

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102819\
 Data File : BF117564.D
 Acq On : 28 Oct 2019 16:31
 Operator : JU
 Sample : K5501-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

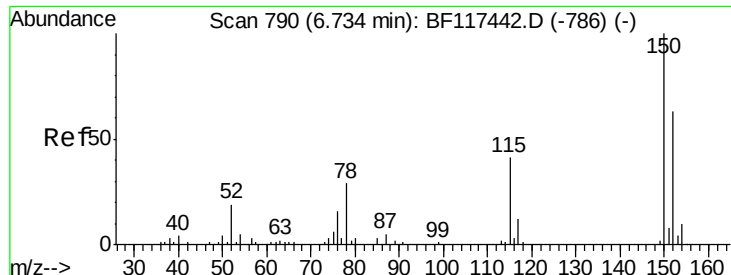
Quant Time: Oct 29 14:05:37 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 18 18:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	36956	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	150891	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	75308	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	110825	20.00	ng	0.00
76) Chrysene-d12	13.89	240	66155	20.00	ng	0.00
87) Perylene-d12	15.34	264	77156	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	210436	84.71	ng	0.00
7) Phenol-d6	6.38	99	299263	89.70	ng	0.00
23) Nitrobenzene-d5	7.29	82	184964	60.52	ng	-0.01
42) 2,4,6-Tribromophenol	10.55	330	49945	76.65	ng	-0.01
45) 2-Fluorobiphenyl	9.08	172	304048	56.89	ng	-0.01
79) Terphenyl-d14	12.83	244	196049	48.34	ng	0.00

Target Compounds				Qvalue		
9) Benzaldehyde	6.38	77	350	Below Cal	#	3
10) Phenol	6.39	94	8160	2.396	ng	# 72
19) n-Nitroso-di-n-propylamine	7.29	70	24352	11.951	ng	# 81
25) Isophorone	7.29	82	184963	34.982	ng	# 65
50) Dimethylphthalate	9.48	163	47244	8.800	ng	98
56) 4-Nitrophenol	9.98	139	978	5.613	ng	# 6
57) 2,4-Dinitrotoluene	9.76	165	9996	6.711	ng	# 12
67) 4-Bromophenyl-phenylether	10.55	248	2665	2.233	ng	# 1
71) Phenanthrene	11.27	178	82183	12.771	ng	99
72) Anthracene	11.27	178	82183	12.447	ng	99
75) Fluoranthene	12.46	202	138296	21.467	ng	97
77) Benzidine	12.83	184	2767	Below Cal	#	77
78) Pyrene	12.69	202	116828	20.560	ng	99
81) Benzo(a)anthracene	13.88	228	58202	13.043	ng	99
83) Chrysene	13.92	228	51484	11.772	ng	97
86) Indeno(1,2,3-cd)pyrene	16.76	276	28318	8.673	ng	97
88) Benzo(b)fluoranthene	14.93	252	96998	21.289	ng	95
89) Benzo(k)fluoranthene	14.93	252	96998	20.771	ng	# 93
90) Benzo(a)pyrene	15.28	252	52230	12.608	ng	# 93
92) Benzo(a,h,i)perylene	17.19	276	25472	7.516	ng	97

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

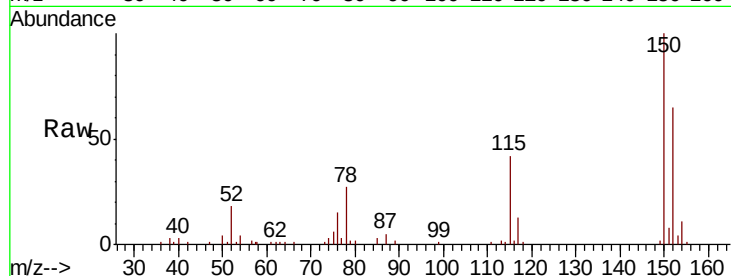


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	126.8	190.2
115	64.1	51.6	77.4

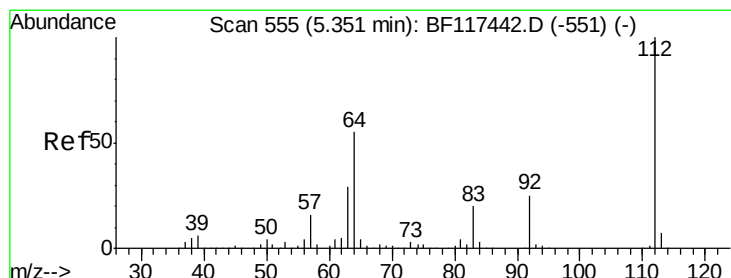
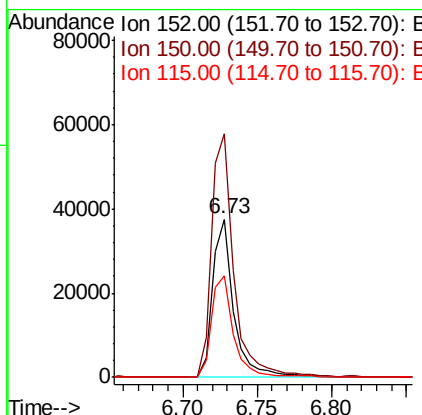
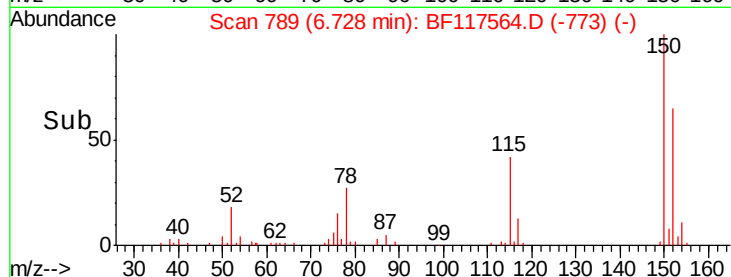


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

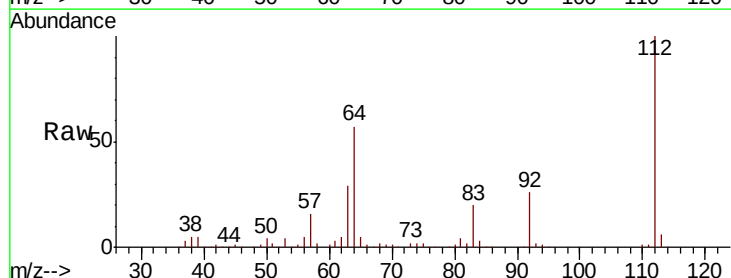
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 84.713 ng
RT: 5.35 min Scan# 555
Delta R.T. -0.00 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.1	66.1
63	28.7	23.4	35.2

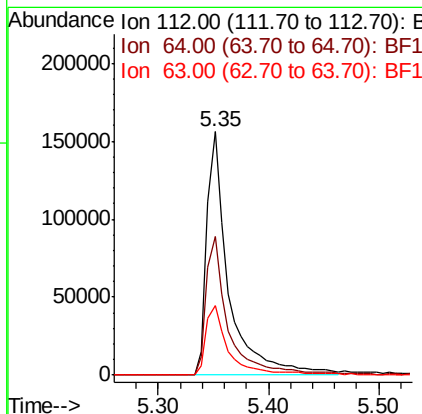
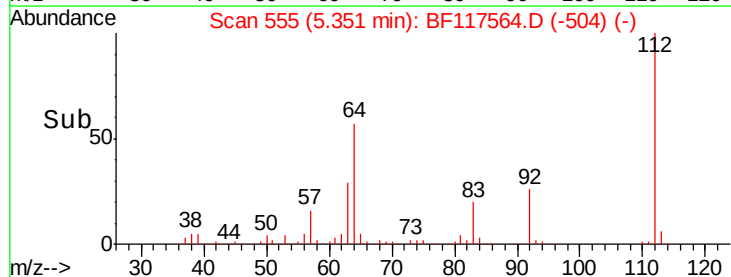


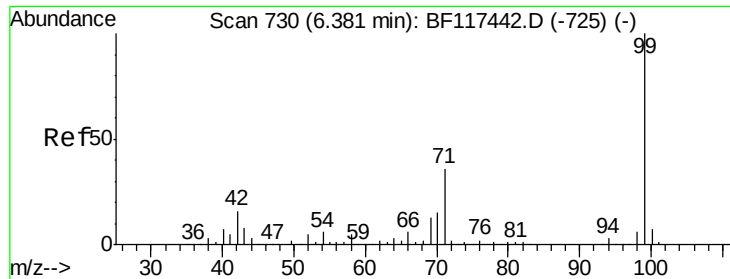
Abundance

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: 89.696 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

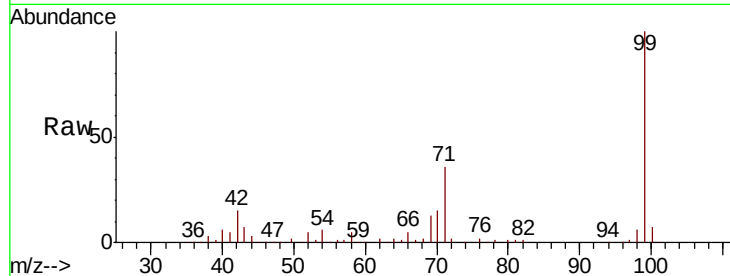
Tot Ion: 99 Resp: 299263

Ion Ratio Lower Upper

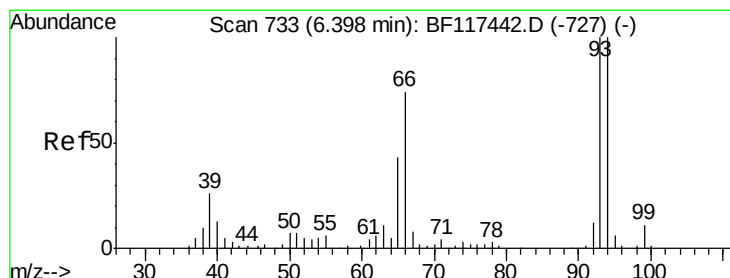
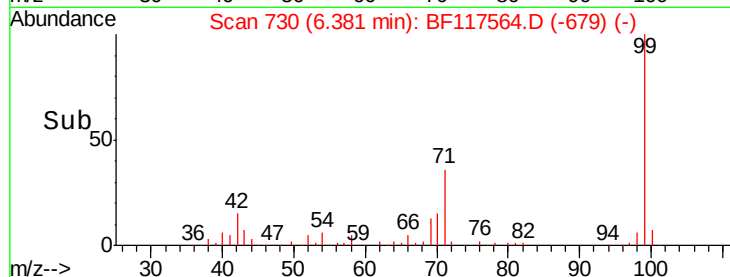
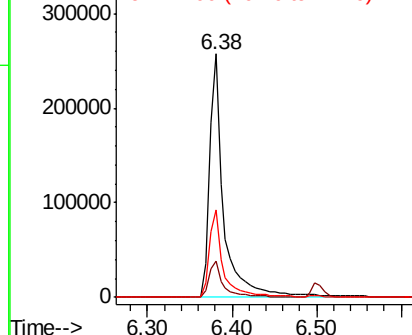
99 100

42 15.1 12.8 19.2

71 35.7 28.6 43.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.396 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

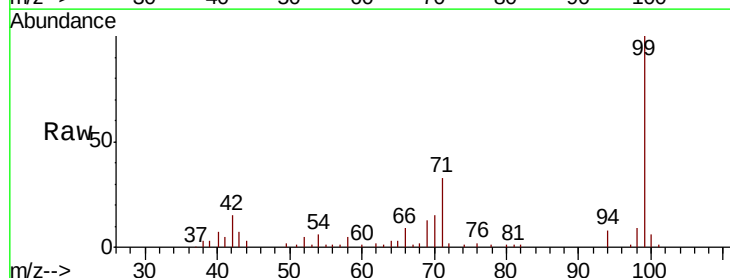
Tgt Ion: 94 Resp: 8160

Ion Ratio Lower Upper

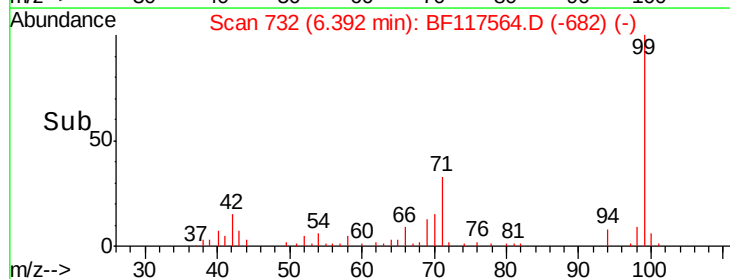
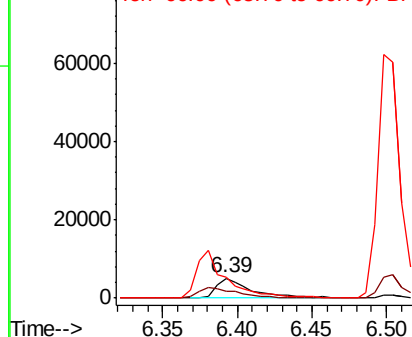
94 100

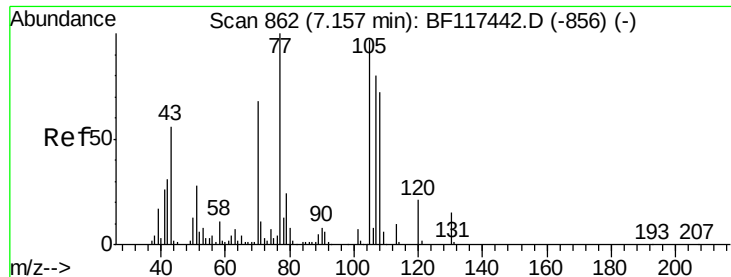
65 36.9 23.4 63.4

66 106.7 54.7 94.7#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 11.951 ng

RT: 7.29 min Scan# 885

Delta R.T. 0.14 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 70 Resp: 24352

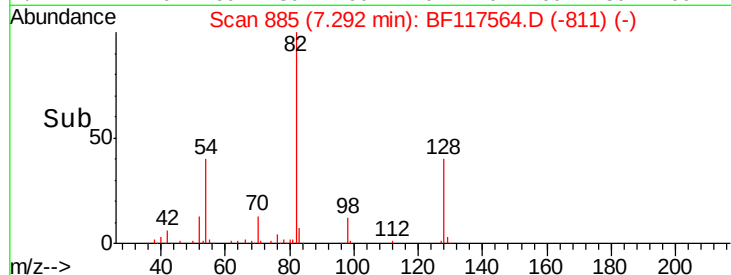
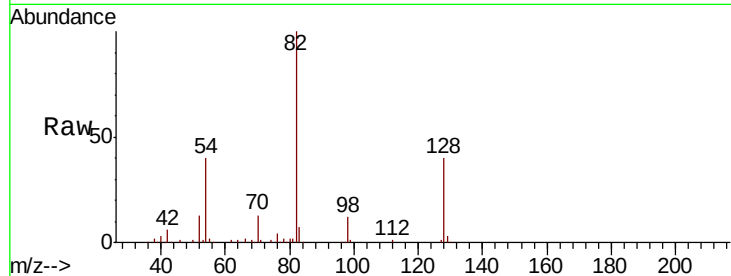
Ion Ratio Lower Upper

70 100

42 42.7 36.7 55.1

101 0.0 8.3 12.5#

130 1.8 18.1 27.1#

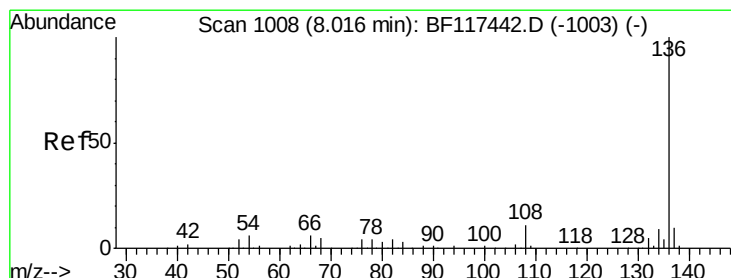
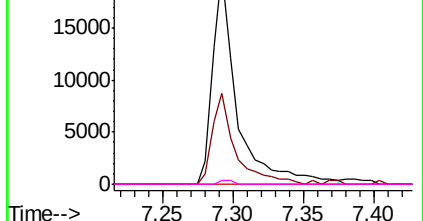


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Tgt Ion:136 Resp: 150891

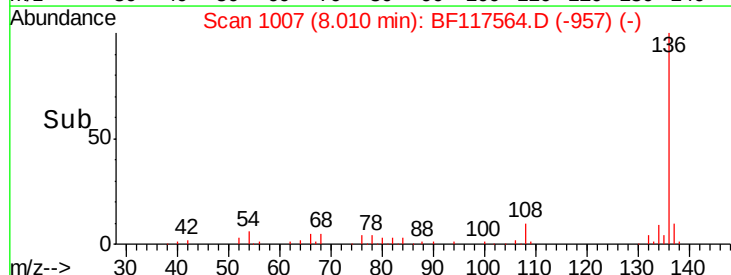
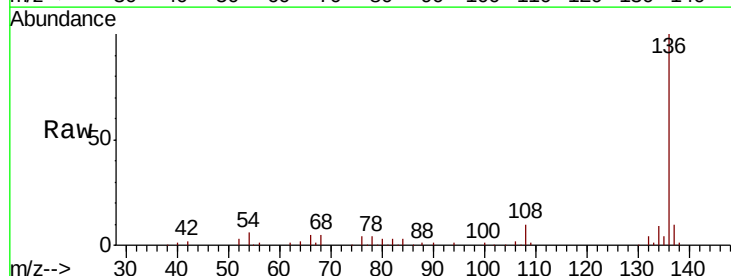
Ion Ratio Lower Upper

136 100

137 9.9 8.2 12.4

54 5.9 4.5 6.7

68 4.7 4.3 6.5

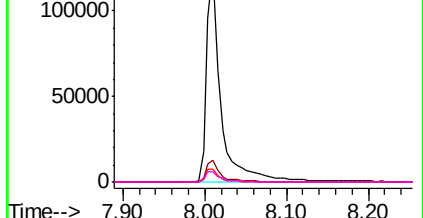


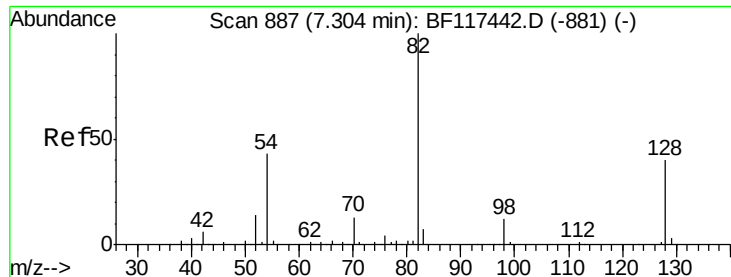
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

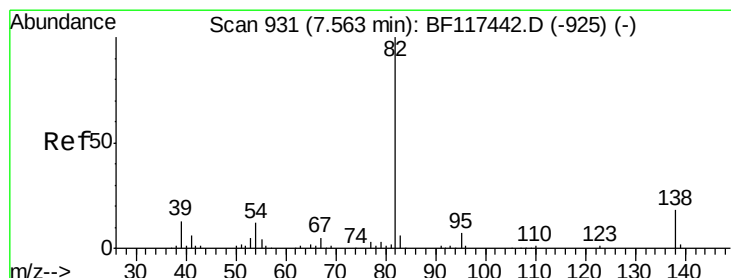
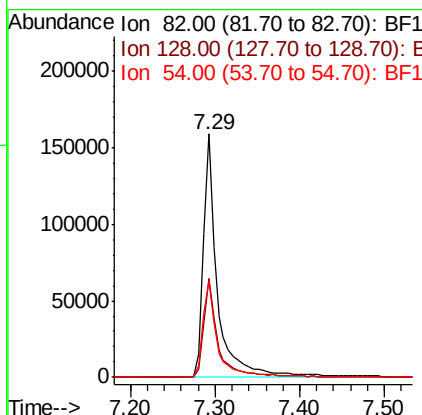
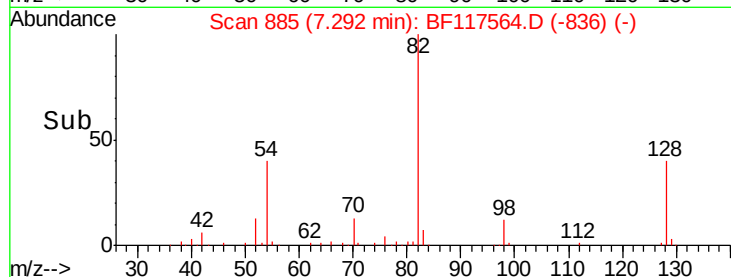
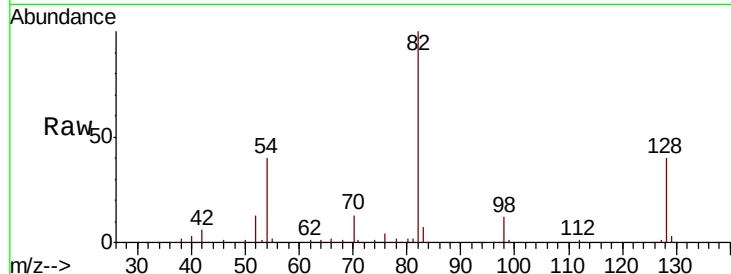




#23
Nitrobenzene-d5
Concen: 60.516 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.01 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

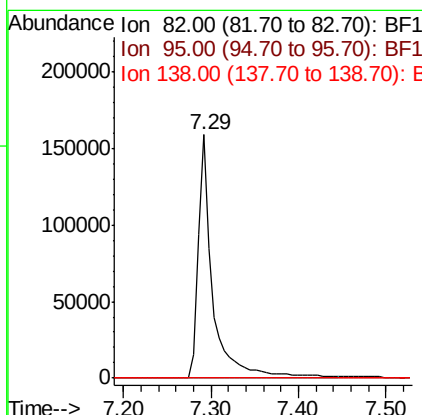
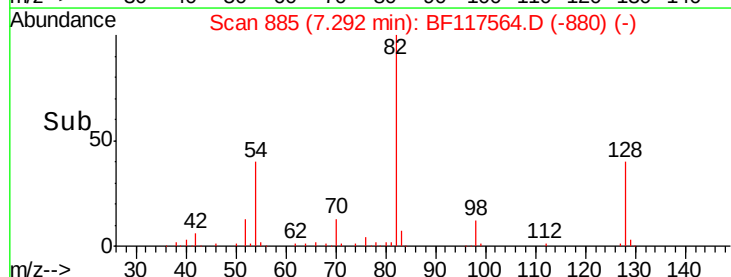
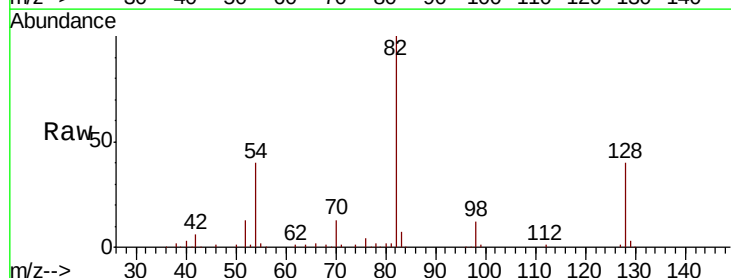
Instrument :
BNA_E
ClientSampleId :

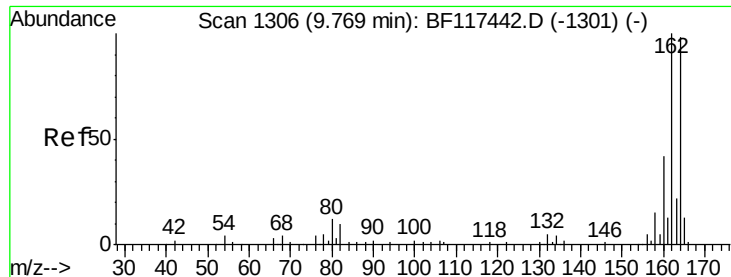
Tot Ion	Ratio	Lower	Upper
82	100		
128	40.4	32.2	48.2
54	39.9	34.2	51.2



#25
Isophorone
Concen: 34.982 ng
RT: 7.29 min Scan# 885
Delta R.T. -0.27 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.4	8.0#
138	0.0	14.2	21.2#

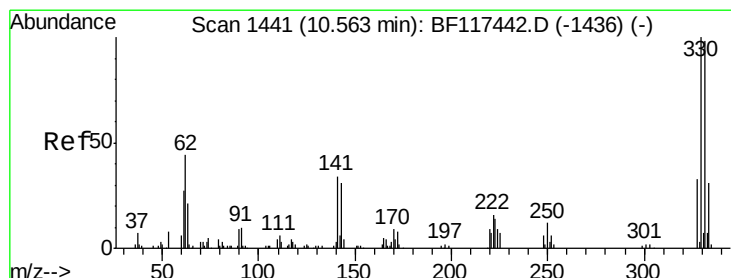
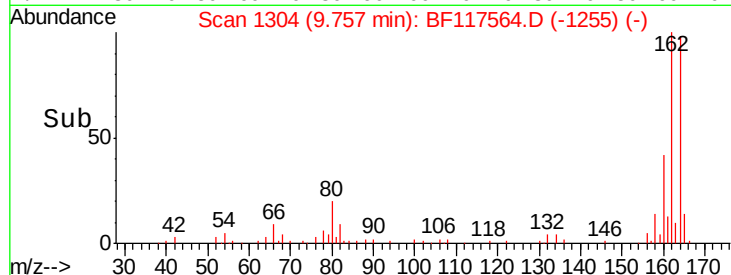
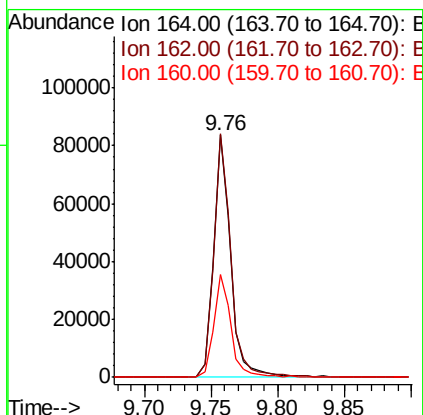
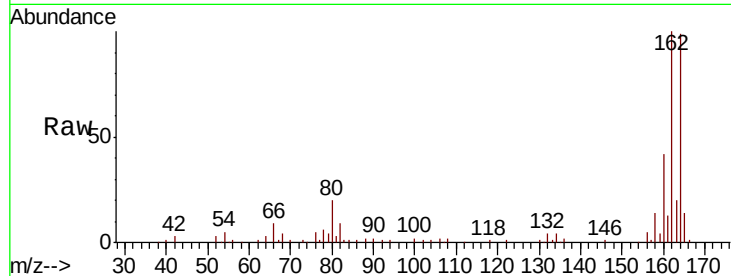




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.76 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF117564.D
 Acq: 28 Oct 2019 16:31

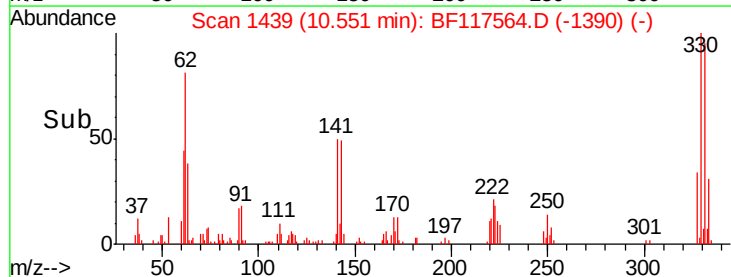
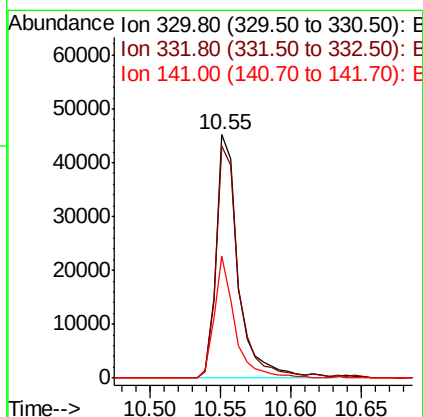
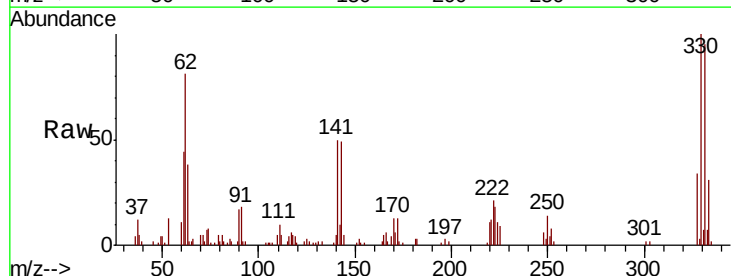
Instrument :
 BNA_E
 ClientSampled :

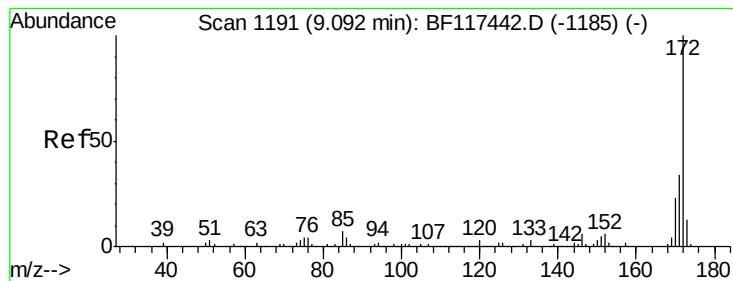
Tot Ion:164 Resp: 75308
 Ion Ratio Lower Upper
 164 100
 162 100.7 81.8 122.6
 160 42.3 34.4 51.6



#42
 2,4,6-Tribromophenol
 Concen: 76.649 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.01 min
 Lab File: BF117564.D
 Acq: 28 Oct 2019 16:31

Tgt Ion:330 Resp: 49945
 Ion Ratio Lower Upper
 330 100
 332 96.4 78.5 117.7
 141 45.8 37.0 55.6





#45

2-Fluorobiphenyl

Concen: 56.886 ng

RT: 9.08 min Scan# 1189

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

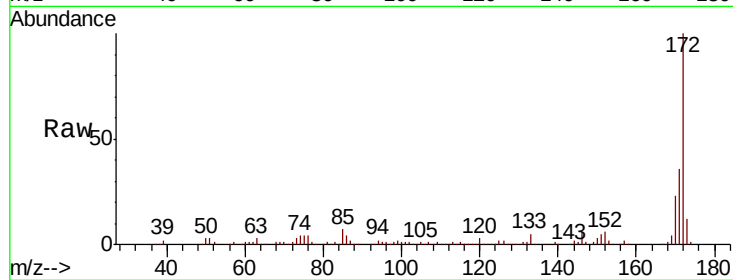
Tot Ion:172 Resp: 304048

Ion Ratio Lower Upper

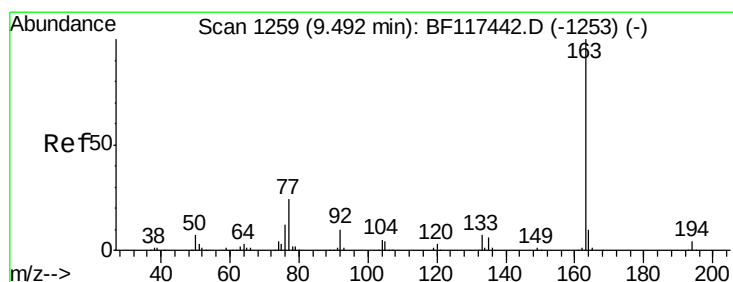
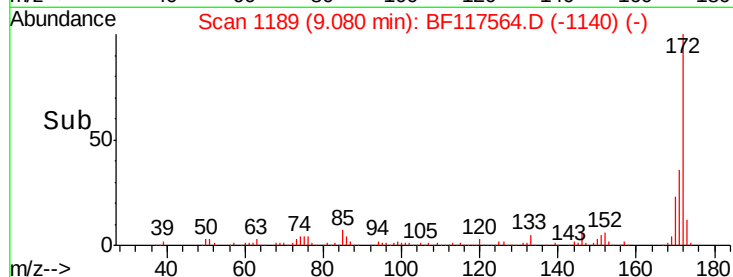
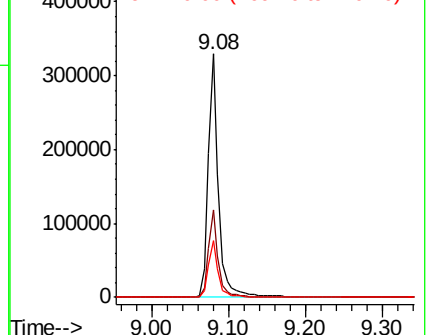
172 100

171 36.1 27.5 41.3

170 23.3 18.6 27.8



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



#50

Dimethylphthalate

Concen: 8.800 ng

RT: 9.48 min Scan# 1257

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

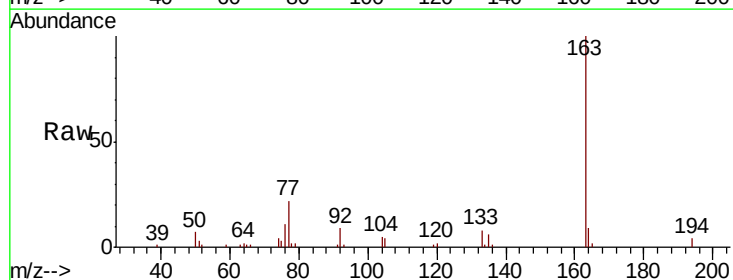
Tgt Ion:163 Resp: 47244

Ion Ratio Lower Upper

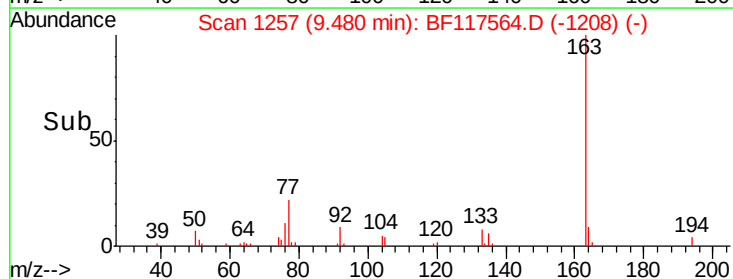
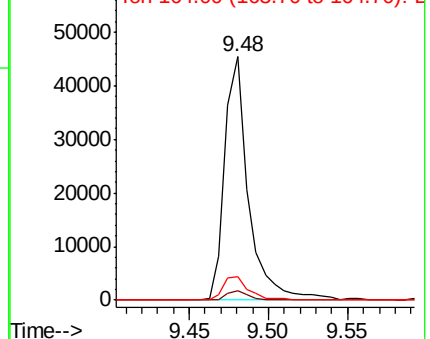
163 100

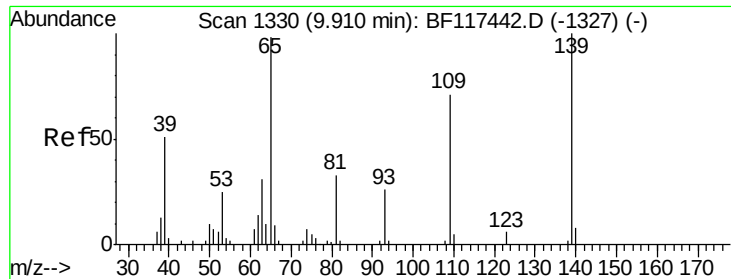
194 4.0 2.9 4.3

164 9.5 8.2 12.2



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

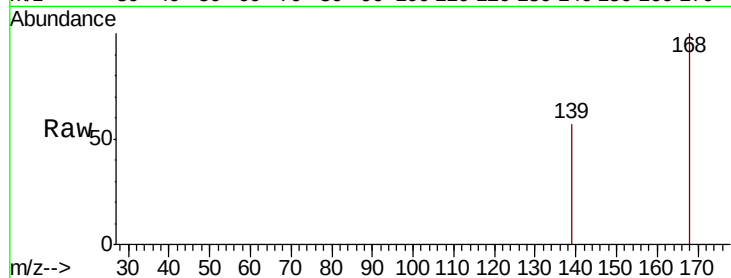




#56
4-Nitrophenol
Concen: 5.613 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.07 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	0.0	51.4	91.4#
65	0.0	79.4	119.4#

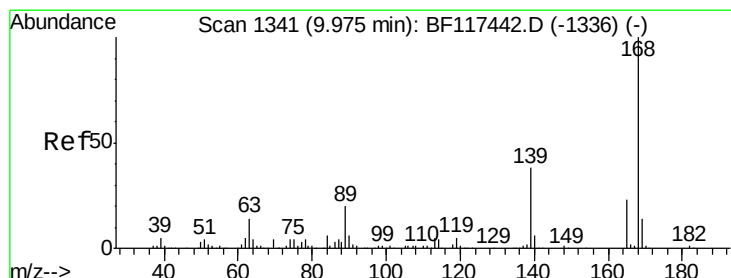
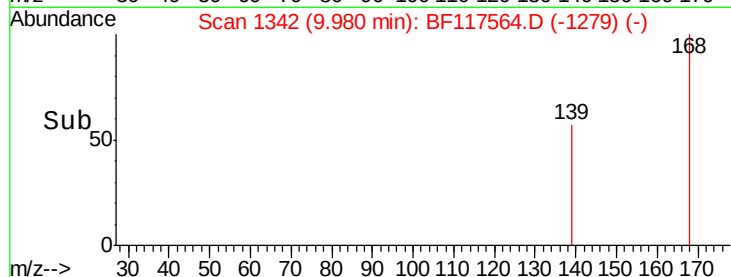
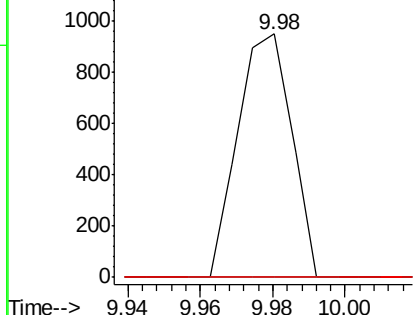


Abundance

Ion 139.00 (138.70 to 139.70): E

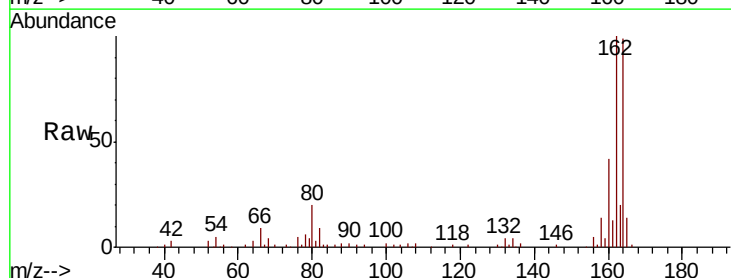
Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#57
2,4-Dinitrotoluene
Concen: 6.711 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.22 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	51.4	77.0#
89	0.0	69.9	104.9#
182	0.0	1.9	2.9#



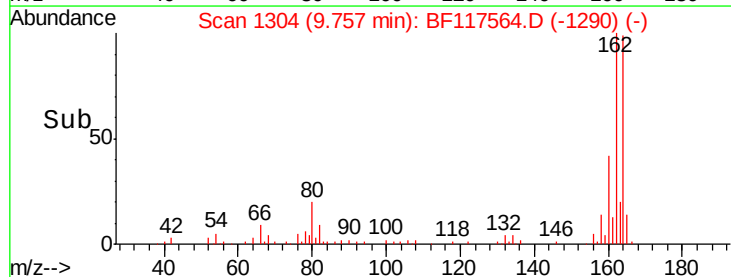
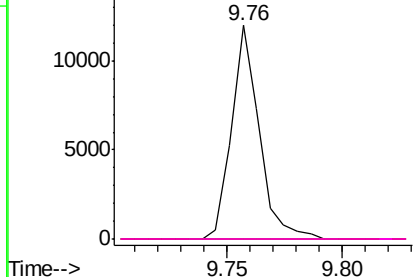
Abundance

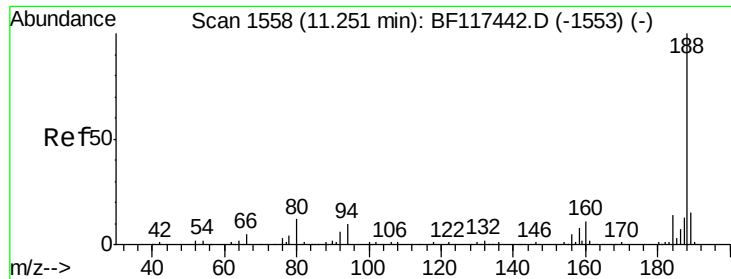
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

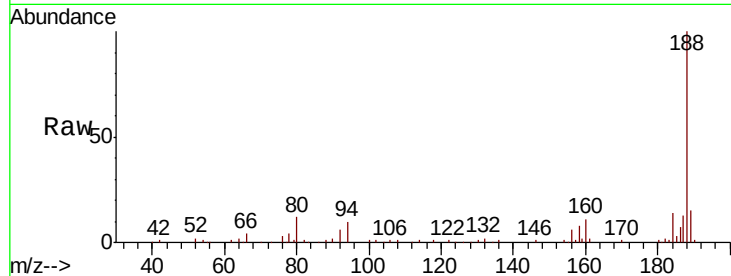




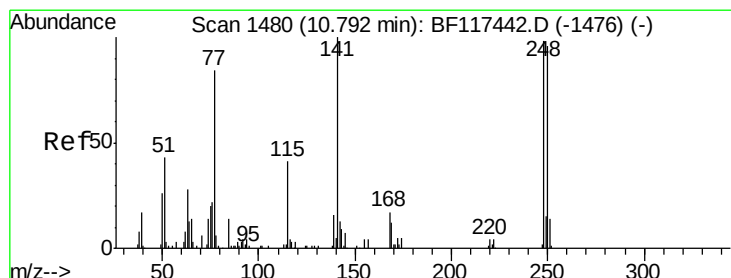
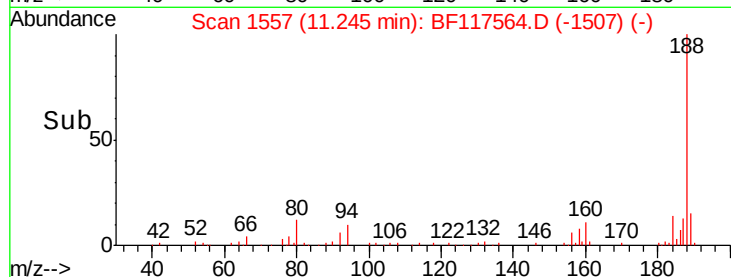
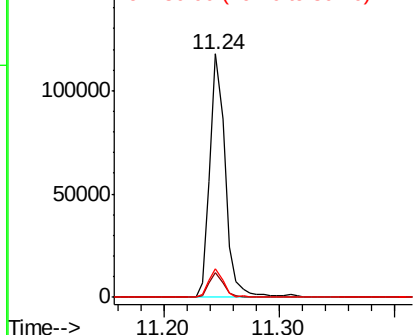
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.24 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion:188 Resp: 110825
Ion Ratio Lower Upper
188 100
94 10.2 8.0 12.0
80 11.9 9.5 14.3

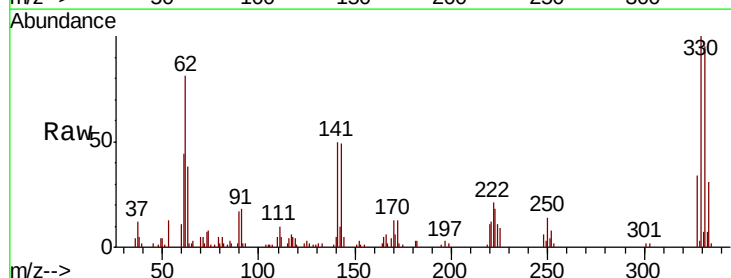


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF1
Ion 80.00 (79.70 to 80.70): BF1

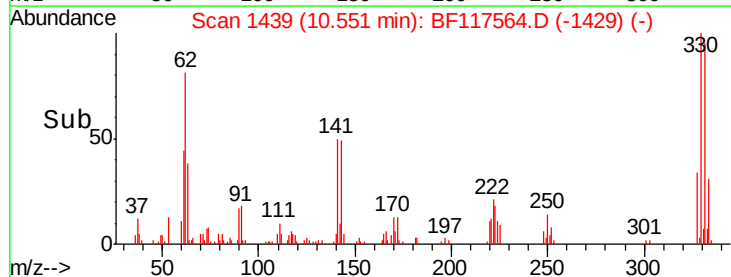
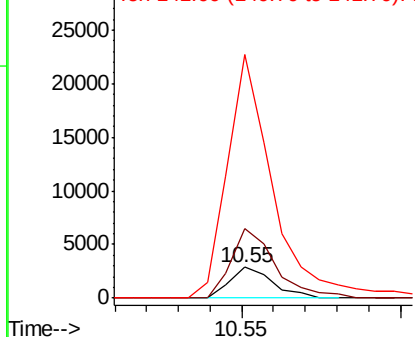


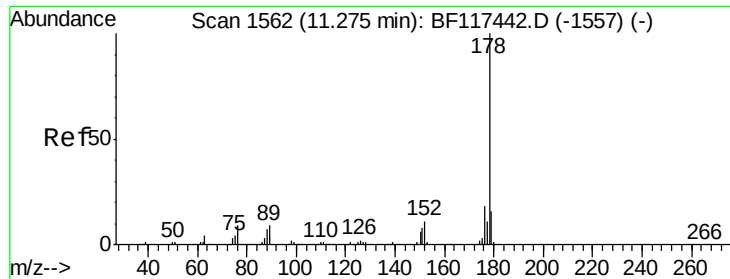
#67
4-Bromophenyl-phenylether
Concen: 2.233 ng
RT: 10.55 min Scan# 1439
Delta R.T. -0.24 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion:248 Resp: 2665
Ion Ratio Lower Upper
248 100
250 227.4 78.0 117.0#
141 798.3 81.7 122.5#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 12.771 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

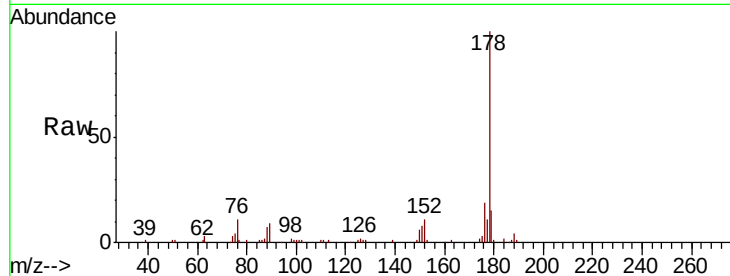
Tot Ion:178 Resp: 82183

Ion Ratio Lower Upper

178 100

176 18.8 14.6 22.0

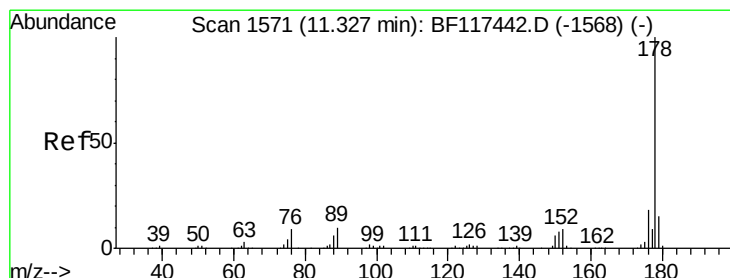
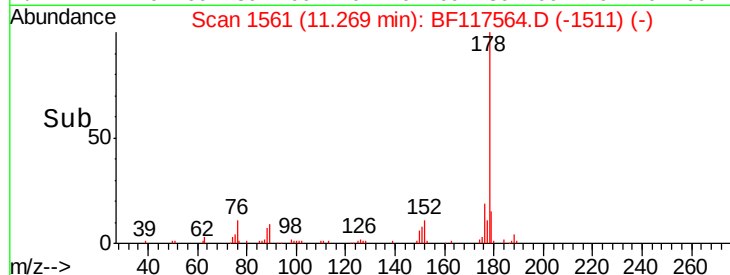
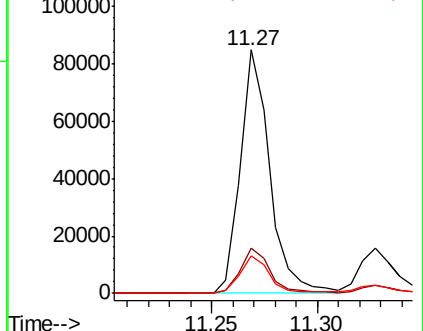
179 15.3 12.6 19.0



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: 12.447 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.06 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

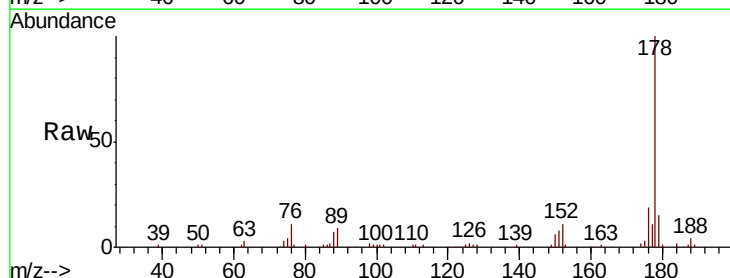
Tgt Ion:178 Resp: 82183

Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

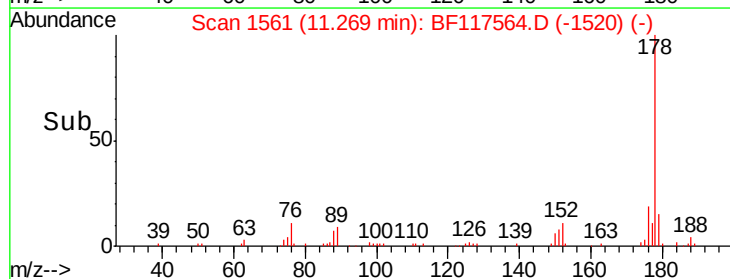
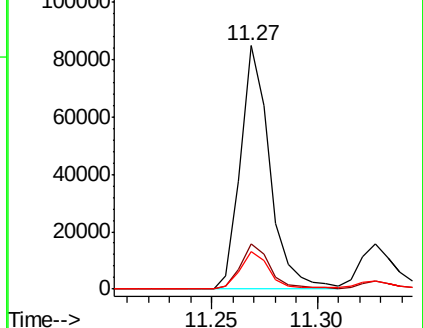
179 15.3 12.2 18.2

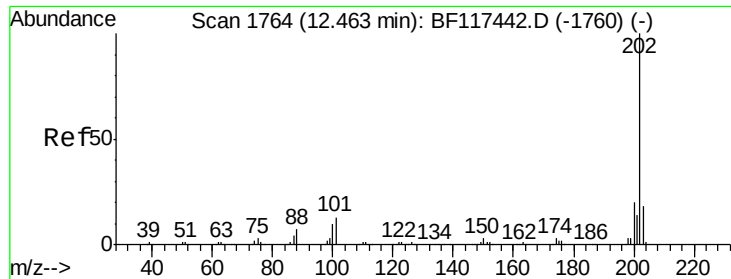


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 21.467 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.00 min

Lab File: BF117564.D

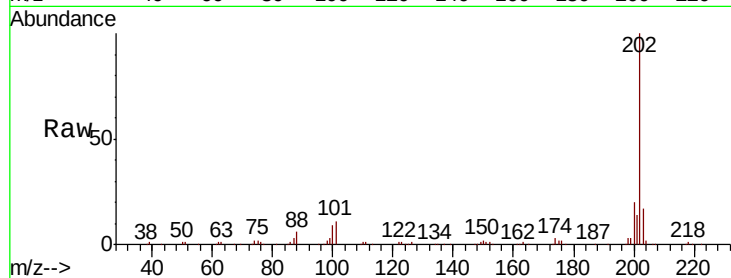
Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampled :

Tot Ion:	202	Resp:	138296
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	32.7
203	16.8	0.0	37.6

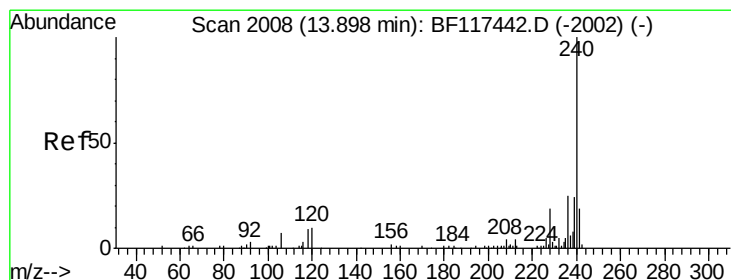
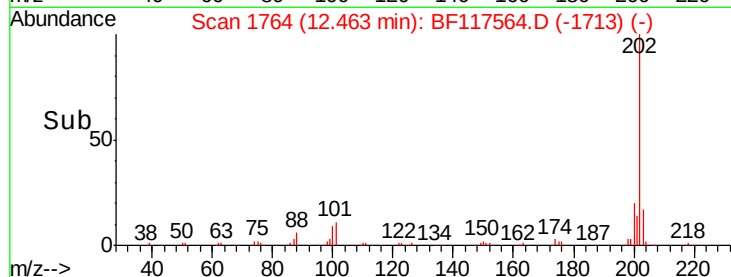
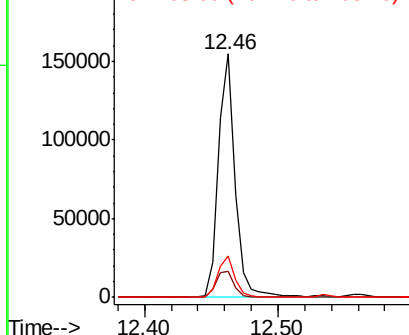


Abundance

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

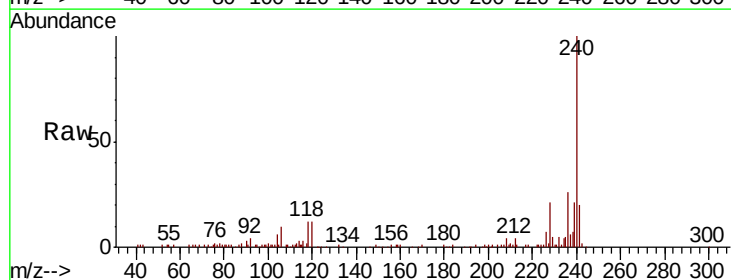
RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Tgt Ion:	240	Resp:	66155
Ion	Ratio	Lower	Upper
240	100		
120	12.4	8.4	12.6
236	25.7	20.0	30.0

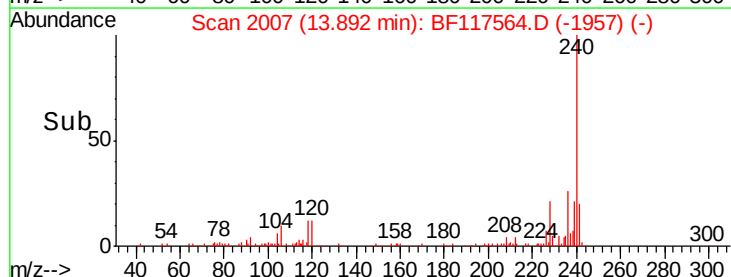
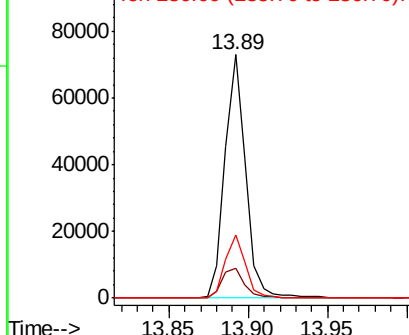


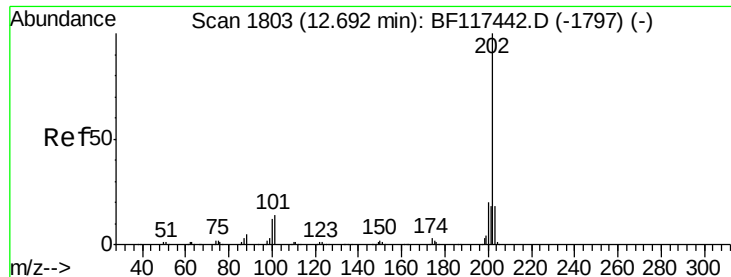
Abundance

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

Pvrene

Concen: 20.560 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.00 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

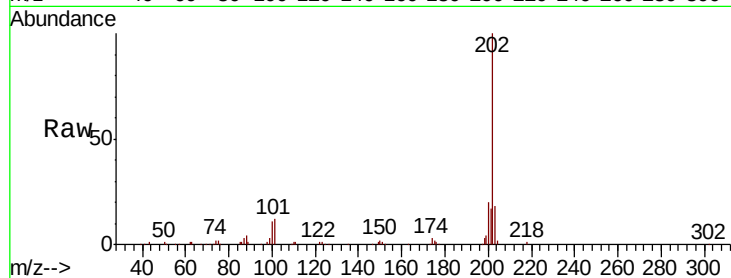
Tot Ion:202 Resp: 116828

Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

203 18.1 14.0 21.0

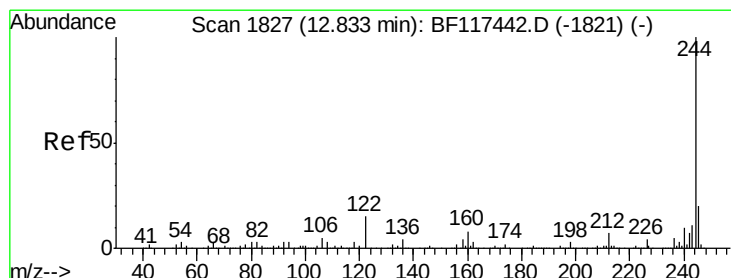
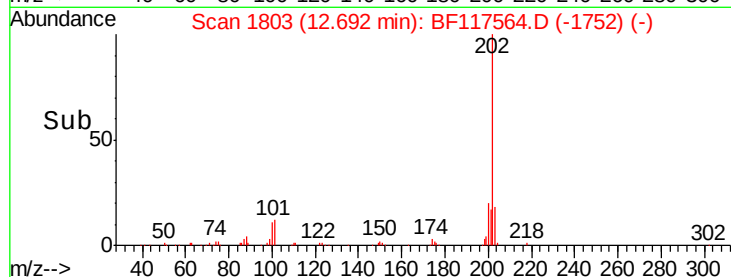
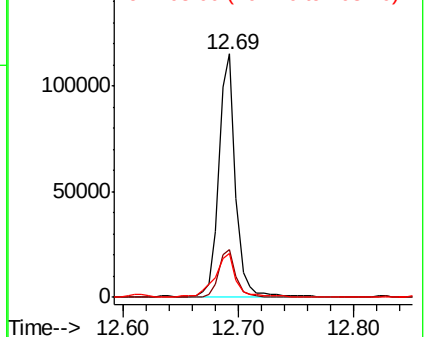


Abundance

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: 48.338 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

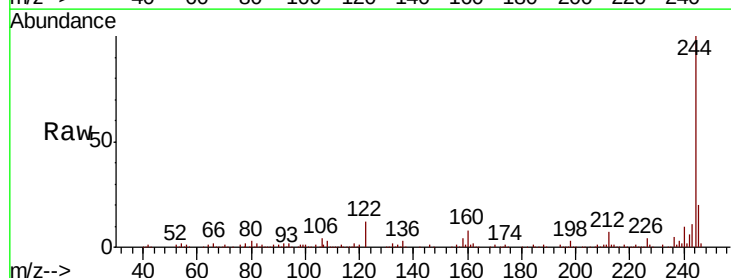
Tgt Ion:244 Resp: 196049

Ion Ratio Lower Upper

244 100

212 6.6 5.8 8.6

122 12.3 11.8 17.8

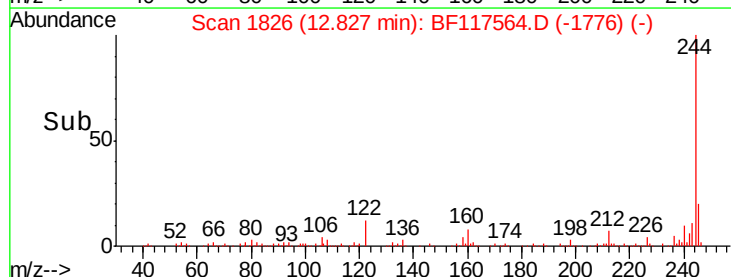
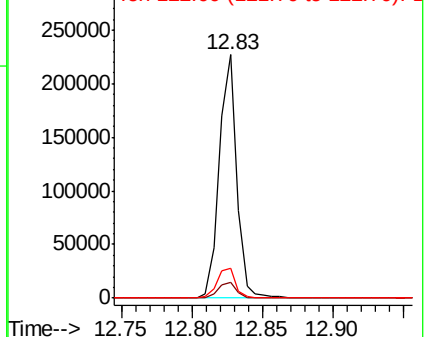


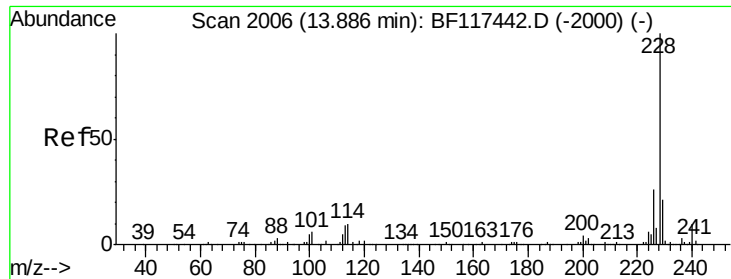
Abundance

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

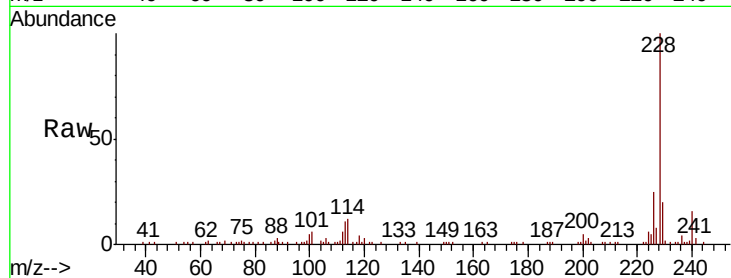




#81
Benzo(a)anthracene
Concen: 13.043 ng
RT: 13.88 min Scan# 2005
Delta R.T. -0.01 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Instrument :
BNA_E
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
228	100		
226	25.0	21.0	31.4
229	20.4	16.4	24.6

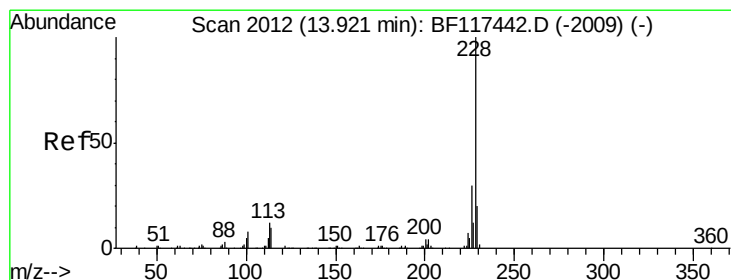
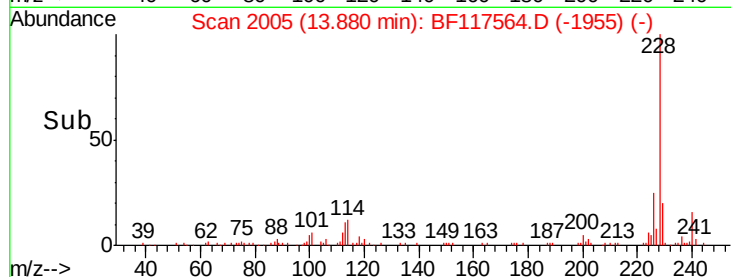
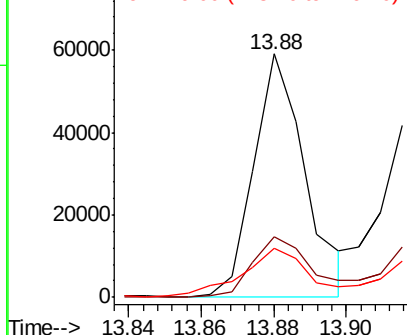


Abundance

Ion 228.00 (227.70 to 228.70): E

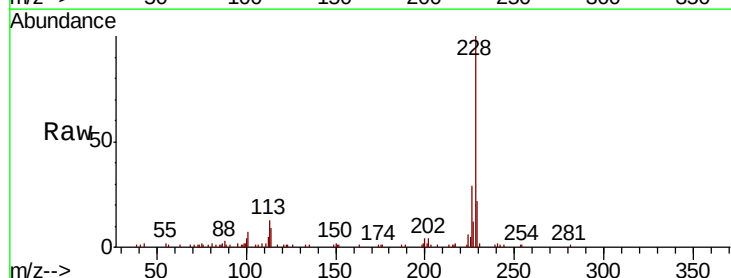
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83
Chrysene
Concen: 11.772 ng
RT: 13.92 min Scan# 2012
Delta R.T. -0.00 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.6	23.9	35.9
229	22.1	15.8	23.6

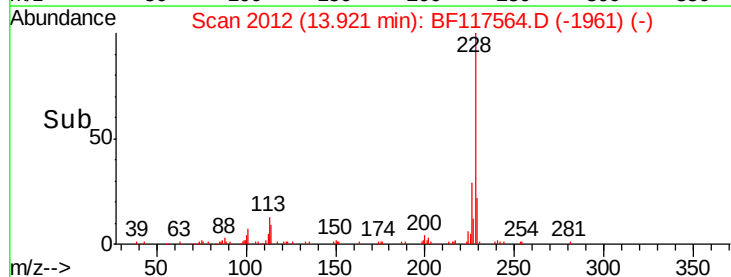
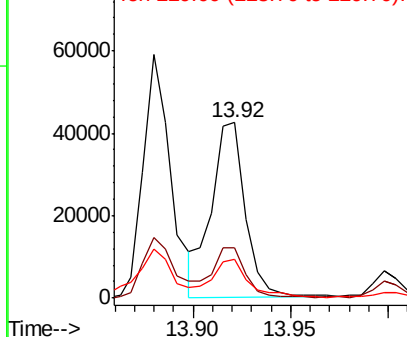


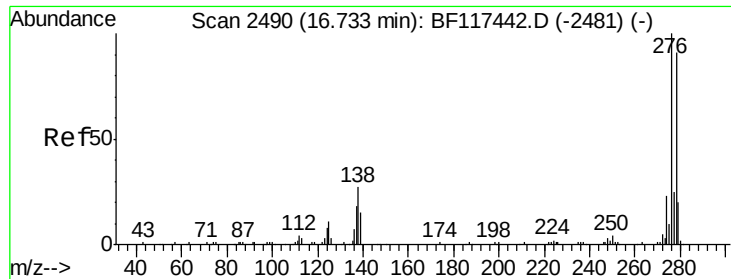
Abundance

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

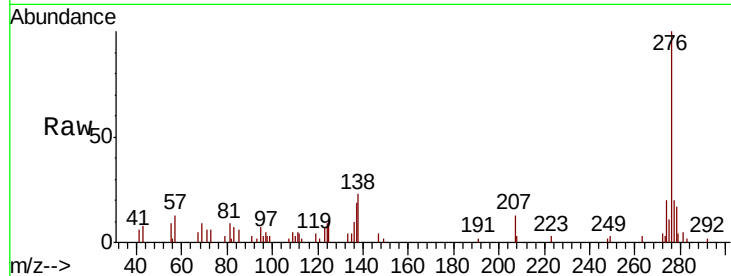




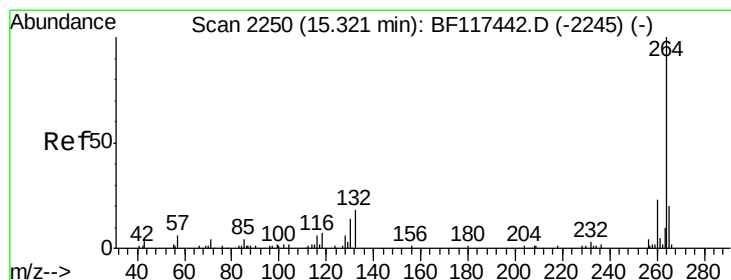
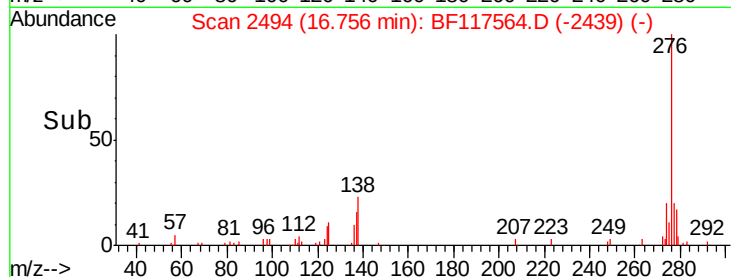
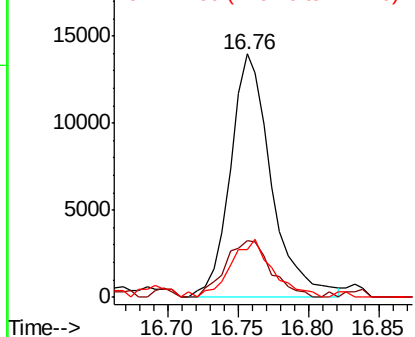
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 8.673 ng
 RT: 16.76 min Scan# 2494
 Delta R.T. 0.02 min
 Lab File: BF117564.D
 Acq: 28 Oct 2019 16:31

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.8	21.8	32.8
277	23.9	20.0	30.0

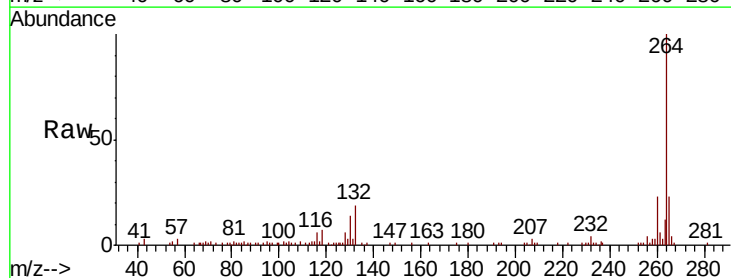


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

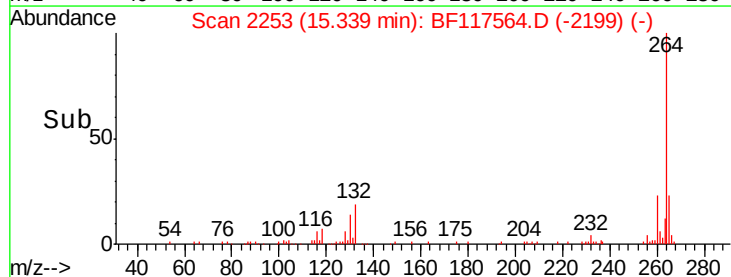
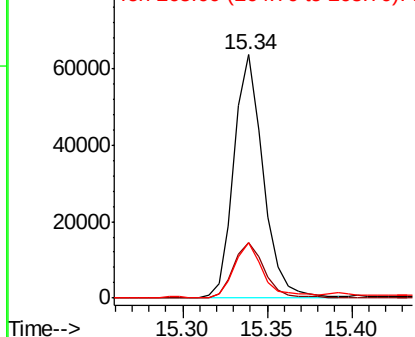


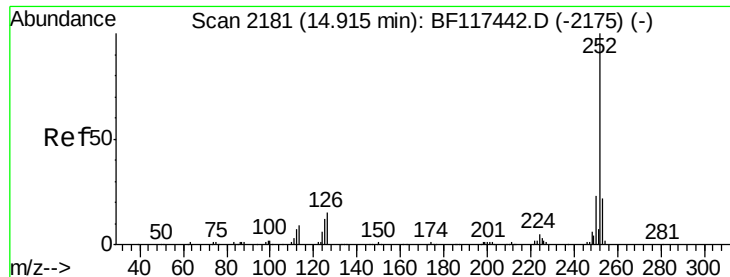
#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.34 min Scan# 2253
 Delta R.T. 0.02 min
 Lab File: BF117564.D
 Acq: 28 Oct 2019 16:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	23.0	16.1	24.1



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: 21.289 ng

RT: 14.93 min Scan# 2184

Delta R.T. 0.02 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

Instrument :

BNA_E

ClientSampleId :

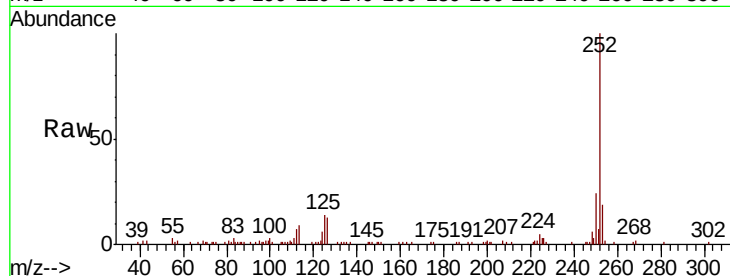
Tot Ion:252 Resp: 96998

Ion Ratio Lower Upper

252 100

253 19.2 17.8 26.6

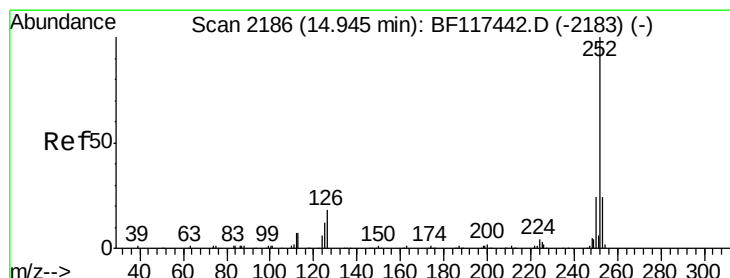
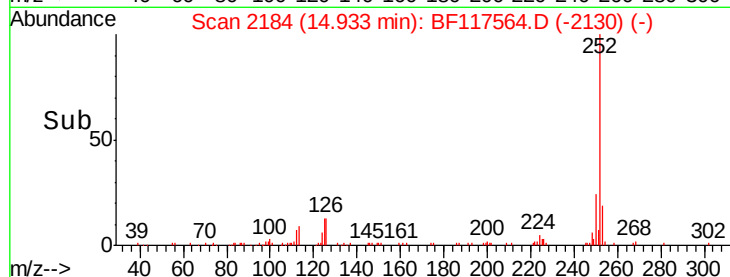
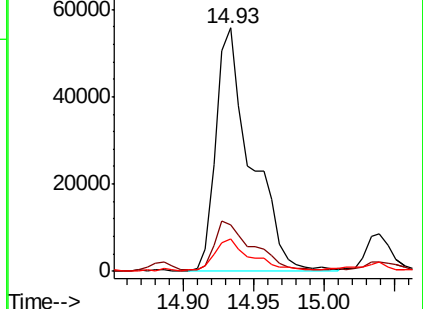
125 13.6 9.9 14.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 20.771 ng

RT: 14.93 min Scan# 2184

Delta R.T. -0.01 min

Lab File: BF117564.D

Acq: 28 Oct 2019 16:31

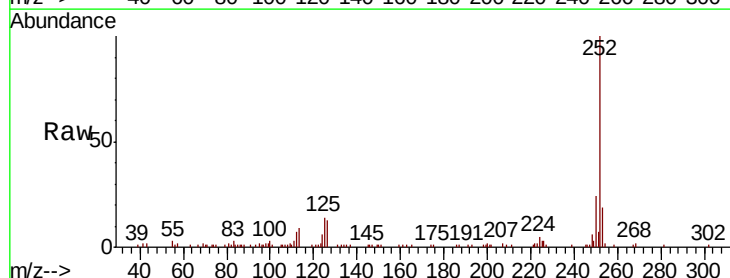
Tgt Ion:252 Resp: 96998

Ion Ratio Lower Upper

252 100

253 19.2 18.0 27.0

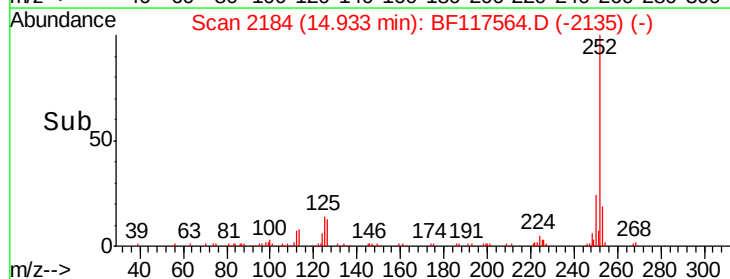
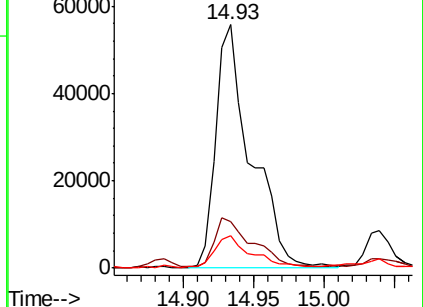
125 13.6 8.9 13.3#

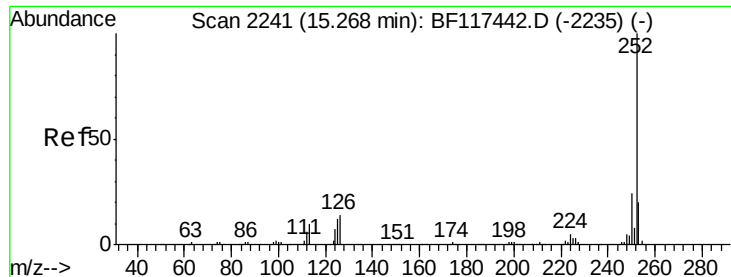


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

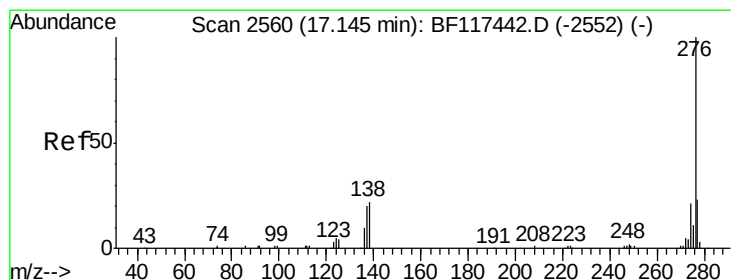
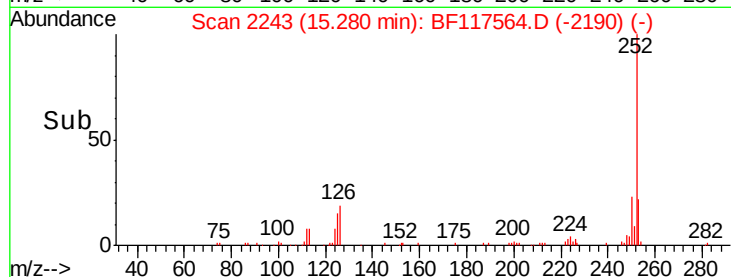
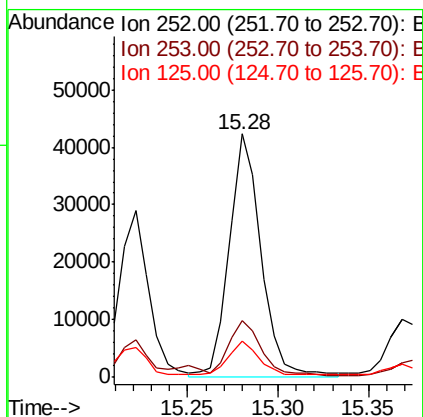
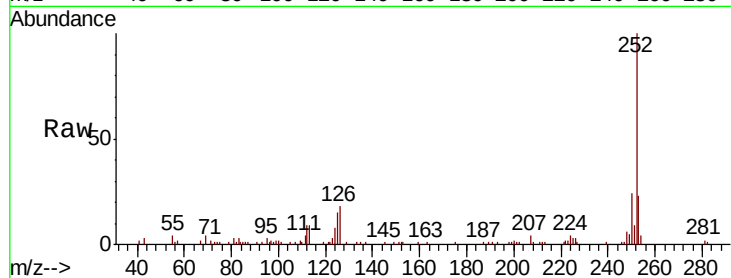




#90
Benzo(a)pyrene
Concen: 12.608 ng
RT: 15.28 min Scan# 2243
Delta R.T. 0.01 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Instrument :
BNA_E
ClientSampled :

Tot Ion:252 Resp: 52230
Ion Ratio Lower Upper
252 100
253 23.4 16.3 24.5
125 15.1 9.2 13.8#



#92
Benzo(g,h,i)perylene
Concen: 7.516 ng
RT: 17.19 min Scan# 2567
Delta R.T. 0.04 min
Lab File: BF117564.D
Acq: 28 Oct 2019 16:31

Tgt Ion:276 Resp: 25472
Ion Ratio Lower Upper
276 100
277 24.8 18.4 27.6
138 21.3 17.8 26.6

