

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021219\
 Data File : BF112513.D
 Acq On : 12 Feb 2019 16:14
 Operator : JU/SJ
 Sample : K1345-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-021119

Manual Integrations
 APPROVED

Sohil
 2/13/2019 11:12:12 AM

Quant Time: Feb 13 04:16:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012519.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 28 10:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	123637	20.00	ng	-0.01
21) Naphthalene-d8	8.12	136	473392	20.00	ng	-0.01
39) Acenaphthene-d10	9.87	164	211687	20.00	ng	-0.02
64) Phenanthrene-d10	11.36	188	333145	20.00	ng	0.00
76) Chrysene-d12	14.02	240	265104	20.00	ng	0.00
87) Perylene-d12	15.50	264	247996	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	712386	122.39	ng	0.00
7) Phenol-d6	6.49	99	880390	108.85	ng	0.00
23) Nitrobenzene-d5	7.40	82	558319	67.96	ng	-0.01
42) 2,4,6-Tribromophenol	10.67	330	218754	88.78	ng	-0.01
45) 2-Fluorobiphenyl	9.19	172	1025555	68.52	ng	-0.02
79) Terphenyl-d14	12.94	244	812930	57.76	ng	0.00
Target Compounds						Qvalue
49) Acenaphthylene	9.73	152	178689	8.495	ng	97
50) Dimethylphthalate	9.58	163	91588	5.569	ng	99
52) Acenaphthene	9.90	154	33642	2.677	ng	92
55) Dibenzofuran	10.07	168	61550	3.205	ng	96
58) Fluorene	10.42	166	92395	6.430	ng	99
71) Phenanthrene	11.39	178	1164759	67.250	ng	99
72) Anthracene	11.44	178	439938	25.500	ng	97
73) Carbazole	11.60	167	53526	3.145	ng	98
75) Fluoranthene	12.59	202	2716785	146.249	ng	99
78) Pyrene	12.82	202	2432444	132.527	ng	99
81) Benzo(a)anthracene	14.01	228	1460526	93.718	ng	99
83) Chrysene	14.04	228	1214288	81.628	ng	98
86) Indeno(1,2,3-cd)pyrene	17.00	276	608506	51.623	ng	# 93
88) Benzo(b)fluoranthene	15.07	252	1755368m	118.355	ng	
89) Benzo(k)fluoranthene	15.09	252	564758m	39.754	ng	
90) Benzo(a)pyrene	15.44	252	1241192	93.007	ng	99
91) Dibenzo(a,h)anthracene	16.99	278	160359m	14.910	ng	
92) Benzo(g,h,i)perylene	17.45	276	537179	52.939	ng	98

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

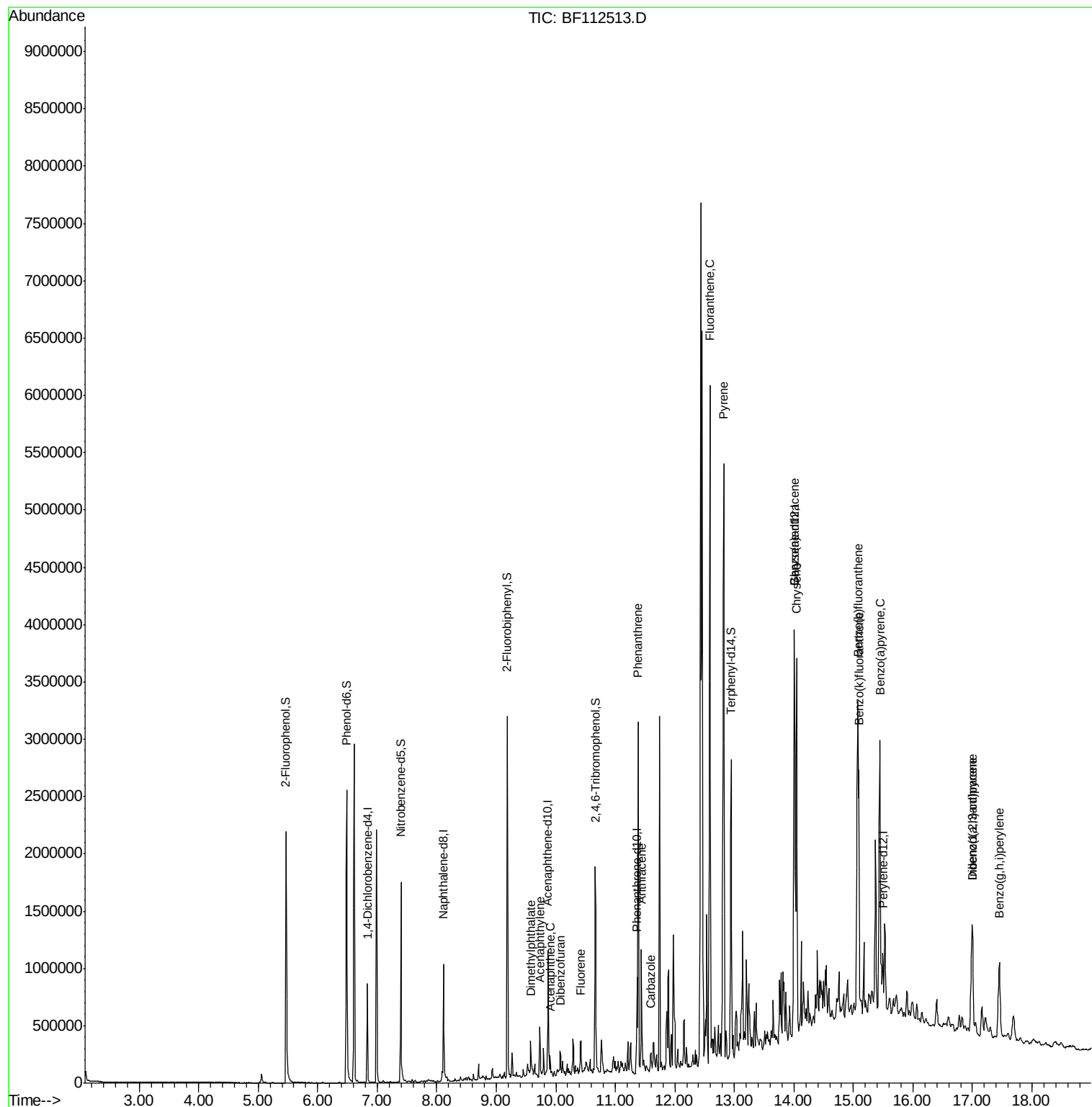
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021219\
Data File : BF112513.D
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Operator : JU/SJ
Sample : K1345-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

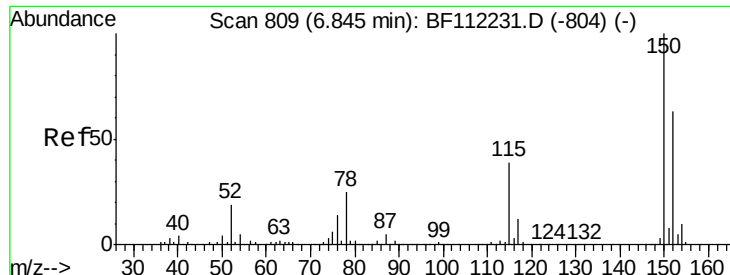
Instrument :
BNA_F
ClientSampleId :
HD-02-021119

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

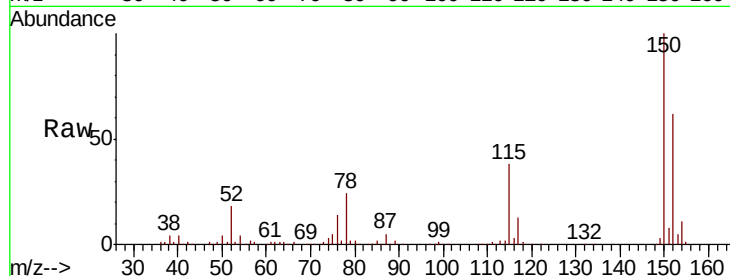
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.83 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.8	127.4	191.0
115	60.9	45.5	68.3

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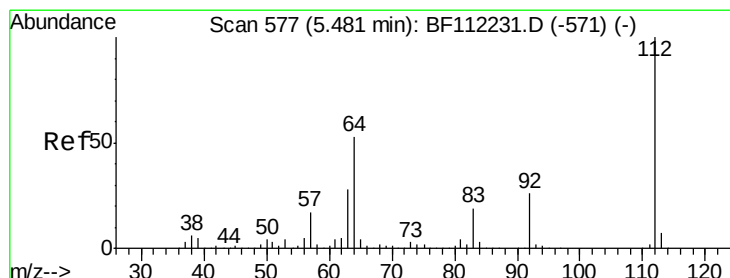
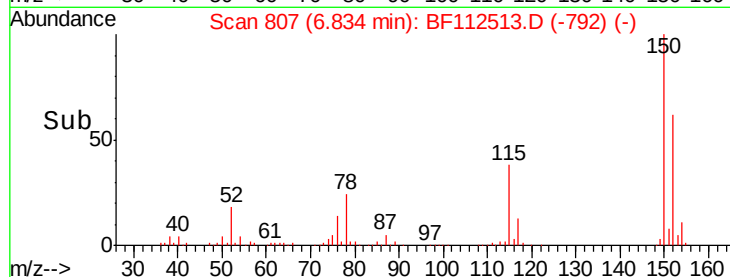
Abundance

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

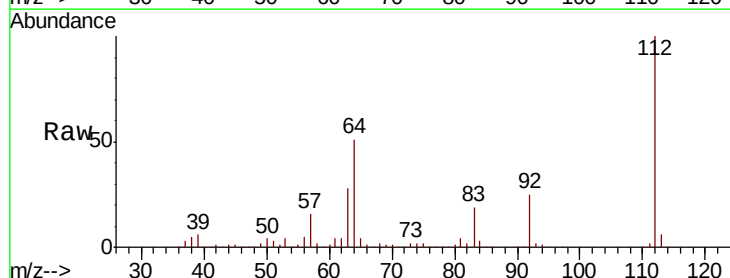
Time-->



#5

2-Fluorophenol
Concen: 122.387 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.2	45.7	68.5
63	28.2	23.6	35.4



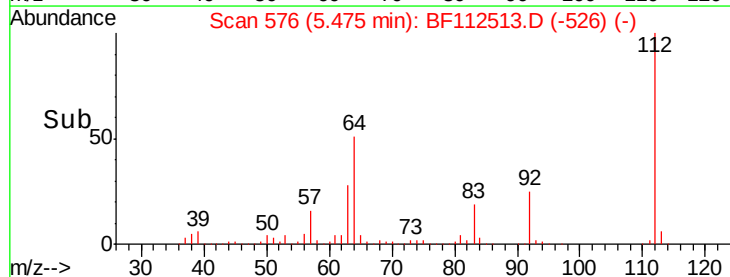
Abundance

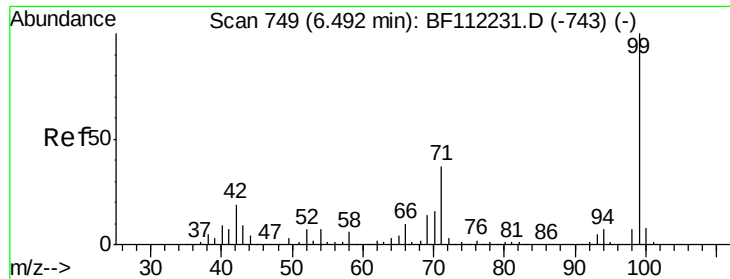
Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Time-->





#7

Phenol-d6

Concen: 108.848 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

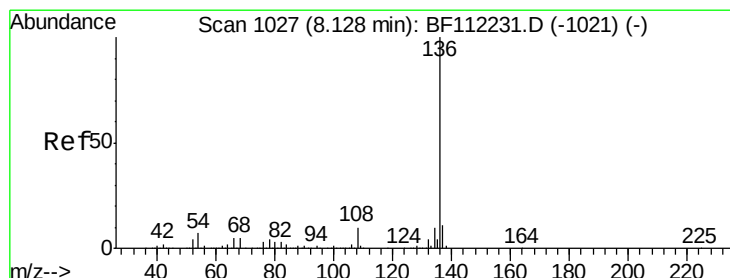
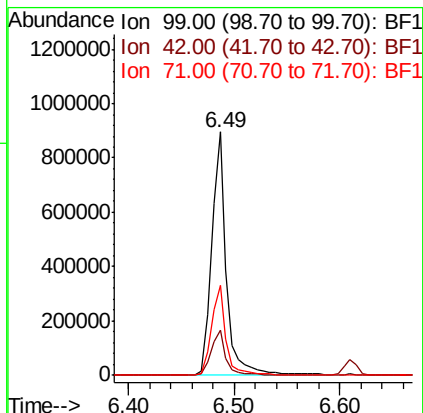
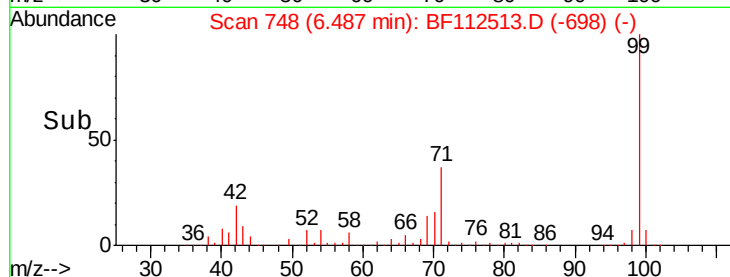
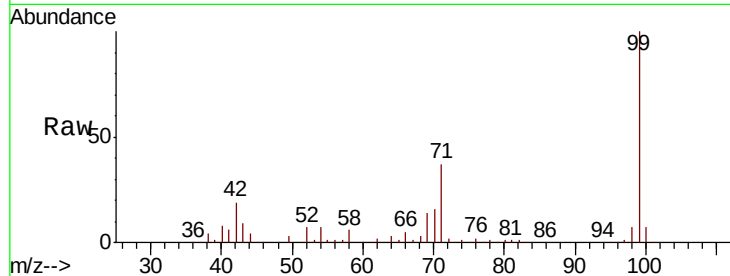
ClientSampleId :

HD-02-021119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		880390		
42	18.8	15.1	22.7		
71	36.7	26.9	40.3		

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#21

Naphthalene-d8

Concen: 20.000 ng

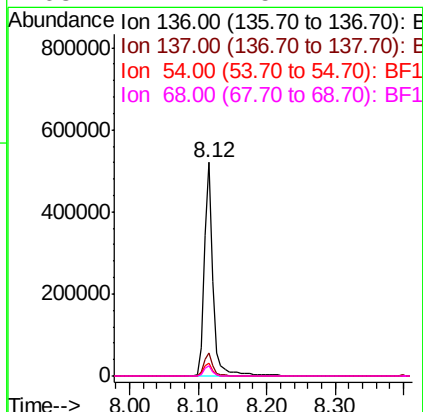
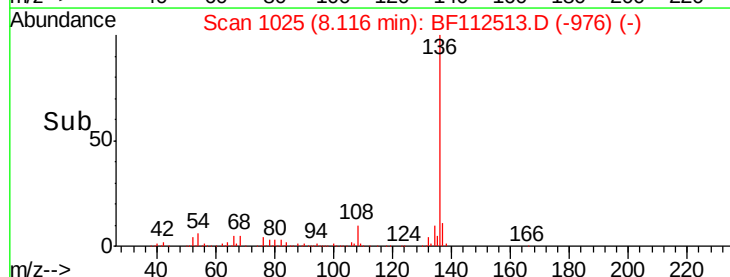
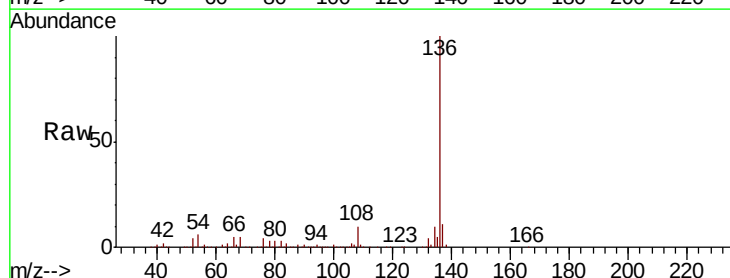
RT: 8.12 min Scan# 1025

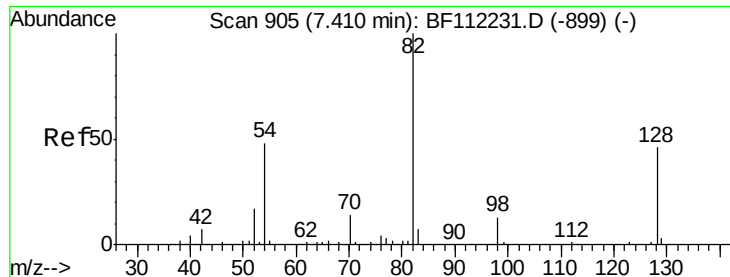
Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		473392		
137	10.7	9.1	13.7		
54	6.0	5.9	8.9		
68	4.7	5.1	7.7#		





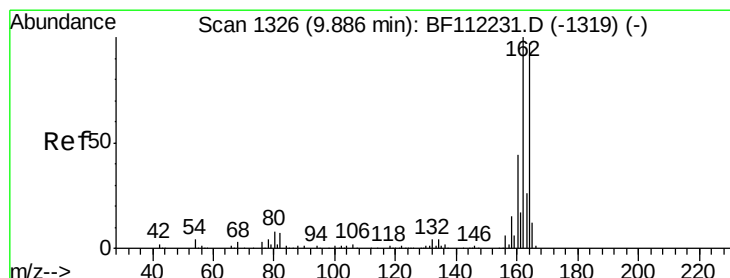
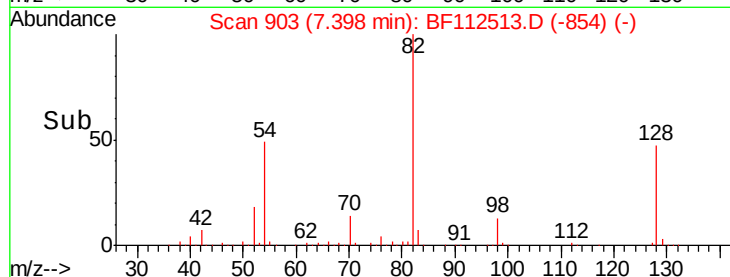
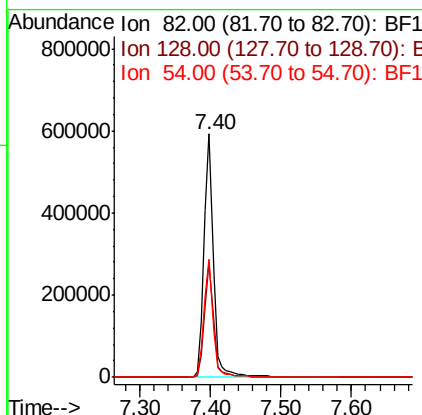
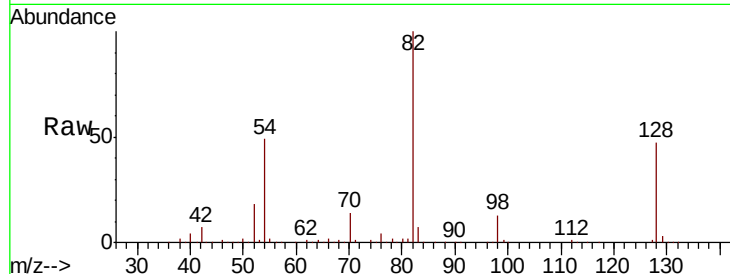
#23
Nitrobenzene-d5
Concen: 67.957 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.8	56.8
54	48.6	39.7	59.5

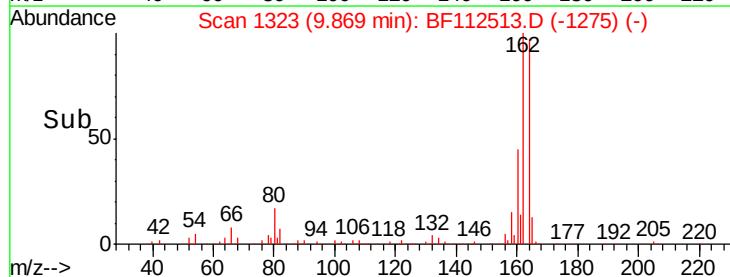
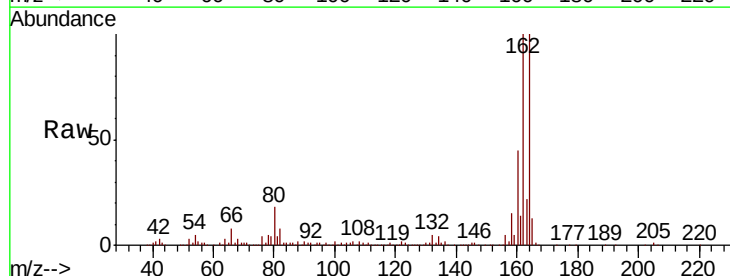
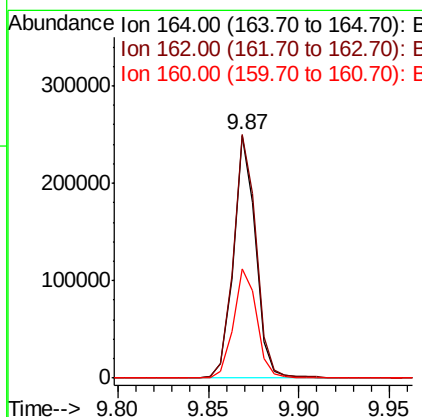
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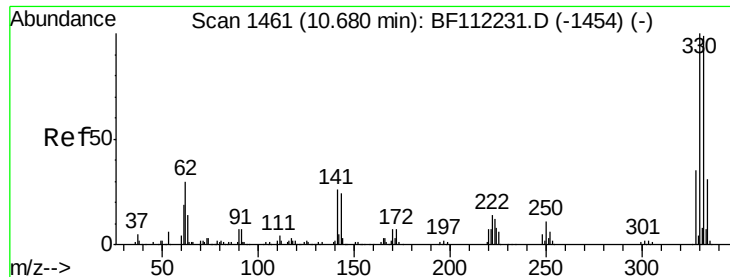
Sohil
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.02 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	82.2	123.4
160	45.3	36.2	54.4





#42

2,4,6-Tribromophenol

Concen: 88.781 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

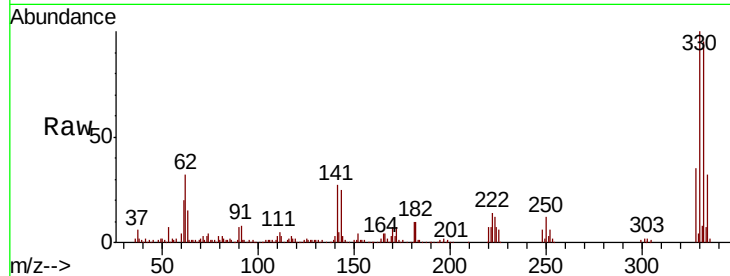
ClientSampleId :

HD-02-021119

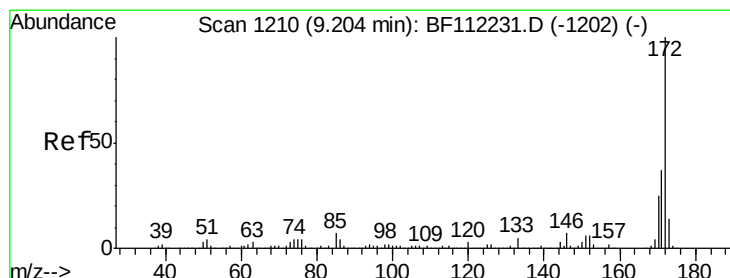
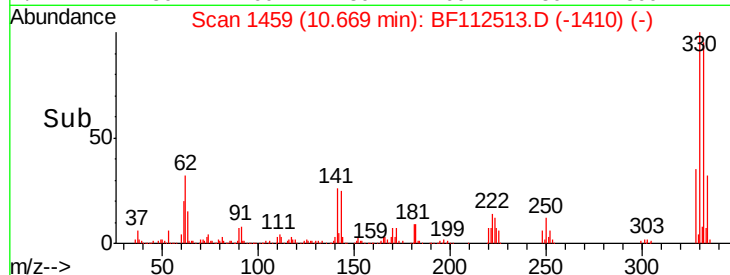
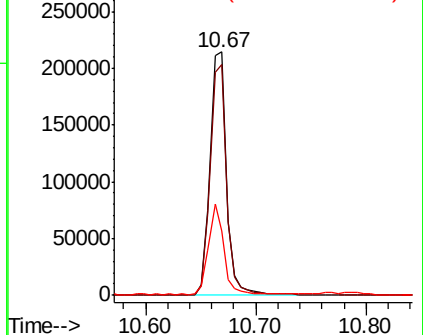
Tot Ion:	330	Resp:	218754
Ion Ratio	Lower	Upper	
330	100		
332	95.0	76.6	114.8
141	34.1	24.3	36.5

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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: 68.520 ng

RT: 9.19 min Scan# 1207

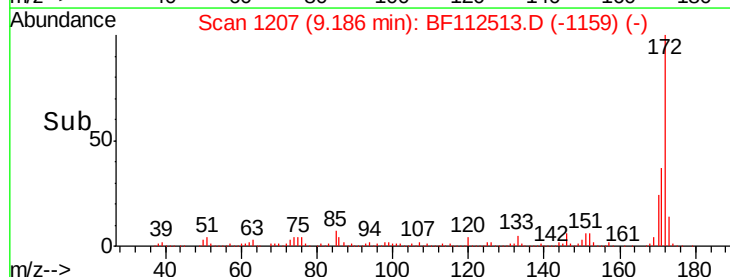
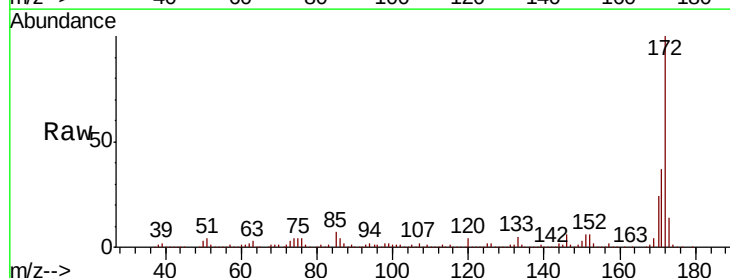
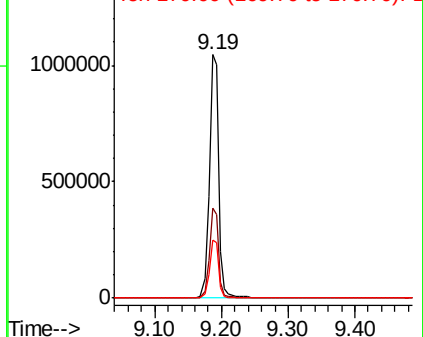
Delta R.T. -0.02 min

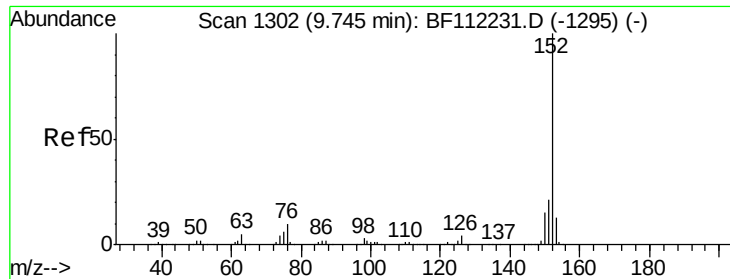
Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Tgt Ion:	172	Resp:	1025555
Ion Ratio	Lower	Upper	
172	100		
171	37.1	30.5	45.7
170	23.7	20.2	30.4

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: 8.495 ng

RT: 9.73 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

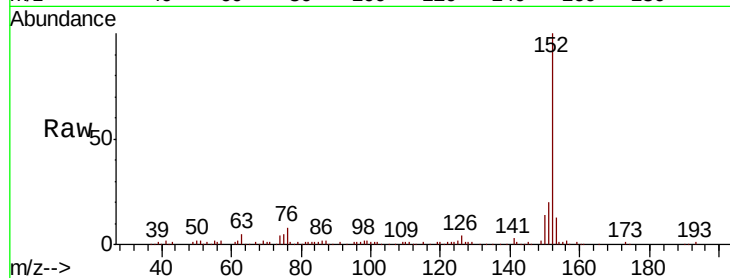
ClientSampleId :

HD-02-021119

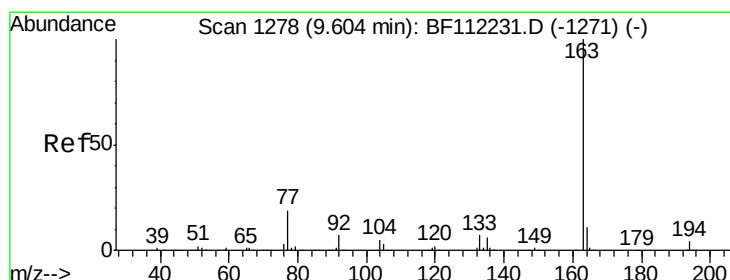
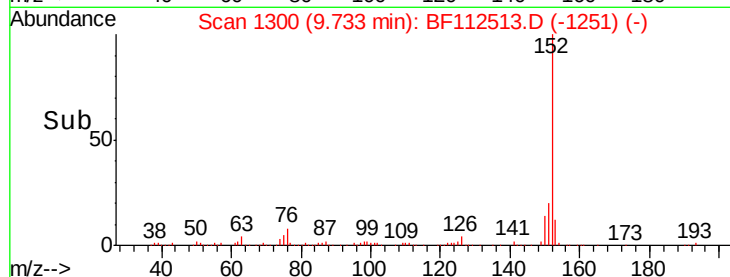
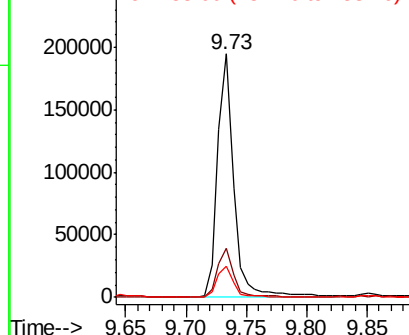
Tot Ion	Ratio	Lower	Upper
152	100		
151	20.3	17.0	25.6
153	12.8	11.2	16.8

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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: 5.569 ng

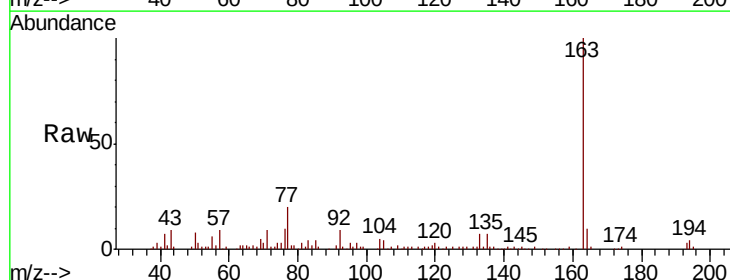
RT: 9.58 min Scan# 1274

Delta R.T. -0.02 min

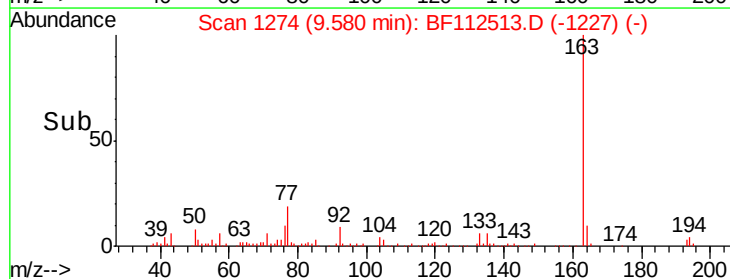
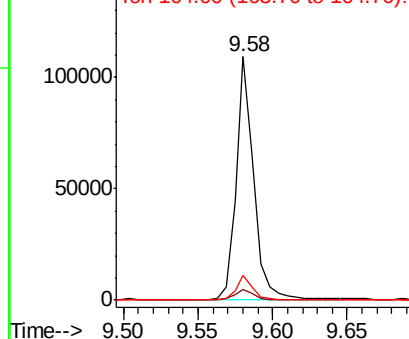
Lab File: BF112513.D

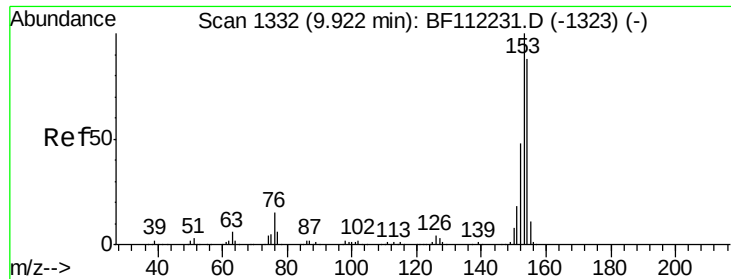
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.3	4.9
164	10.3	8.5	12.7



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: 2.677 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

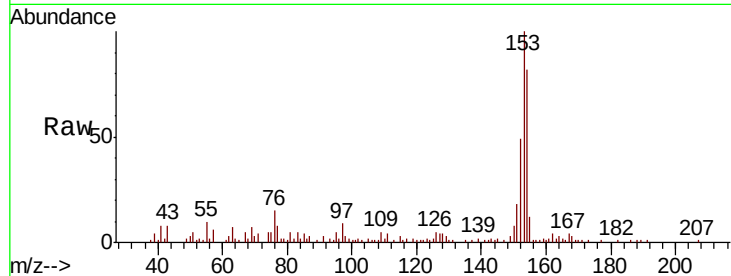
ClientSampleId :

HD-02-021119

Tot Ion:	154	Resp:	33642
Ion Ratio	Lower	Upper	
154	100		
153	121.3	89.8	134.6
152	59.6	43.5	65.3

Manual Integrations
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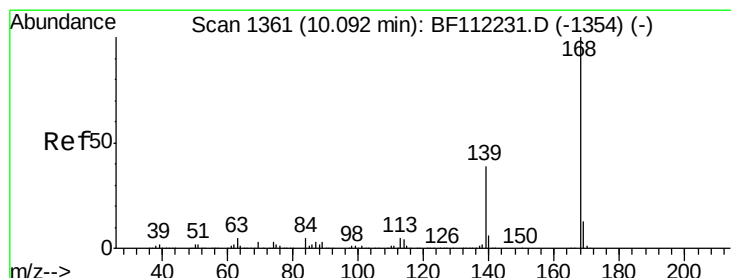
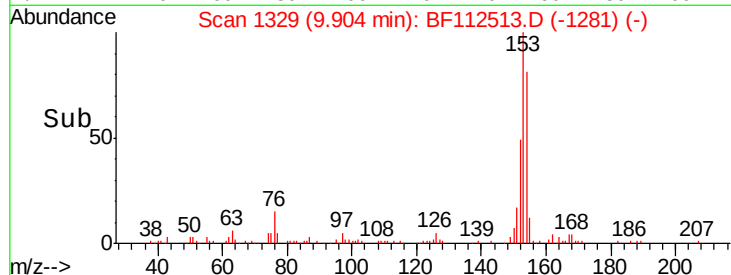
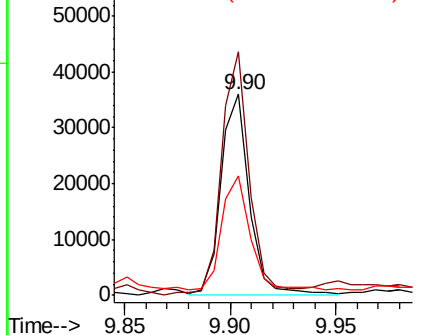


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 3.205 ng

RT: 10.07 min Scan# 1358

Delta R.T. -0.02 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

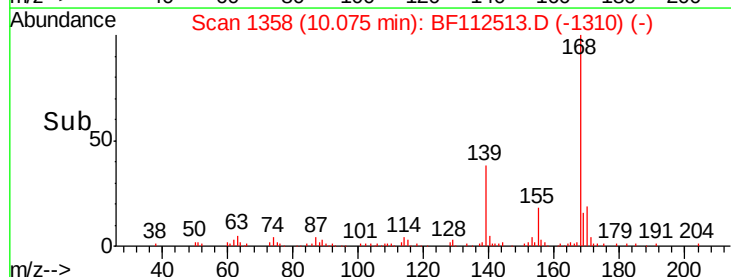
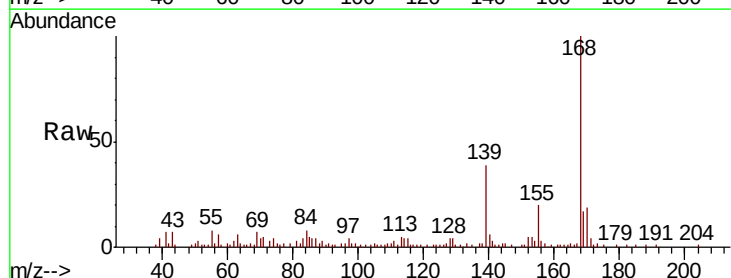
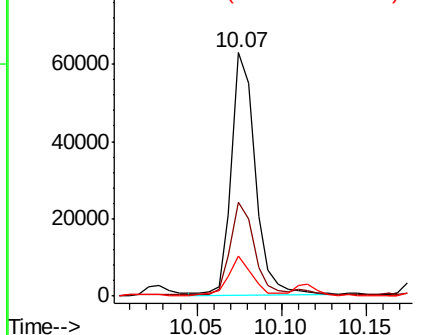
Tgt Ion:	168	Resp:	61550
Ion Ratio	Lower	Upper	
168	100		
139	38.5	29.2	43.8
169	16.5	11.4	17.0

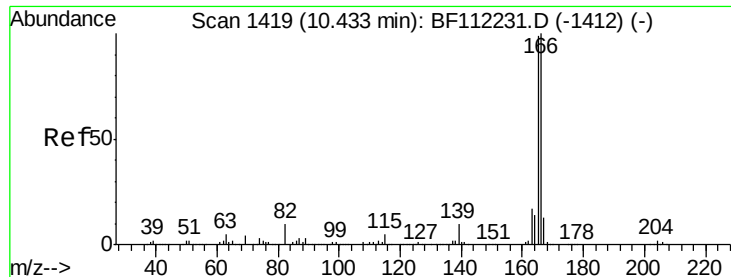
Abundance

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





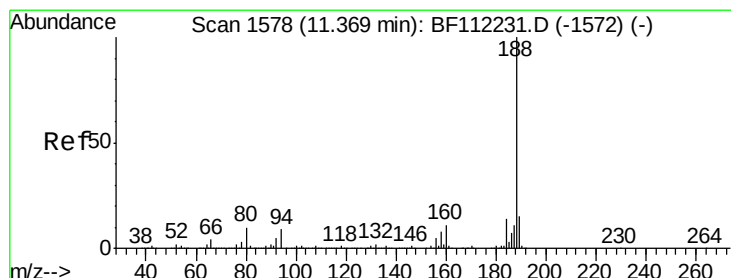
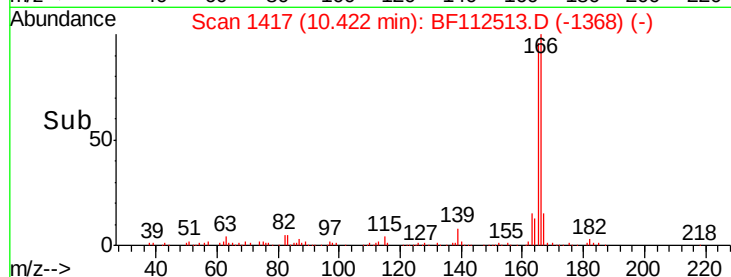
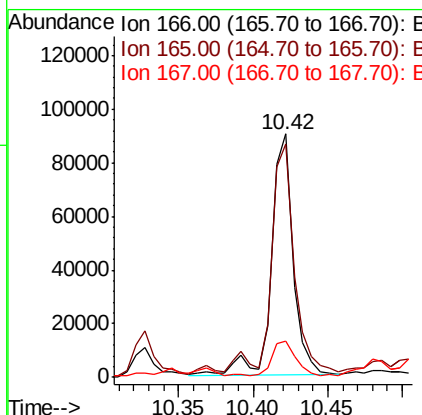
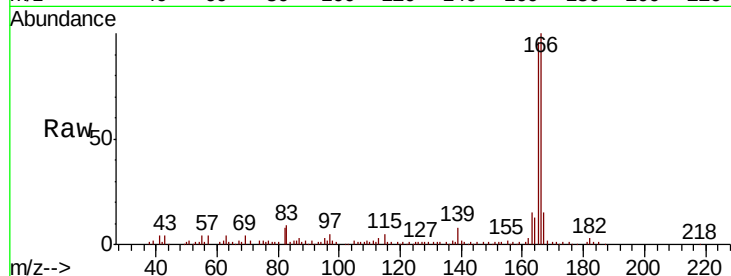
#58
 Fluorene
 Concen: 6.430 ng
 RT: 10.42 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-021119

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		92395		
165	96.1	77.1	115.7		
167	15.1	11.3	16.9		

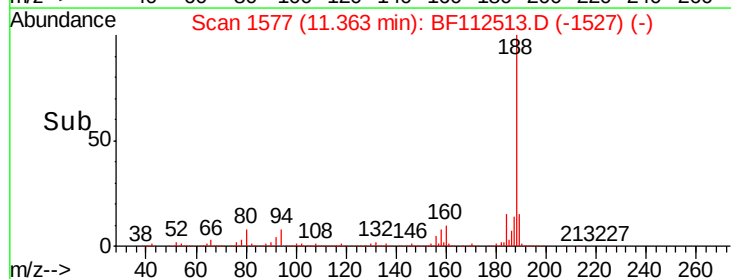
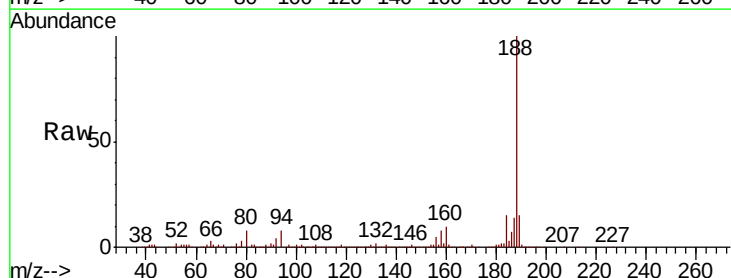
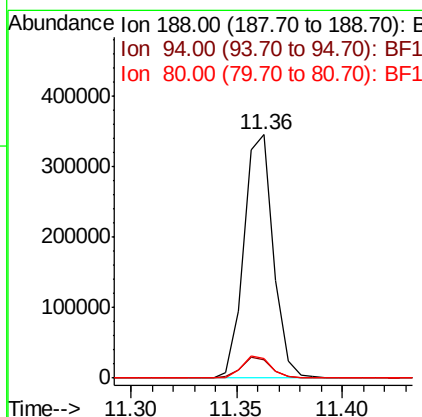
Manual Integrations
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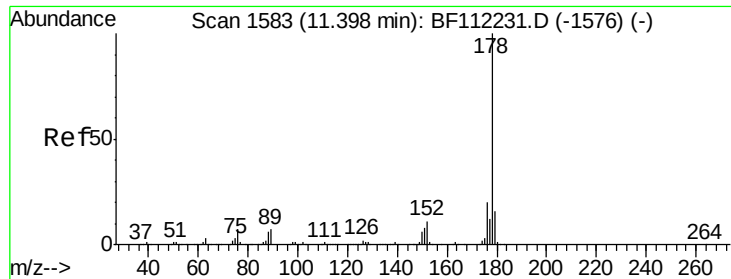
Sohil
 2/13/2019 11:12:12 AM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.36 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		333145		
94	7.5	8.2	12.2#		
80	7.9	8.9	13.3#		





#71

Phenanthrene

Concen: 67.250 ng

RT: 11.39 min Scan# 1581

Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

ClientSampleId :

HD-02-021119

Tot Ion:178 Resp: 1164759

Ion Ratio Lower Upper

178 100

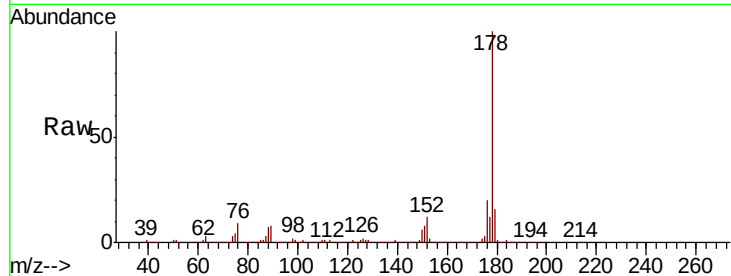
176 19.9 16.3 24.5

179 15.8 13.0 19.4

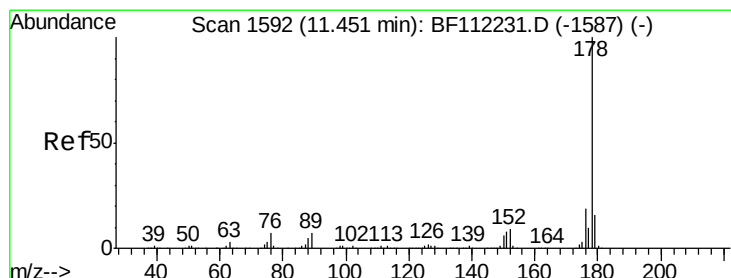
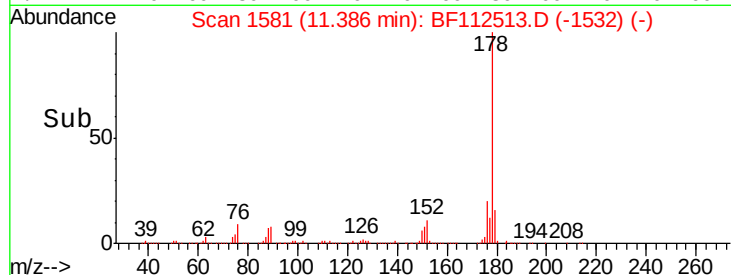
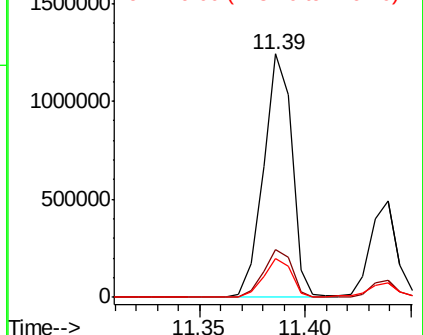
Manual Integrations
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Sohil

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



#72

Anthracene

Concen: 25.500 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

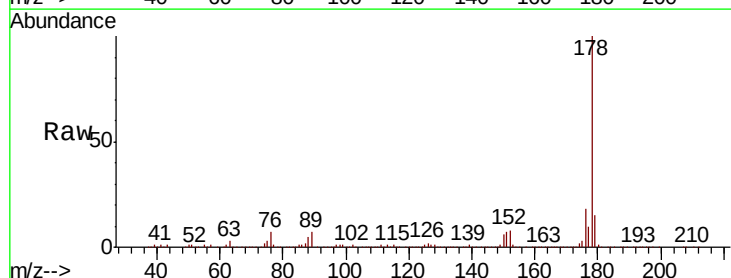
Tgt Ion:178 Resp: 439938

Ion Ratio Lower Upper

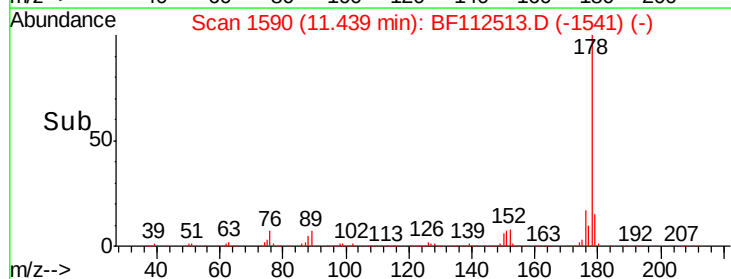
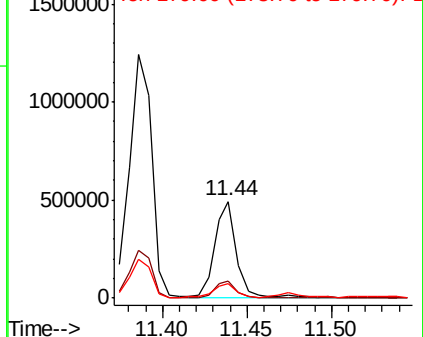
178 100

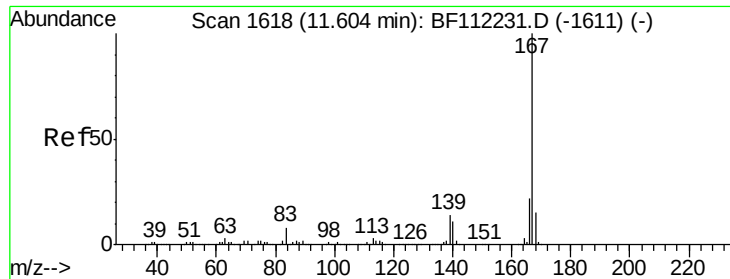
176 17.5 15.5 23.3

179 15.4 12.8 19.2



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





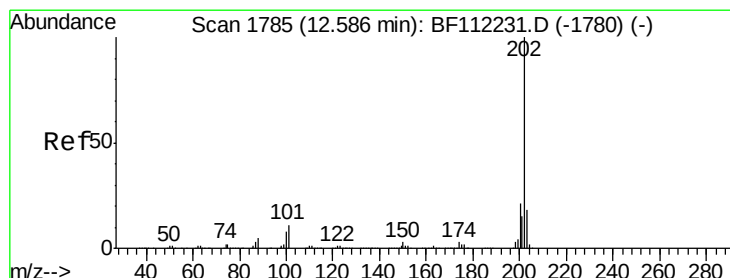
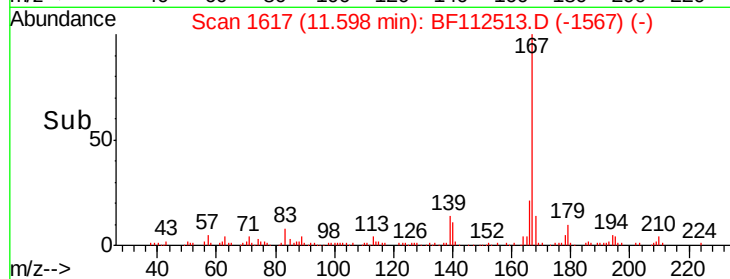
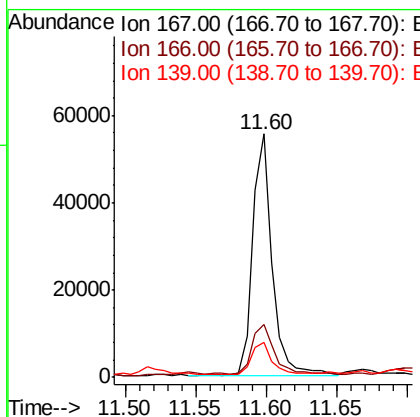
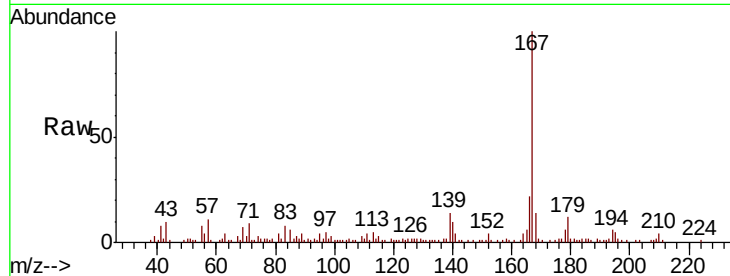
#73
 Carbazole
 Concen: 3.145 ng
 RT: 11.60 min Scan# 1617
 Delta R.T. -0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-021119

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.9	26.9
139	14.5	10.2	15.2

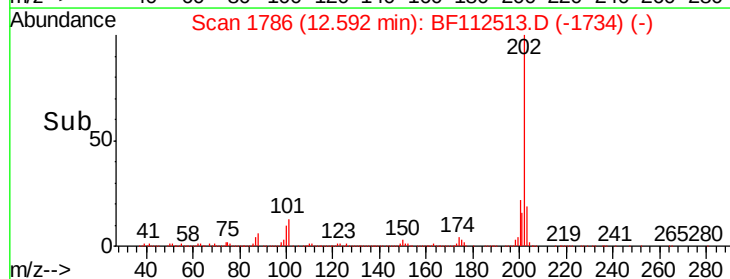
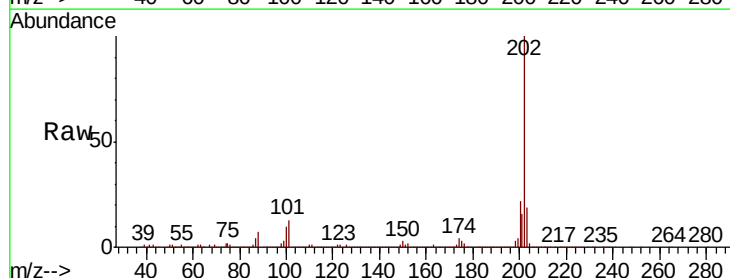
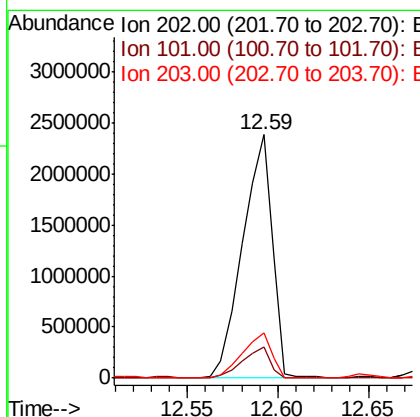
Manual Integrations
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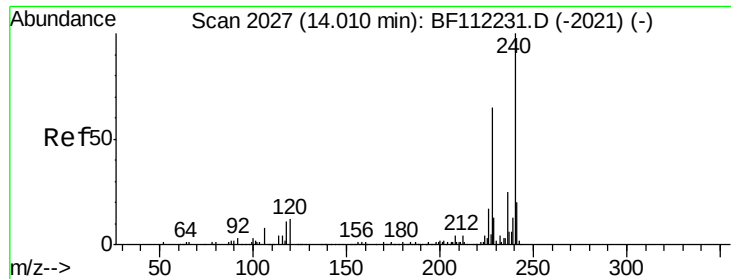
Sohil
 2/13/2019 11:12:12 AM



#75
 Fluoranthene
 Concen: 146.249 ng
 RT: 12.59 min Scan# 1786
 Delta R.T. 0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	31.8
203	18.7	0.0	38.4





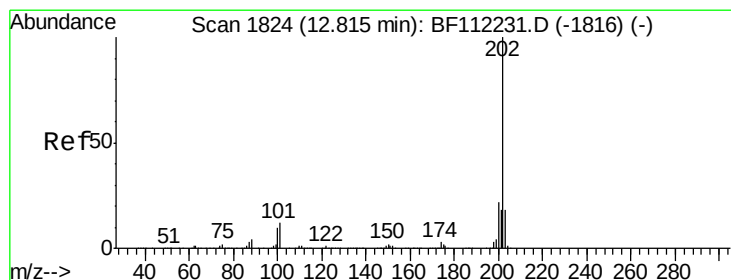
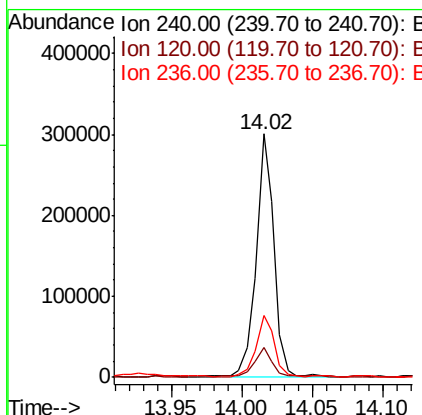
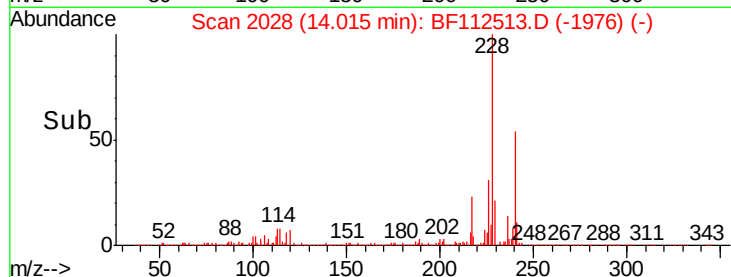
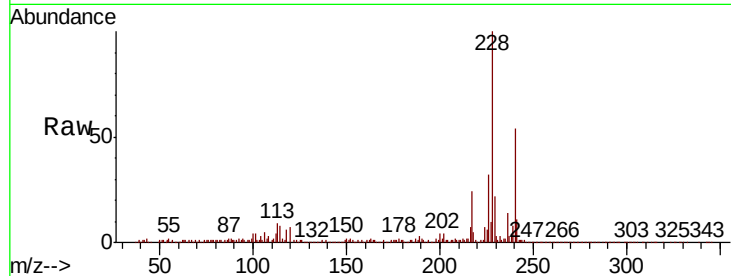
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.02 min Scan# 2028
Delta R.T. 0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.5	9.0	13.6
236	25.4	20.7	31.1

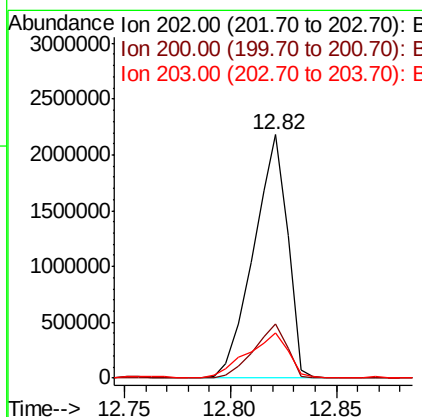
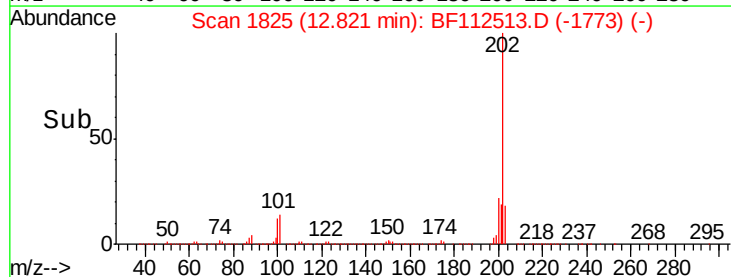
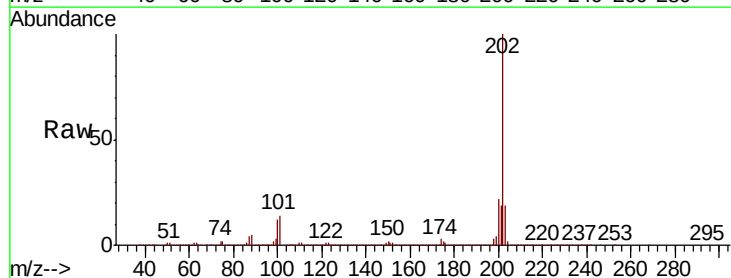
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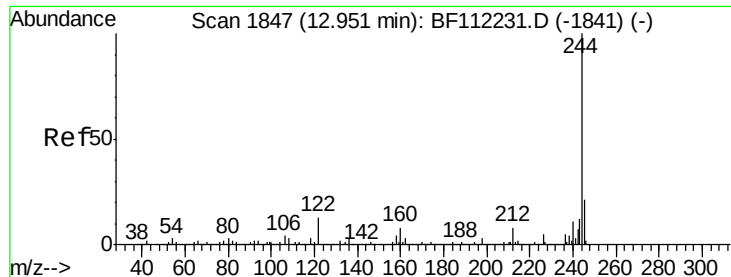
Sohil
2/13/2019 11:12:12 AM



#78
Pyrene
Concen: 132.527 ng
RT: 12.82 min Scan# 1825
Delta R.T. 0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.7	26.5
203	18.8	14.6	22.0





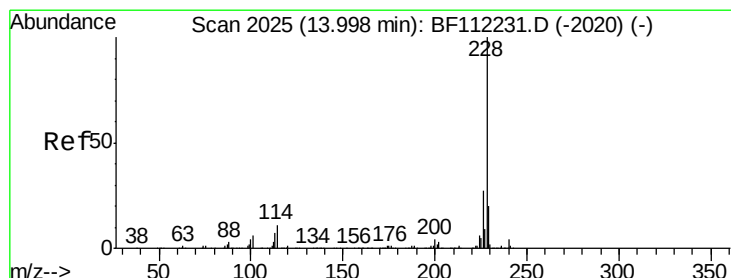
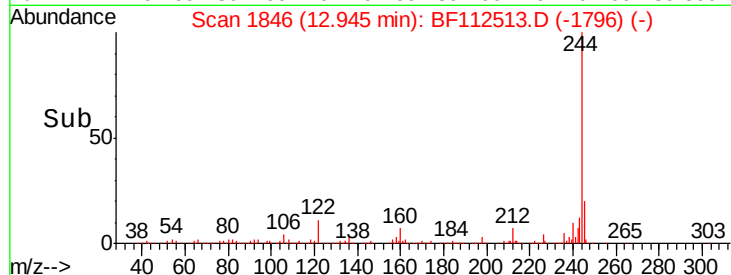
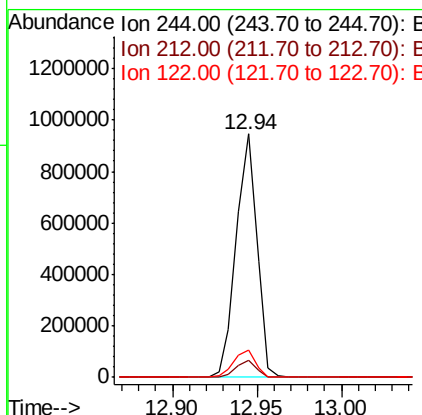
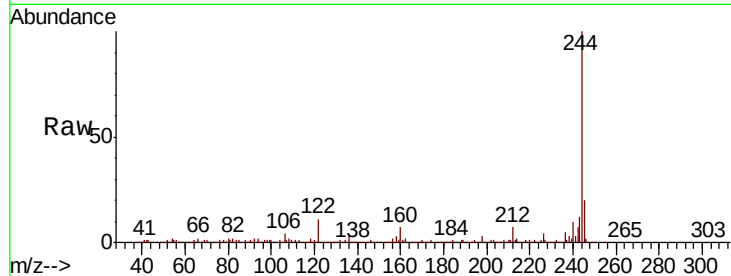
#79
 Terphenyl-d14
 Concen: 57.755 ng
 RT: 12.94 min Scan# 1846
 Delta R.T. -0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-021119

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.9	8.9
122	11.1	9.8	14.6

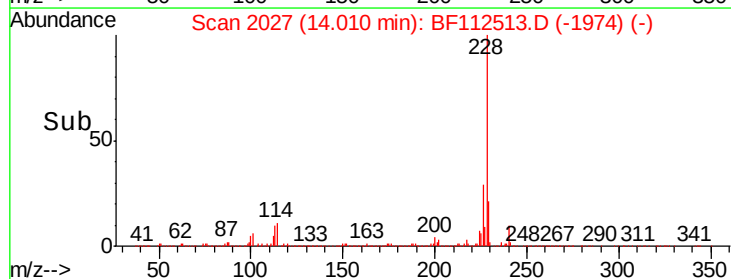
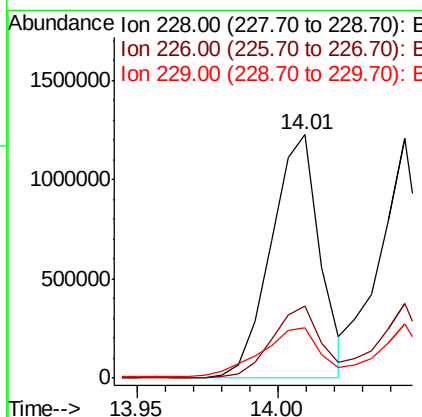
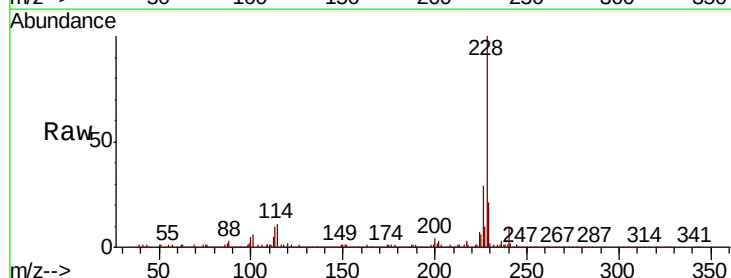
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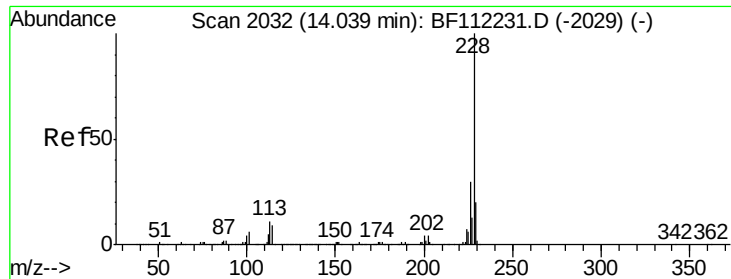
Sohil
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#81
 Benzo(a)anthracene
 Concen: 93.718 ng
 RT: 14.01 min Scan# 2027
 Delta R.T. 0.01 min
 Lab File: BF112513.D
 Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	34.0
229	20.7	16.5	24.7





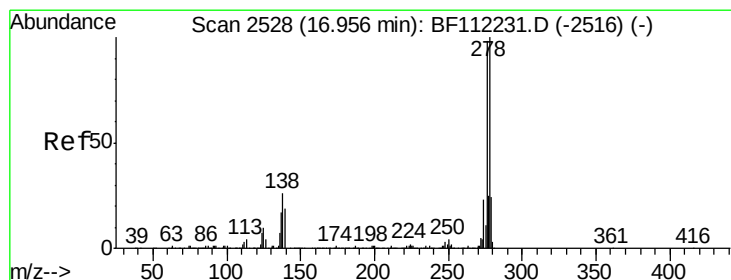
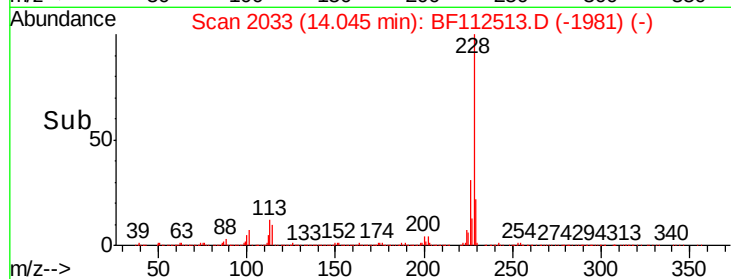
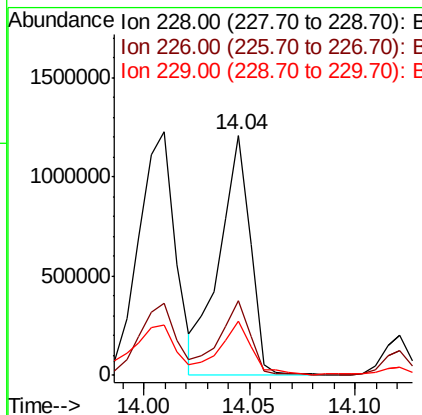
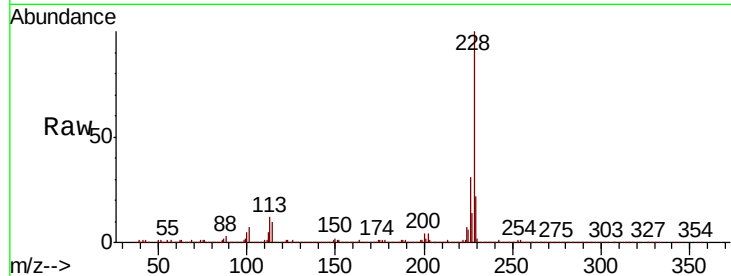
#83
Chrysene
Concen: 81.628 ng
RT: 14.04 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	22.3	16.6	24.8

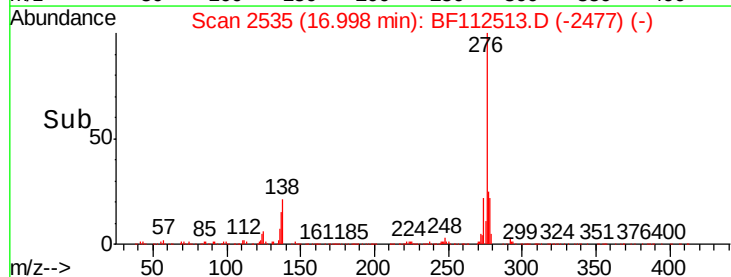
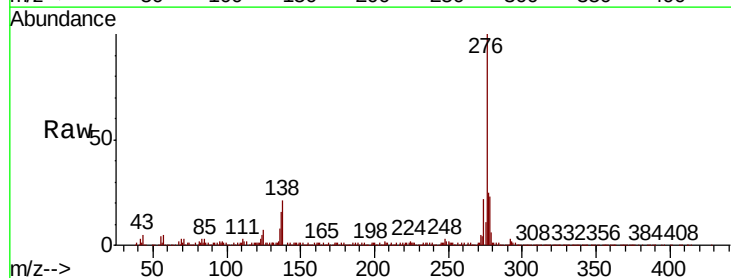
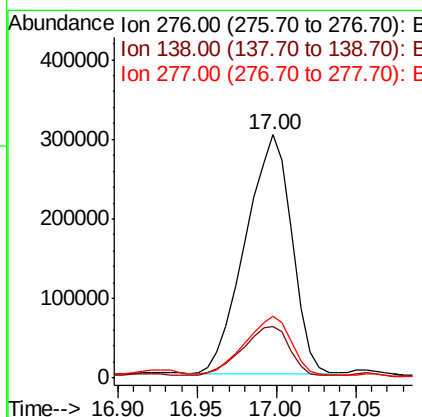
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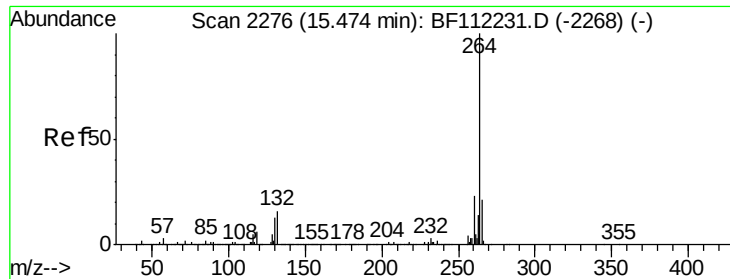
Sohil
2/13/2019 11:12:12 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 51.623 ng
RT: 17.00 min Scan# 2535
Delta R.T. 0.04 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.2	22.6	34.0#
277	24.7	20.3	30.5





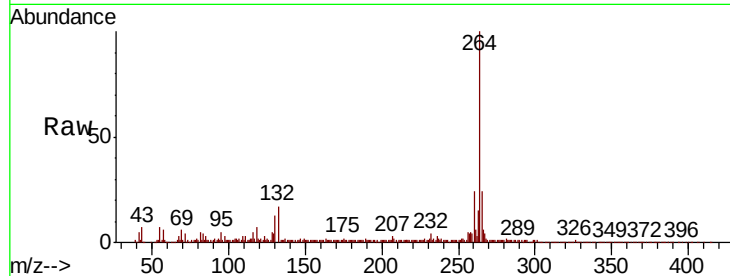
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.02 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.2	27.2
265	24.2	17.0	25.4

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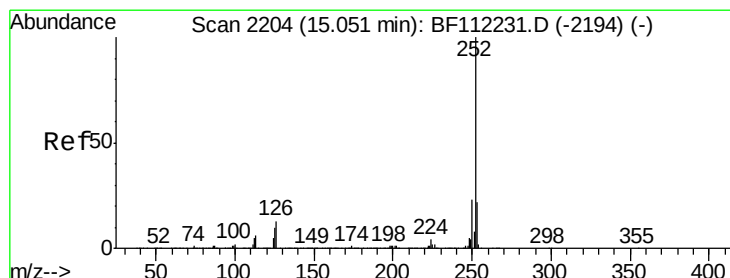
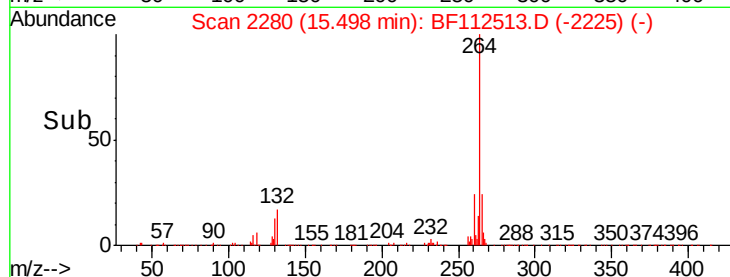
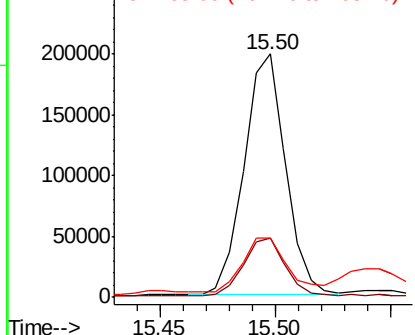


Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88
Benzo(b)fluoranthene
Concen: 118.355 ng m
RT: 15.07 min Scan# 2208
Delta R.T. 0.02 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

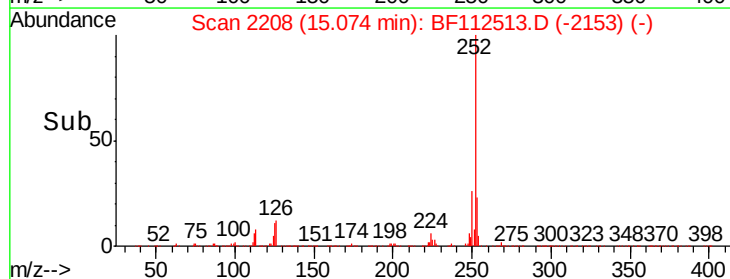
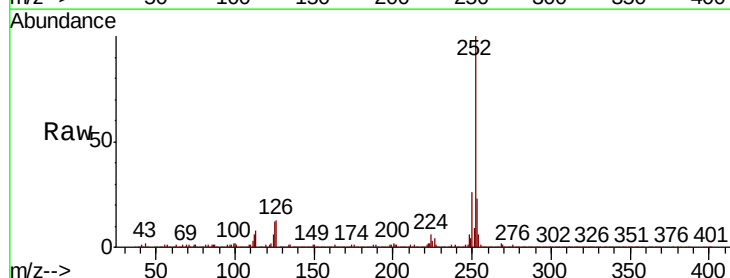
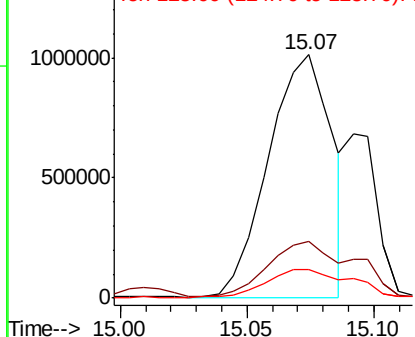
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	18.0	27.0
125	11.9	8.7	13.1

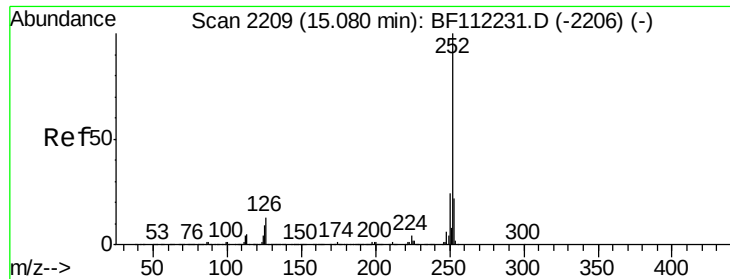
Abundance

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: 39.754 ng m

RT: 15.09 min Scan# 2211

Delta R.T. 0.01 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Instrument :

BNA_F

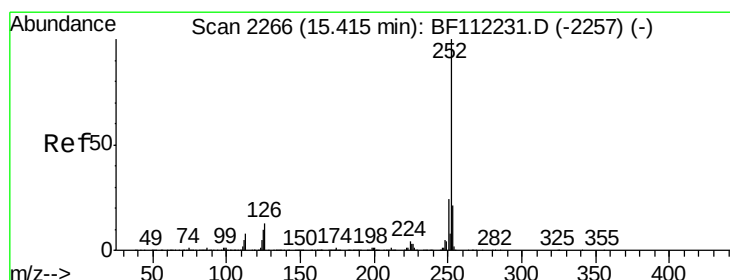
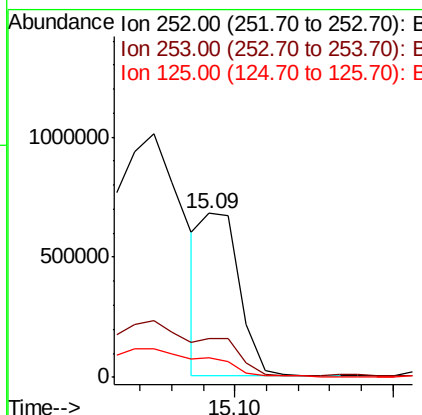
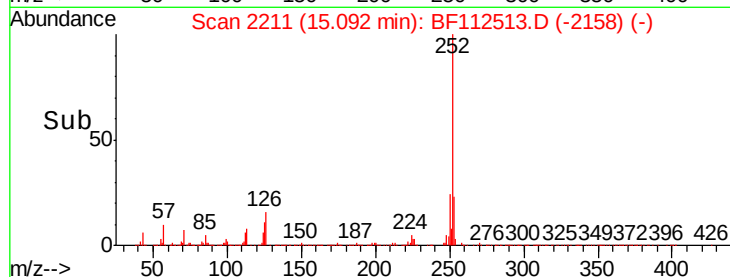
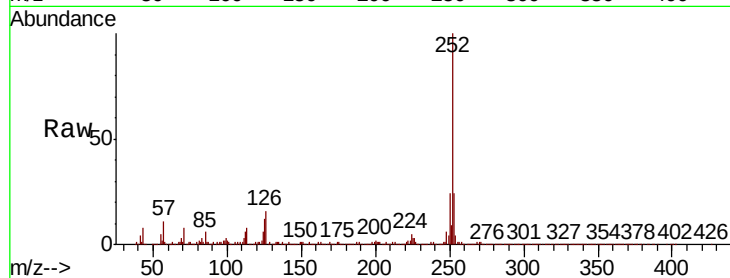
ClientSampled :

HD-02-021119

Tot Ion:	252	Resp:	564758
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.0	27.0
125	11.8	9.1	13.7

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#90

Benzo(a)pyrene

Concen: 93.007 ng

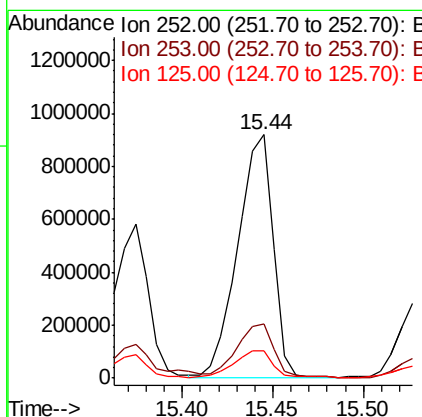
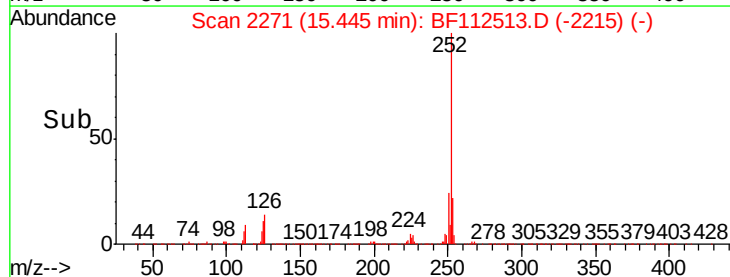
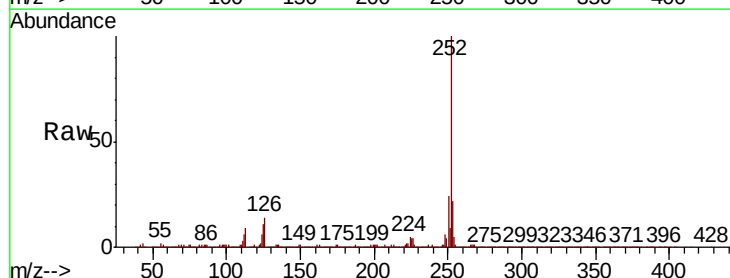
RT: 15.44 min Scan# 2271

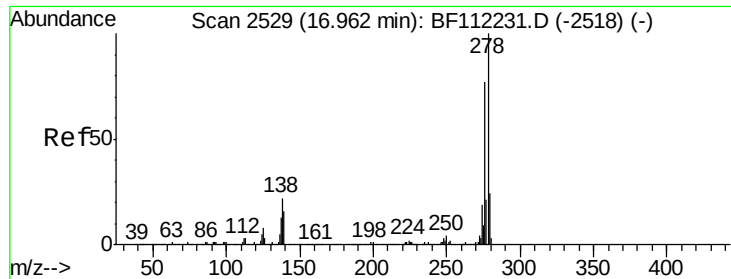
Delta R.T. 0.03 min

Lab File: BF112513.D

Acq: 12 Feb 2019 16:14

Tgt Ion:	252	Resp:	1241192
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.5	26.3
125	11.1	9.0	13.4





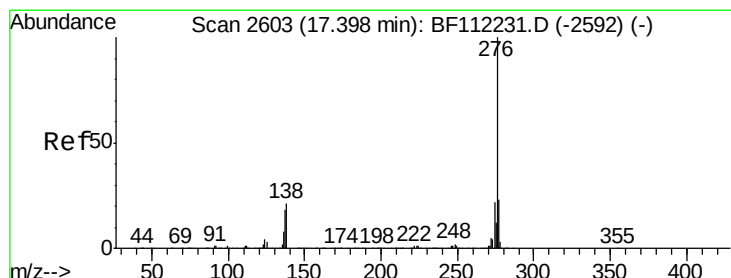
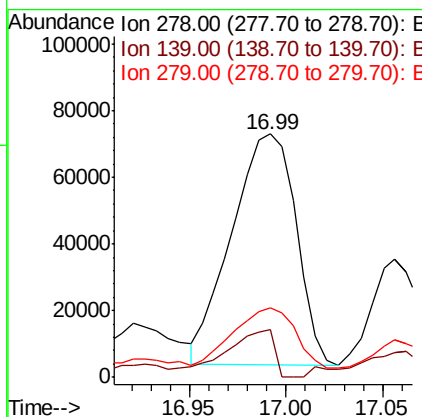
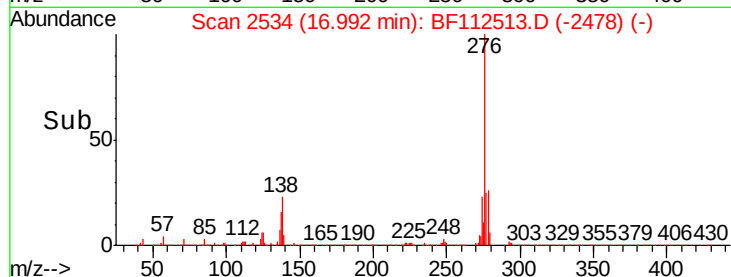
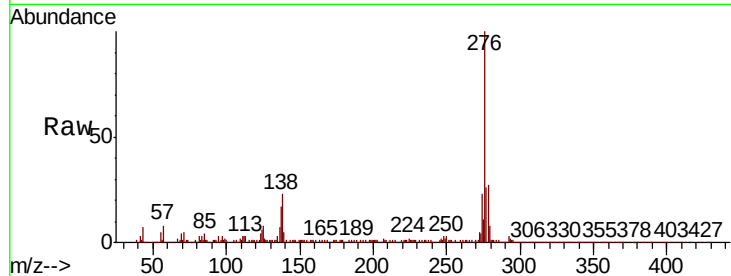
#91
Dibenzo(a,h)anthracene
Concen: 14.910 ng m
RT: 16.99 min Scan# 2534
Delta R.T. 0.03 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Instrument :
BNA_F
ClientSampleId :
HD-02-021119

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.6	13.7	20.5
279	28.8	19.0	28.6

Manual Integrations
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2/13/2019 11:12:12 AM



#92
Benzo(g,h,i)perylene
Concen: 52.939 ng
RT: 17.45 min Scan# 2612
Delta R.T. 0.05 min
Lab File: BF112513.D
Acq: 12 Feb 2019 16:14

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.4	29.0
138	23.3	19.1	28.7

