

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
 Data File : BF115924.D
 Acq On : 1 Aug 2019 23:15
 Operator : HP/JU
 Sample : K4049-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Manual Integrations
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 8/5/2019 1:48:14 PM

Quant Time: Aug 02 07:17:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 31 15:31:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	150813	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	575354	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	282725	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	410194	20.00	ng	0.00
76) Chrysene-d12	14.03	240	281171	20.00	ng	0.00
87) Perylene-d12	15.50	264	322610	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	880121	97.70	ng	0.00
7) Phenol-d6	6.49	99	1160430	102.09	ng	0.00
23) Nitrobenzene-d5	7.41	82	735870	73.83	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	238189	86.90	ng	0.00
45) 2-Fluorobiphenyl	9.21	172	1102812	73.06	ng	0.00
79) Terphenyl-d14	12.96	244	822788	61.66	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	8.15	128	66975	2.474	ng	99
49) Acenaphthylene	9.75	152	197587	8.152	ng	98
50) Dimethylphthalate	9.60	163	178469	9.271	ng	99
52) Acenaphthene	9.92	154	47736	3.210	ng	100
55) Dibenzofuran	10.10	168	73050	3.378	ng	99
58) Fluorene	10.44	166	68619	4.125	ng	# 98
71) Phenanthrene	11.41	178	1542849	73.574	ng	99
72) Anthracene	11.46	178	368702	17.373	ng	100
73) Carbazole	11.61	167	176336	9.158	ng	98
75) Fluoranthene	12.60	202	2332109	106.229	ng	97
78) Pyrene	12.83	202	2209222	104.233	ng	99
81) Benzo(a)anthracene	14.02	228	1286352	71.578	ng	96
83) Chrysene	14.06	228	1162189	66.611	ng	96
86) Indeno(1,2,3-cd)pyrene	16.99	276	559089	38.153	ng	95
88) Benzo(b)fluoranthene	15.08	252	1539559m	82.534	ng	
89) Benzo(k)fluoranthene	15.10	252	466604m	25.681	ng	
90) Benzo(a)pyrene	15.45	252	1049542	62.941	ng	98
91) Dibenzo(a,h)anthracene	16.99	278	145170m	10.058	ng	
92) Benzo(a,h,i)perylene	17.43	276	497806	35.117	ng	99

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

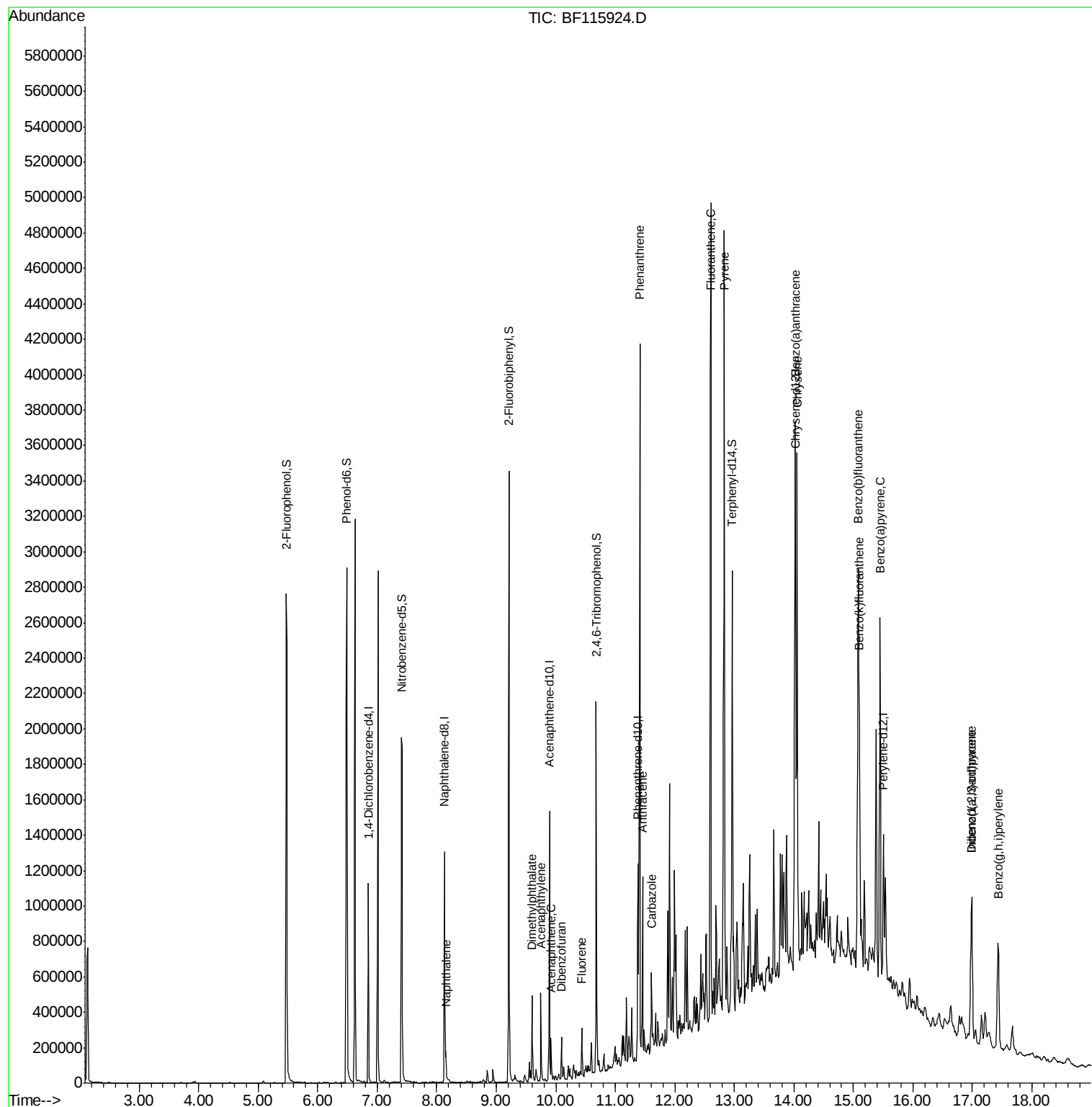
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080119\
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#1

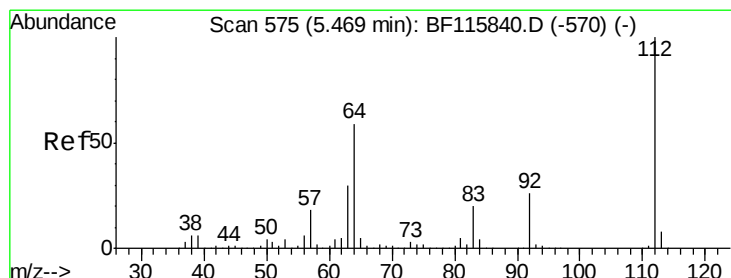
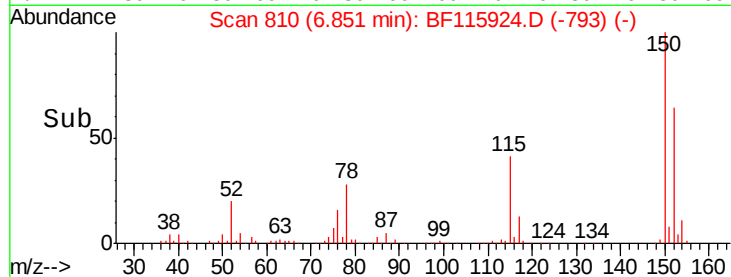
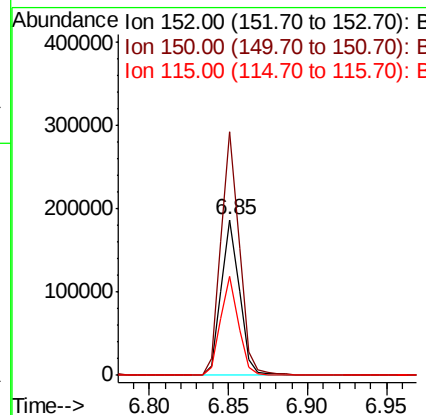
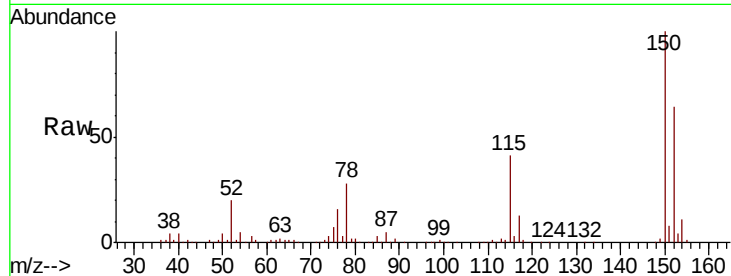
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.4	191.0
115	63.8	51.8	77.8

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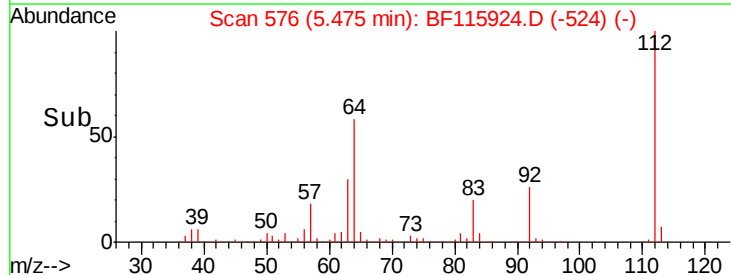
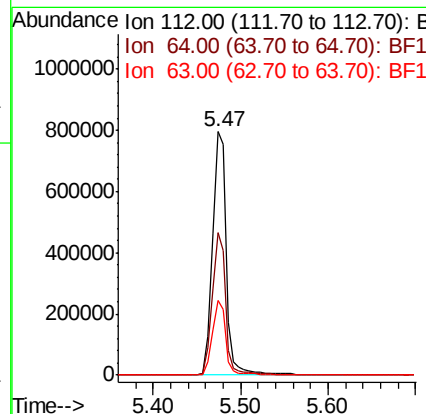
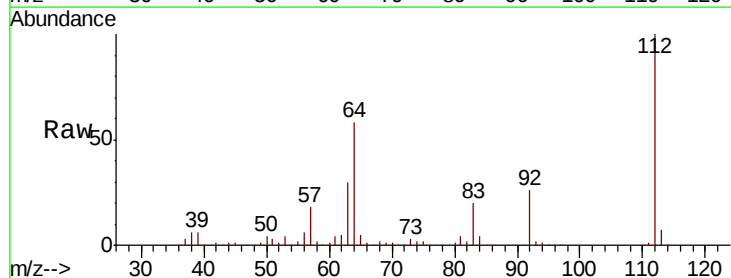
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#5

2-Fluorophenol
Concen: 97.696 ng
RT: 5.47 min Scan# 576
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.4	46.8	70.2
63	30.4	24.2	36.2





#7

Phenol-d6

Concen: 102.095 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Instrument :

BNA_F

ClientSampled :

SP-1

Tot Ion: 99 Resp: 1160430

Ion Ratio Lower Upper

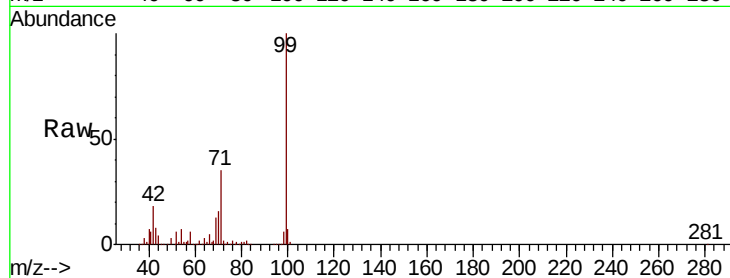
99 100

42 17.5 13.8 20.6

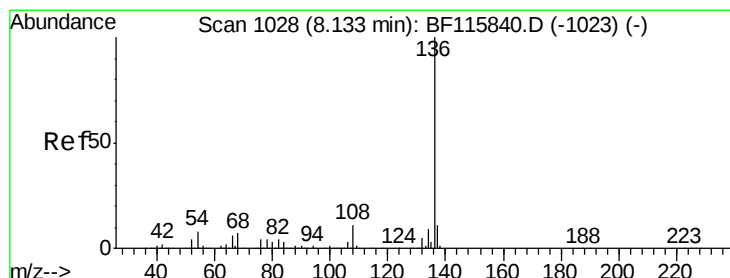
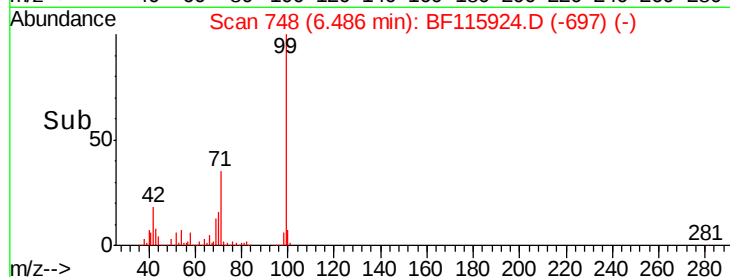
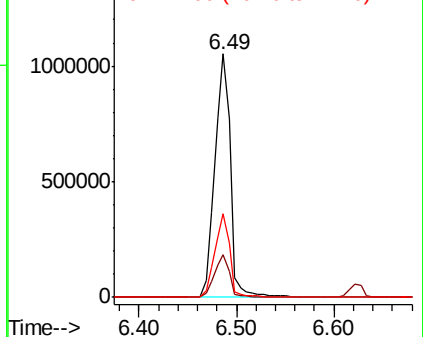
71 34.6 27.1 40.7

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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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Tgt Ion: 136 Resp: 575354

Ion Ratio Lower Upper

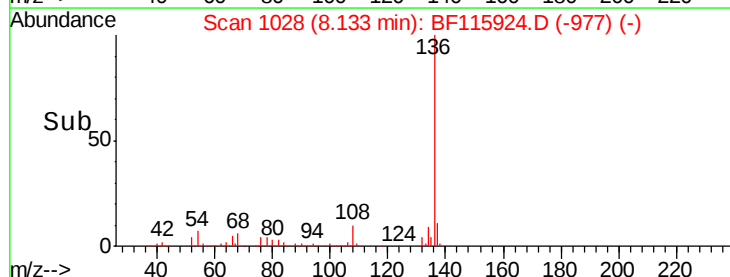
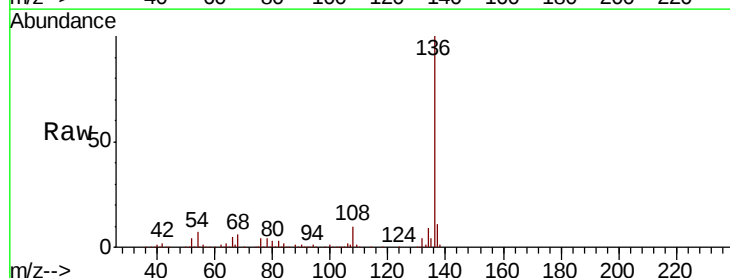
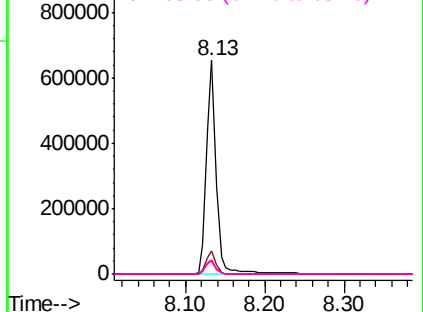
136 100

137 10.9 9.1 13.7

54 6.7 6.1 9.1

68 6.0 5.4 8.2

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





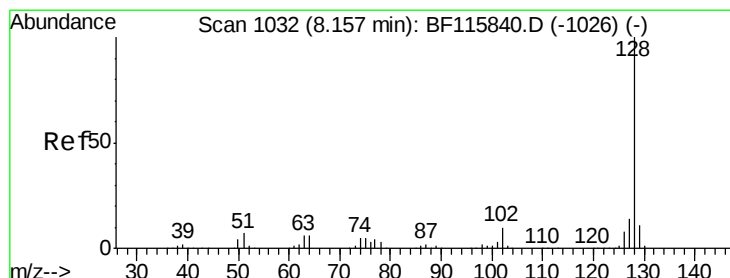
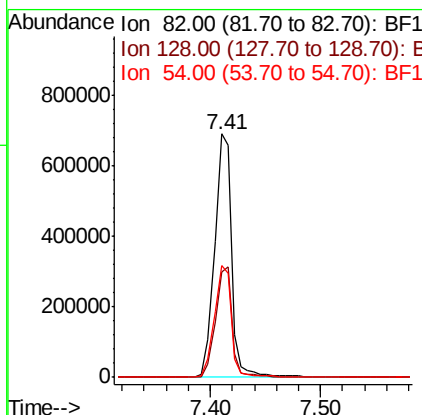
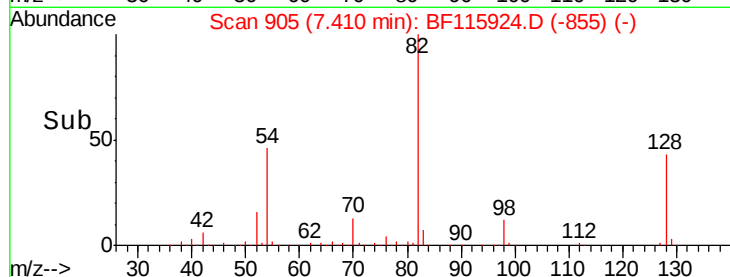
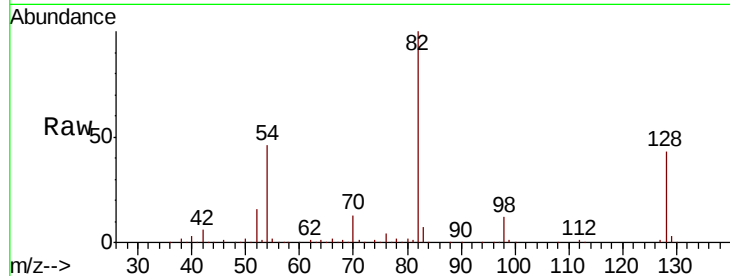
#23
 Nitrobenzene-d5
 Concen: 73.827 ng
 RT: 7.41 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF115924.D
 Acq: 1 Aug 2019 23:15

Instrument :
 BNA_F
 ClientSampled :
 SP-1

Tot Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.6	55.0
54	46.0	36.6	55.0

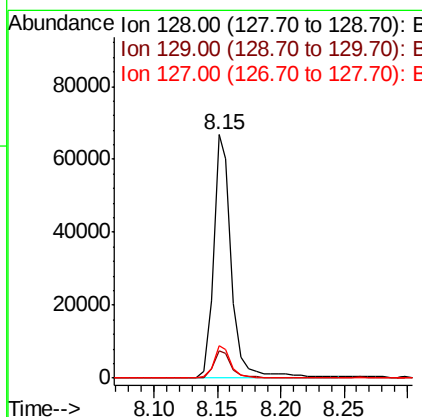
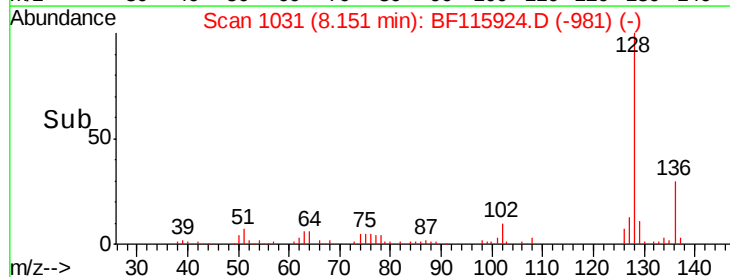
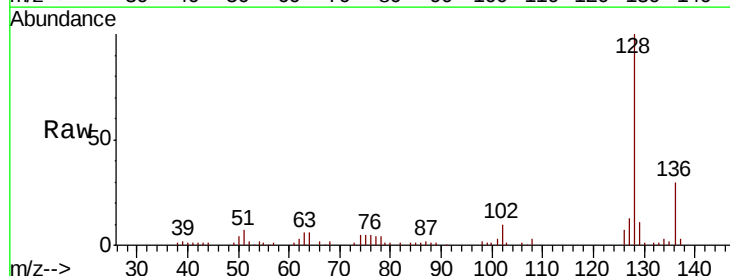
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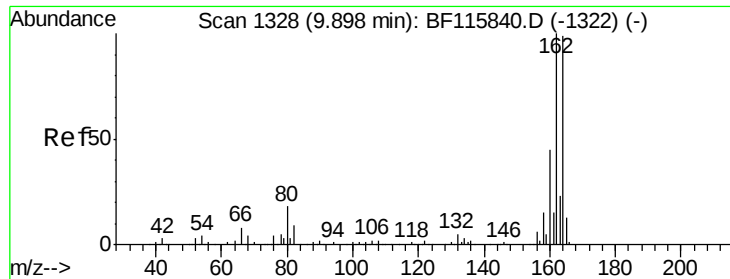
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#31
 Naphthalene
 Concen: 2.474 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF115924.D
 Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.2	13.8
127	13.5	11.0	16.4





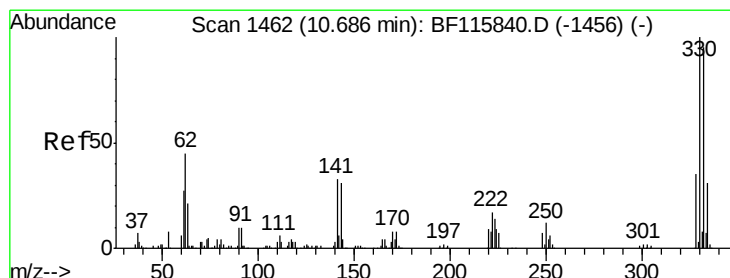
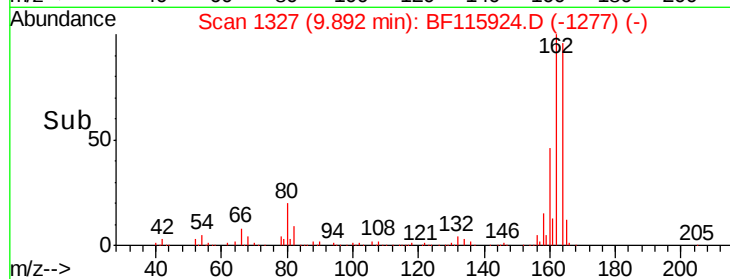
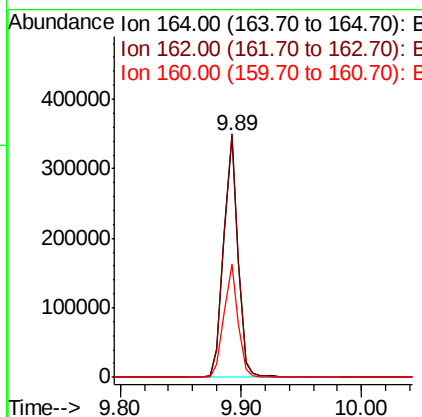
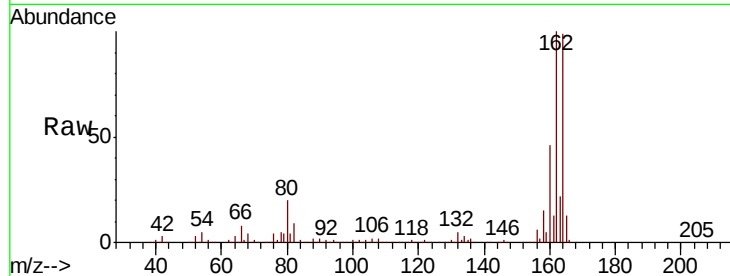
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.89 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: BF115924.D
 Acq: 1 Aug 2019 23:15

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Tot Ion:	164	Resp:	282725
Ion Ratio	Lower	Upper	
164	100		
162	100.8	80.8	121.2
160	46.7	36.2	54.4

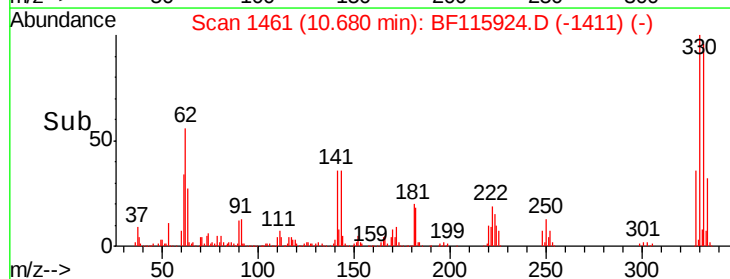
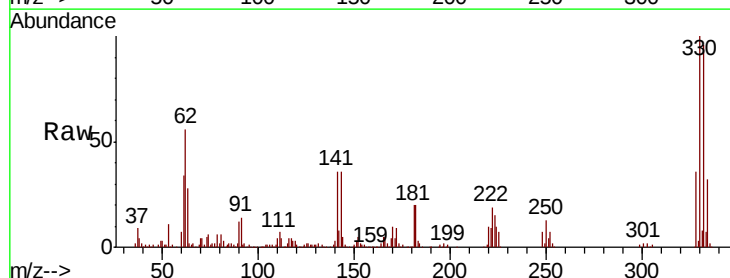
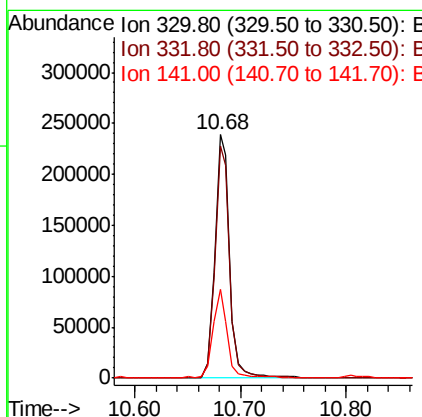
Manual Integrations
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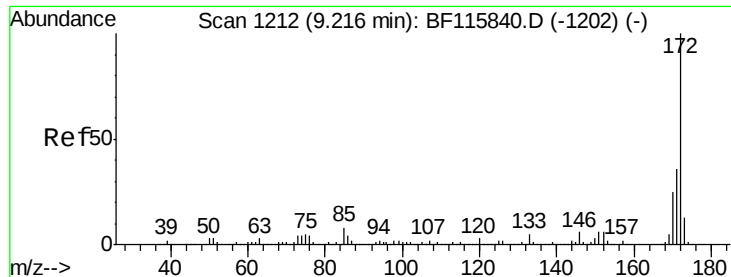
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#42
 2,4,6-Tribromophenol
 Concen: 86.895 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. -0.01 min
 Lab File: BF115924.D
 Acq: 1 Aug 2019 23:15

Tgt Ion:	330	Resp:	238189
Ion Ratio	Lower	Upper	
330	100		
332	95.5	77.7	116.5
141	34.8	28.1	42.1





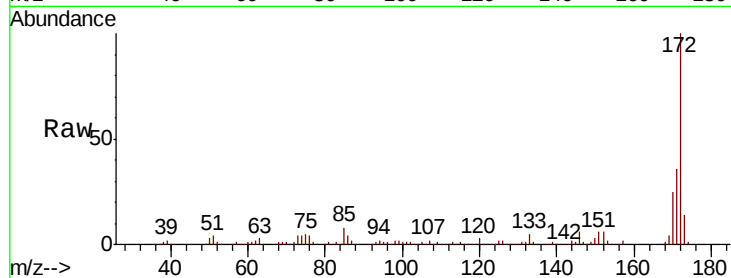
#45
2-Fluorobiphenyl
Concen: 73.062 ng
RT: 9.21 min Scan# 1211
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.1	43.7
170	24.8	20.1	30.1

Manual Integrations
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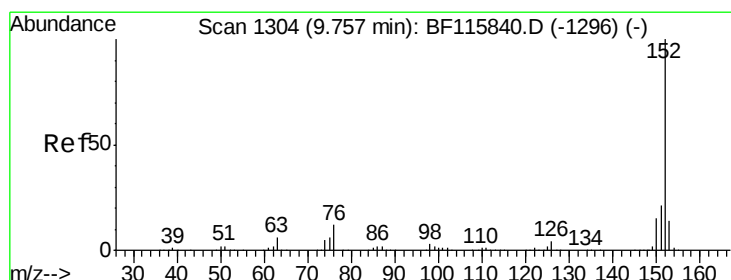
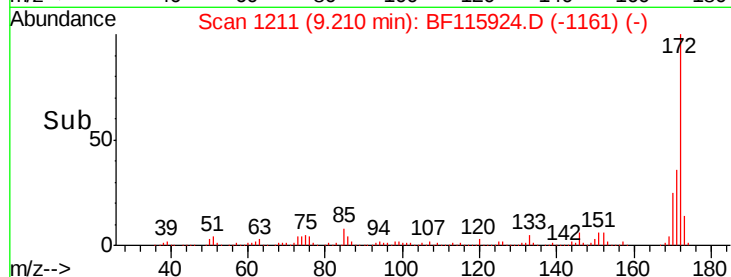
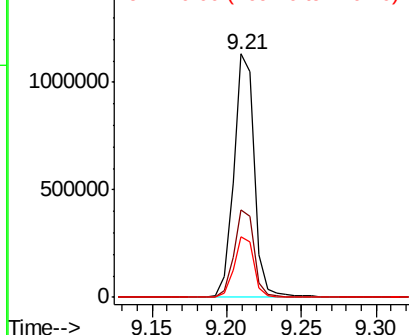


Abundance

Ion 172.00 (171.70 to 172.70): E

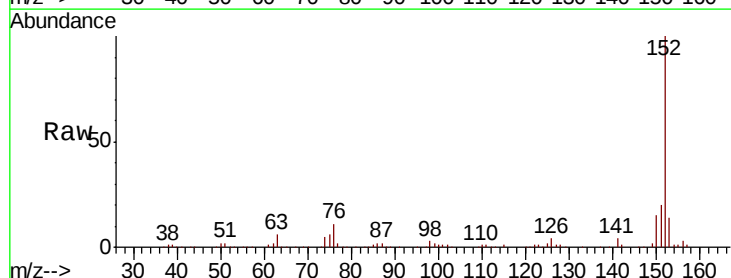
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49
Acenaphthylene
Concen: 8.152 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.8	25.2
153	13.7	11.6	17.4

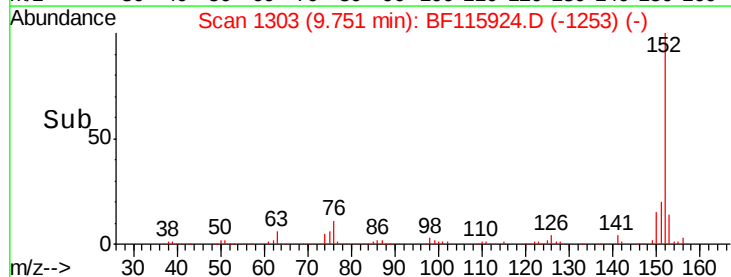
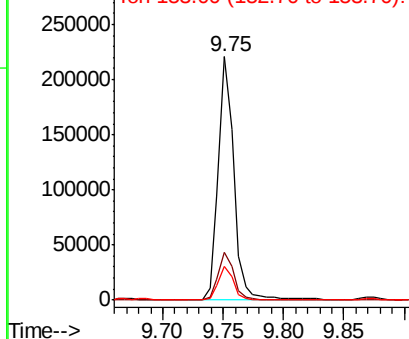


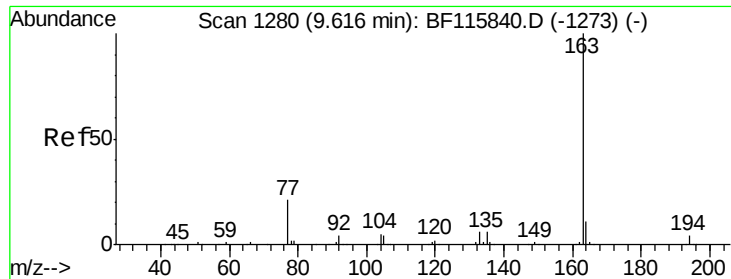
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





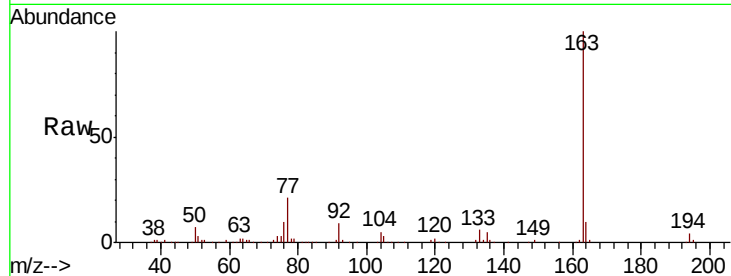
#50
Dimethylphthalate
Concen: 9.271 ng
RT: 9.60 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Resp	Lower	Upper
163	100	178469		
194	3.6		3.0	4.6
164	10.3		8.4	12.6

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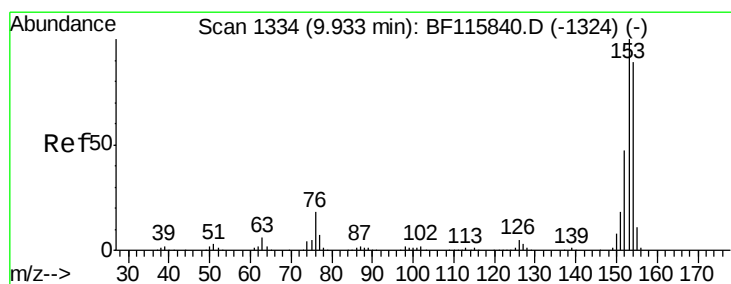
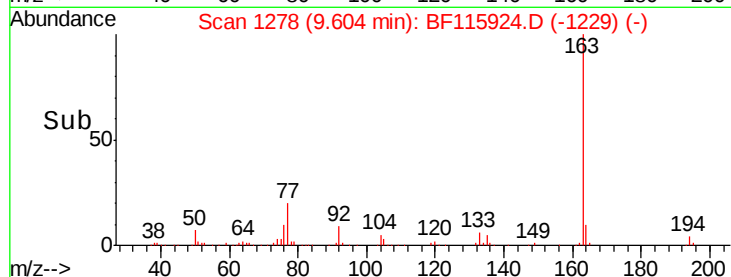
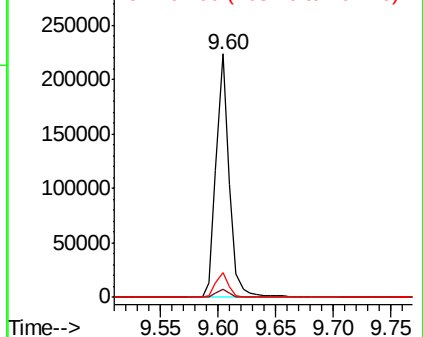


Abundance

Ion 163.00 (162.70 to 163.70): E

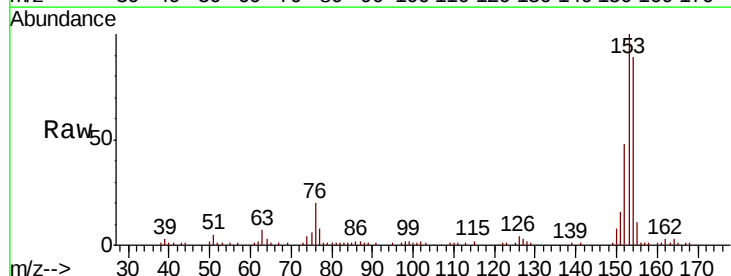
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#52
Acenaphthene
Concen: 3.210 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	47736		
153	112.5		90.1	135.1
152	53.8		42.6	63.8

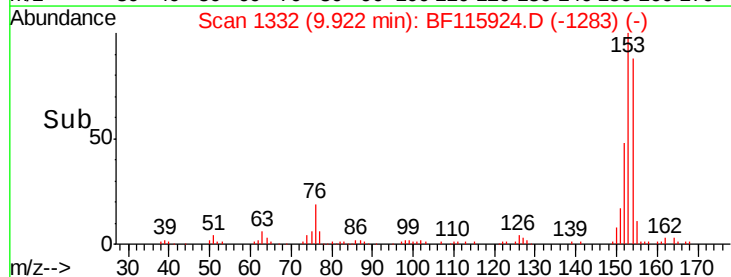
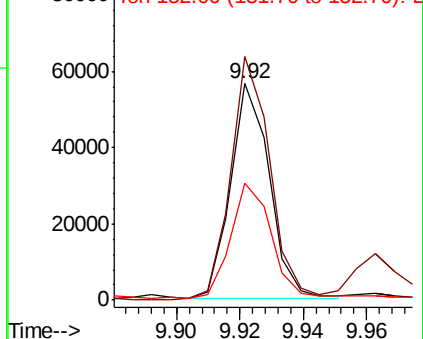


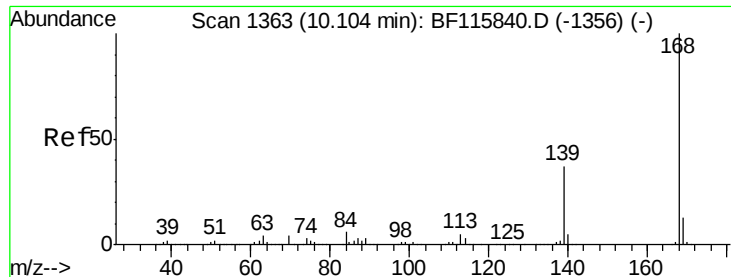
Abundance

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





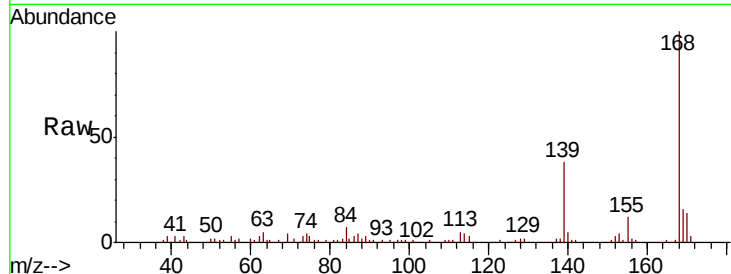
#55
Dibenzenofuran
Concen: 3.378 ng
RT: 10.10 min Scan# 1362
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

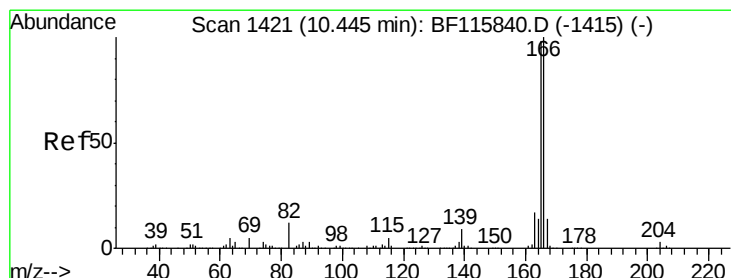
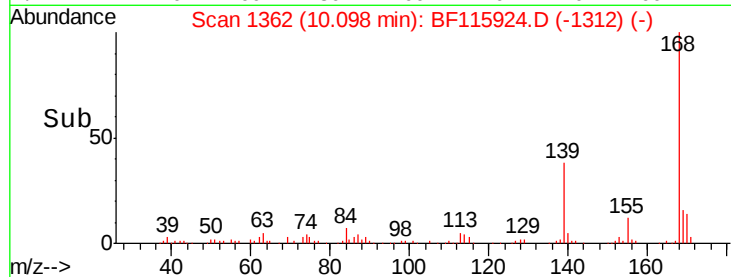
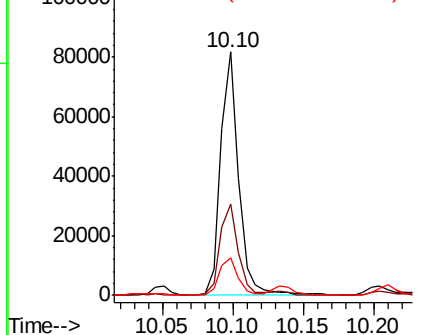
Tot Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.2	45.2
169	15.6	10.8	16.2

Manual Integrations
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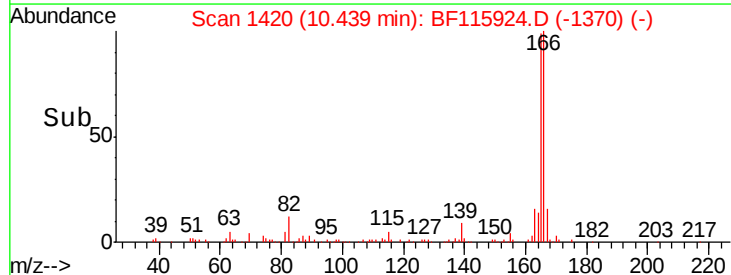
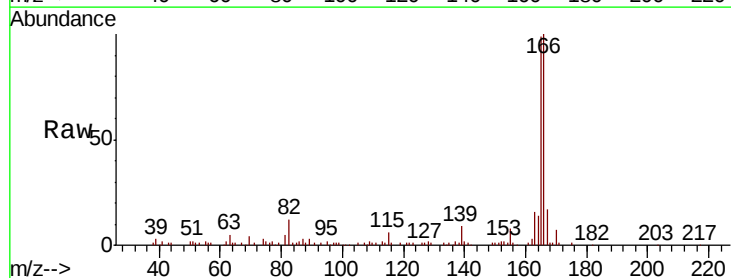
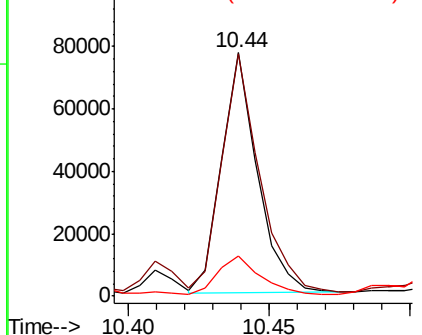
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

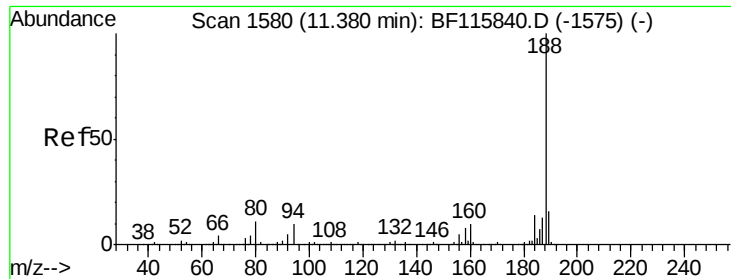


#58
Fluorene
Concen: 4.125 ng
RT: 10.44 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.5	78.6	118.0
167	16.7	10.9	16.3#

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.00 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Instrument :

BNA_F

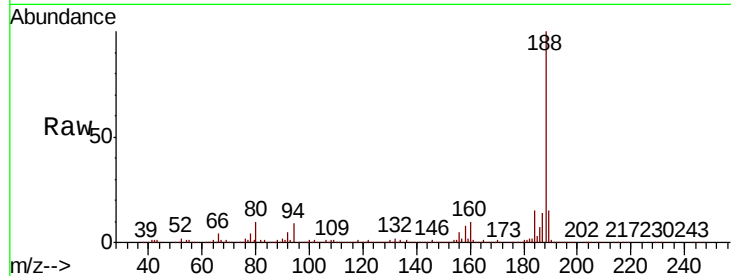
ClientSampleId :

SP-1

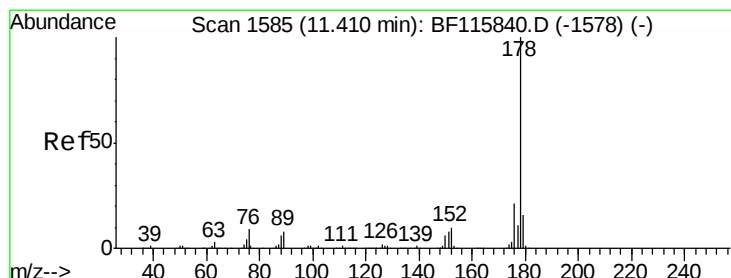
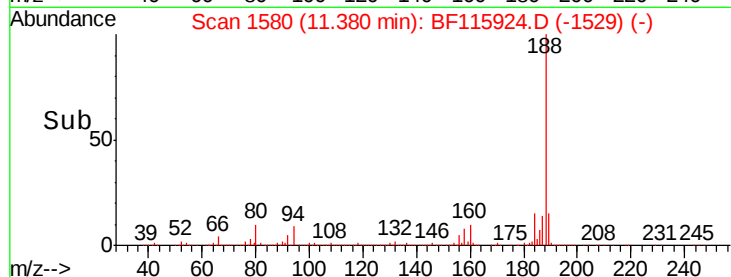
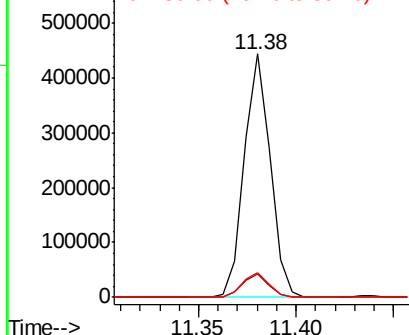
Tot Ion:	188	Resp:	410194
Ion Ratio	Lower	Upper	
188	100		
94	9.5	8.0	12.0
80	10.2	8.6	12.8

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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: 73.574 ng

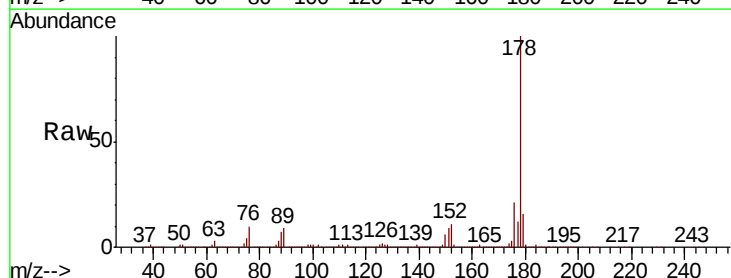
RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

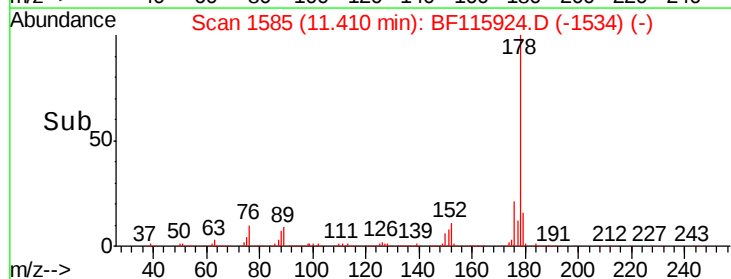
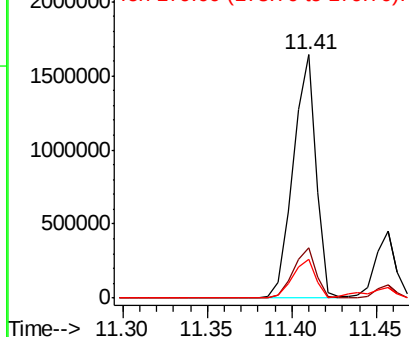
Lab File: BF115924.D

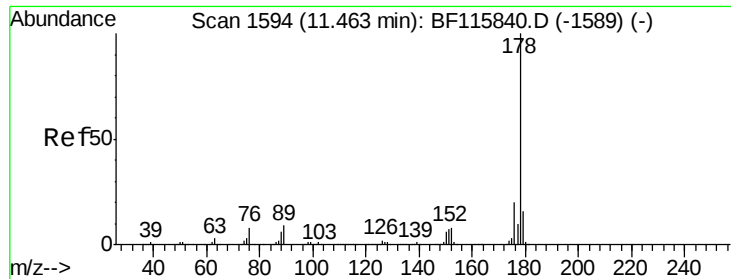
Acq: 1 Aug 2019 23:15

Tgt Ion:	178	Resp:	1542849
Ion Ratio	Lower	Upper	
178	100		
176	20.9	16.5	24.7
179	16.0	12.6	18.8



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: 17.373 ng

RT: 11.46 min Scan# 1593

Delta R.T. -0.01 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Instrument :

BNA_F

ClientSampleId :

SP-1

Tot Ion:178 Resp: 368702

Ion Ratio Lower Upper

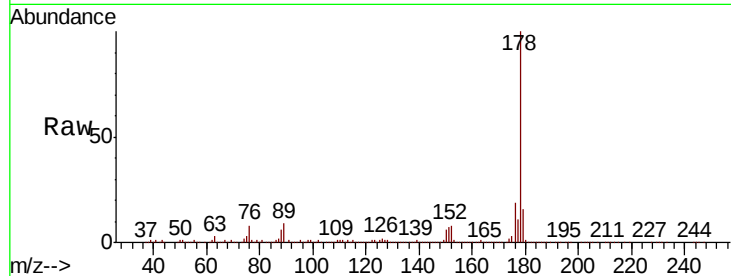
178 100

176 19.4 15.7 23.5

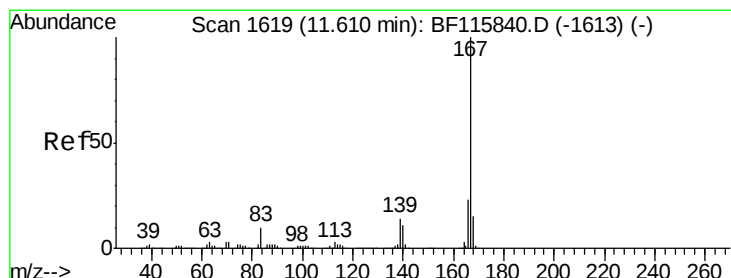
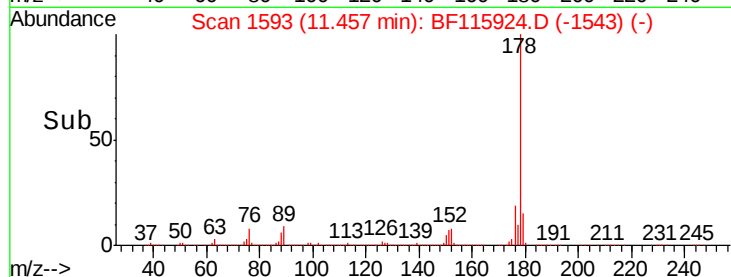
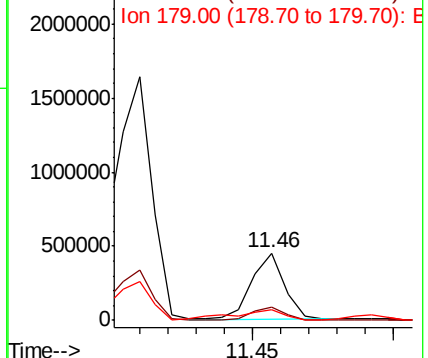
179 15.6 12.4 18.6

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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: 9.158 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.00 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

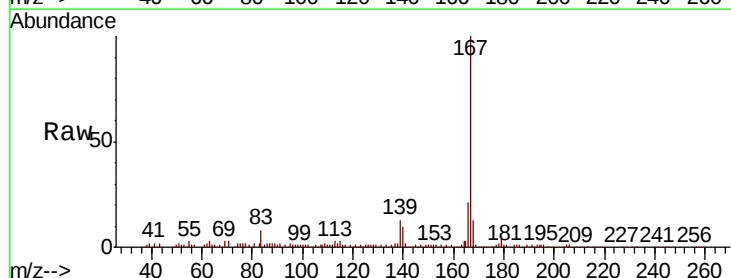
Tgt Ion:167 Resp: 176336

Ion Ratio Lower Upper

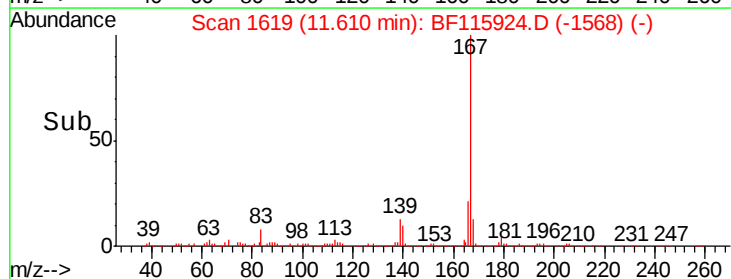
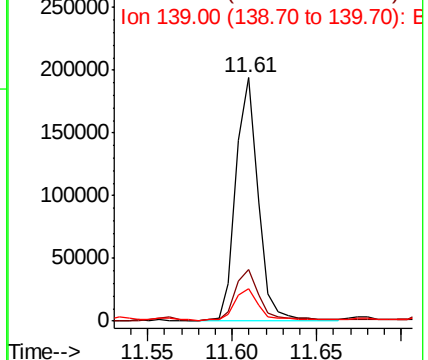
167 100

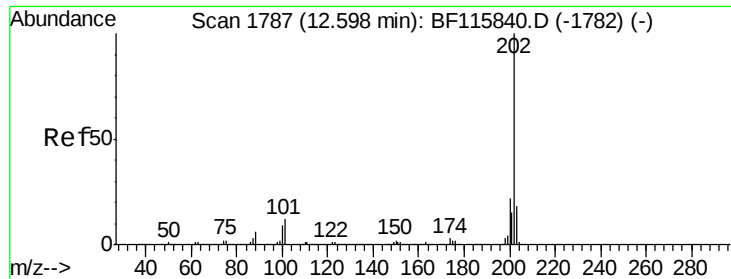
166 21.4 18.0 27.0

139 13.3 11.4 17.2



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: 106.229 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Instrument :

BNA_F

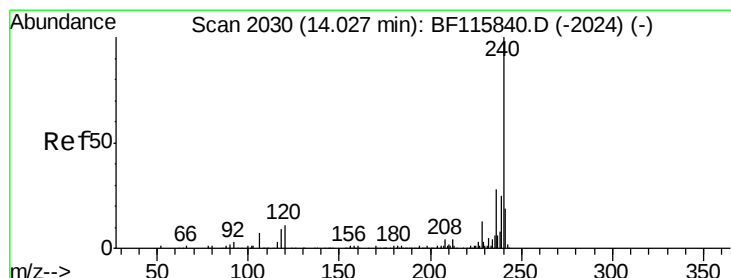
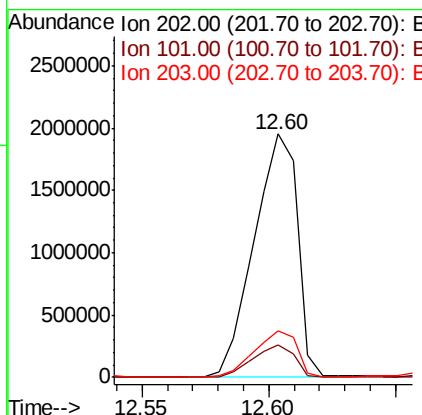
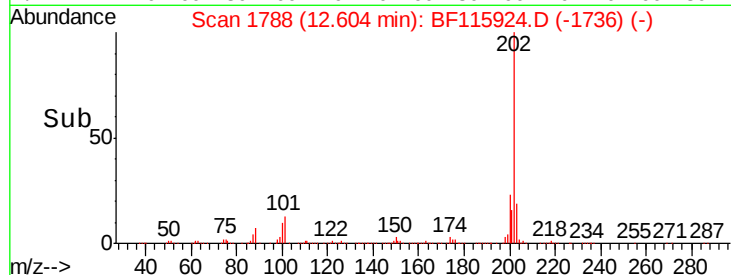
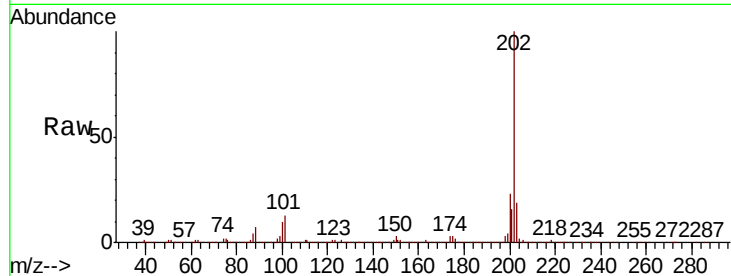
ClientSampleId :

SP-1

Tot Ion:	202	Resp:	2332109
Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	31.5
203	19.0	0.0	37.9

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#76

Chrysene-d12

Concen: 20.000 ng

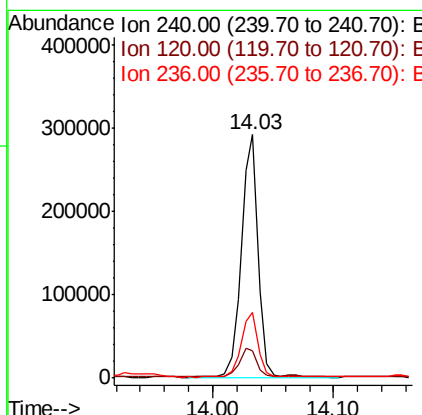
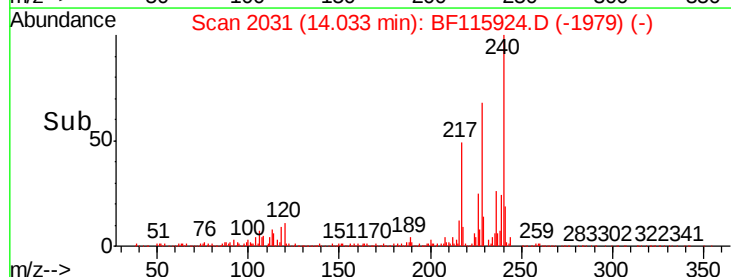
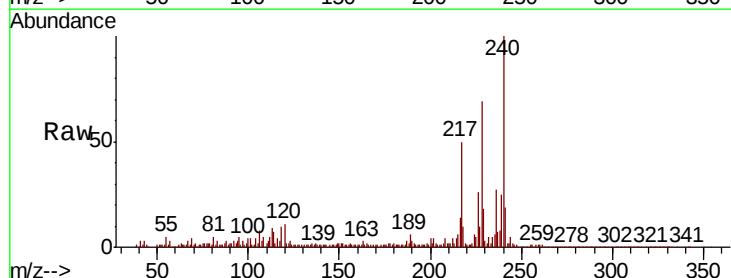
RT: 14.03 min Scan# 2031

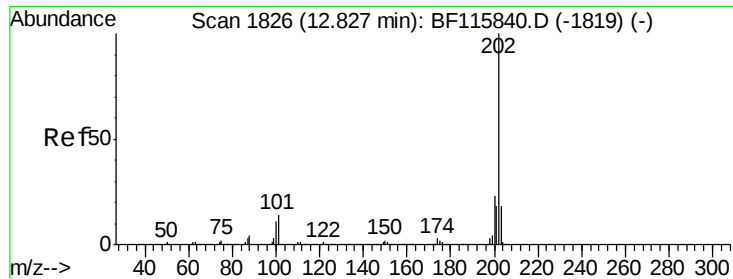
Delta R.T. 0.01 min

Lab File: BF115924.D

Acq: 1 Aug 2019 23:15

Tgt Ion:	240	Resp:	281171
Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.5	12.7
236	26.9	22.2	33.2





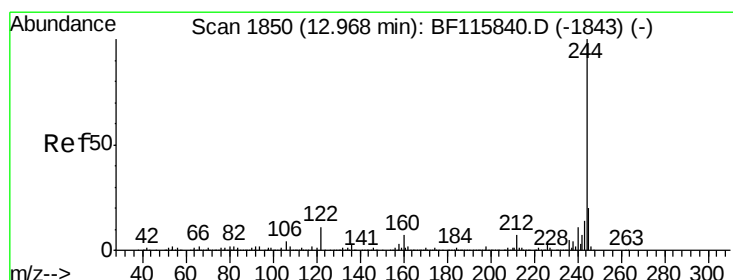
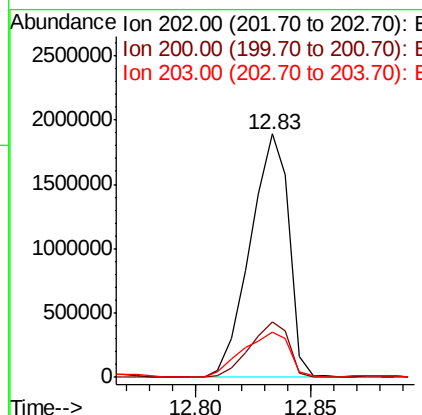
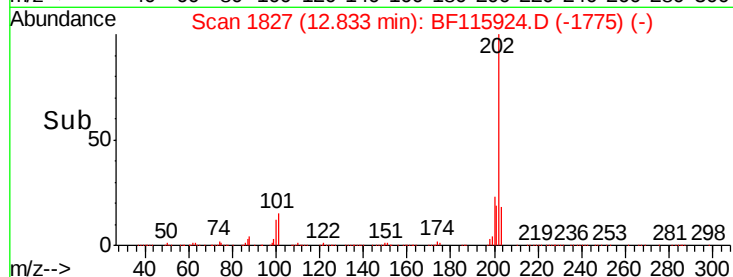
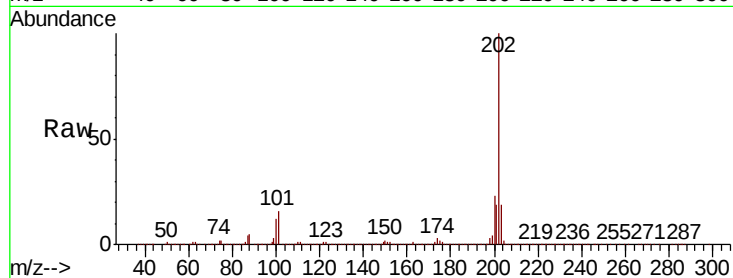
#78
Pvrene
Concen: 104.233 ng
RT: 12.83 min Scan# 1827
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.9	18.2	27.2
203	18.8	14.3	21.5

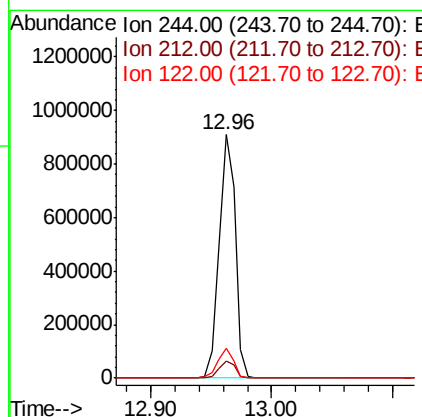
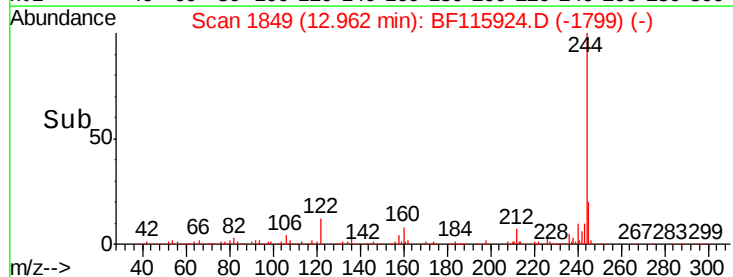
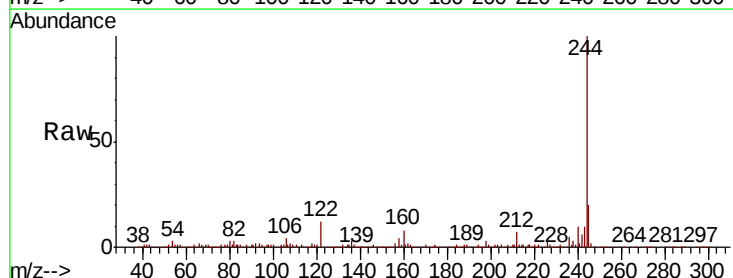
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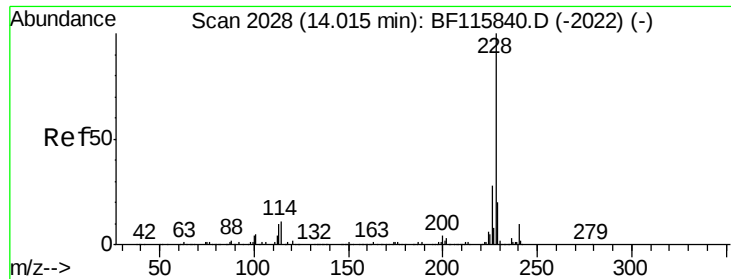
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#79
Terphenyl-d14
Concen: 61.662 ng
RT: 12.96 min Scan# 1849
Delta R.T. -0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	12.5	8.6	13.0





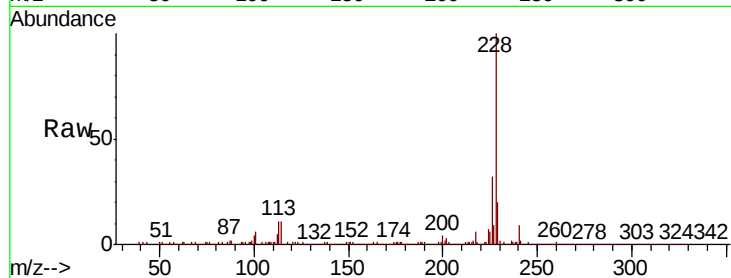
#81
Benzo(a)anthracene
Concen: 71.578 ng
RT: 14.02 min Scan# 2029
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.5	33.7
229	20.5	16.1	24.1

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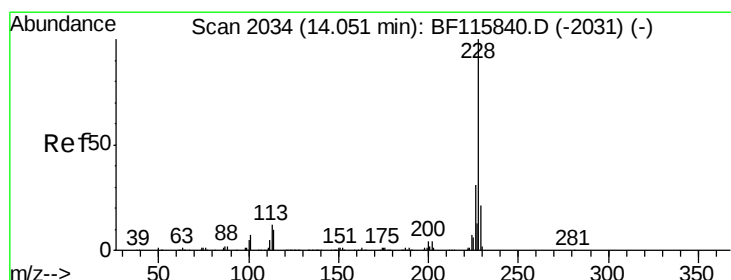
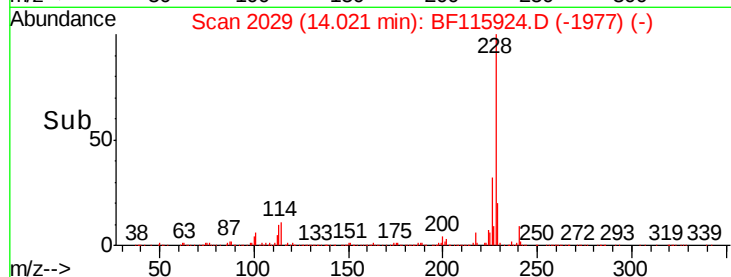
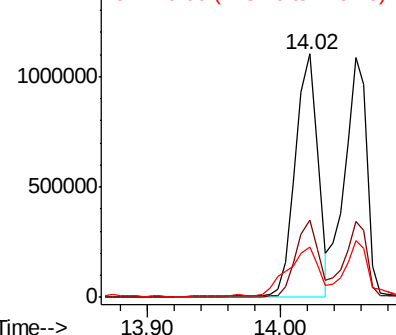


Abundance

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: 66.611 ng
RT: 14.06 min Scan# 2035
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

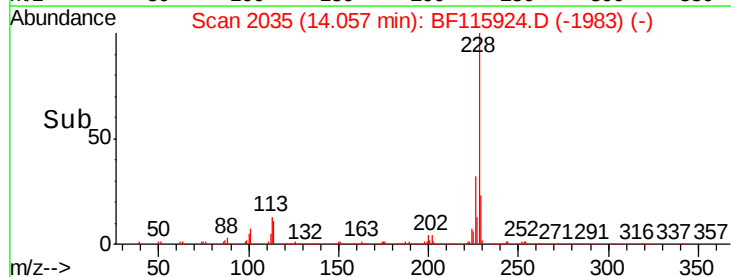
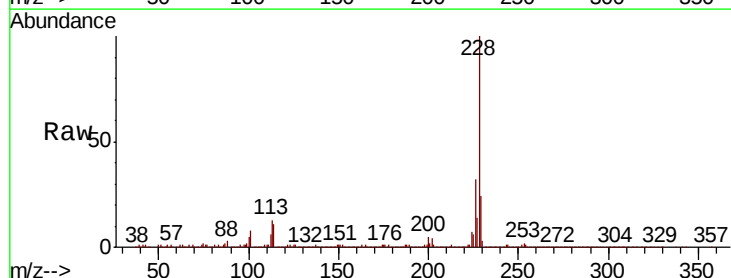
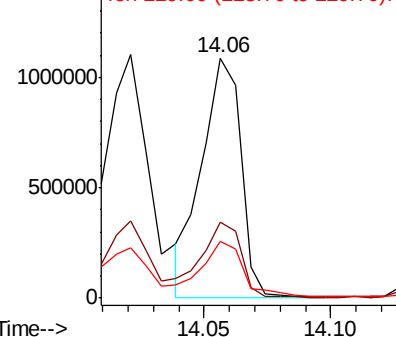
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.8	37.2
229	23.7	16.4	24.6

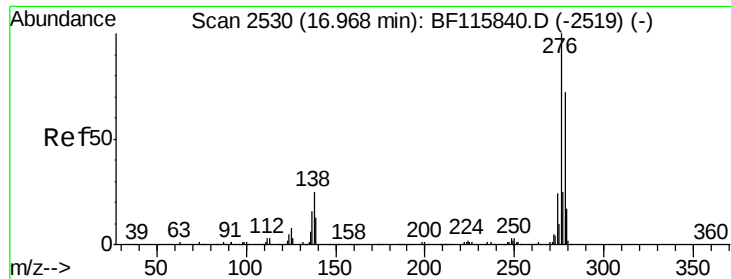
Abundance

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





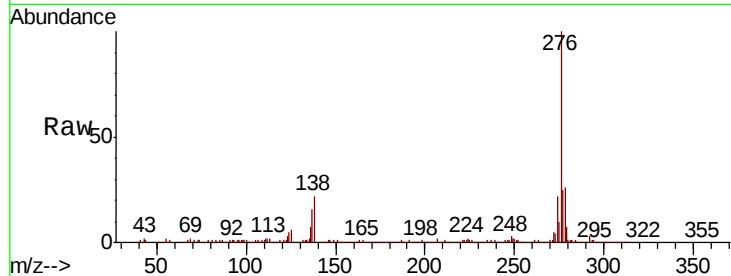
#86
Indeno(1,2,3-cd)pyrene
Concen: 38.153 ng
RT: 16.99 min Scan# 2533
Delta R.T. 0.02 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampleId :
SP-1

Tot Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.6	29.4
277	24.1	20.1	30.1

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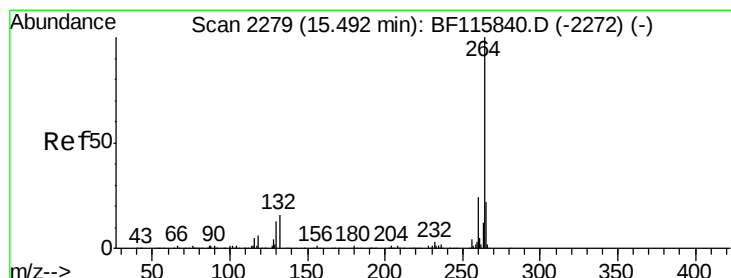
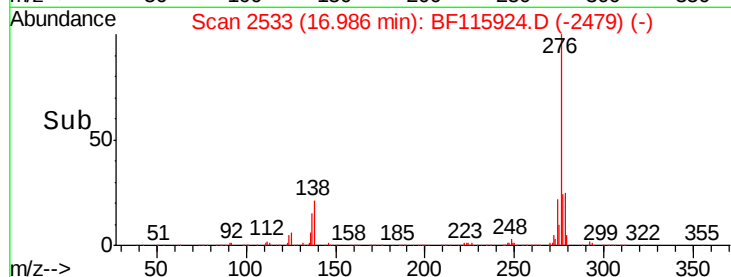
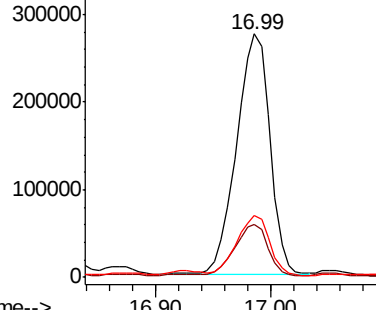


Abundance

Ion 276.00 (275.70 to 276.70): E

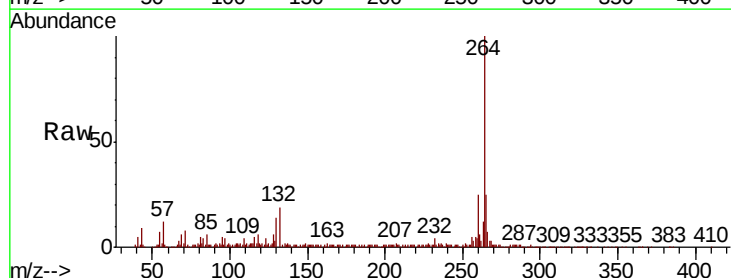
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.4	29.2
265	25.0	17.5	26.3

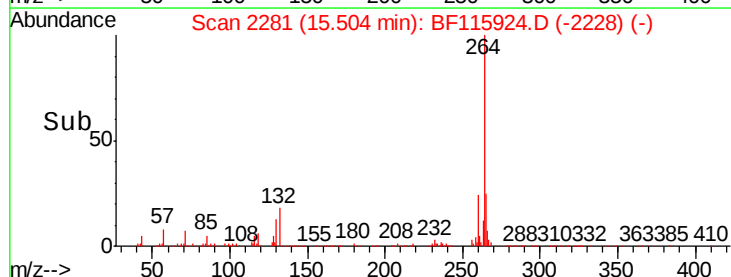
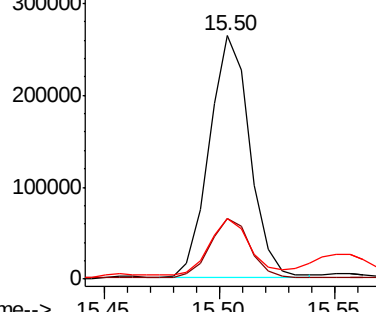


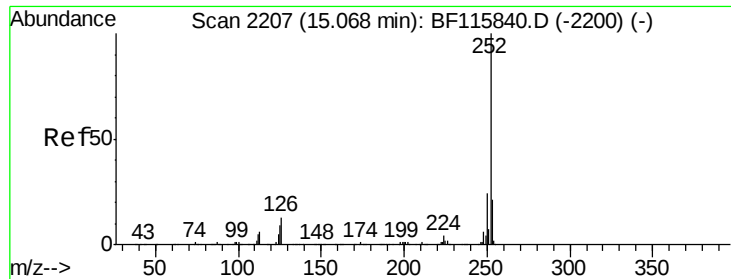
Abundance

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





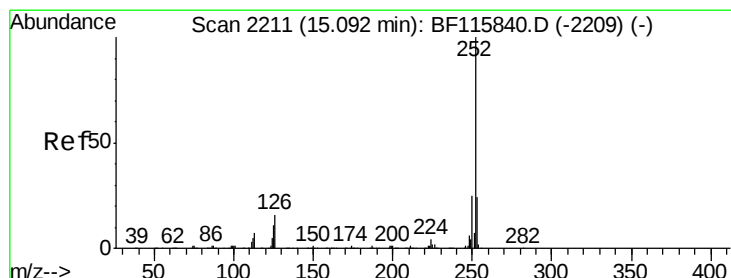
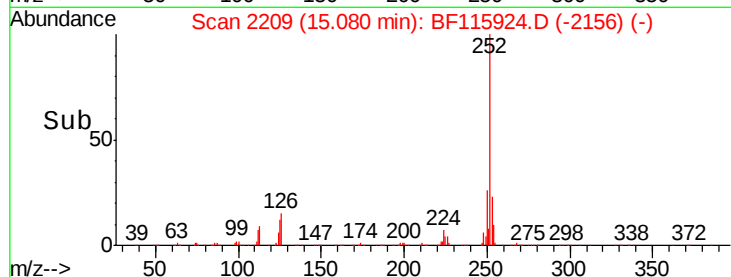
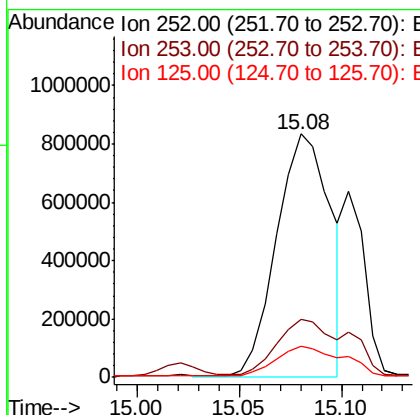
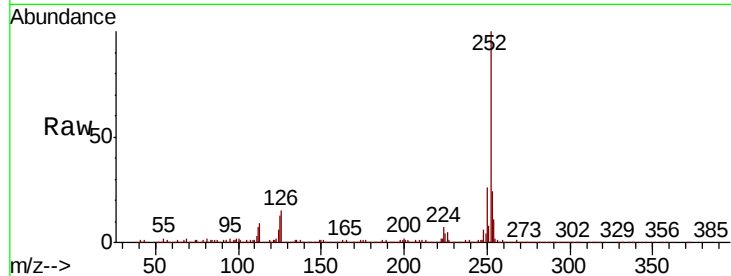
#88
Benzo(b)fluoranthene
Concen: 82.534 ng m
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.2	25.8
125	12.7	7.4	11.0

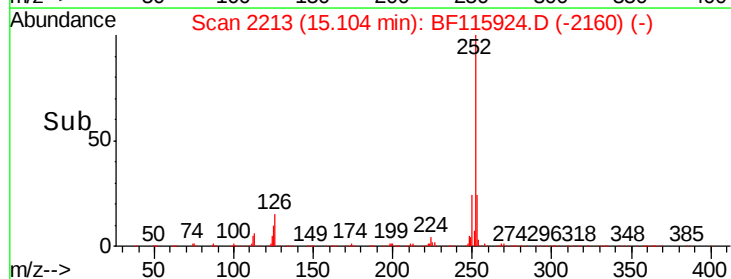
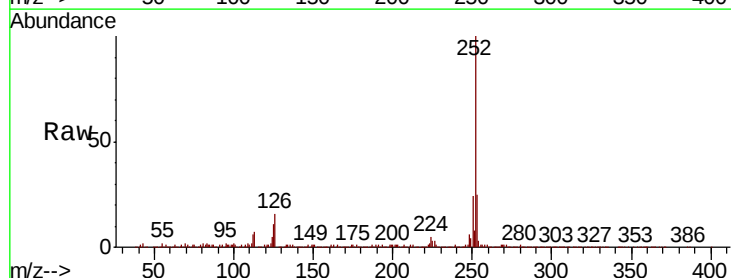
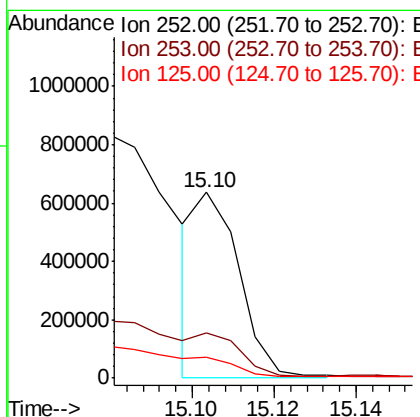
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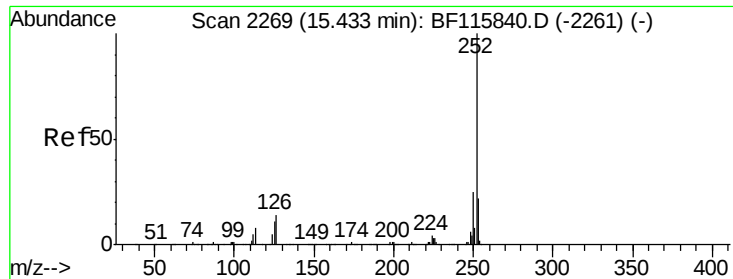
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#89
Benzo(k)fluoranthene
Concen: 25.681 ng m
RT: 15.10 min Scan# 2213
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.2	27.4
125	11.0	8.9	13.3





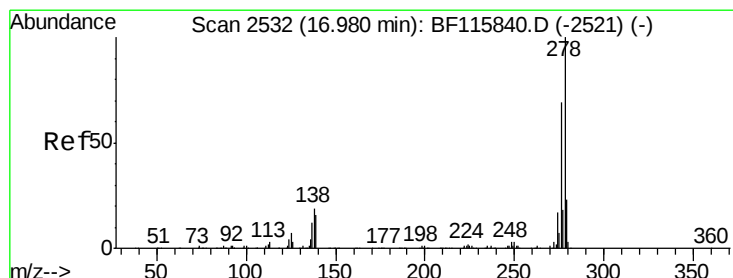
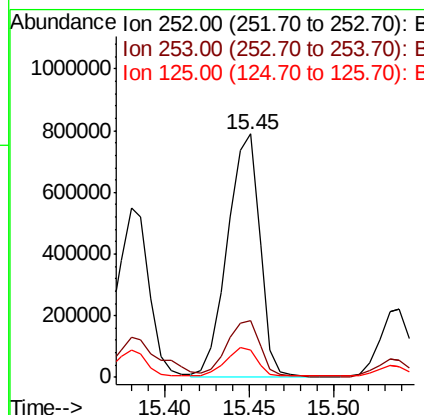
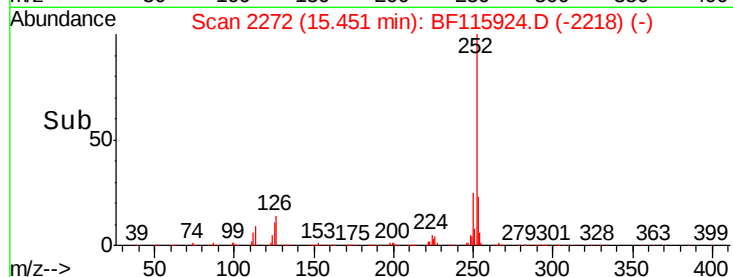
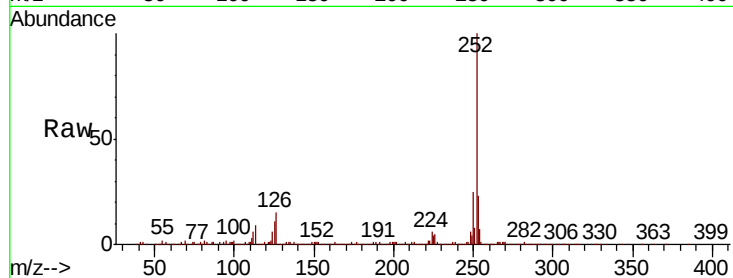
#90
Benzo(a)pyrene
Concen: 62.941 ng
RT: 15.45 min Scan# 2272
Delta R.T. 0.02 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Instrument :
BNA_F
ClientSampled :
SP-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.6
125	11.3	8.8	13.2

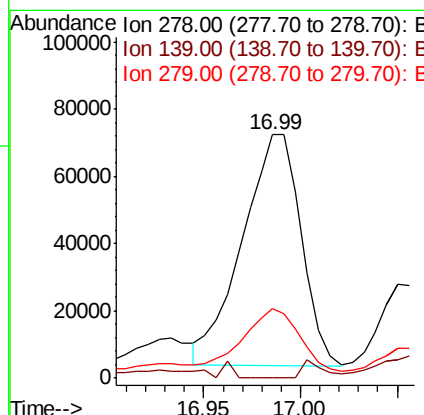
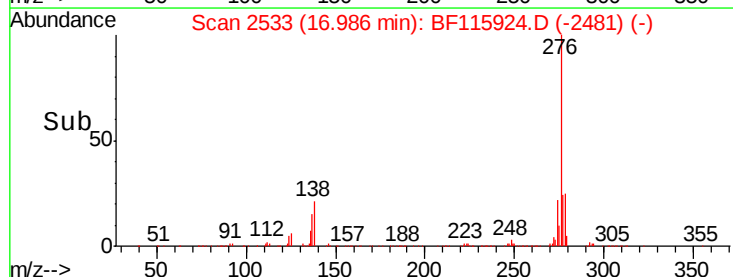
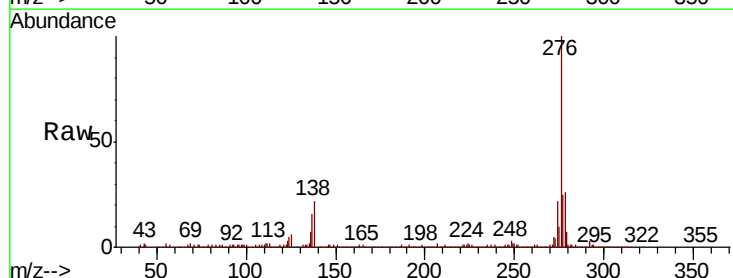
Manual Integrations
APPROVED

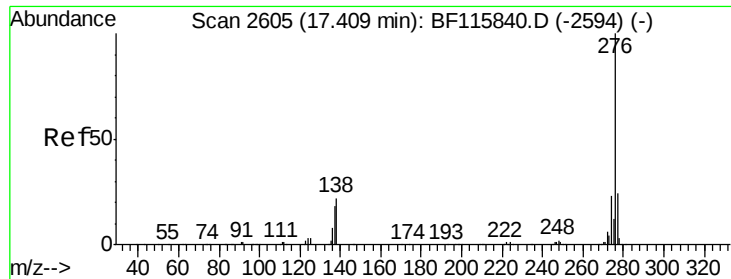
mohammad
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#91
Dibenzo(a,h)anthracene
Concen: 10.058 ng m
RT: 16.99 min Scan# 2533
Delta R.T. 0.01 min
Lab File: BF115924.D
Acq: 1 Aug 2019 23:15

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	12.6	19.0#
279	28.7	18.8	28.2#





#92
 Benzo(a,h,i)perylene
 Concen: 35.117 ng
 RT: 17.43 min Scan# 2609
 Delta R.T. 0.02 min
 Lab File: BF115924.D
 Acq: 1 Aug 2019 23:15

Instrument :
 BNA_F
 ClientSampleId :
 SP-1

Tot Ion:	276	Resp:	497806
Ion Ratio		Lower	Upper
276	100		
277	24.8	19.5	29.3
138	21.7	17.8	26.8

Manual Integrations
 APPROVED

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