

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114682.D
 Acq On : 31 May 2019 1:13
 Operator : HP/JU
 Sample : K3002-02 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z2-20190419

Manual Integrations
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mohammad
 6/3/2019 8:47:53 AM

Quant Time: May 31 07:45:20 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 29 19:08:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.70	152	414303	20.00	ng	0.00
21) Naphthalene-d8	7.98	136	1403188	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	666370	20.00	ng	0.00
64) Phenanthrene-d10	11.20	188	1149992	20.00	ng	0.00
76) Chrysene-d12	13.82	240	737407	20.00	ng	0.00
87) Perylene-d12	15.22	264	617532	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.30	112	1431369	60.66	ng	0.00
7) Phenol-d6	6.33	99	1768184	62.18	ng	0.00
23) Nitrobenzene-d5	7.26	82	1037823	46.14	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	327989	51.66	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	1852863	44.63	ng	0.00
79) Terphenyl-d14	12.78	244	1691976	43.14	ng	0.00

Target Compounds

						Qvalue
31) Naphthalene	8.00	128	391981	6.065	ng	96
37) 2-Methylnaphthalene	8.69	142	208064	4.845	ng	98
38) 1-Methylnaphthalene	8.79	142	157536	3.872	ng	100
50) Dimethylphthalate	9.45	163	298113	6.420	ng	# 97
52) Acenaphthene	9.76	154	180758	4.702	ng	98
55) Dibenzofuran	9.93	168	245566	4.487	ng	92
71) Phenanthrene	11.22	178	1085669	18.507	ng	97
72) Anthracene	11.27	178	391067	6.587	ng	97
75) Fluoranthene	12.40	202	1765872	29.071	ng	99
78) Pyrene	12.63	202	1619839	25.968	ng	98
81) Benzo(a)anthracene	13.81	228	648812	11.450	ng	98
83) Chrysene	13.84	228	587138	10.845	ng	95
86) Indeno(1,2,3-cd)pyrene	16.54	276	242318	4.469	ng	95
88) Benzo(b)fluoranthene	14.82	252	612617m	15.751	ng	
89) Benzo(k)fluoranthene	14.84	252	197636m	5.846	ng	
90) Benzo(a)pyrene	15.16	252	404234	11.831	ng	# 94
91) Dibenzo(a,h)anthracene	16.55	278	66646	2.207	ng	# 67
92) Benzo(g,h,i)perylene	16.94	276	230584	7.869	ng	96

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

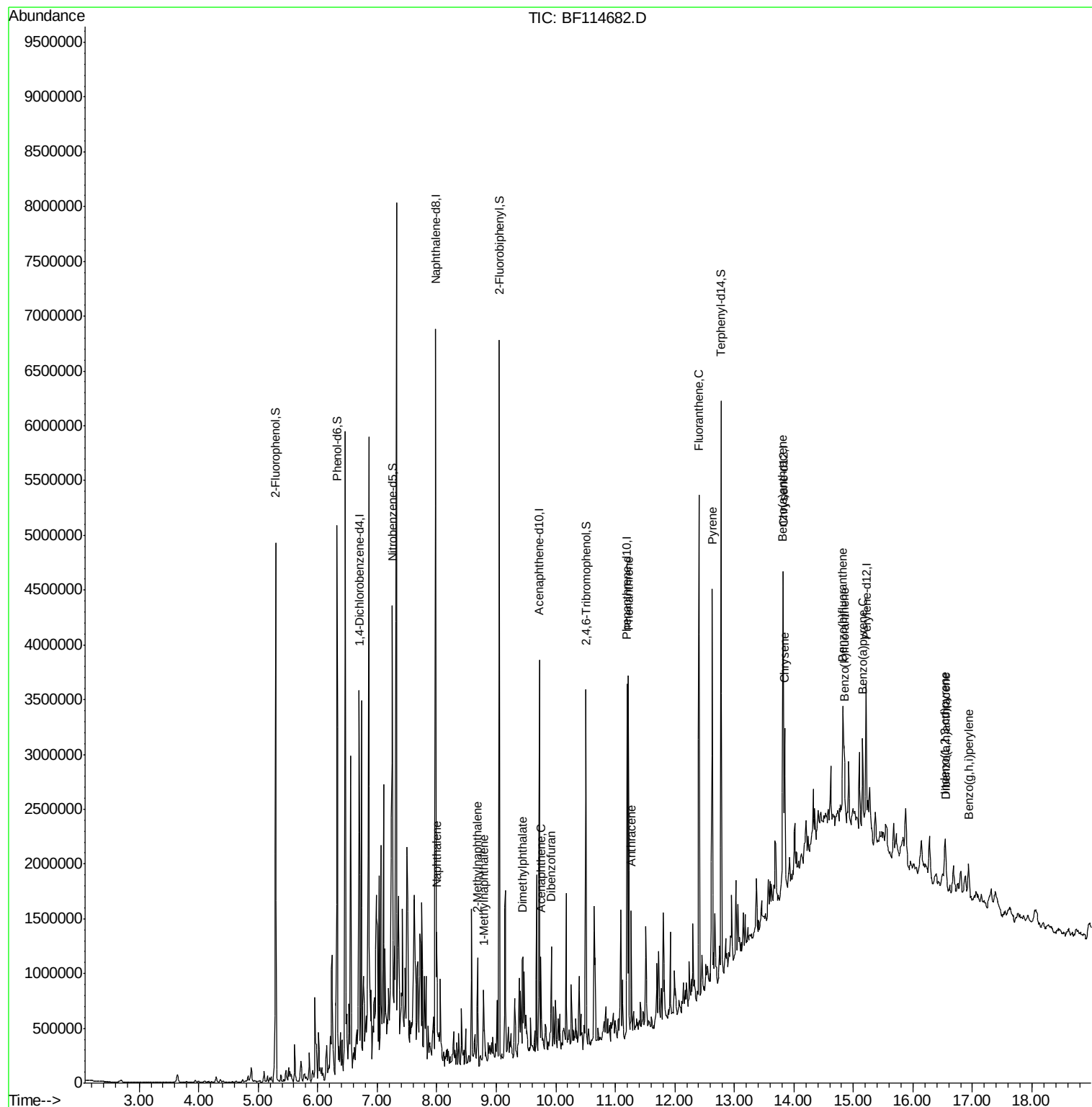
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
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ALS Vial : 15 Sample Multiplier: 1

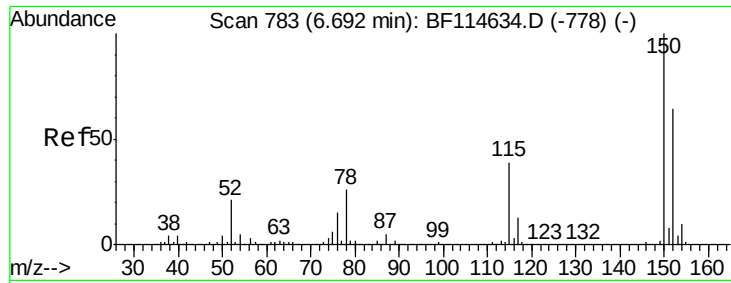
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

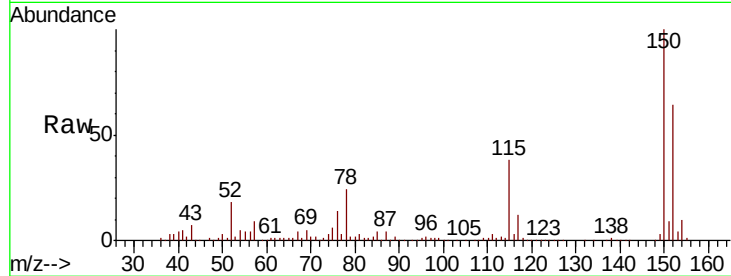
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.70 min Scan# 784
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.7	124.4	186.6
115	59.5	48.7	73.1

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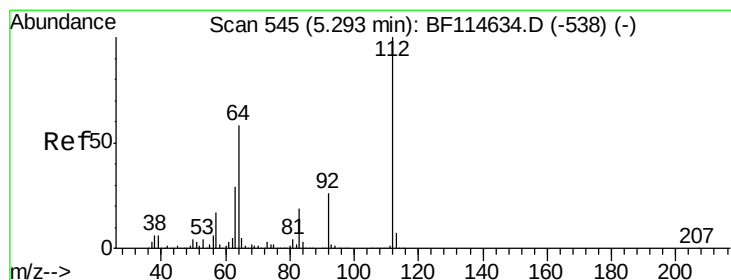
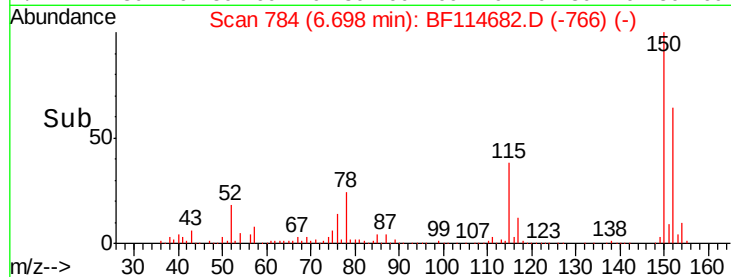
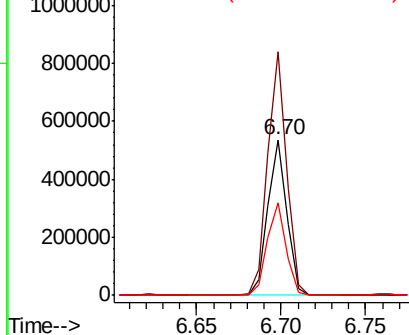


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

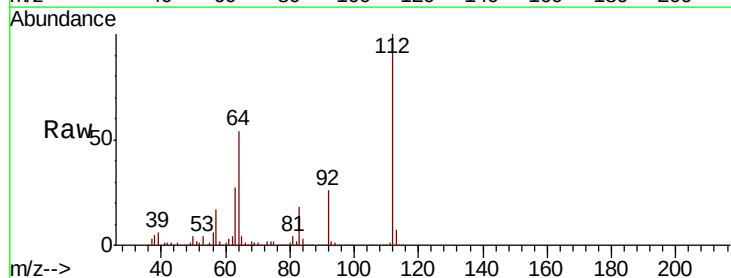
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 60.658 ng
RT: 5.30 min Scan# 546
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	46.1	69.1
63	27.4	23.4	35.2

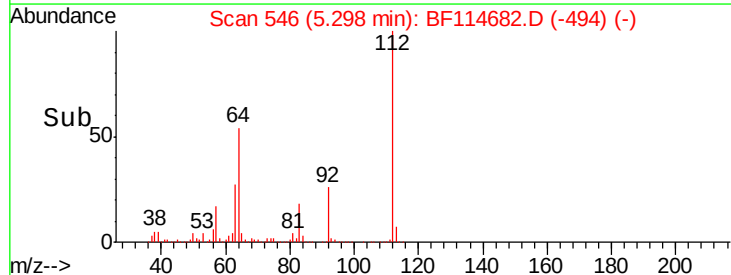
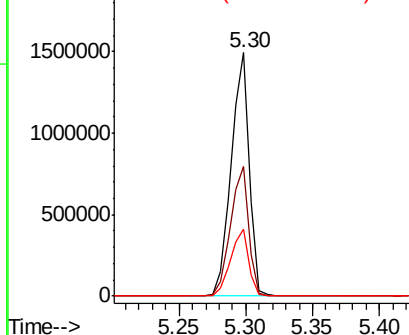


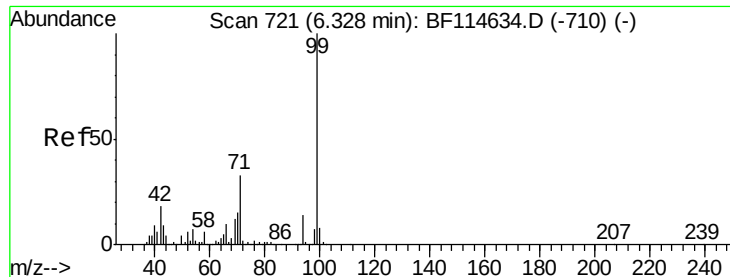
Abundance

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: 62.182 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

COMP-Z2-20190419

Tot Ion: 99 Resp: 1768184

Ion Ratio Lower Upper

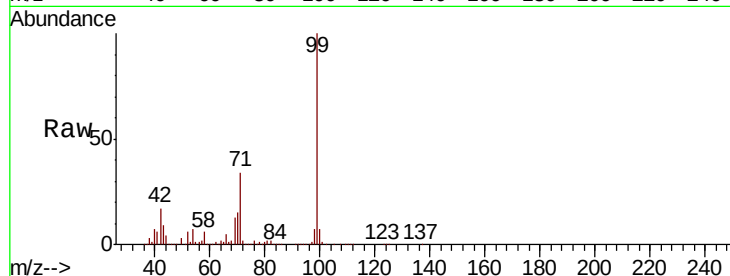
99 100

42 17.4 14.7 22.1

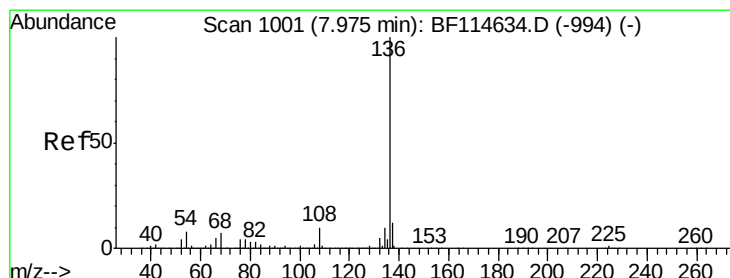
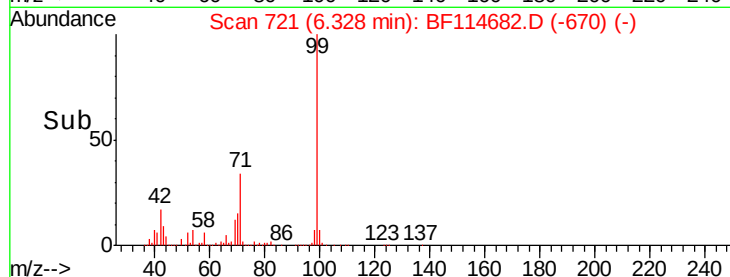
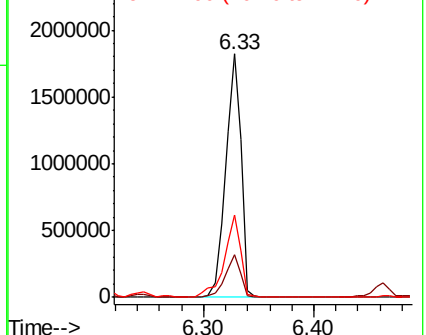
71 33.9 26.6 40.0

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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: 7.98 min Scan# 1002

Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Tgt Ion: 136 Resp: 1403188

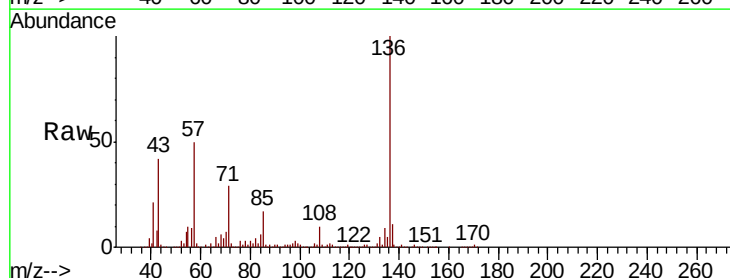
Ion Ratio Lower Upper

136 100

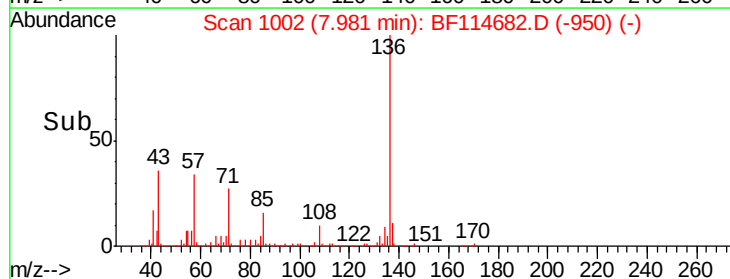
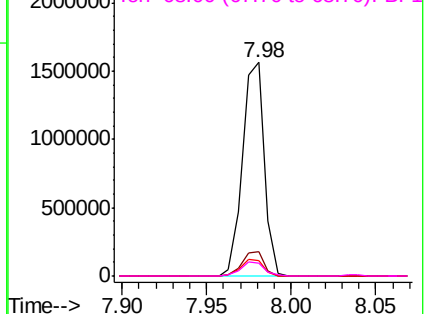
137 11.4 9.3 13.9

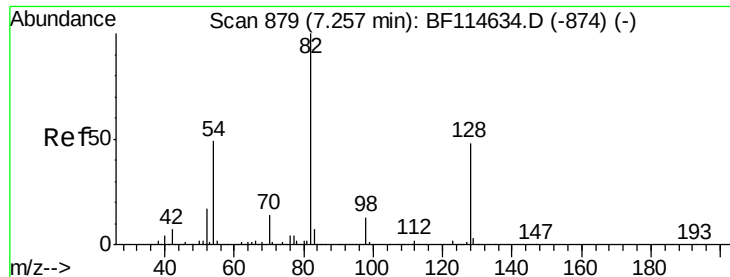
54 7.2 6.3 9.5

68 5.9 5.4 8.0



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: 46.144 ng

RT: 7.26 min Scan# 879

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

COMP-Z2-20190419

Tot Ion: 82 Resp: 1037823

Ion Ratio Lower Upper

82 100

128 51.2 38.5 57.7

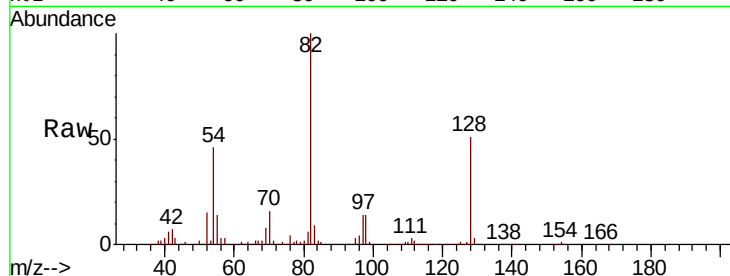
54 45.8 39.1 58.7

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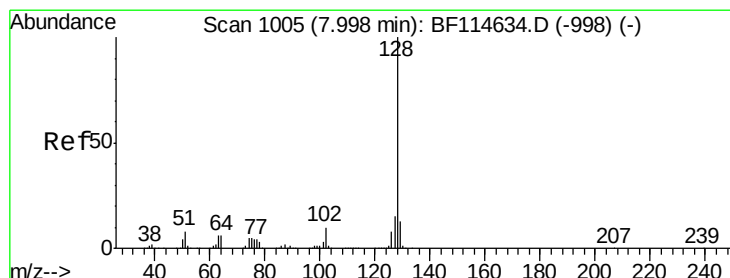
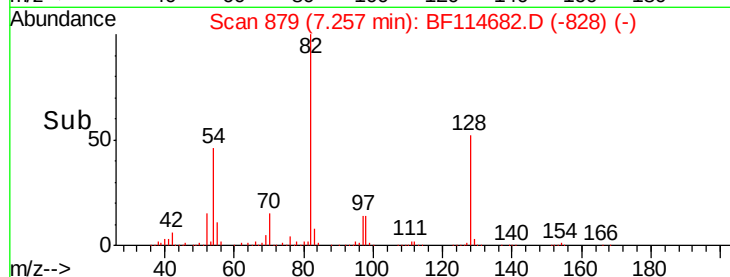
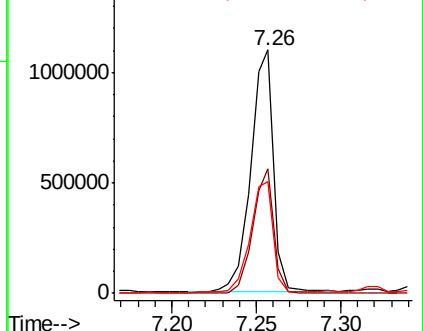
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Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 6.065 ng

RT: 8.00 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

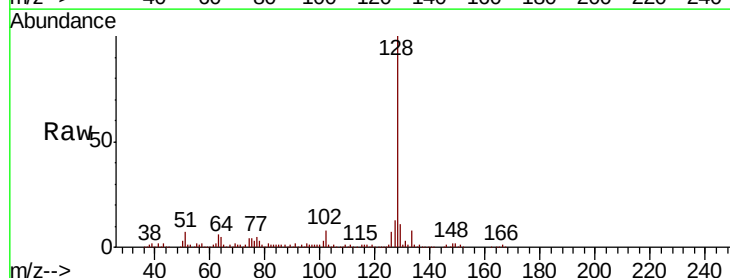
Tgt Ion: 128 Resp: 391981

Ion Ratio Lower Upper

128 100

129 11.3 10.2 15.2

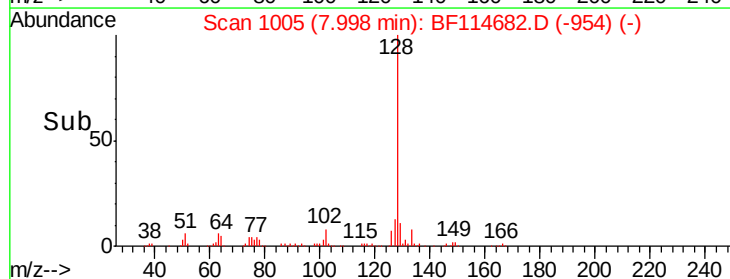
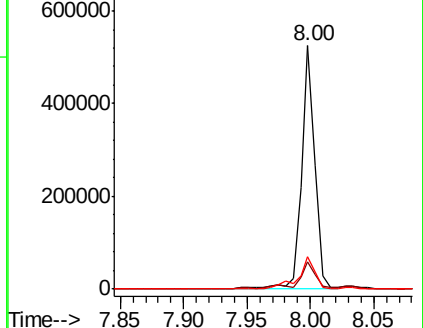
127 13.1 11.9 17.9

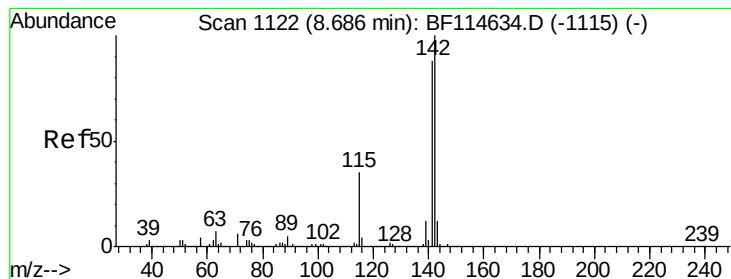


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#37

2-Methylnaphthalene

Concen: 4.845 ng

RT: 8.69 min Scan# 1122

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

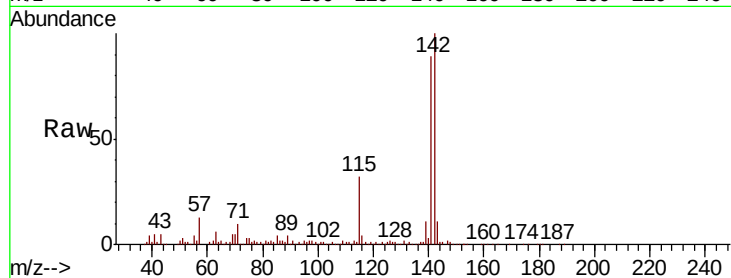
ClientSampleId :

COMP-Z2-20190419

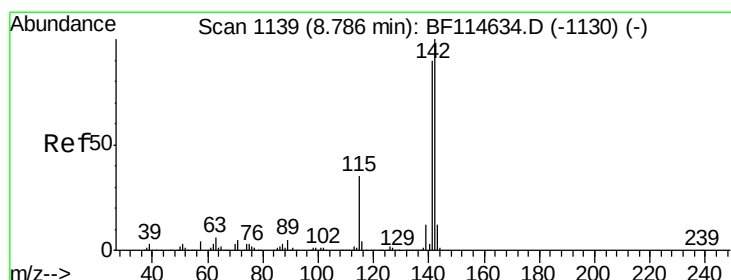
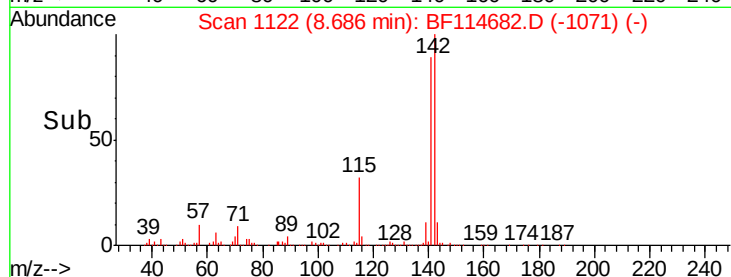
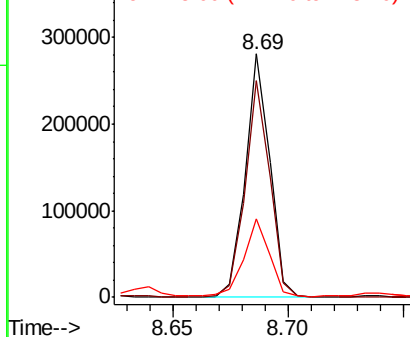
Tot Ion:	142	Resp:	208064
Ion Ratio	Lower	Upper	
142	100		
141	88.8	70.3	105.5
115	32.1	28.0	42.0

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Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

1-Methylnaphthalene

Concen: 3.872 ng

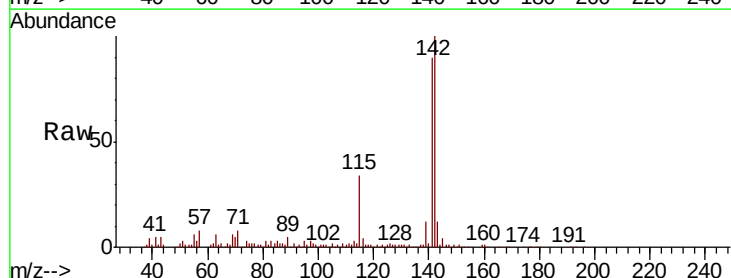
RT: 8.79 min Scan# 1139

Delta R.T. -0.00 min

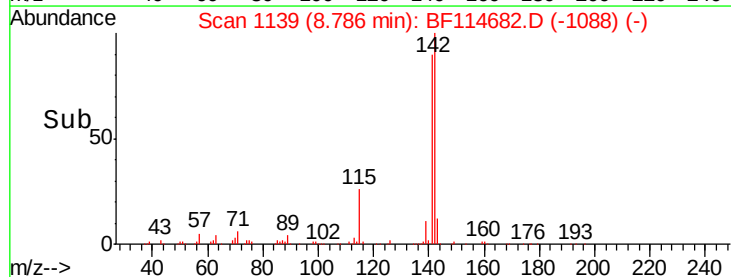
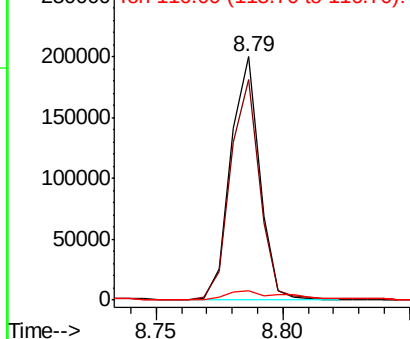
Lab File: BF114682.D

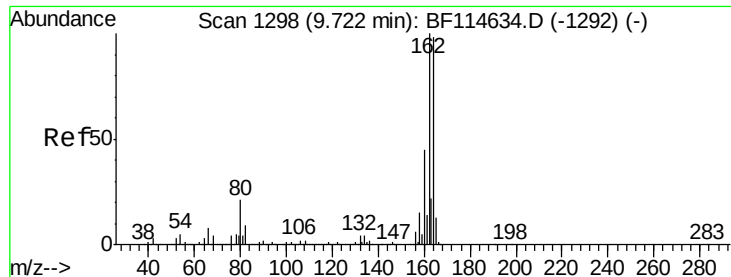
Acq: 31 May 2019 1:13

Tgt Ion:	142	Resp:	157536
Ion Ratio	Lower	Upper	
142	100		
141	90.4	72.3	108.5
116	3.8	3.0	4.4



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 116.00 (115.70 to 116.70): E





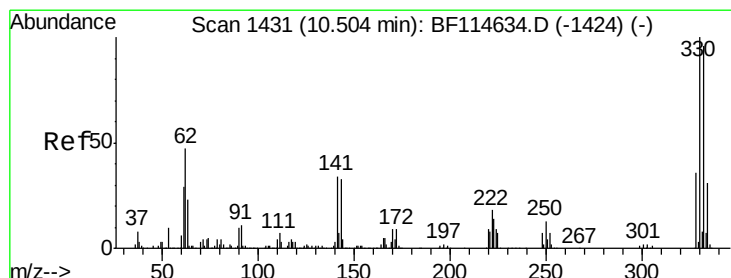
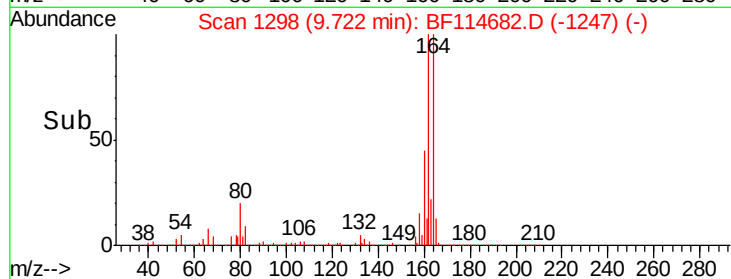
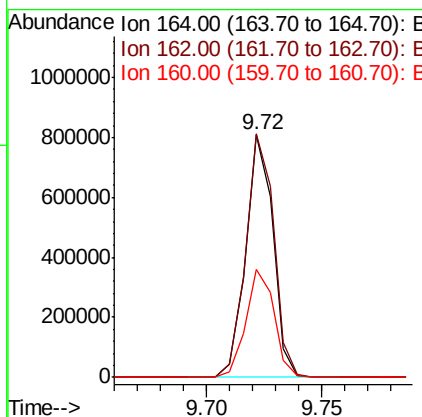
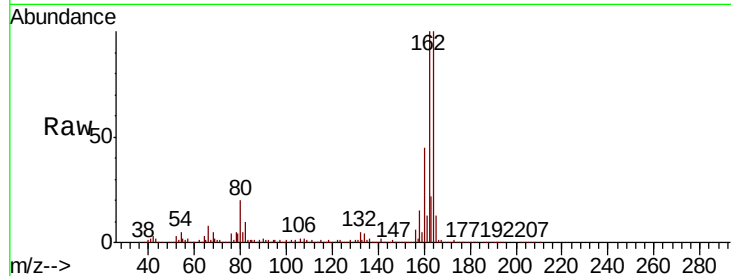
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Resp	Lower	Upper
164	100	666370		
162	100.4		81.4	122.2
160	44.7		36.6	54.8

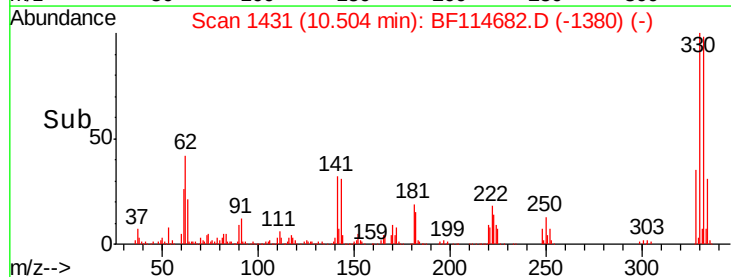
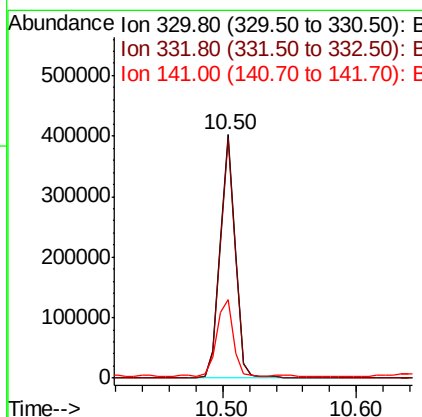
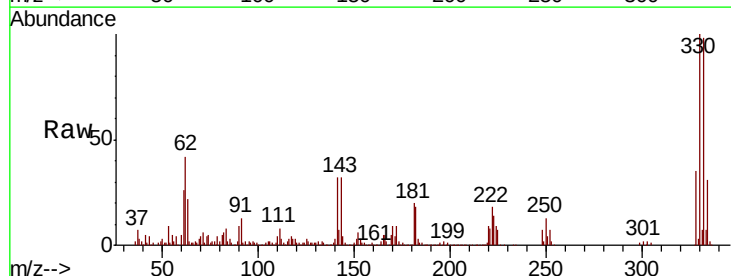
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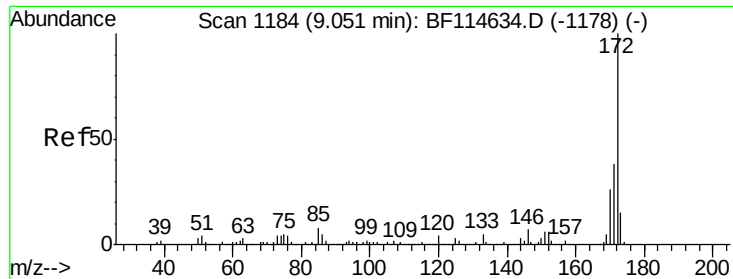
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#42
2,4,6-Tribromophenol
Concen: 51.656 ng
RT: 10.50 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	327989		
332	97.3		75.8	113.8
141	34.6		27.8	41.8





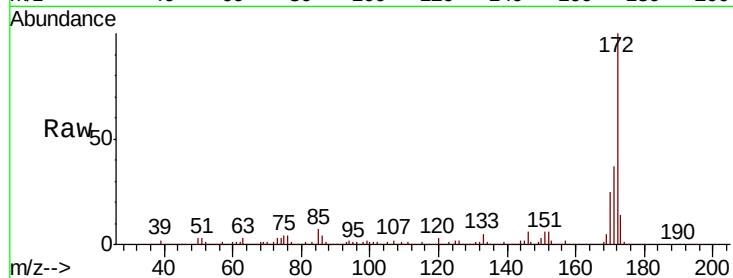
#45
2-Fluorobiphenyl
Concen: 44.632 ng
RT: 9.05 min Scan# 1184
Delta R.T. 0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
172	100		
171	37.5	30.6	45.8
170	25.4	20.7	31.1

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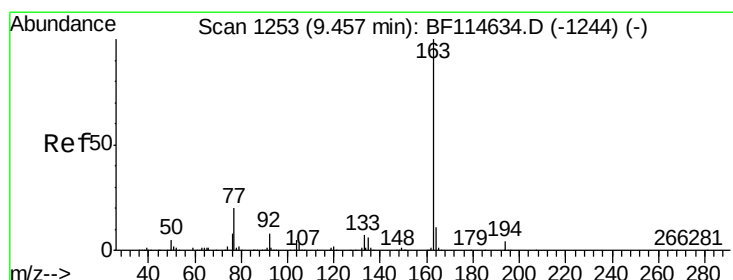
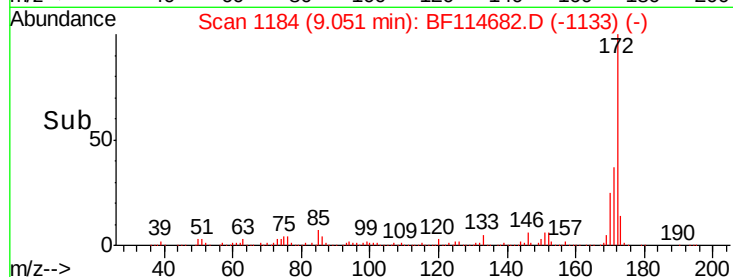
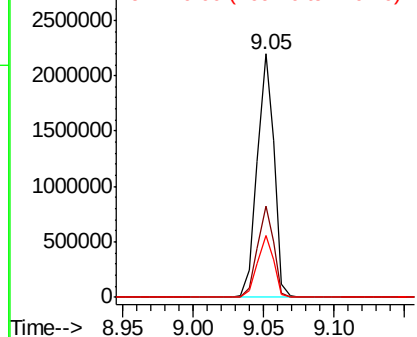


Abundance

Ion 172.00 (171.70 to 172.70): E

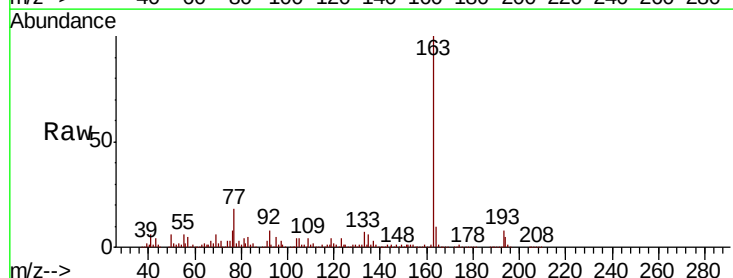
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50
Dimethylphthalate
Concen: 6.420 ng
RT: 9.45 min Scan# 1251
Delta R.T. -0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.1	3.4	5.0#
164	9.6	8.6	13.0

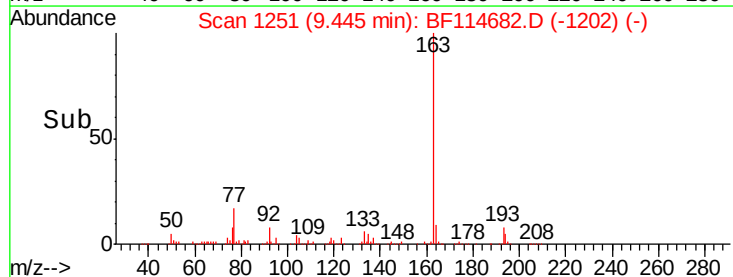
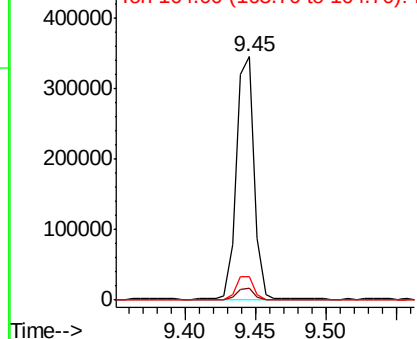


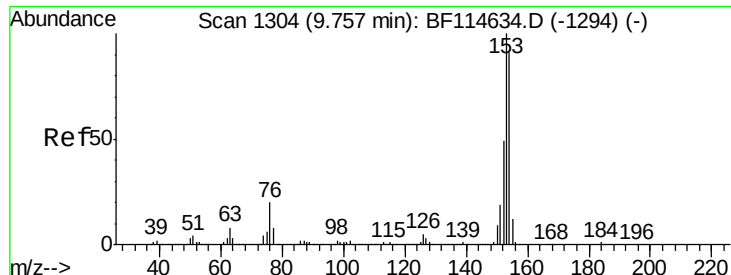
Abundance

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





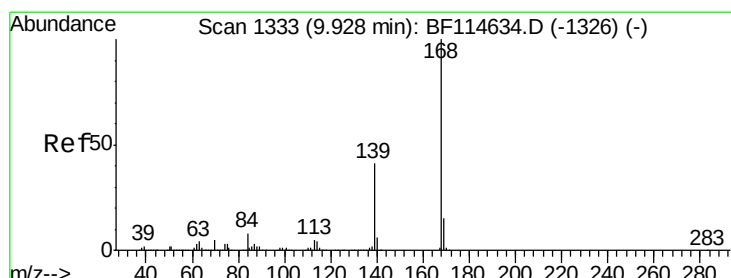
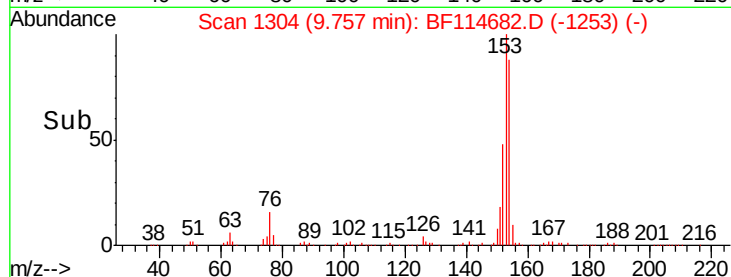
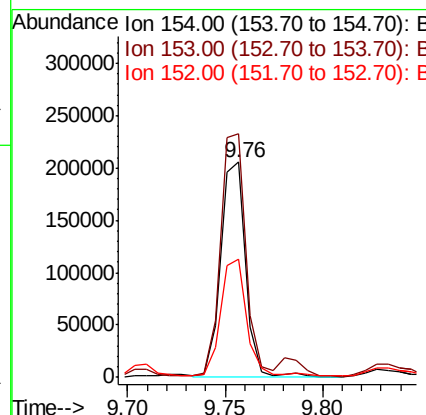
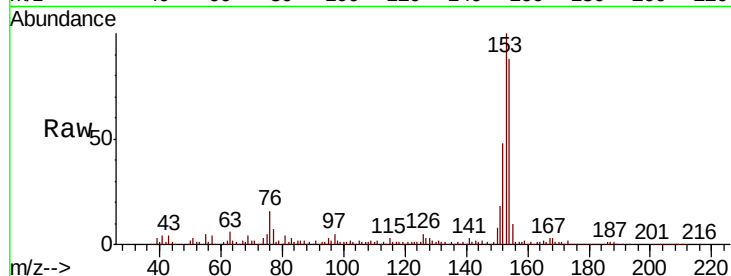
#52
Acenaphthene
Concen: 4.702 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Resp	Lower	Upper
154	100	180758		
153	113.2	88.4	132.6	
152	54.9	43.4	65.0	

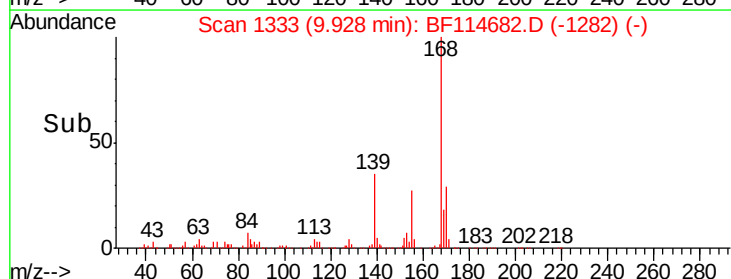
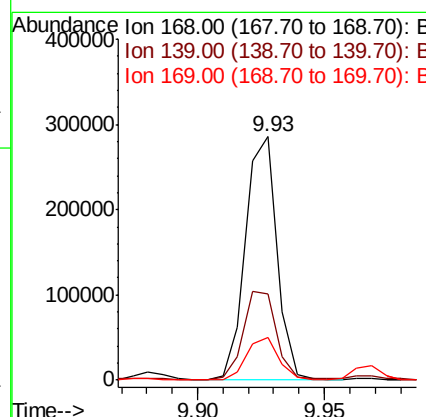
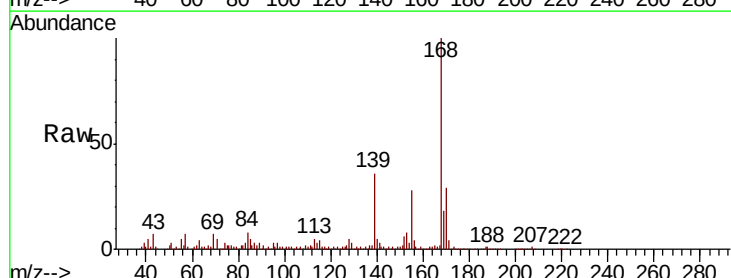
Manual Integrations
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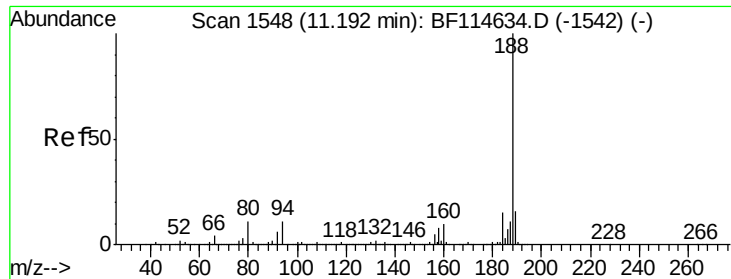
mohammad
6/3/2019 8:47:53 AM



#55
Dibenzofuran
Concen: 4.487 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	245566		
139	35.5	32.6	48.8	
169	17.7	11.8	17.8	





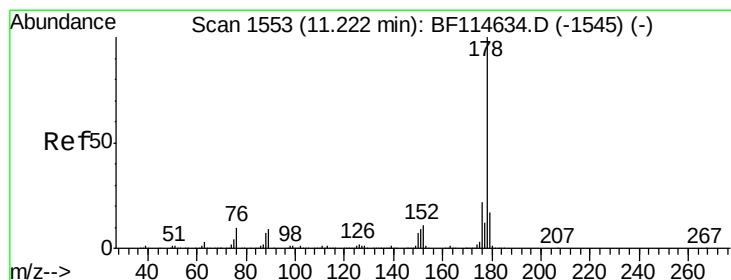
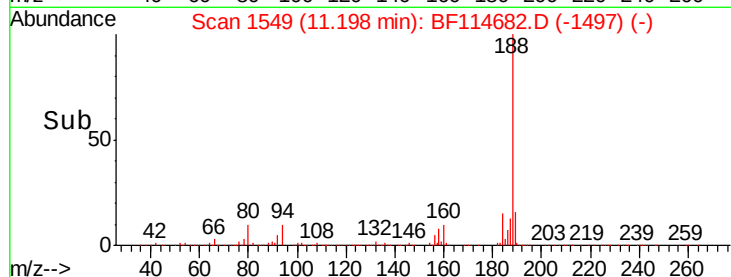
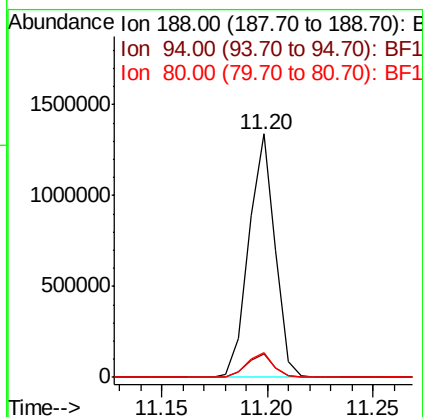
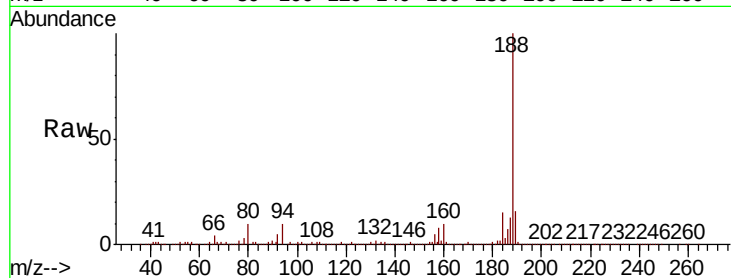
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.20 min Scan# 1549
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.6	13.0
80	10.0	9.0	13.6

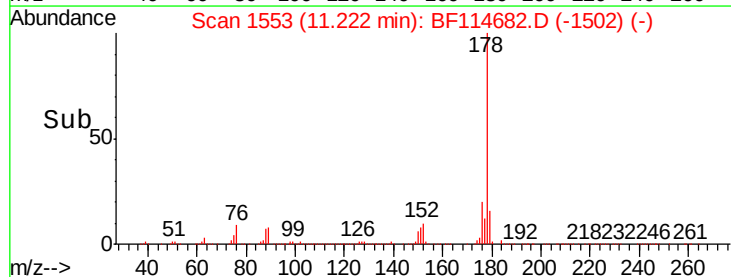
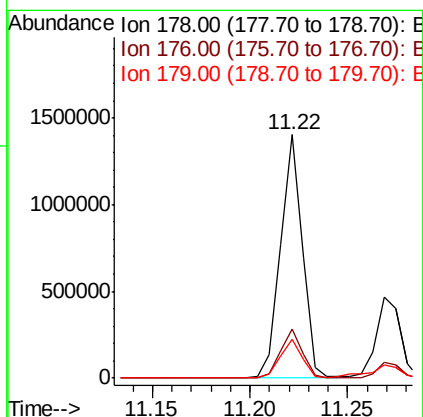
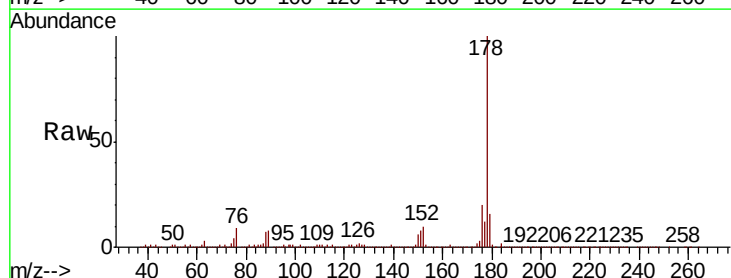
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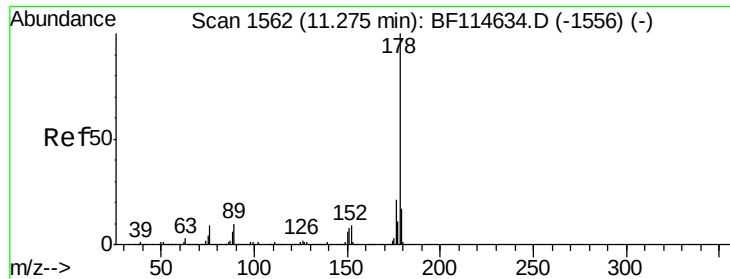
mohammad
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#71
Phenanthrene
Concen: 18.507 ng
RT: 11.22 min Scan# 1553
Delta R.T. 0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.0	17.2	25.8
179	16.1	13.9	20.9





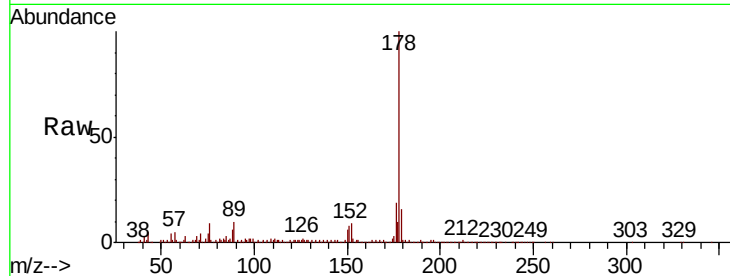
#72
 Anthracene
 Concen: 6.587 ng
 RT: 11.27 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Instrument :
 BNA_F
 ClientSampleId :
 COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	24.8
179	15.9	13.4	20.0

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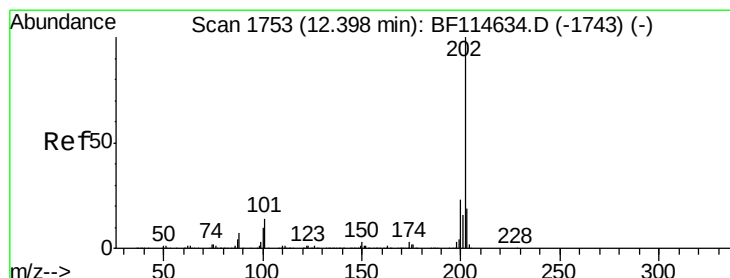
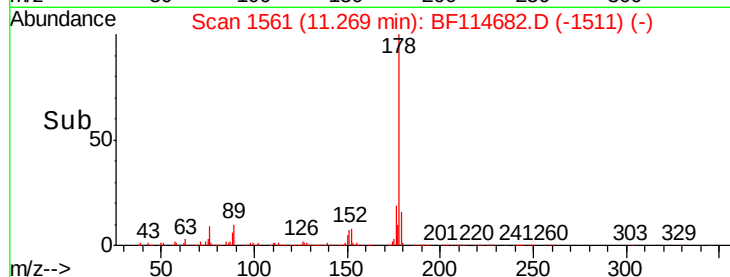
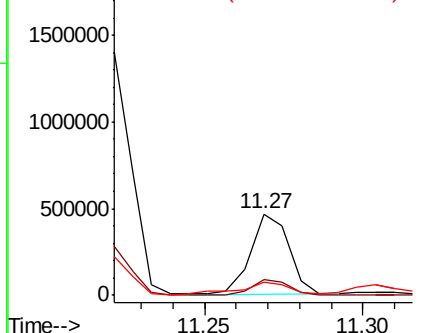


Abundance

Ion 178.00 (177.70 to 178.70): E

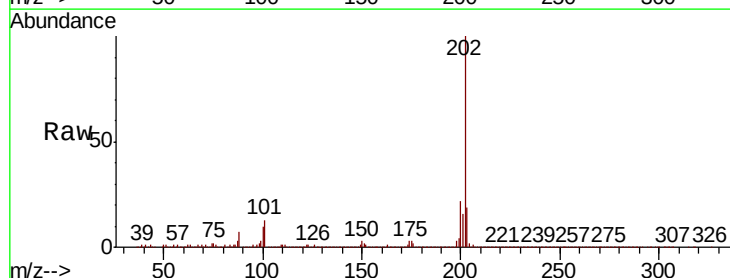
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75
 Fluoranthene
 Concen: 29.071 ng
 RT: 12.40 min Scan# 1754
 Delta R.T. 0.01 min
 Lab File: BF114682.D
 Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	33.9
203	18.6	0.0	39.1

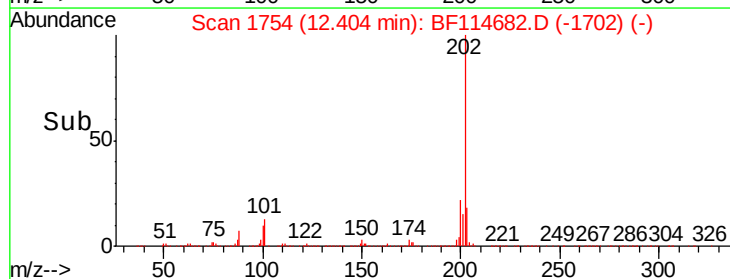
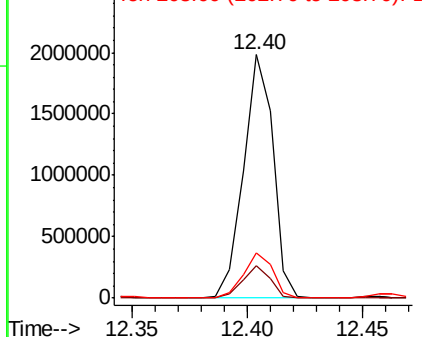


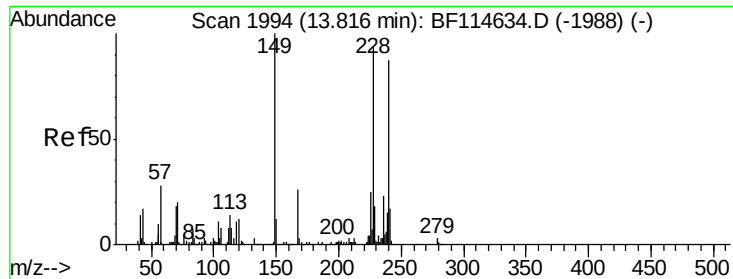
Abundance

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





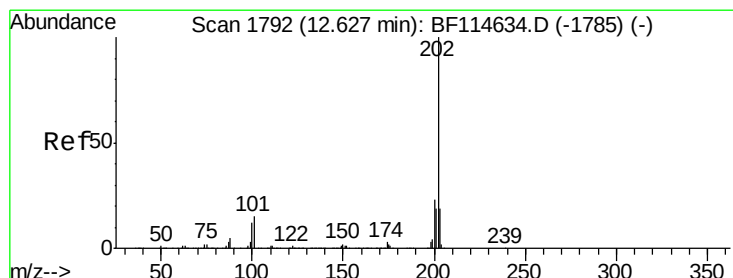
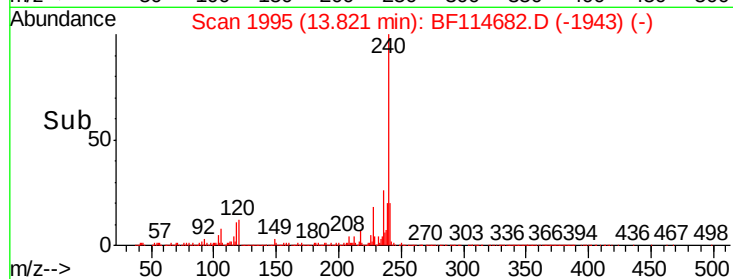
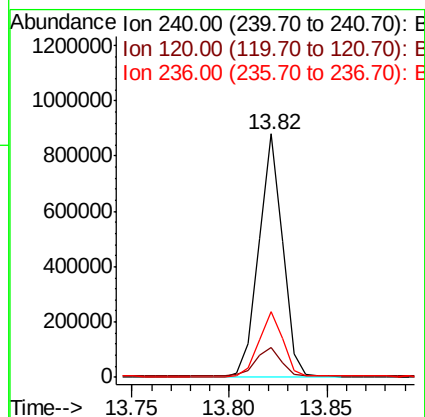
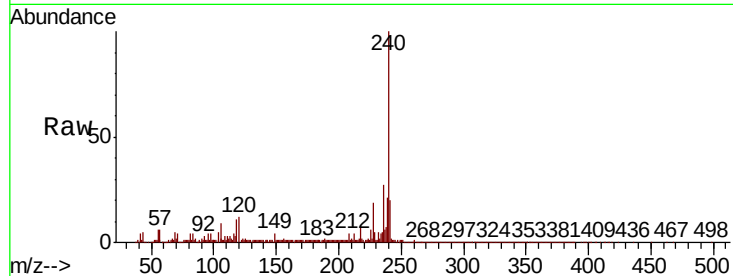
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.82 min Scan# 1995
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.5	11.2	16.8
236	26.9	21.2	31.8

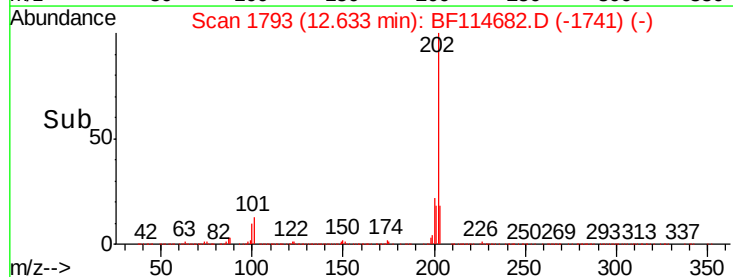
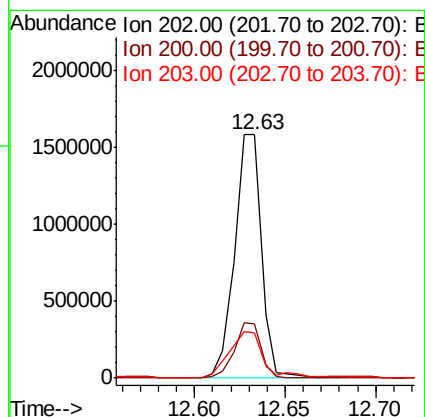
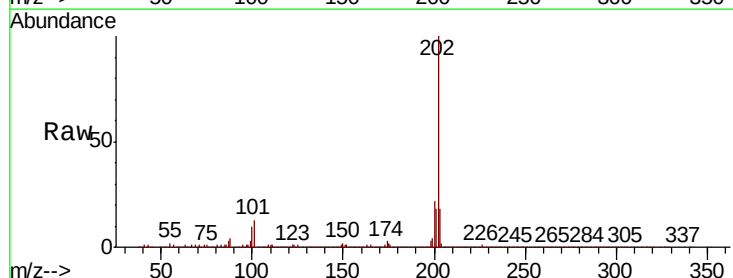
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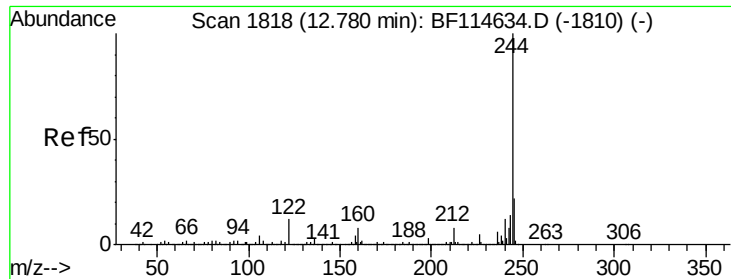
mohammad
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#78
Pyrene
Concen: 25.968 ng
RT: 12.63 min Scan# 1793
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.1	18.6	28.0
203	18.4	15.4	23.2





#79

Terphenyl-d14

Concen: 43.140 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

ClientSampleId :

COMP-Z2-20190419

Tot Ion:244 Resp: 1691976

Ion Ratio Lower Upper

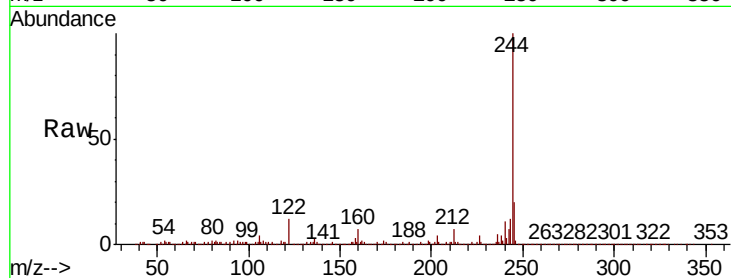
244 100

212 7.0 6.1 9.1

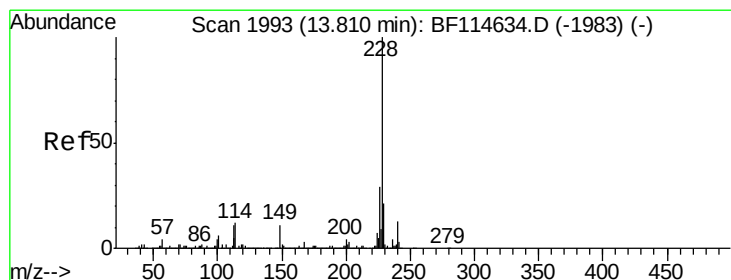
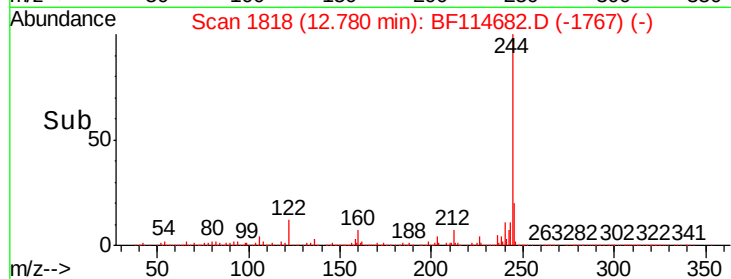
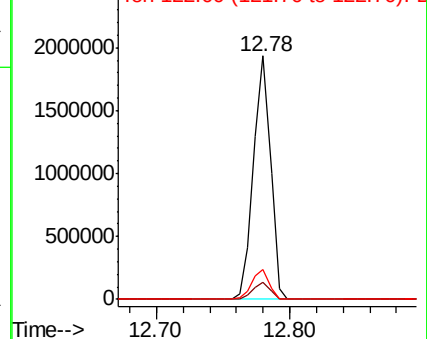
122 12.1 9.8 14.8

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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: 11.450 ng

RT: 13.81 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

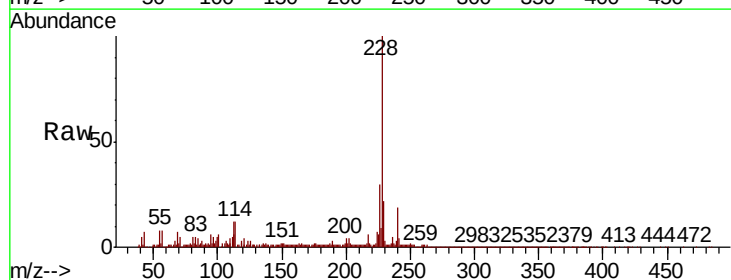
Tgt Ion:228 Resp: 648812

Ion Ratio Lower Upper

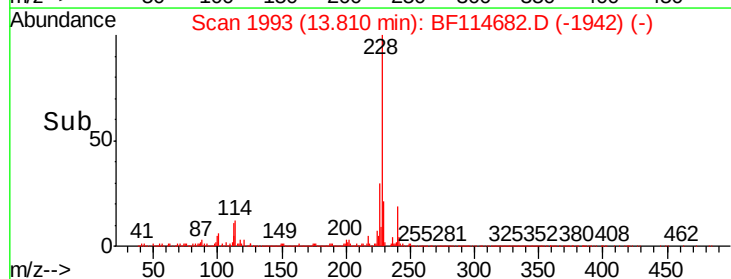
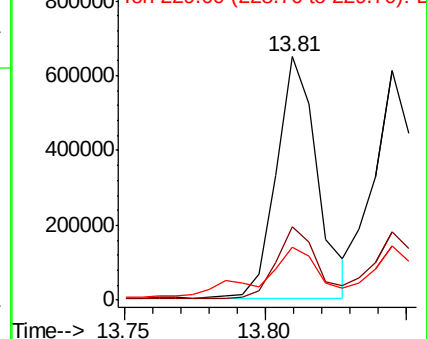
228 100

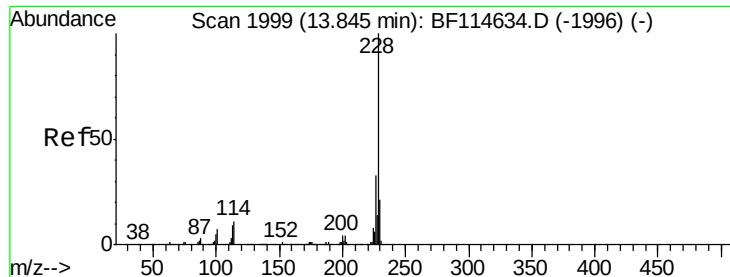
226 30.3 23.0 34.6

229 21.8 17.0 25.4



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: 10.845 ng

RT: 13.84 min Scan# 1999

Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

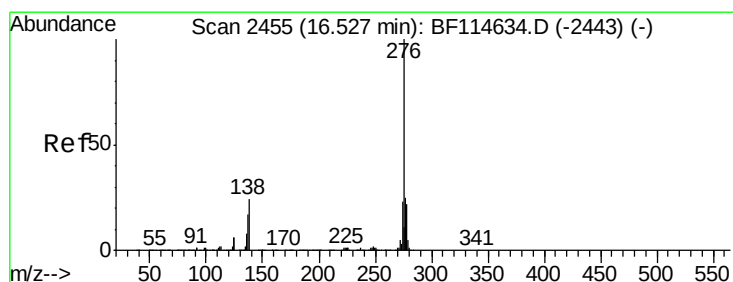
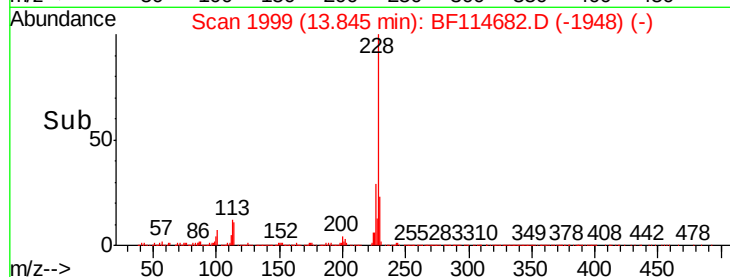
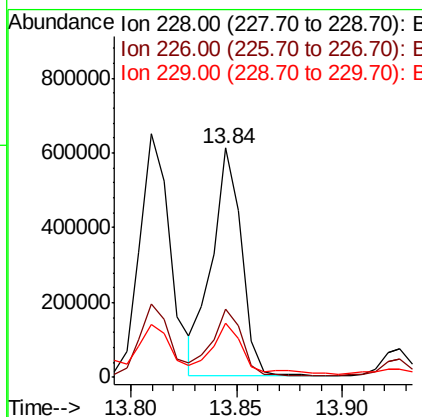
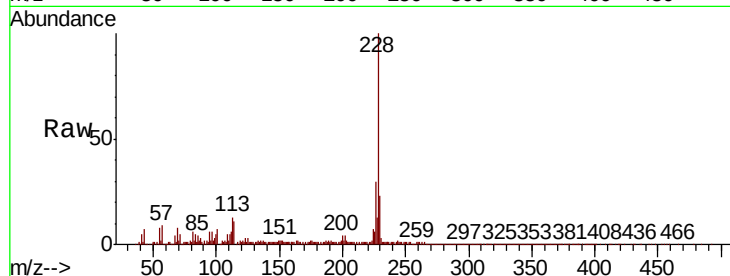
ClientSampleId :

COMP-Z2-20190419

Tot Ion:	228	Resp:	587138
Ion Ratio	Lower	Upper	
228	100		
226	29.9	26.4	39.6
229	23.4	17.1	25.7

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#86

Indeno(1,2,3-cd)pyrene

Concen: 4.469 ng

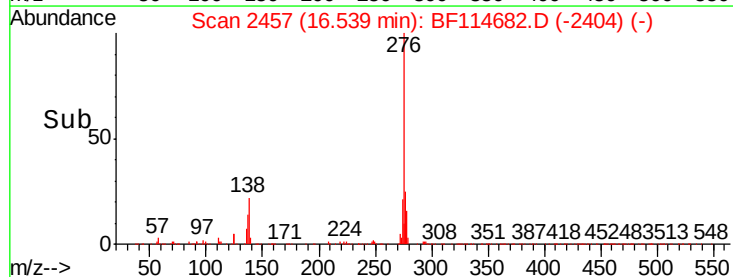
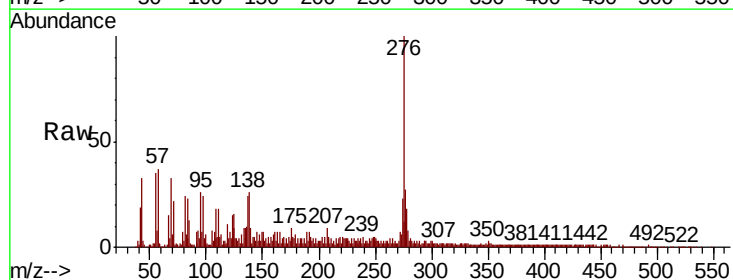
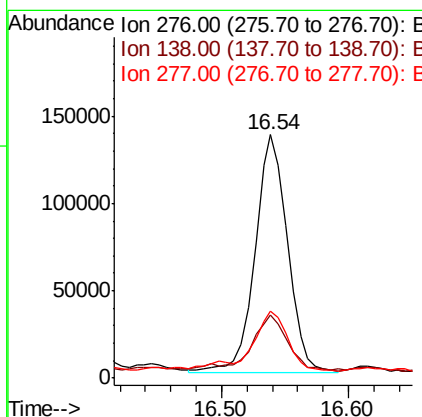
RT: 16.54 min Scan# 2457

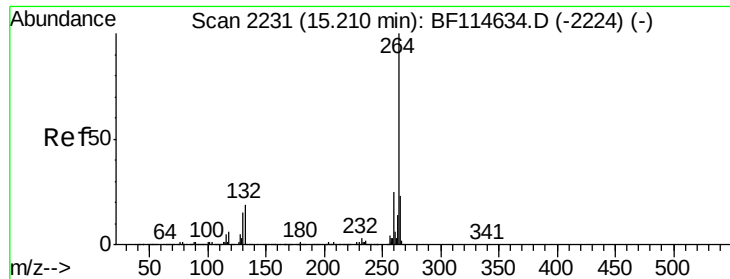
Delta R.T. 0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Tgt Ion:	276	Resp:	242318
Ion Ratio	Lower	Upper	
276	100		
138	24.4	23.0	34.6
277	24.9	20.5	30.7





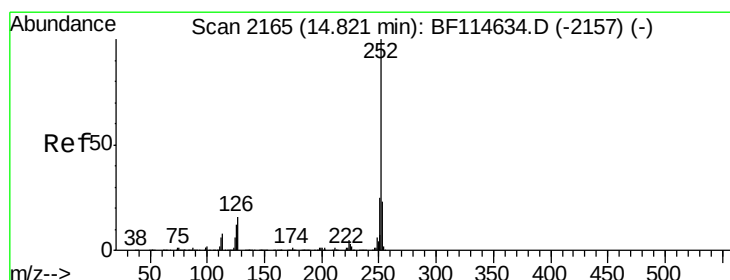
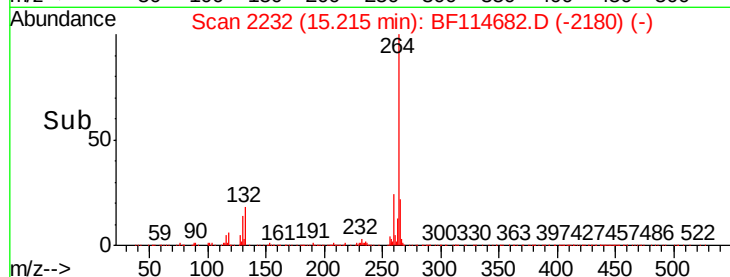
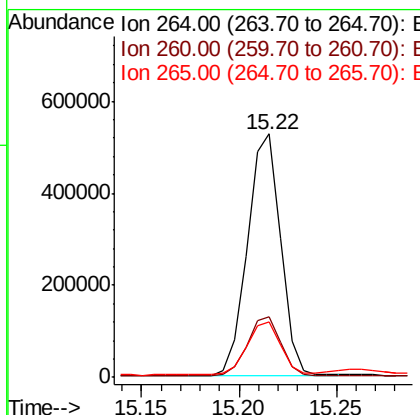
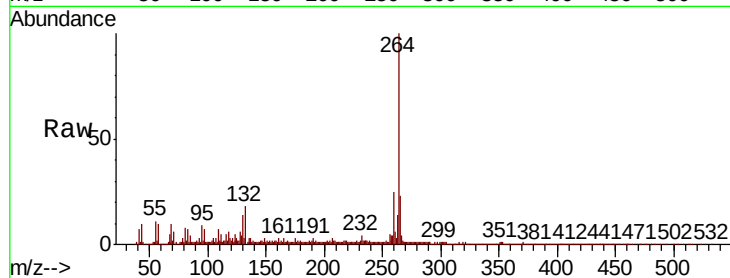
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.22 min Scan# 2232
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.7	29.5
265	22.9	18.1	27.1

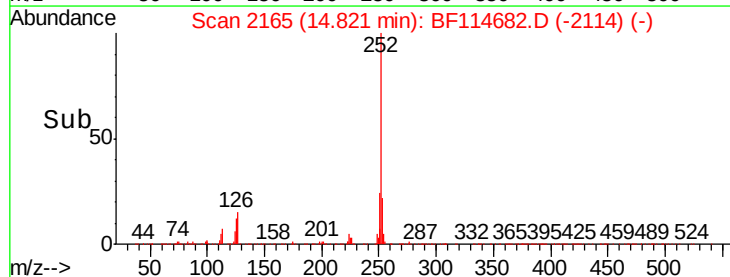
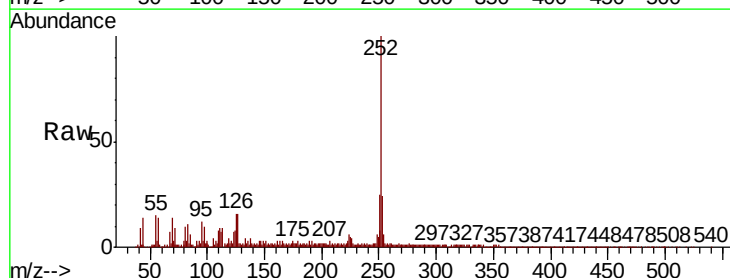
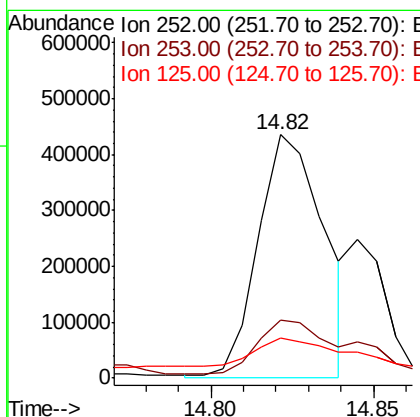
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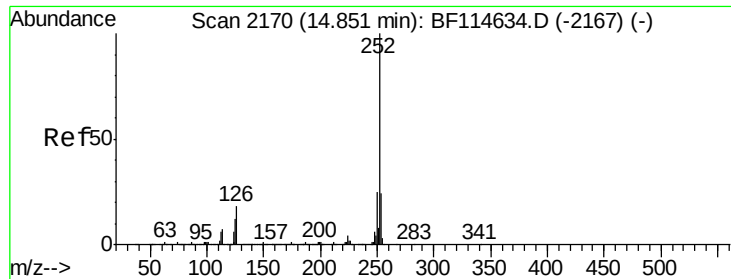
mohammad
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#88
Benzo(b)fluoranthene
Concen: 15.751 ng m
RT: 14.82 min Scan# 2165
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.7	28.1
125	16.5	9.4	14.2





#89

Benzo(k)fluoranthene

Concen: 5.846 ng

RT: 14.84 min Scan# 2169

Delta R.T. -0.01 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Instrument :

BNA_F

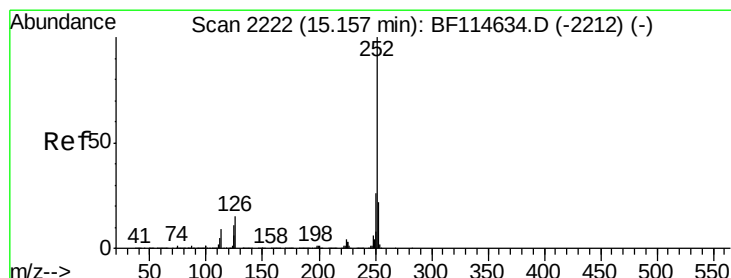
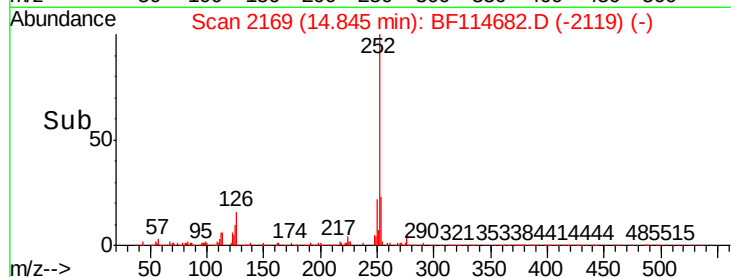
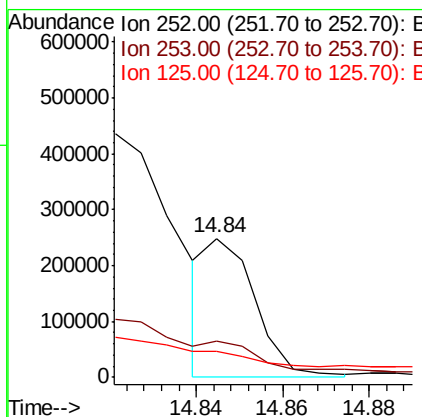
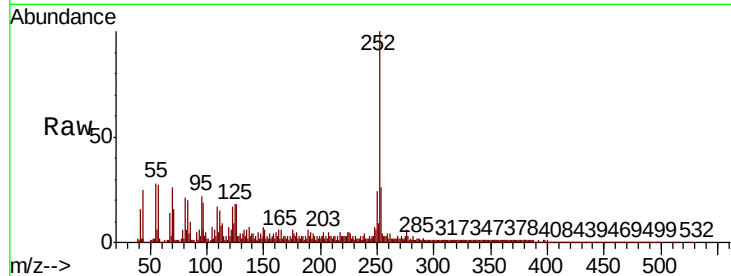
ClientSampleId :

COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.3	18.9	28.3
125	18.3	9.5	14.3

Manual Integrations
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#90

Benzo(a)pyrene

Concen: 11.831 ng

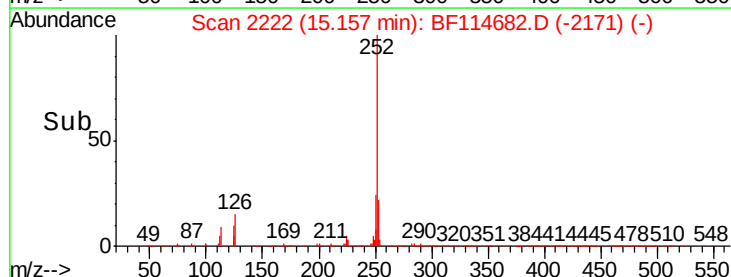
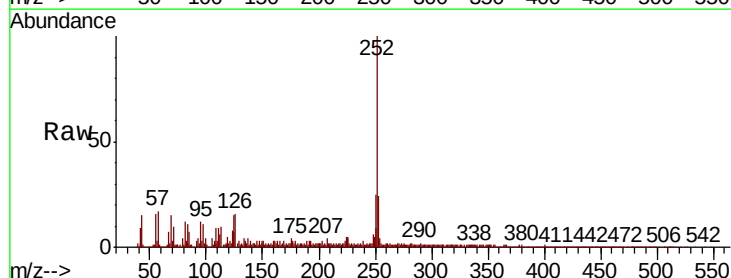
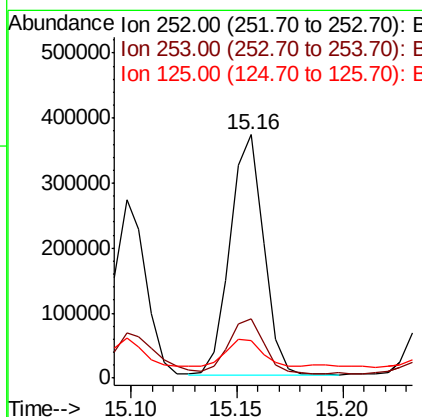
RT: 15.16 min Scan# 2222

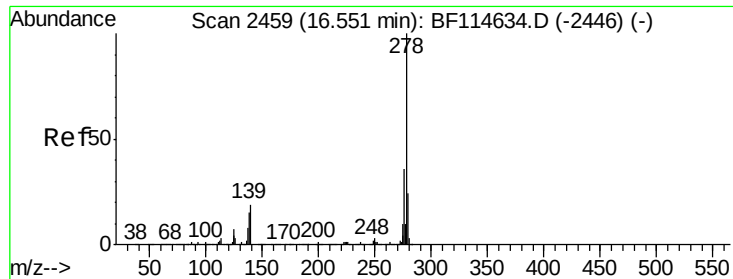
Delta R.T. -0.00 min

Lab File: BF114682.D

Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.0	27.0
125	15.3	9.2	13.8





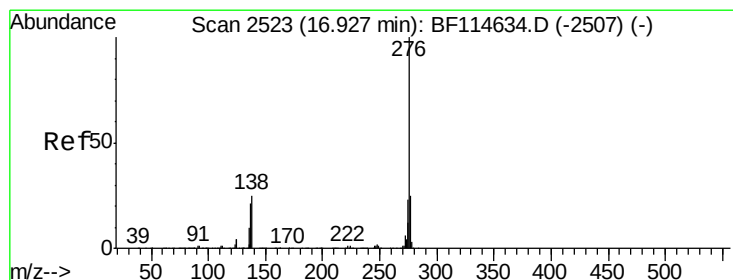
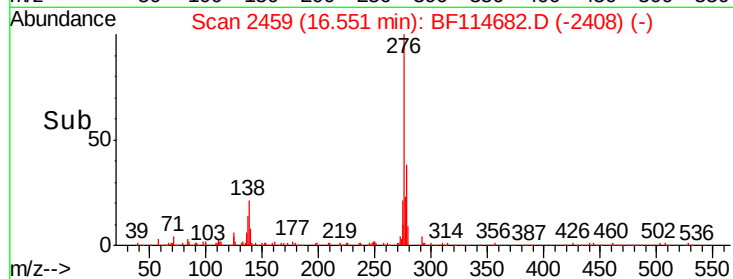
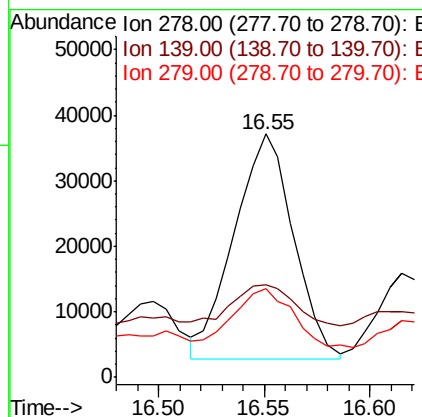
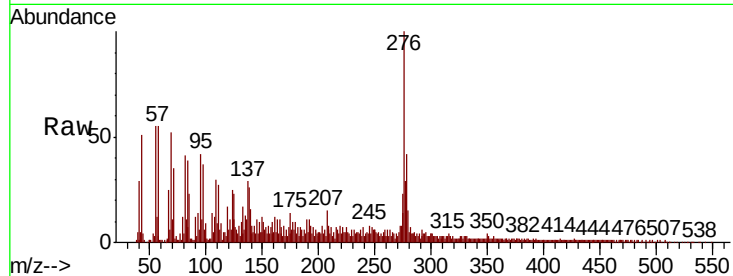
#91
Dibenzo(a,h)anthracene
Concen: 2.207 ng
RT: 16.55 min Scan# 2459
Delta R.T. -0.00 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Instrument :
BNA_F
ClientSampleId :
COMP-Z2-20190419

Tot Ion	Ratio	Lower	Upper
278	100		
139	38.2	14.9	22.3#
279	36.6	19.5	29.3#

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:53 AM



#92
Benzo(g,h,i)perylene
Concen: 7.869 ng
RT: 16.94 min Scan# 2525
Delta R.T. 0.01 min
Lab File: BF114682.D
Acq: 31 May 2019 1:13

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.4	19.7	29.5
138	26.8	19.8	29.8

