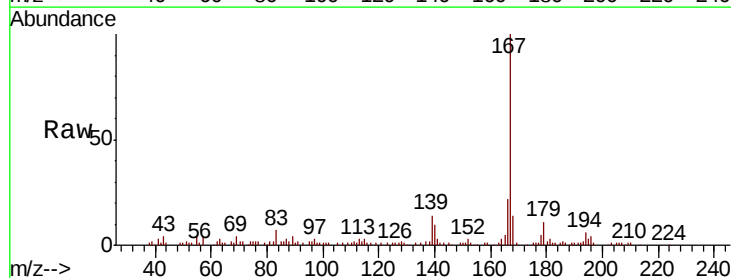
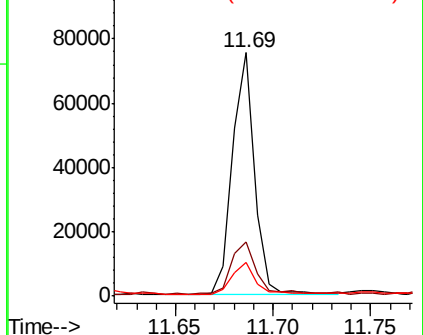
Delta R.T. -0.01 min

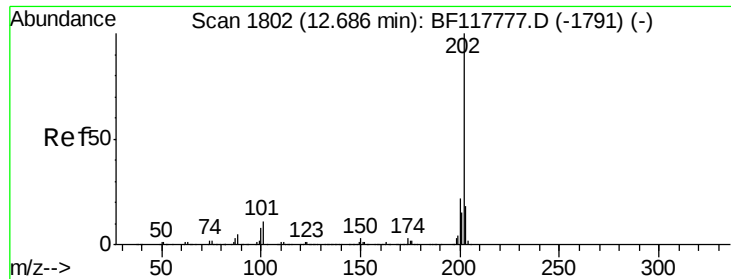
Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Tgt Ion:	167	Resp:	59656
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.0	27.0
139	14.0	11.7	17.5

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 54.595 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Instrument :

BNA_F

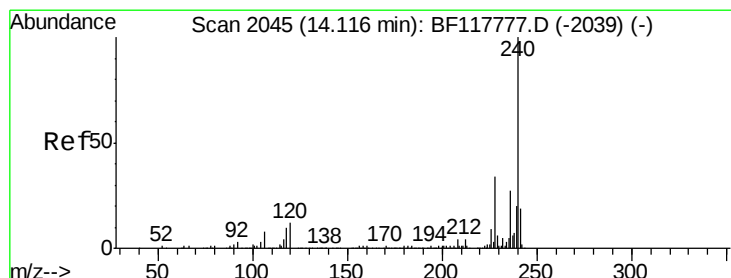
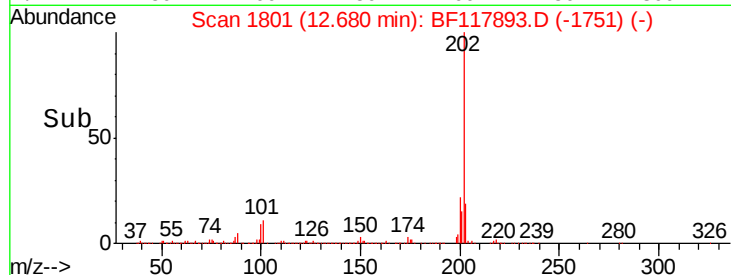
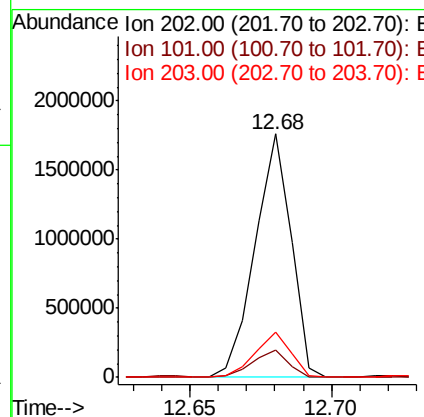
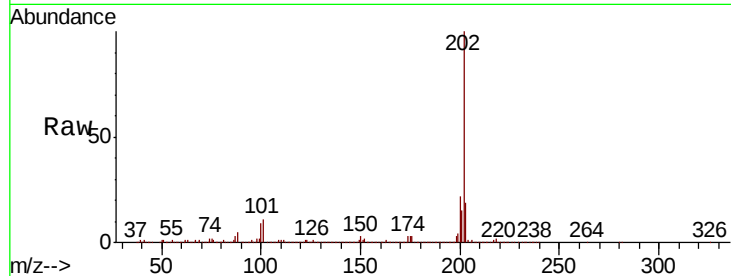
ClientSampleId :

SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.1
203	18.7	0.0	38.2

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

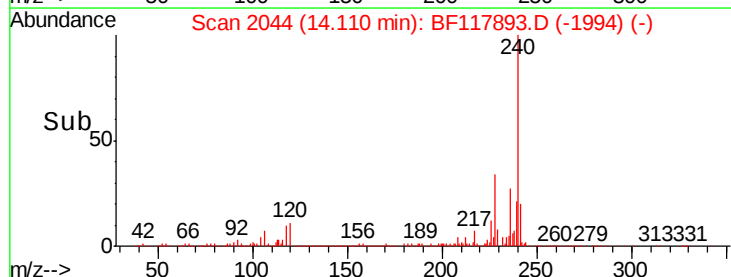
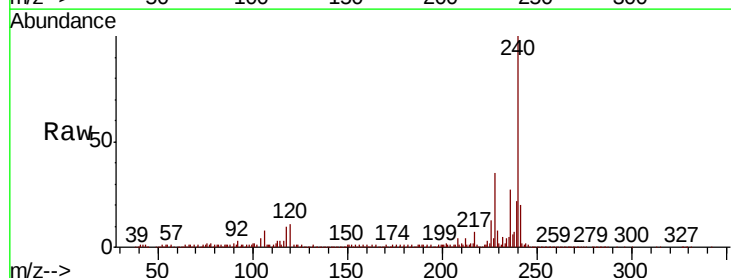
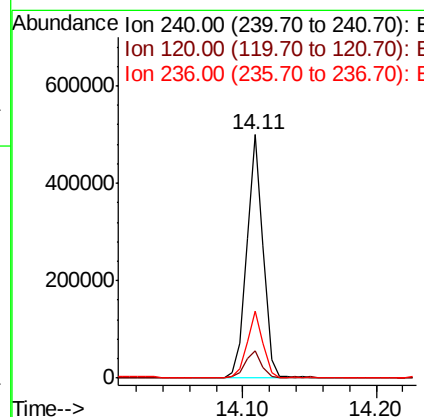
RT: 14.11 min Scan# 2044

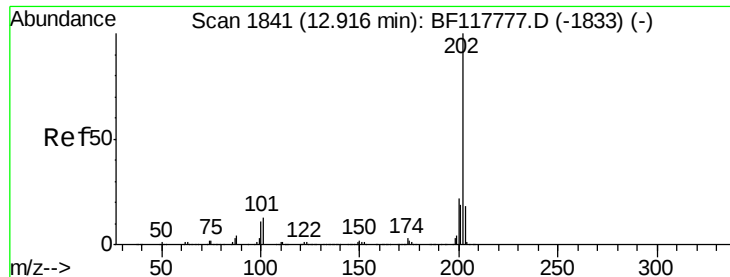
Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.5	14.3
236	27.4	21.3	31.9





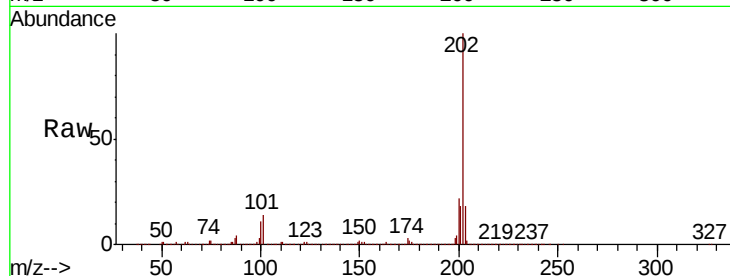
#78
Pvrene
Concen: 43.051 ng
RT: 12.91 min Scan# 1840
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.8	26.8
203	18.0	14.6	22.0

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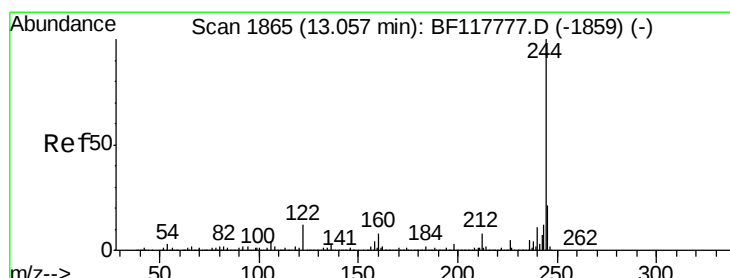
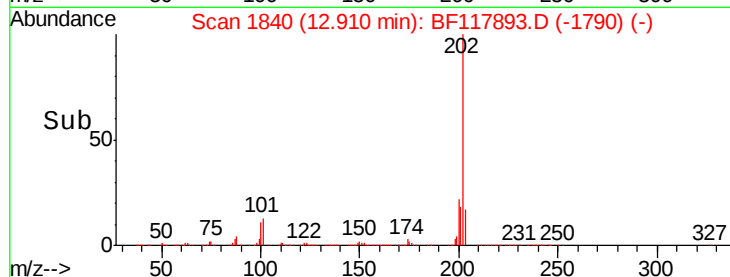
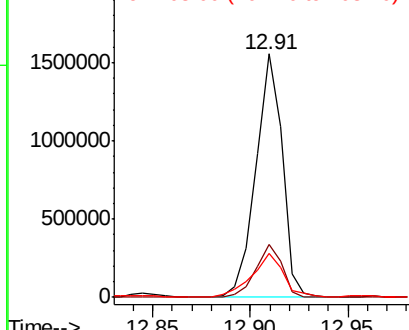


Abundance

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: 17.734 ng
RT: 13.04 min Scan# 1863
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

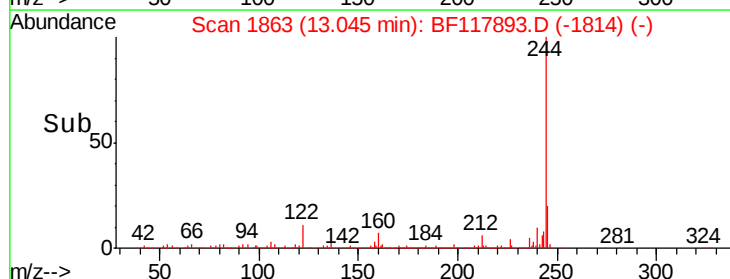
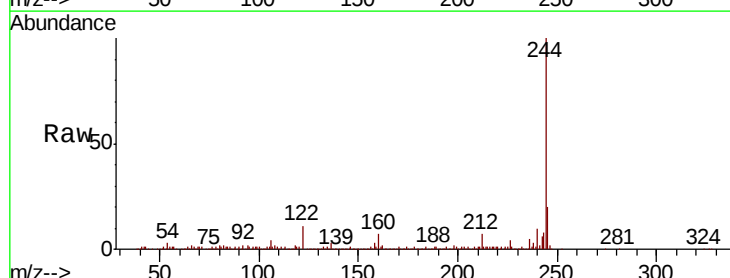
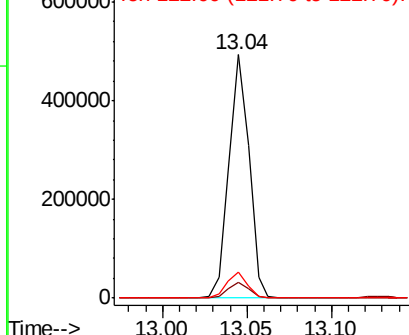
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.3	9.5
122	10.8	9.4	14.2

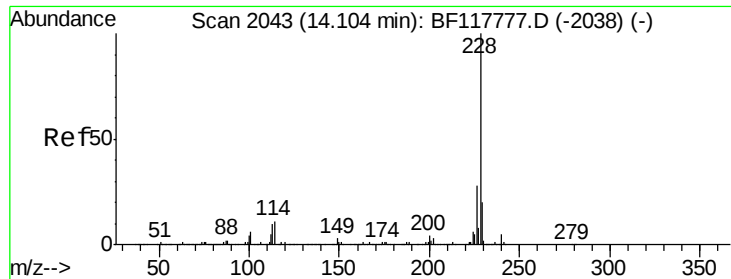
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





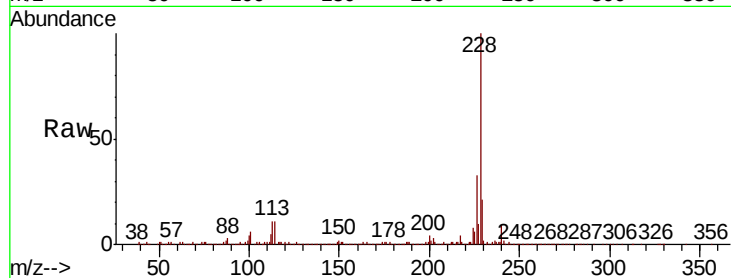
#81
Benzo(a)anthracene
Concen: 29.624 ng
RT: 14.10 min Scan# 2042
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.6	22.2	33.2
229	20.6	15.9	23.9

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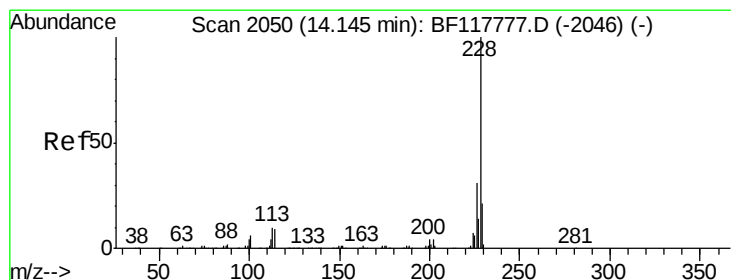
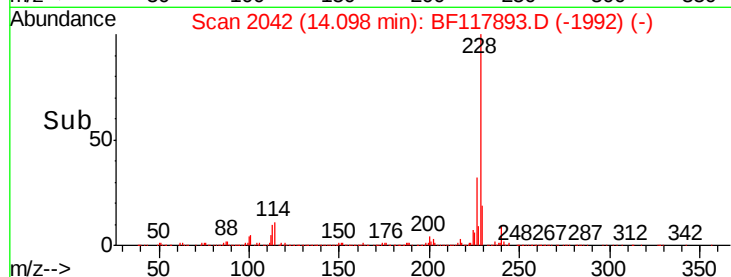
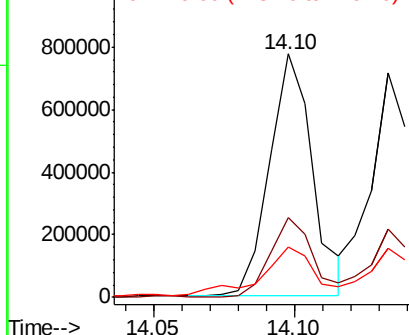


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 24.695 ng
RT: 14.13 min Scan# 2048
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

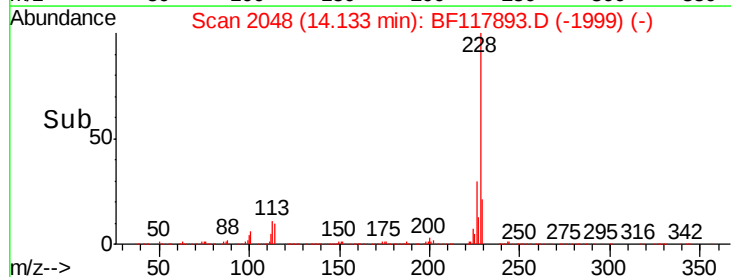
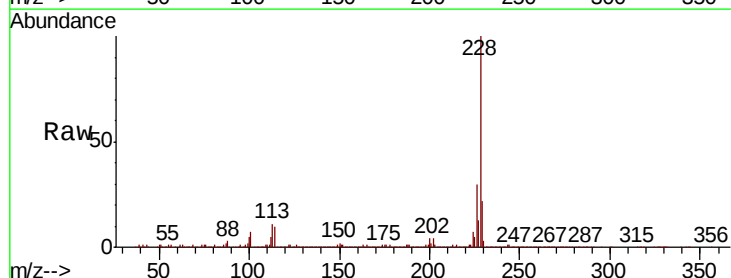
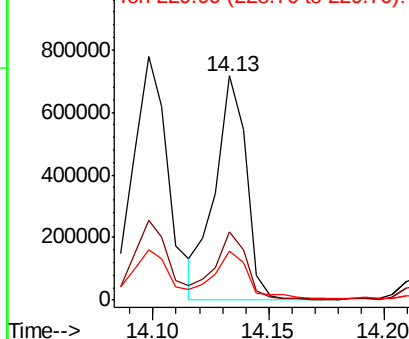
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.4
229	21.9	16.6	25.0

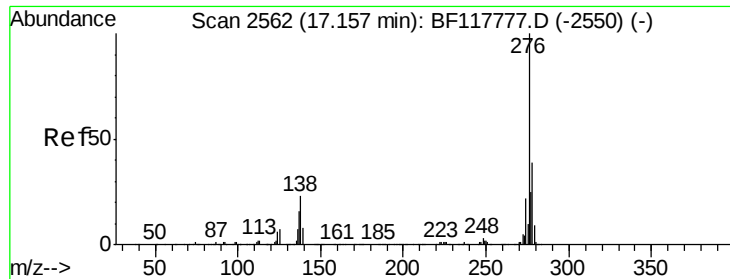
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Indeno(1,2,3-cd)pyrene

Concen: 19.526 ng

RT: 17.15 min Scan# 2561

Delta R.T. -0.01 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

Instrument :

BNA_F

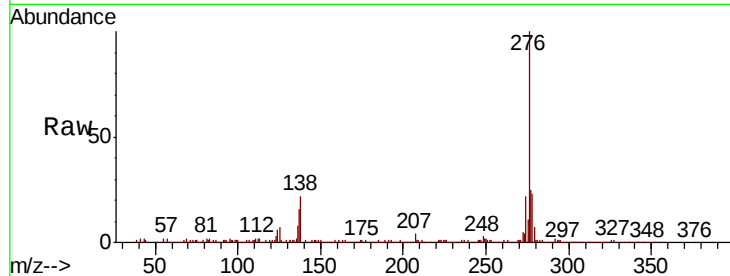
ClientSampleId :

SU-01-111519DL

Tot Ion:	276	Resp:	446344
Ion Ratio	Lower	Upper	
276	100		
138	21.5	20.9	31.3
277	25.4	20.3	30.5

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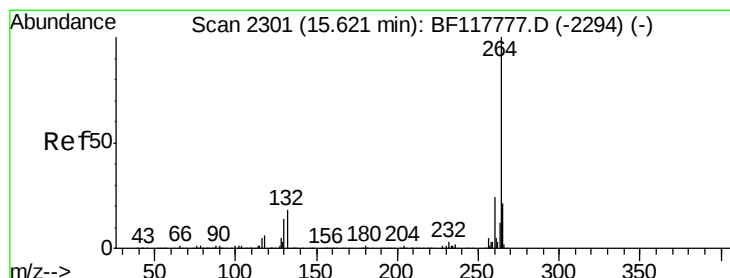
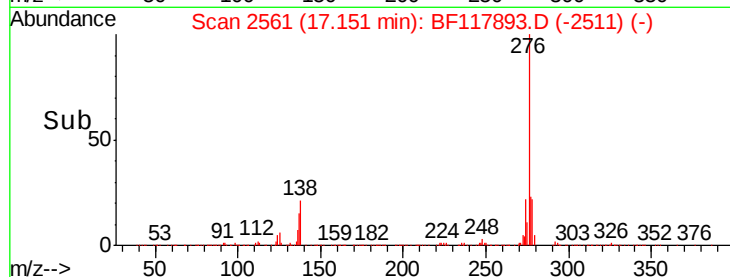
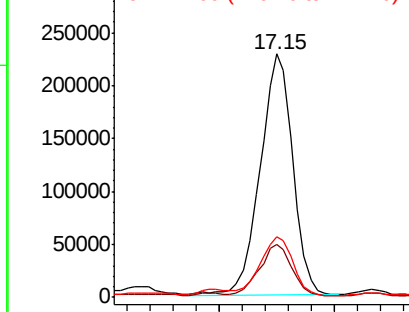


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.62 min Scan# 2301

Delta R.T. -0.00 min

Lab File: BF117893.D

Acq: 20 Nov 2019 15:19

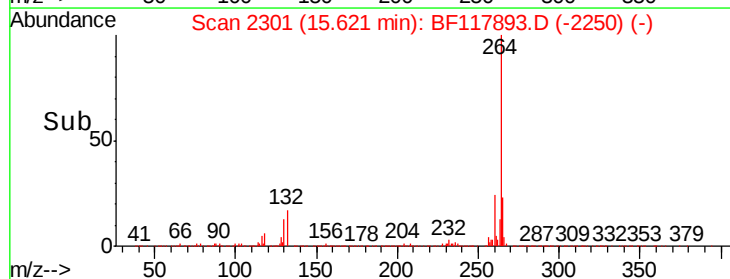
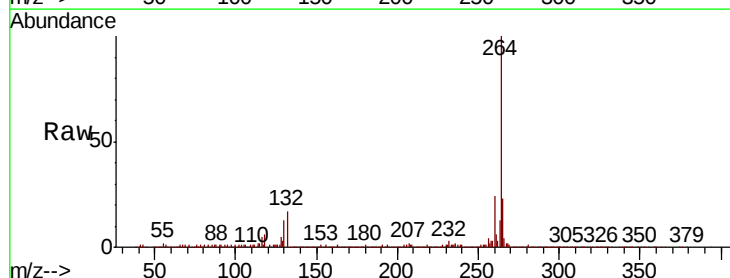
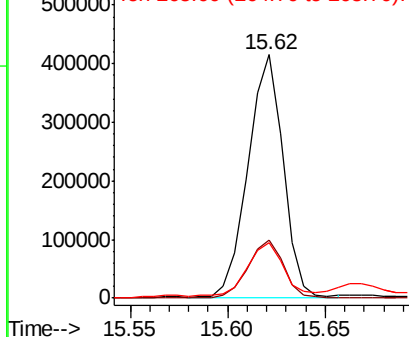
Tgt Ion:	264	Resp:	515373
Ion Ratio	Lower	Upper	
264	100		
260	23.7	19.4	29.0
265	22.8	17.1	25.7

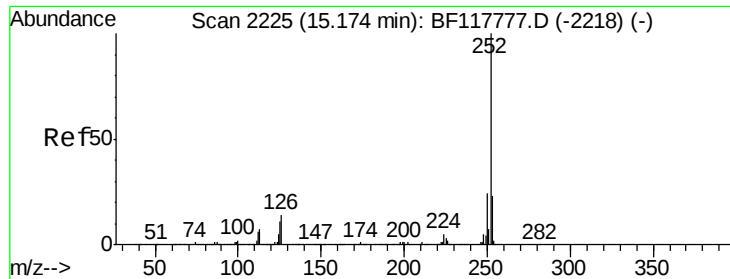
Abundance

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





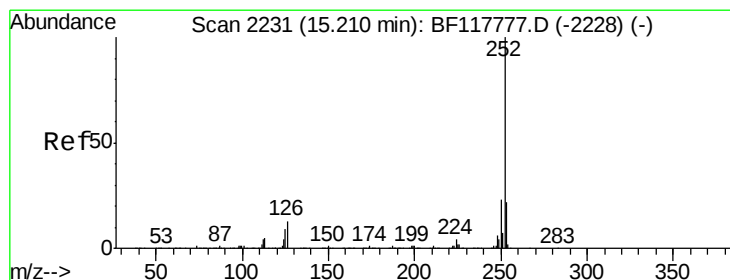
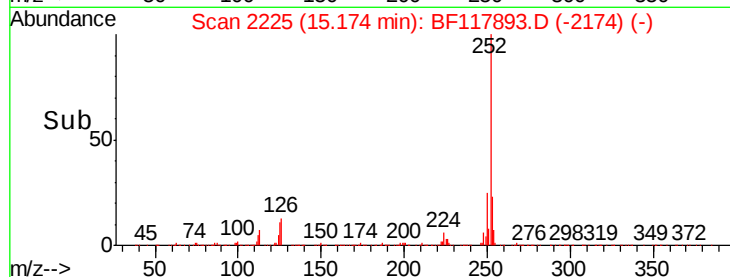
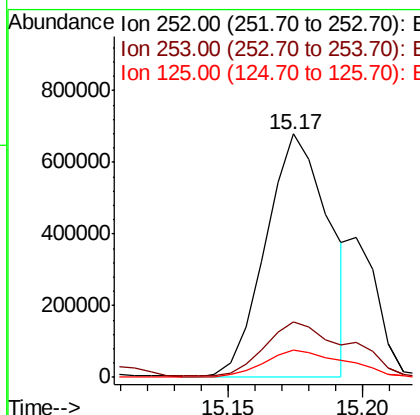
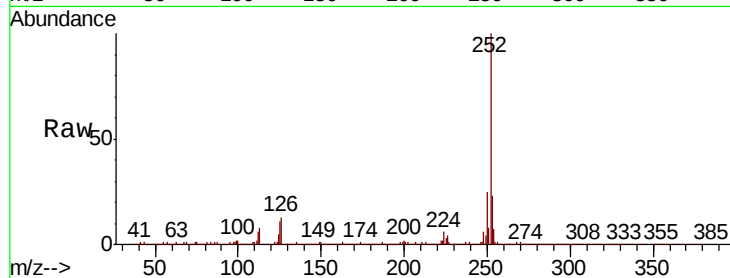
#88
Benzo(b)fluoranthene
Concen: 33.503 ng m
RT: 15.17 min Scan# 2225
Delta R.T. -0.00 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	11.1	8.6	13.0

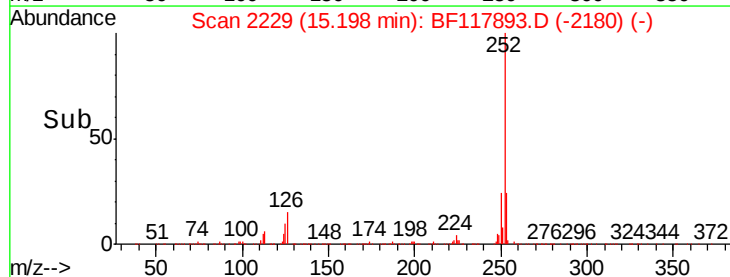
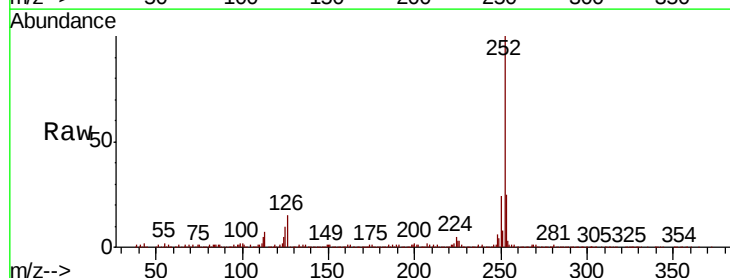
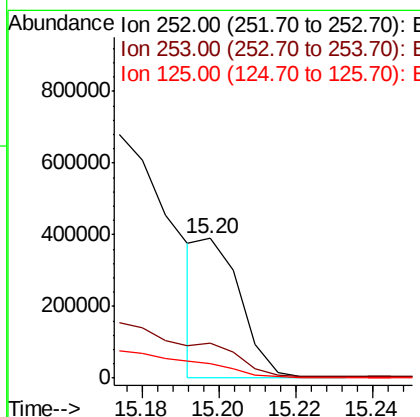
Manual Integrations
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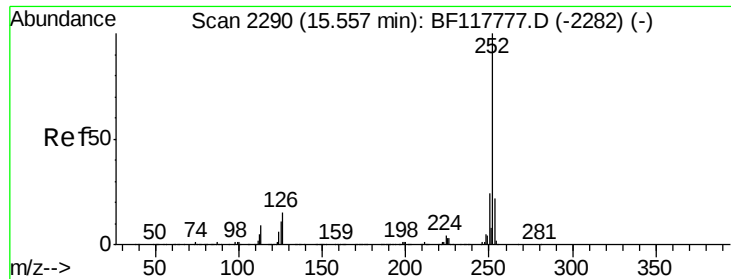
mohammad
11/21/2019 1:05:12 PM



#89
Benzo(k)fluoranthene
Concen: 9.135 ng m
RT: 15.20 min Scan# 2229
Delta R.T. -0.01 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.5	26.3
125	10.0	7.9	11.9





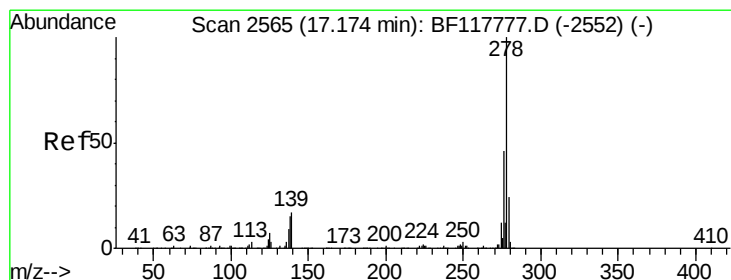
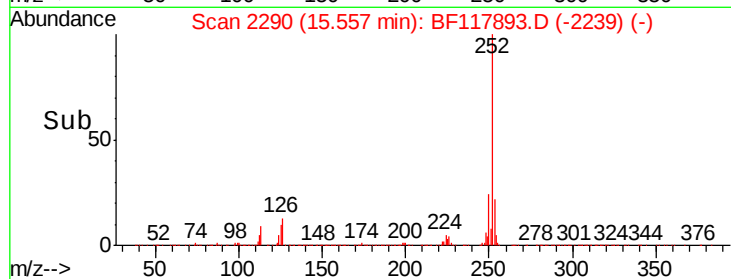
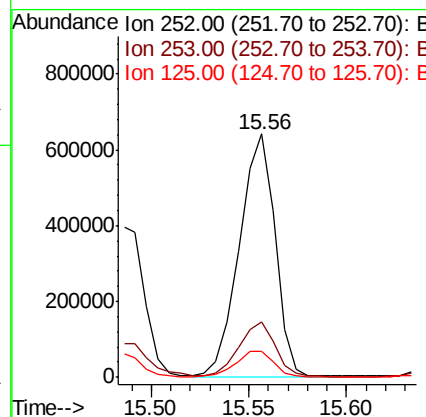
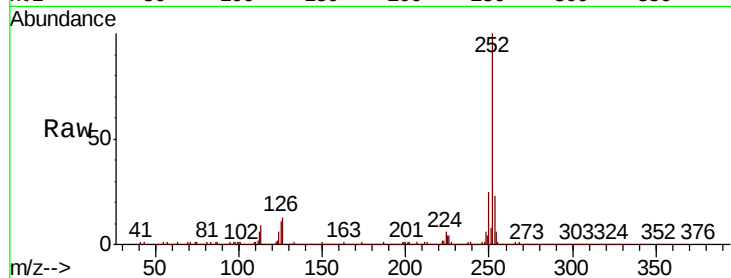
#90
Benzo(a)pyrene
Concen: 27.618 ng
RT: 15.56 min Scan# 2290
Delta R.T. -0.00 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Instrument :
BNA_F
ClientSampleId :
SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	10.7	9.2	13.8

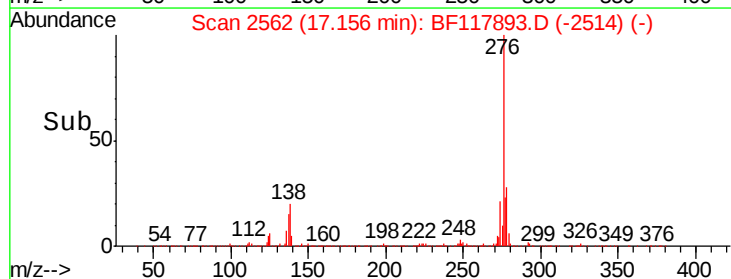
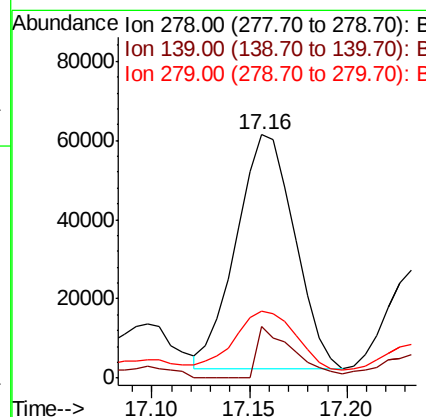
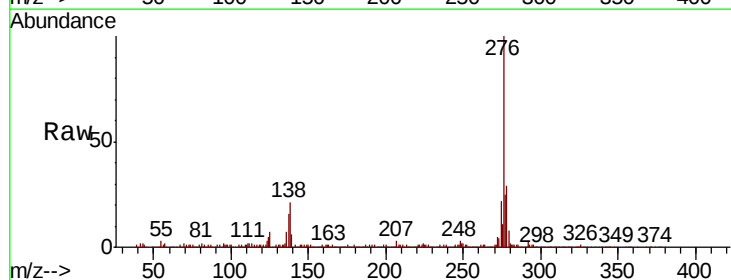
Manual Integrations
APPROVED

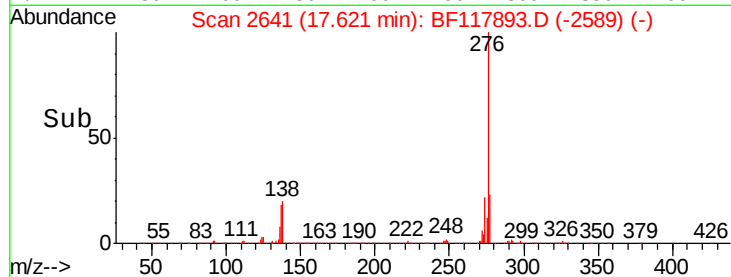
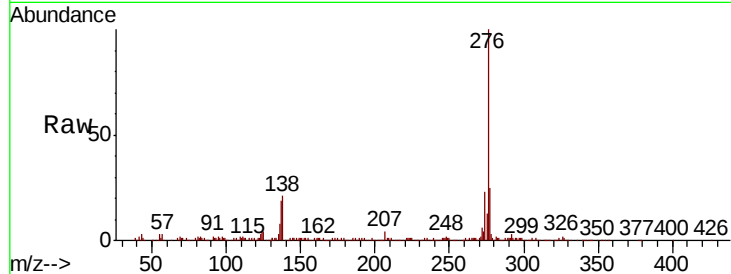
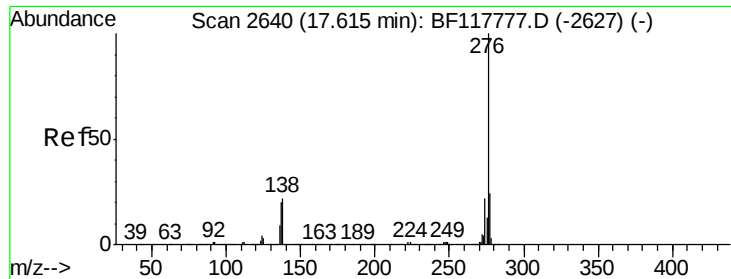
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 4.871 ng m
RT: 17.16 min Scan# 2562
Delta R.T. -0.02 min
Lab File: BF117893.D
Acq: 20 Nov 2019 15:19

Tgt Ion	Ratio	Lower	Upper
278	100		
139	21.5	13.8	20.8#
279	27.3	19.6	29.4





#92
 Benzo(a,h,i)perylene
 Concen: 14.145 ng
 RT: 17.62 min Scan# 2641
 Delta R.T. 0.01 min
 Lab File: BF117893.D
 Acq: 20 Nov 2019 15:19

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-111519DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.9	28.3
138	21.1	17.4	26.2

Manual Integrations
 APPROVED

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