

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF051219\
 Data File : BF114198.D
 Acq On : 12 May 2019 17:48
 Operator : JU/SJ
 Sample : K2767-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS010-0002-01

Manual Integrations
 APPROVED

Sohil
 5/13/2019 8:37:31 PM

Quant Time: May 17 04:26:34 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 10 15:56:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	285571	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	1061757	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	493779	20.00	ng	0.00
64) Phenanthrene-d10	11.37	188	906020	20.00	ng	0.00
76) Chrysene-d12	14.02	240	553479	20.00	ng	0.00
87) Perylene-d12	15.49	264	639192	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1378765	77.70	ng	0.00
7) Phenol-d6	6.50	99	1842059	87.77	ng	0.00
23) Nitrobenzene-d5	7.42	82	1148328	60.70	ng	0.00
42) 2,4,6-Tribromophenol	10.67	330	396277	77.63	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	1717484	52.61	ng	0.00
79) Terphenyl-d14	12.96	244	1263905	47.07	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.16	128	266237	5.368	ng	97
32) Benzoic acid	7.86	122	3814m	7.332	ng	
37) 2-Methylnaphthalene	8.85	142	118089	3.690	ng	94
49) Acenaphthylene	9.75	152	487868	9.992	ng	98
50) Dimethylphthalate	9.60	163	387837	10.700	ng	99
71) Phenanthrene	11.40	178	1481011	33.599	ng	99
72) Anthracene	11.45	178	283000	6.392	ng	96
75) Fluoranthene	12.59	202	2120619	44.675	ng	98
78) Pyrene	12.83	202	3439813	77.256	ng	96
81) Benzo(a)anthracene	14.01	228	1356533m	37.893	ng	
83) Chrysene	14.04	228	1611364	45.917	ng	99
86) Indeno(1,2,3-cd)pyrene	16.96	276	737442	23.777	ng	96
88) Benzo(b)fluoranthene	15.07	252	1755710m	42.874	ng	
89) Benzo(k)fluoranthene	15.09	252	491182m	13.057	ng	
90) Benzo(a)pyrene	15.43	252	1160691	32.206	ng	99
91) Dibenzo(a,h)anthracene	16.96	278	199132m	6.649	ng	
92) Benzo(g,h,i)perylene	17.41	276	854839	28.484	ng	97

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

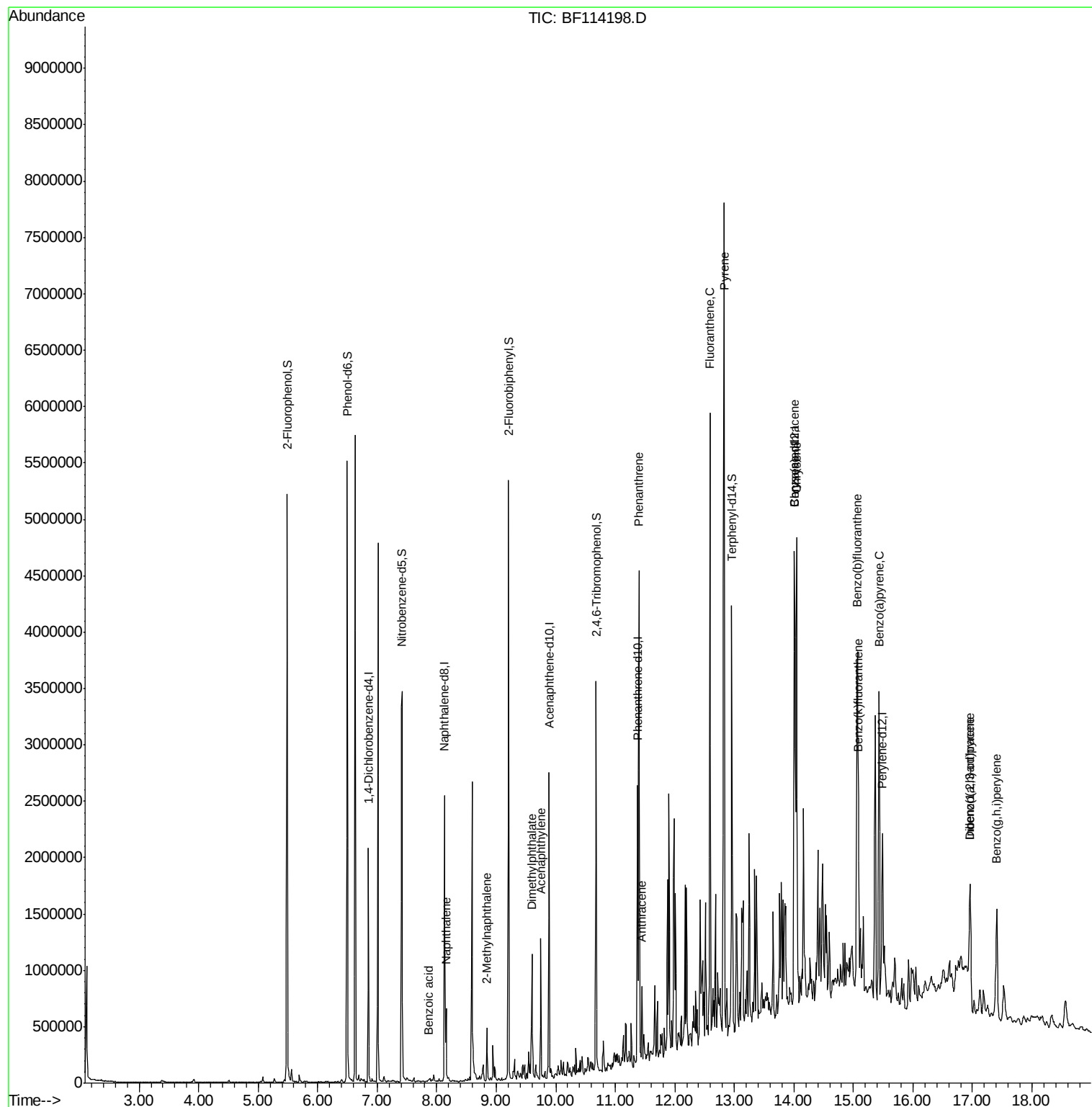
Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF051219\
Data File : BF114198.D
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Misc :
ALS Vial : 13 Sample Multiplier: 1

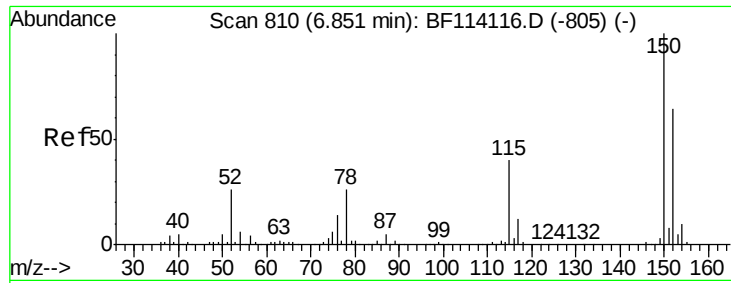
Instrument :
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P026-SS010-0002-01

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Quant Time: May 17 04:26:34 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 10 15:56:46 2019
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#1

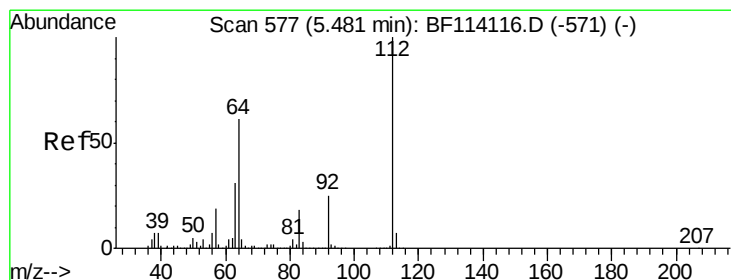
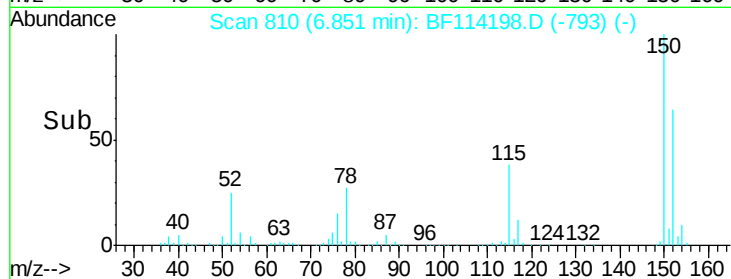
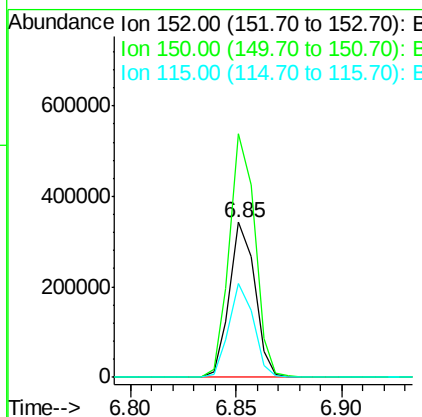
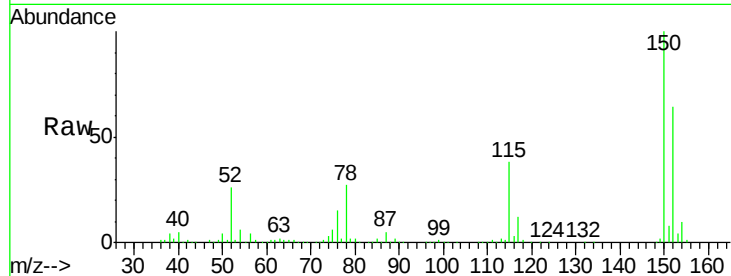
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 810
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.3	186.5
115	60.4	49.1	73.7

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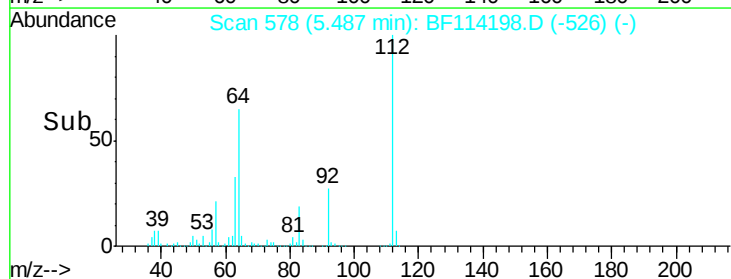
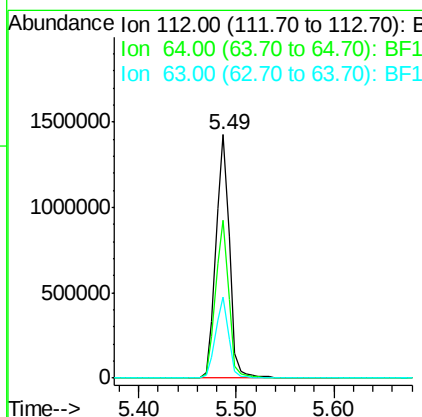
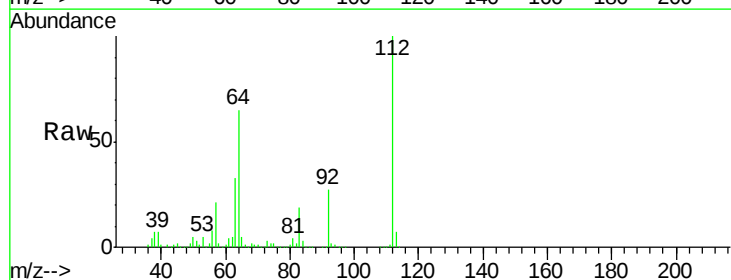
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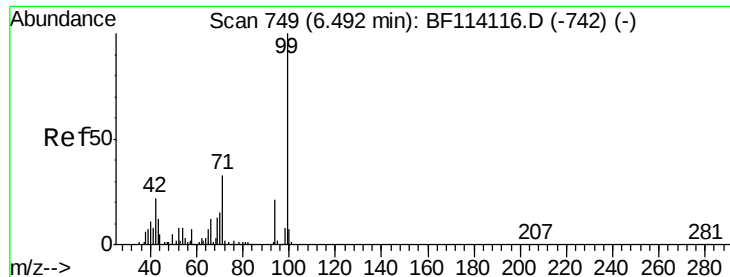


#5

2-Fluorophenol
Concen: 77.697 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.8	49.0	73.6
63	33.2	24.6	37.0





#7

Phenol-d6

Concen: 87.767 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.01 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

ClientSampleId :

P026-SS010-0002-01

Tot Ion: 99 Resp: 1842059

Ion Ratio Lower Upper

99 100

42 21.9 17.9 26.9

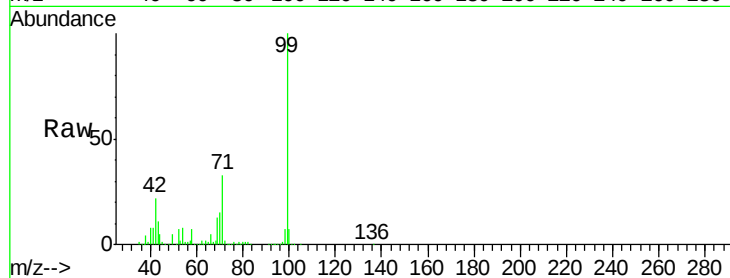
71 32.5 26.2 39.2

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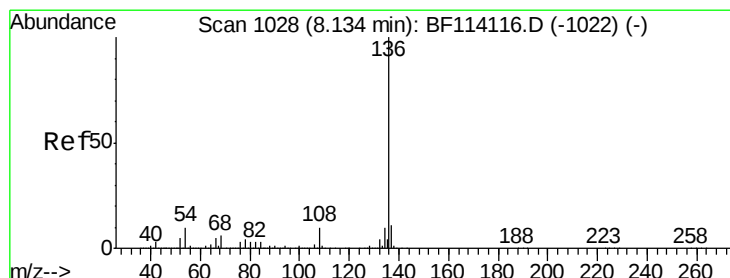
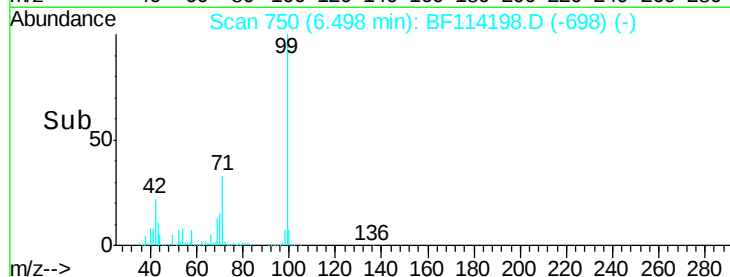
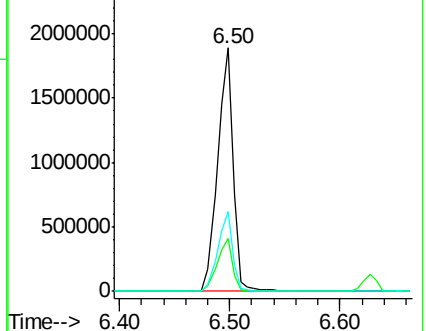
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Abundance Ion 99.00 (98.70 to 99.70): BF1

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: BF114198.D

Acq: 12 May 2019 17:48

Tgt Ion: 136 Resp: 1061757

Ion Ratio Lower Upper

136 100

137 11.5 8.8 13.2

54 9.9 7.8 11.8

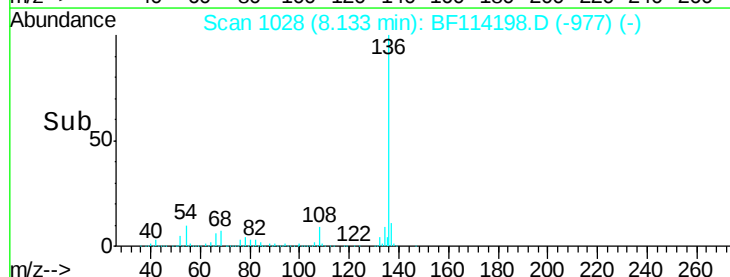
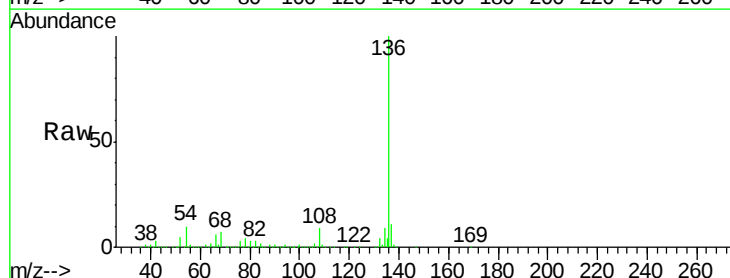
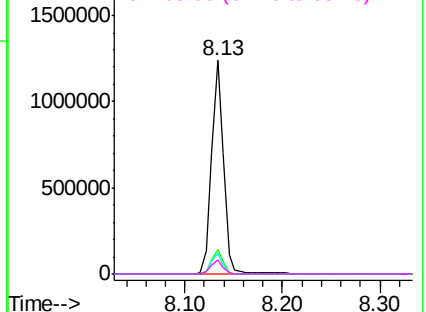
68 6.7 5.1 7.7

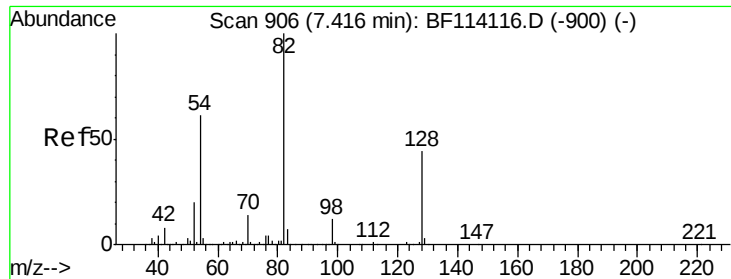
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





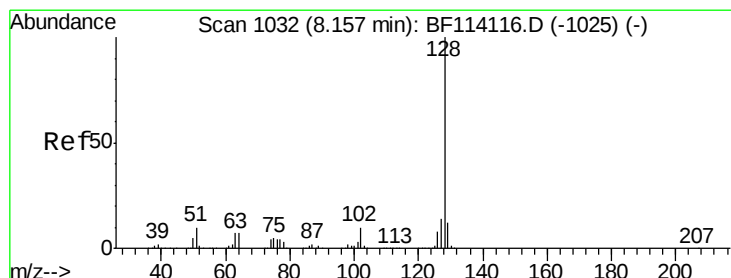
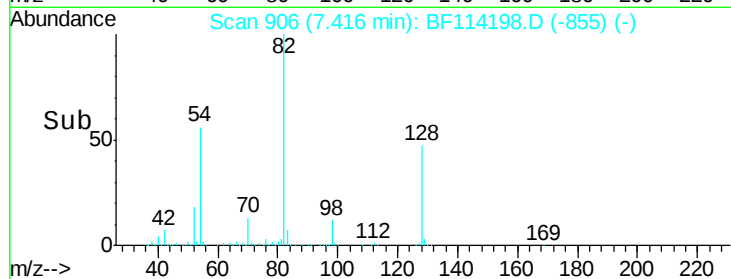
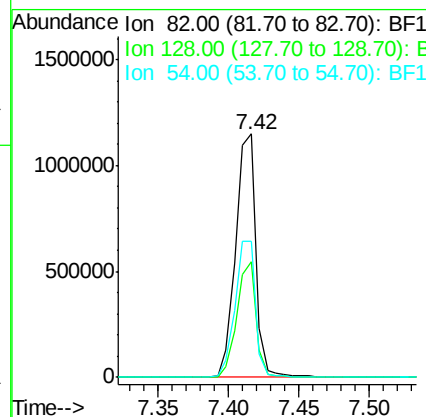
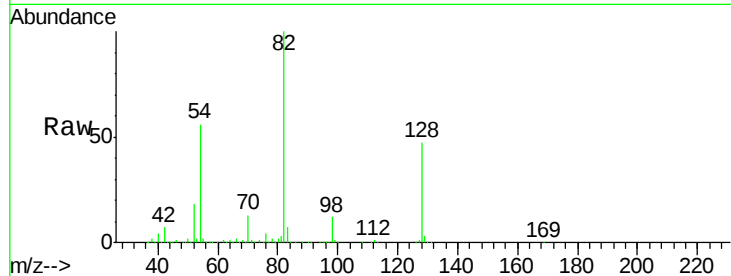
#23
Nitrobenzene-d5
Concen: 60.696 ng
RT: 7.42 min Scan# 906
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	47.3	35.5	53.3
54	55.9	48.5	72.7

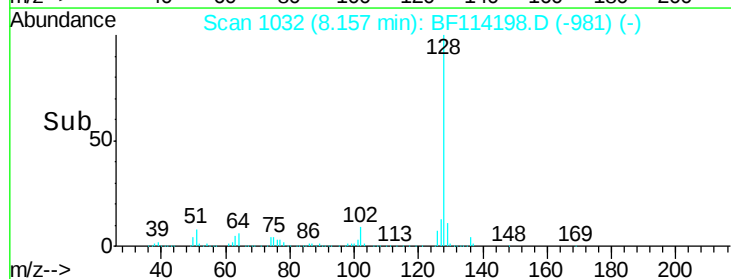
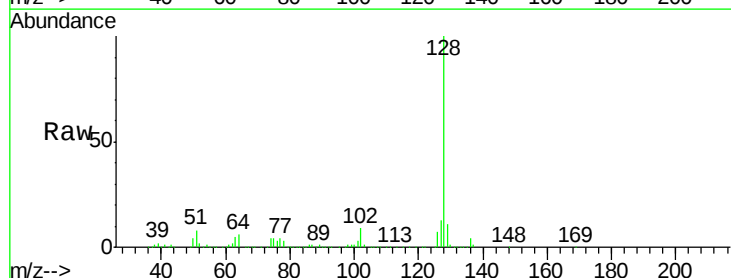
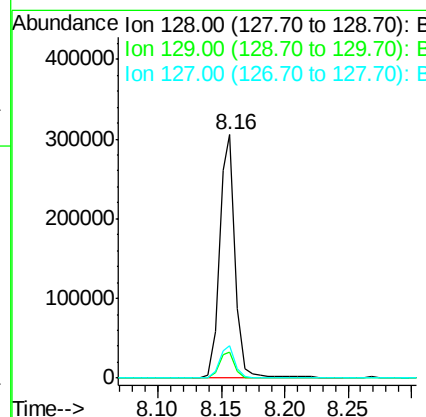
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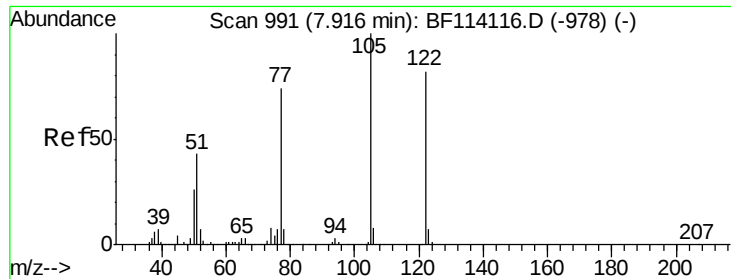
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#31
Naphthalene
Concen: 5.368 ng
RT: 8.16 min Scan# 1032
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.6	14.4
127	13.1	11.3	16.9





#32

Benzoic acid

Concen: 7.332 ng m

RT: 7.86 min Scan# 981

Delta R.T. -0.06 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

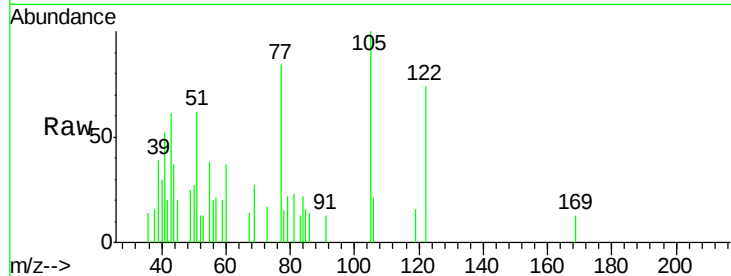
ClientSampleId :

P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
122	100		
105	134.4	99.9	139.9
77	112.6	69.4	109.4

Manual Integrations
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5/13/2019 8:37:31 PM

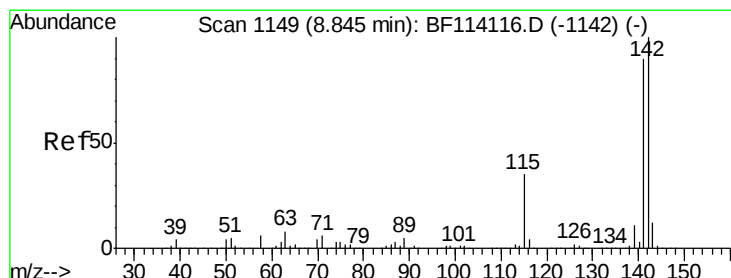
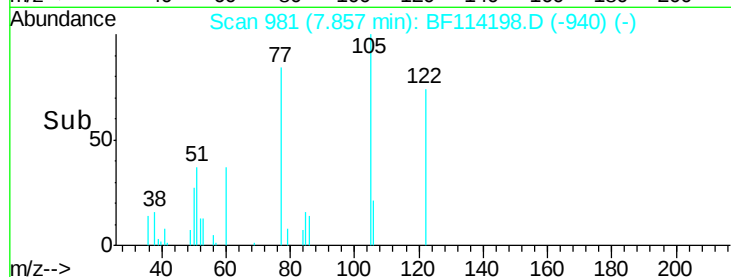
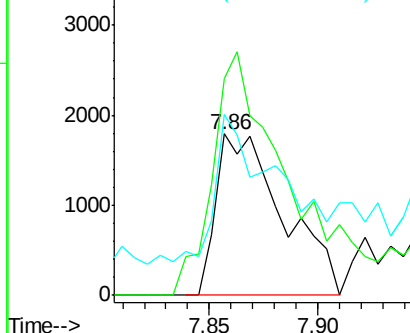


Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 3.690 ng

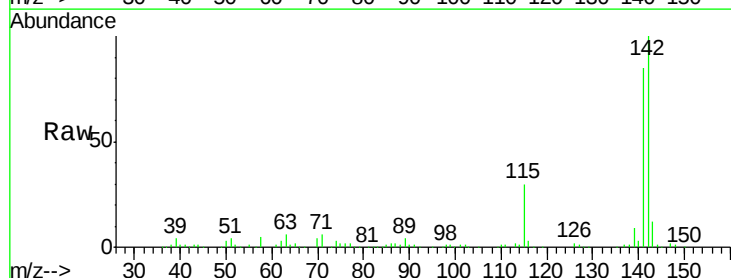
RT: 8.85 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.3	72.1	108.1
115	30.0	28.0	42.0

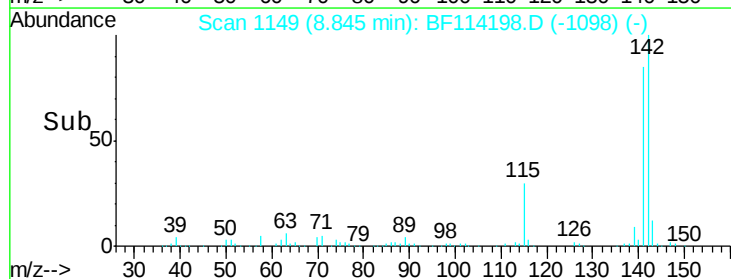
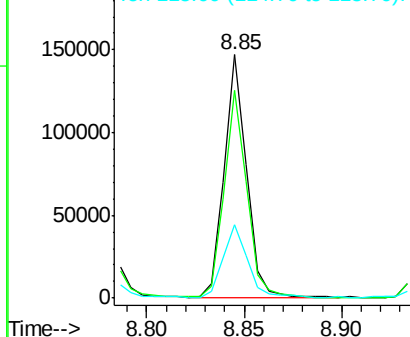


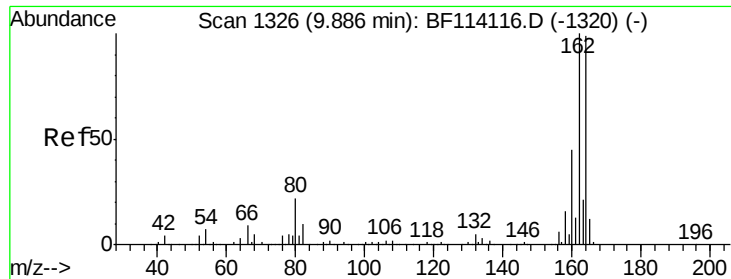
Abundance

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





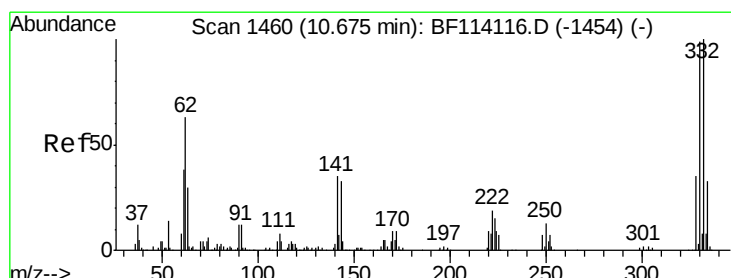
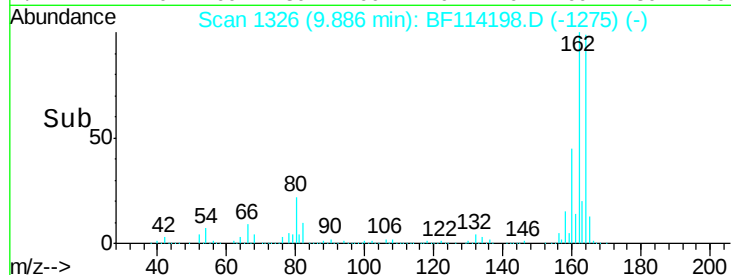
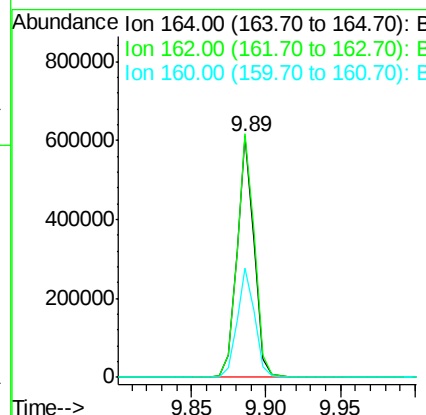
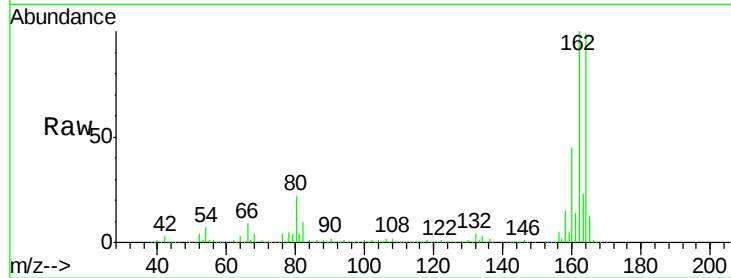
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.2	80.6	120.8	
160	45.2	36.5	54.7	

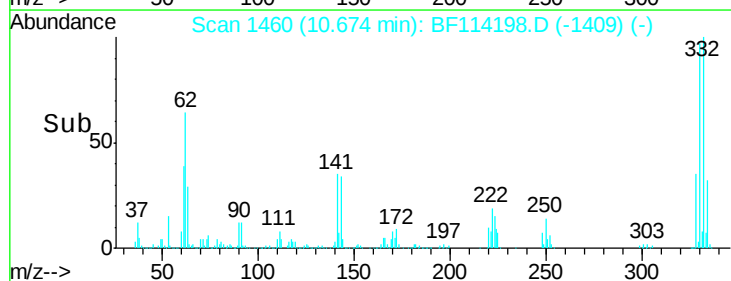
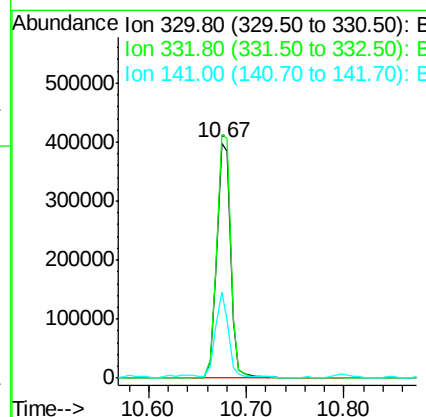
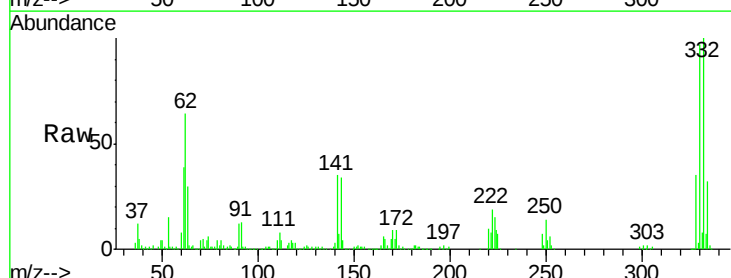
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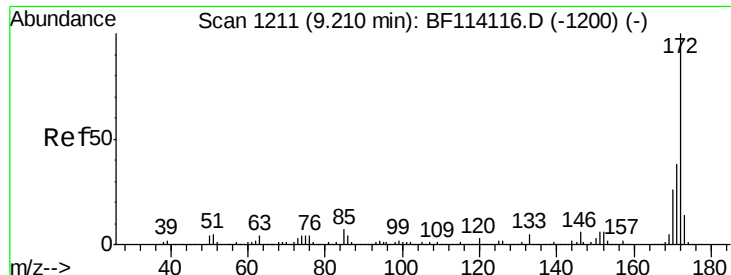
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#42
2,4,6-Tribromophenol
Concen: 77.628 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	104.1	81.4	122.2	
141	34.0	26.6	40.0	





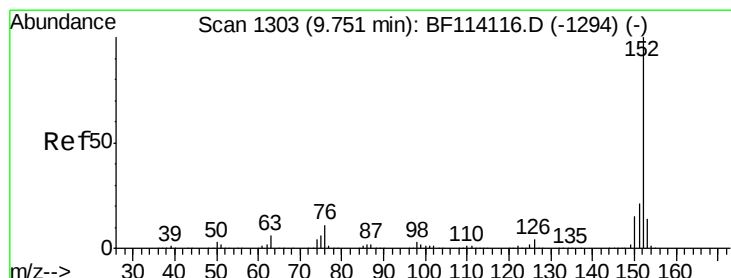
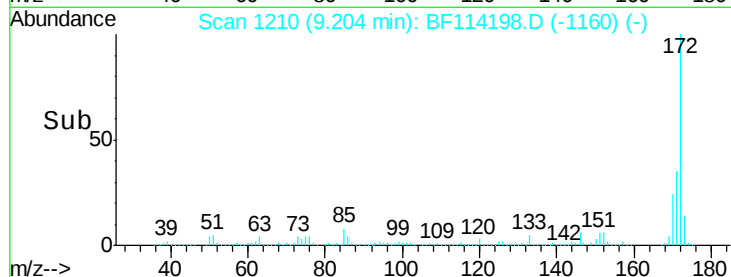
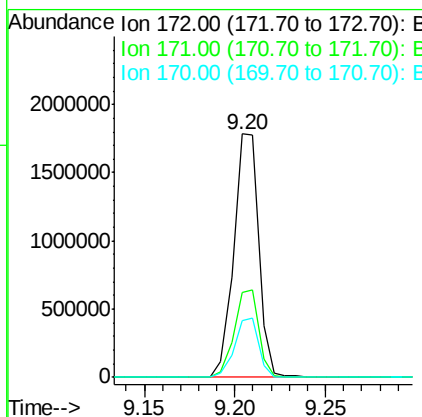
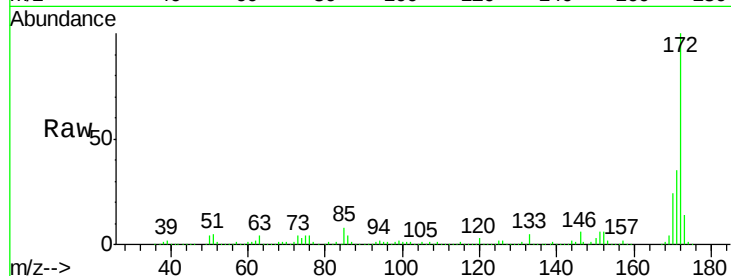
#45
2-Fluorobiphenyl
Concen: 52.614 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.1	30.7	46.1
170	23.6	20.5	30.7

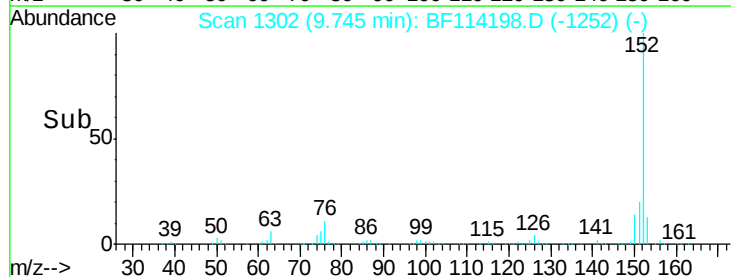
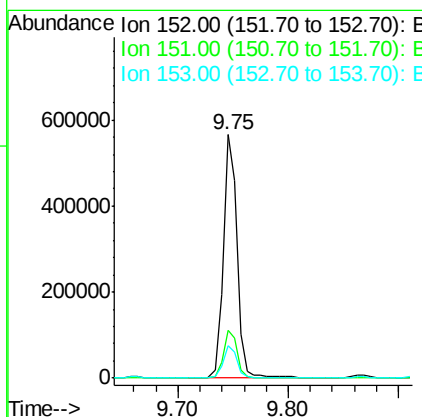
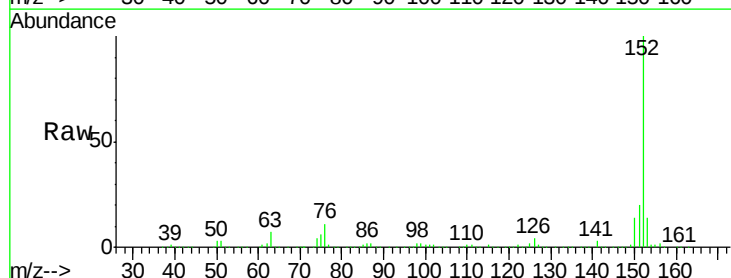
Manual Integrations
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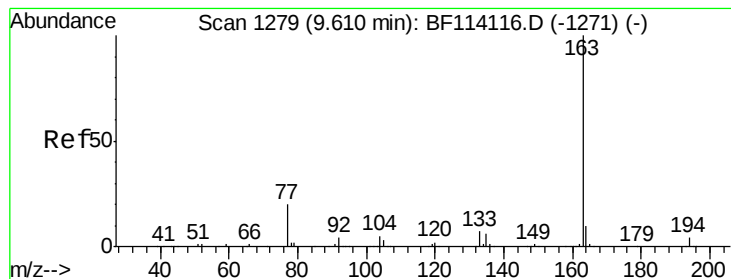
Sohil
5/13/2019 8:37:31 PM



#49
Acenaphthylene
Concen: 9.992 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.8	25.2
153	13.5	11.4	17.2





#50

Dimethylphthalate

Concen: 10.700 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

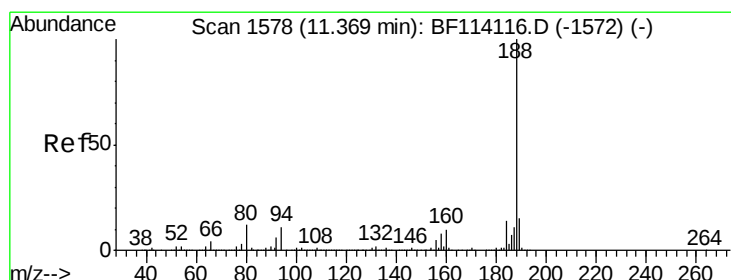
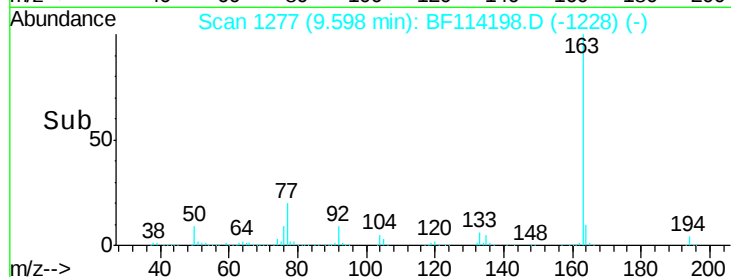
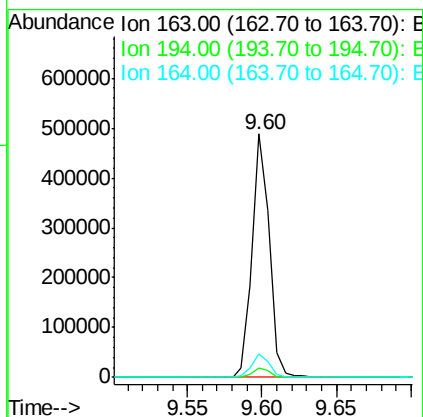
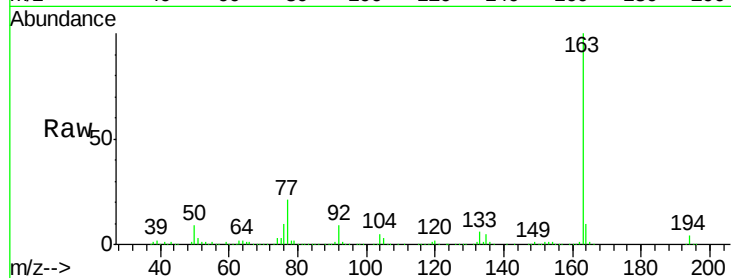
ClientSampleId :

P026-SS010-0002-01

Tot Ion:	163	Resp:	387837
Ion Ratio	Lower	Upper	
163	100		
194	3.8	3.4	5.0
164	9.8	8.2	12.2

Manual Integrations
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#64

Phenanthrene-d10

Concen: 20.000 ng

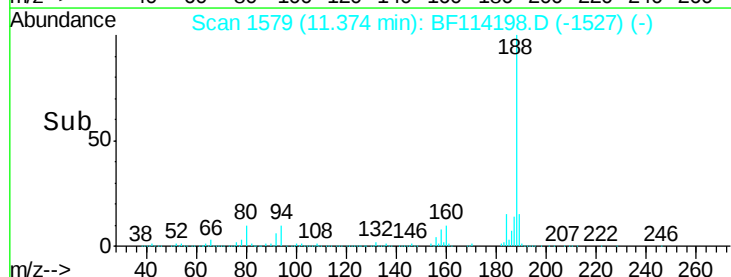
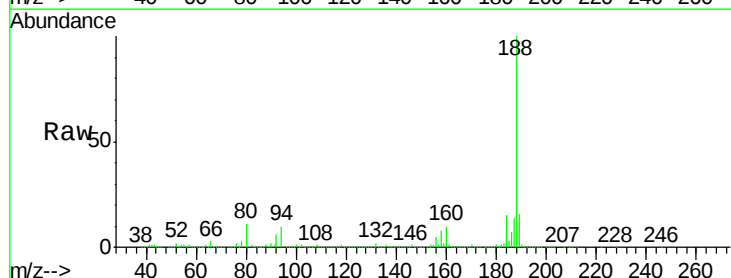
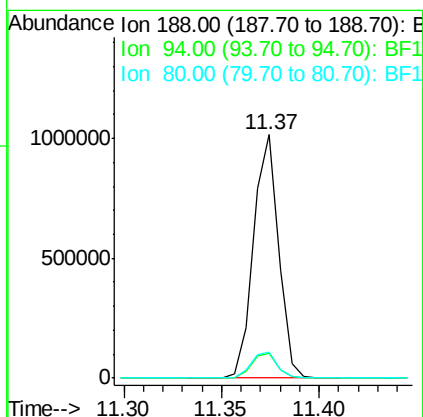
RT: 11.37 min Scan# 1579

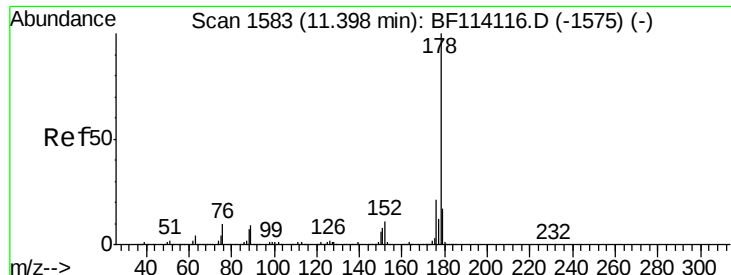
Delta R.T. 0.01 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Tgt Ion:	188	Resp:	906020
Ion Ratio	Lower	Upper	
188	100		
94	10.1	8.4	12.6
80	10.5	9.2	13.8





#71

Phenanthrene

Concen: 33.599 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.00 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

ClientSampleId :

P026-SS010-0002-01

Tot Ion:178 Resp: 1481011

Ion Ratio Lower Upper

178 100

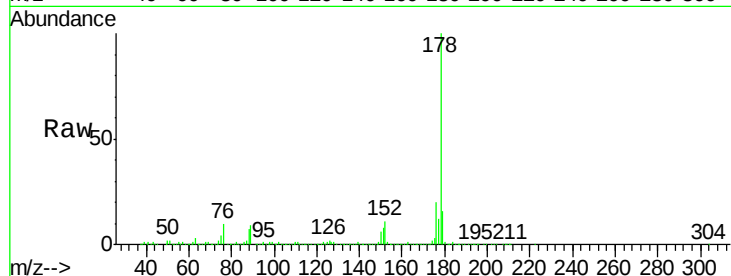
176 19.7 16.4 24.6

179 16.1 13.2 19.8

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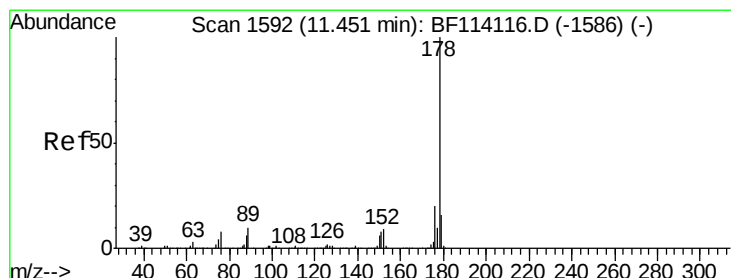
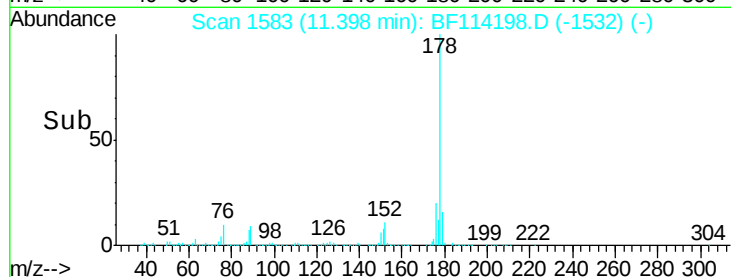
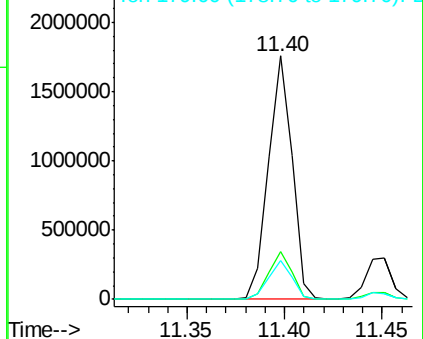
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 6.392 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.00 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Tgt Ion:178 Resp: 283000

Ion Ratio Lower Upper

178 100

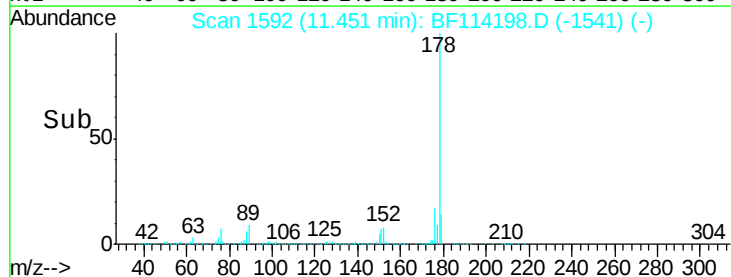
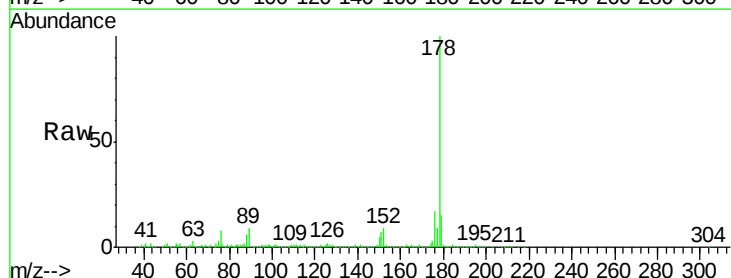
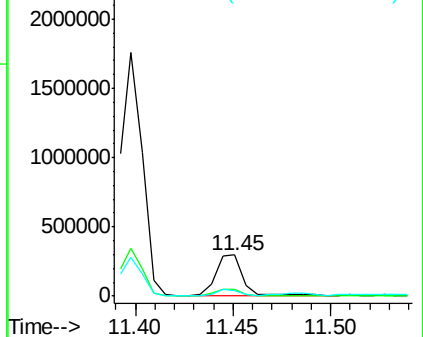
176 17.2 15.8 23.8

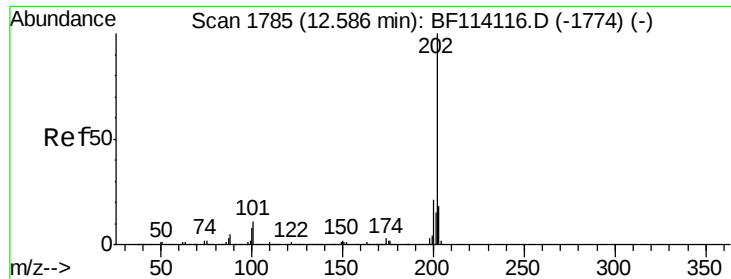
179 15.0 13.0 19.4

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: 44.675 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.01 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

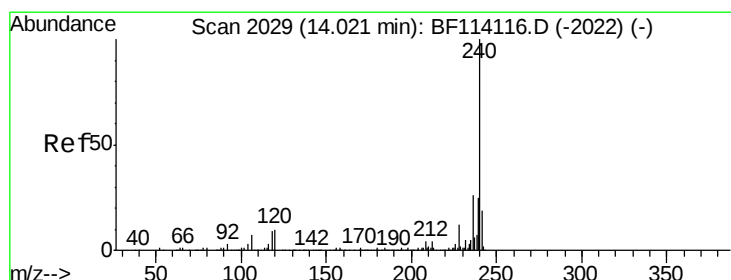
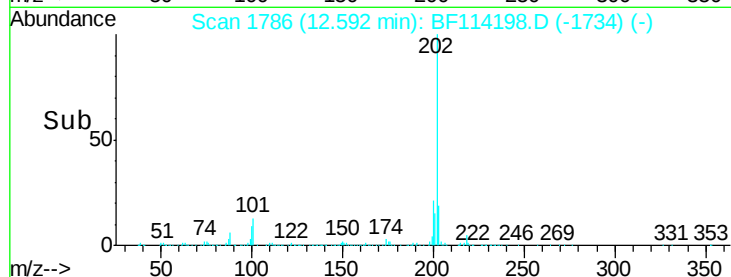
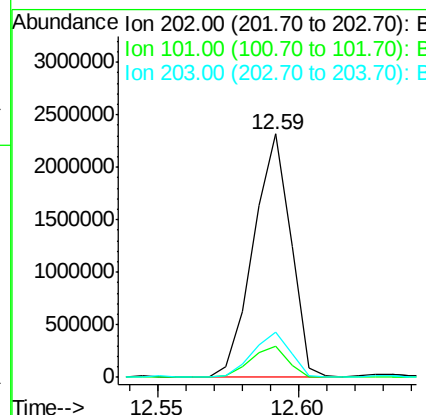
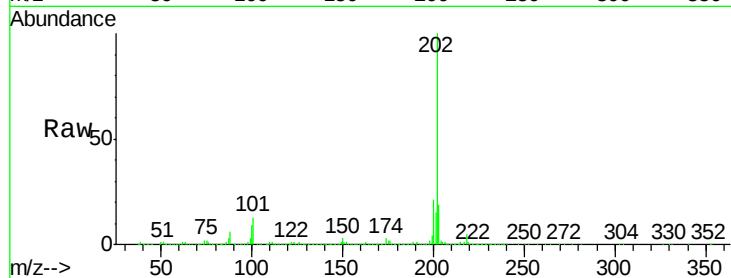
ClientSampleId :

P026-SS010-0002-01

Tot Ion:	202	Resp:	2120619
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	31.0
203	18.8	0.0	38.4

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#76

Chrysene-d12

Concen: 20.000 ng

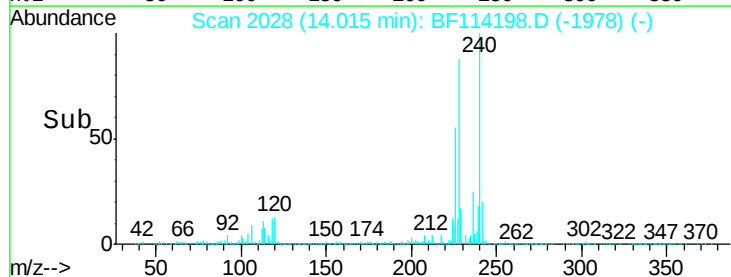
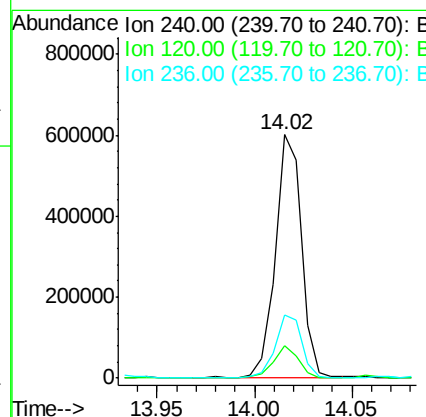
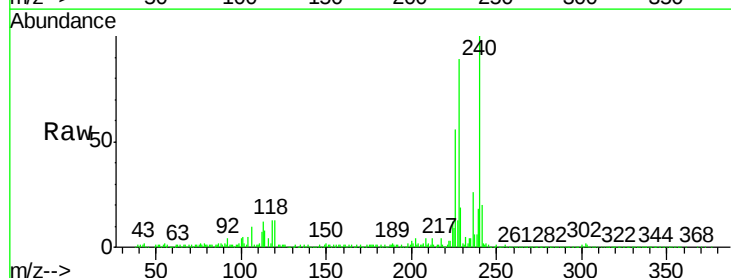
RT: 14.02 min Scan# 2028

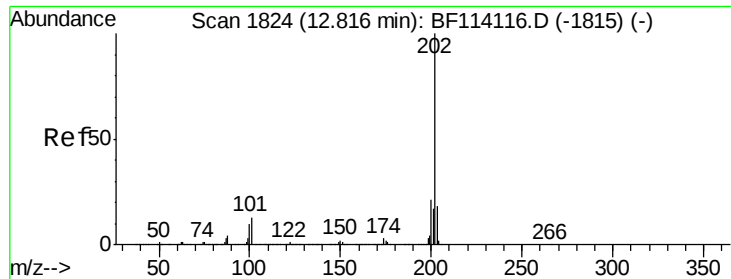
Delta R.T. -0.01 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Tgt Ion:	240	Resp:	553479
Ion	Ratio	Lower	Upper
240	100		
120	13.5	8.3	12.5#
236	26.0	20.8	31.2





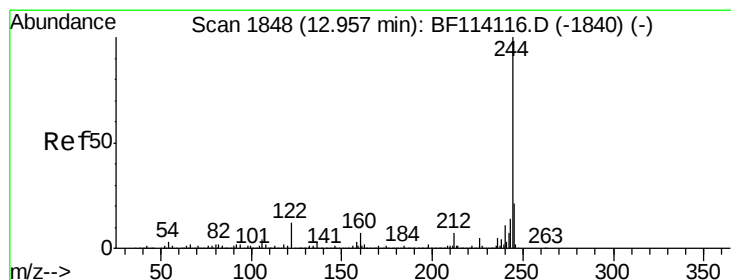
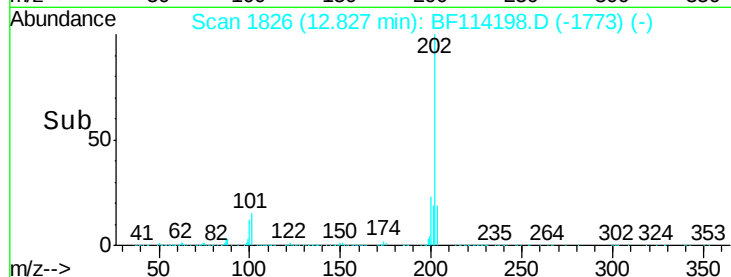
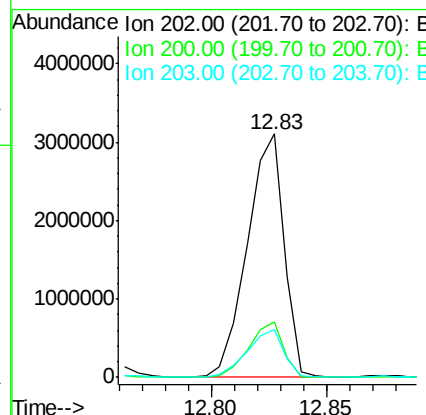
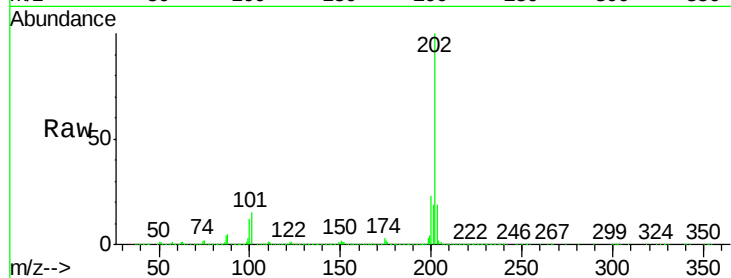
#78
Pvrene
Concen: 77.256 ng
RT: 12.83 min Scan# 1826
Delta R.T. 0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.9	16.9	25.3
203	19.4	14.5	21.7

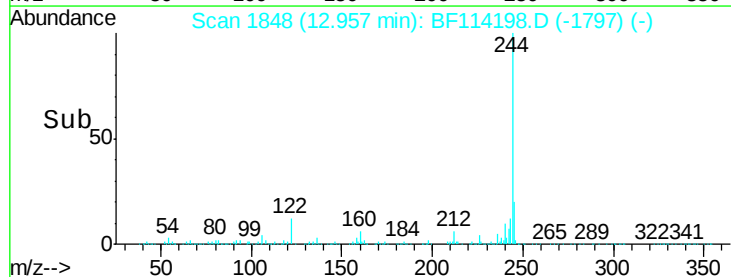
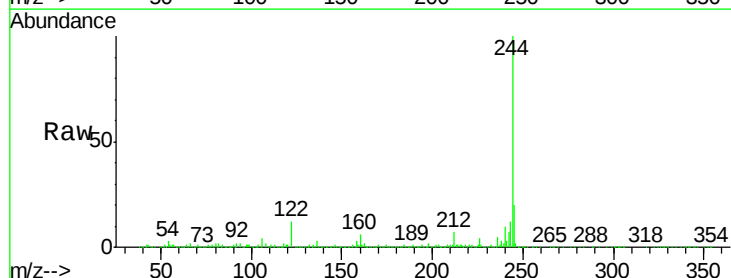
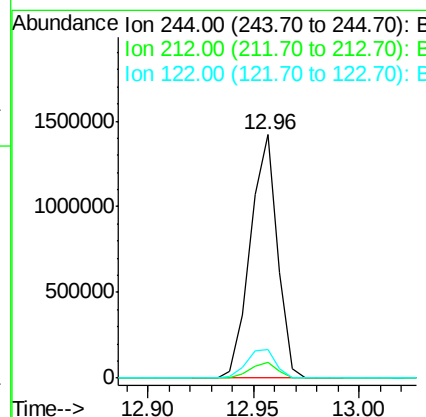
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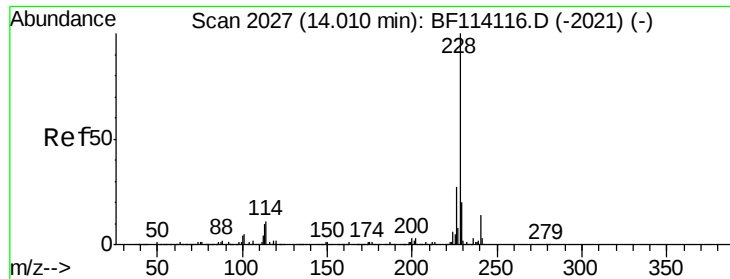
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#79
Terphenyl-d14
Concen: 47.074 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.00 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.8	8.6
122	11.9	9.4	14.2





#81

Benzo(a)anthracene

Concen: 37.893 ng m

RT: 14.01 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

Instrument :

BNA_F

ClientSampleId :

P026-SS010-0002-01

Tot Ion:228 Resp: 1356533

Ion Ratio Lower Upper

228 100

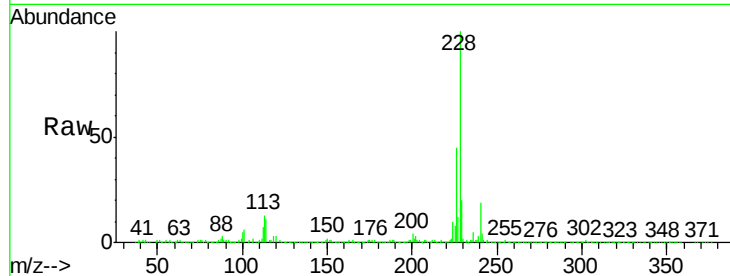
226 44.8 22.2 33.2#

229 20.1 16.4 24.6

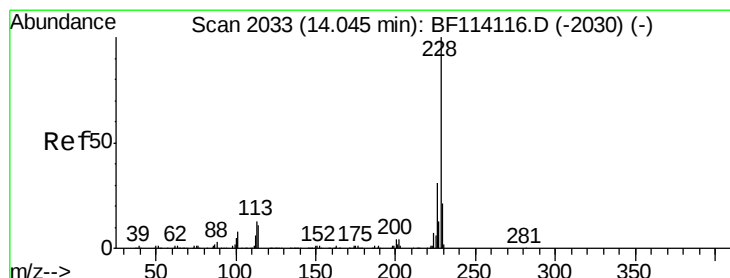
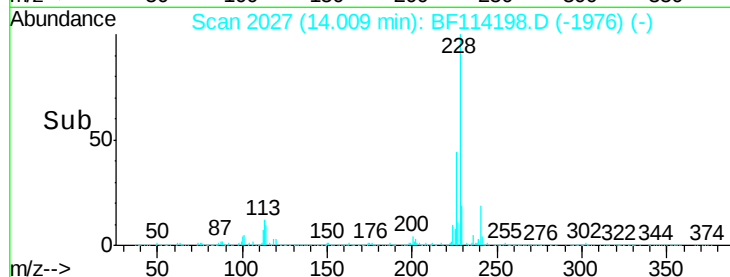
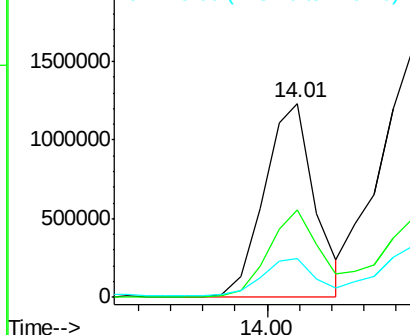
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 45.917 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF114198.D

Acq: 12 May 2019 17:48

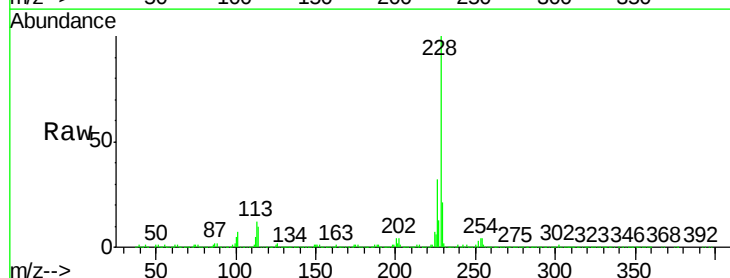
Tgt Ion:228 Resp: 1611364

Ion Ratio Lower Upper

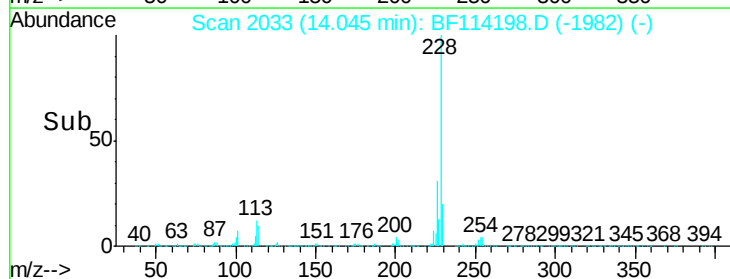
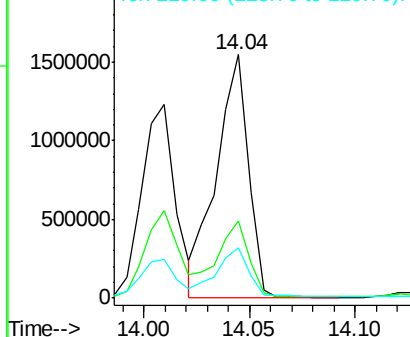
228 100

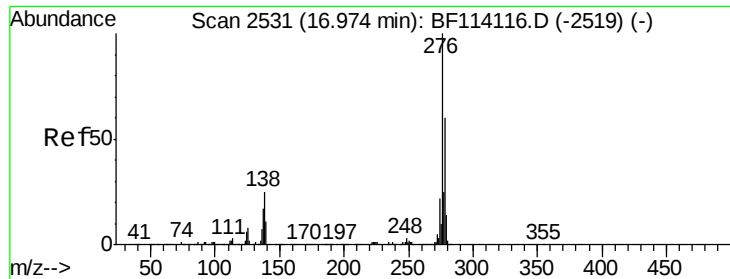
226 31.7 25.0 37.6

229 20.9 17.0 25.6



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





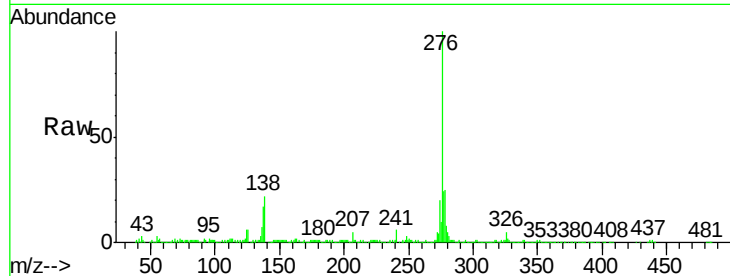
#86
Indeno(1,2,3-cd)pyrene
Concen: 23.777 ng
RT: 16.96 min Scan# 2529
Delta R.T. -0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.7	20.2	30.2
277	23.7	20.0	30.0

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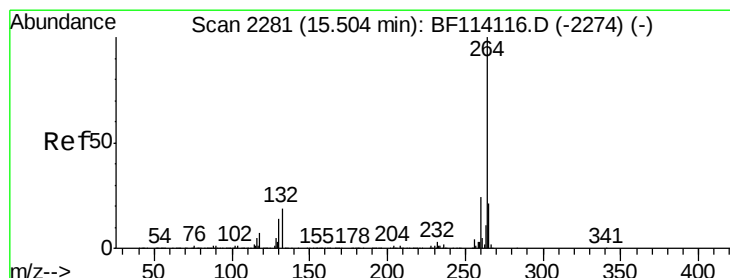
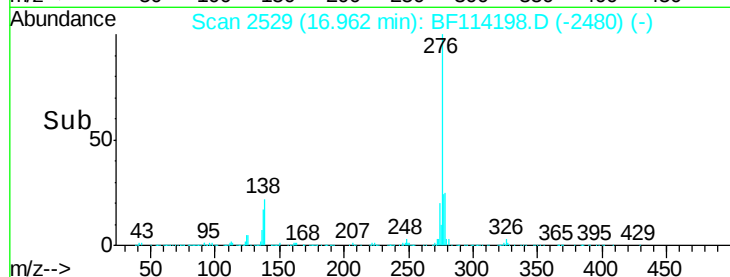
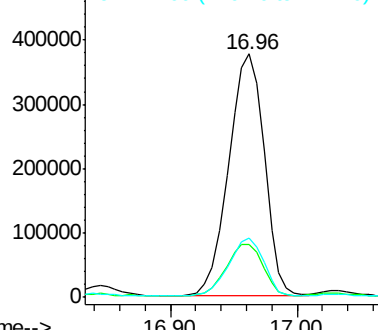


Abundance

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: 15.49 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

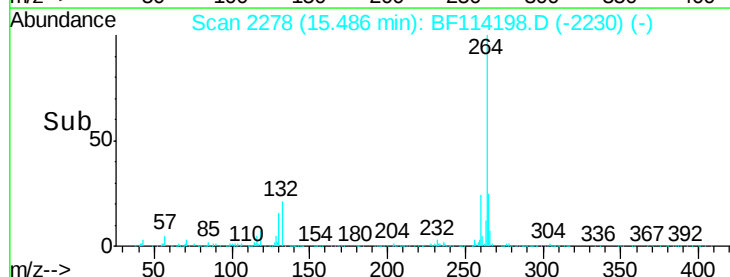
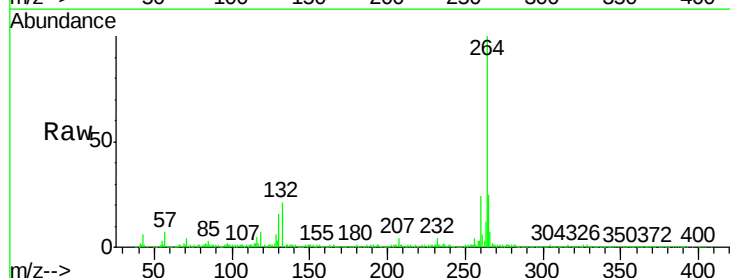
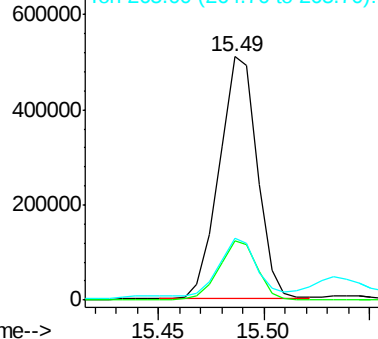
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.0
265	25.2	16.9	25.3

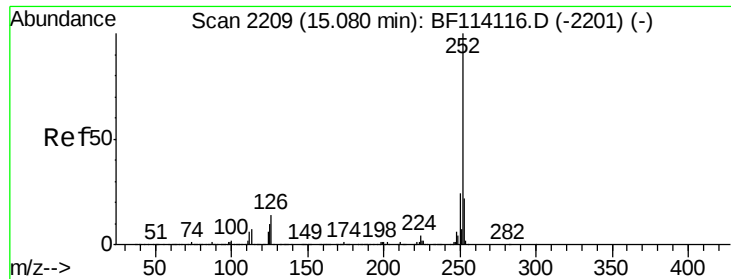
Abundance

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





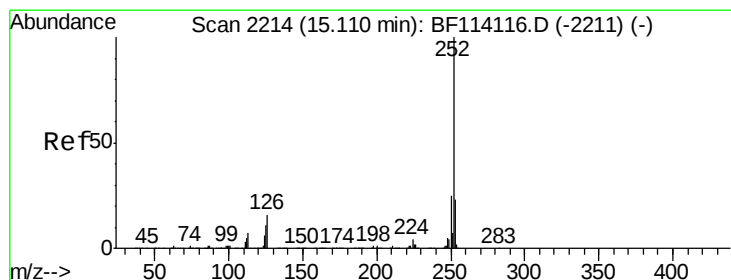
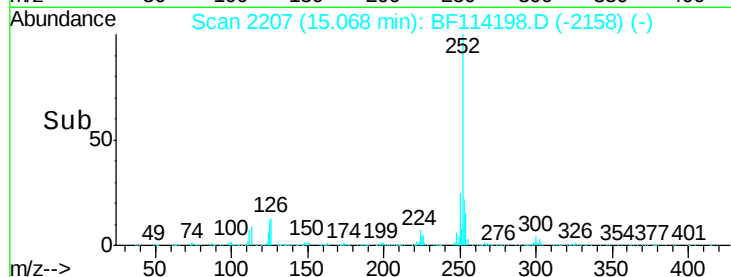
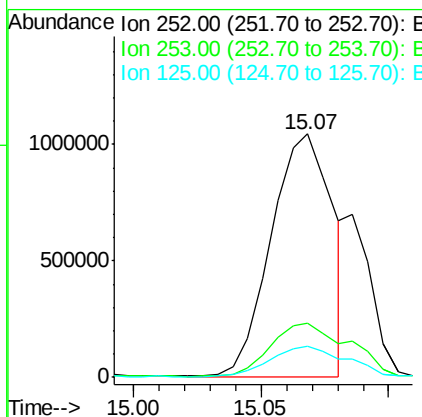
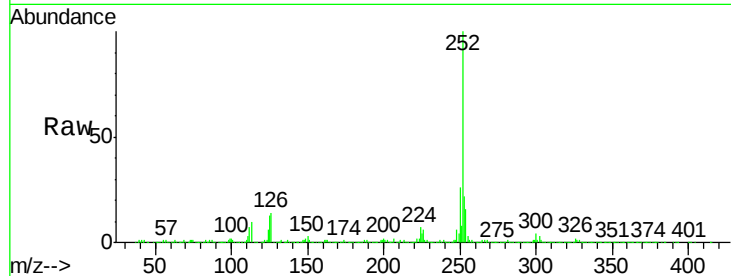
#88
Benzo(b)fluoranthene
Concen: 42.874 ng m
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	12.8	8.3	12.5

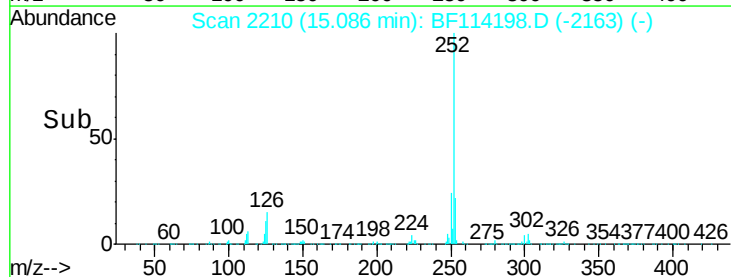
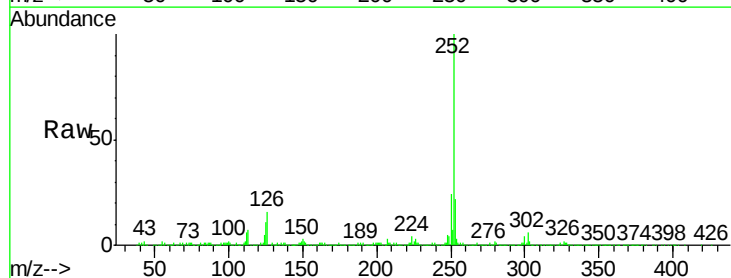
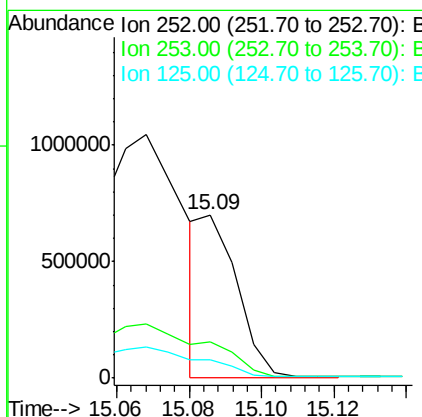
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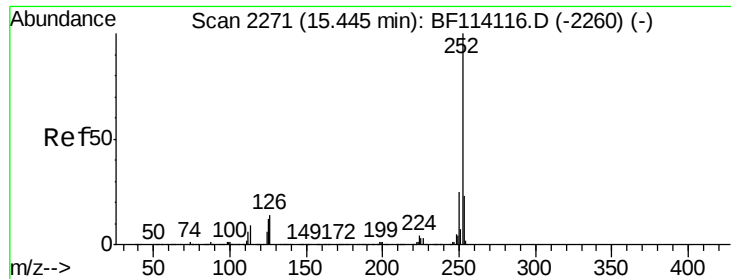
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#89
Benzo(k)fluoranthene
Concen: 13.057 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.02 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.2	27.2
125	11.4	8.6	13.0





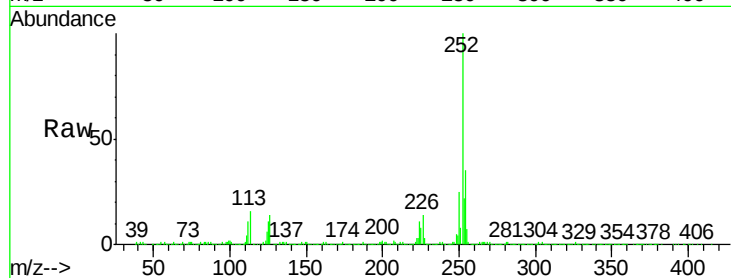
#90
Benzo(a)pyrene
Concen: 32.206 ng
RT: 15.43 min Scan# 2269
Delta R.T. -0.01 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Instrument :
BNA_F
ClientSampleId :
P026-SS010-0002-01

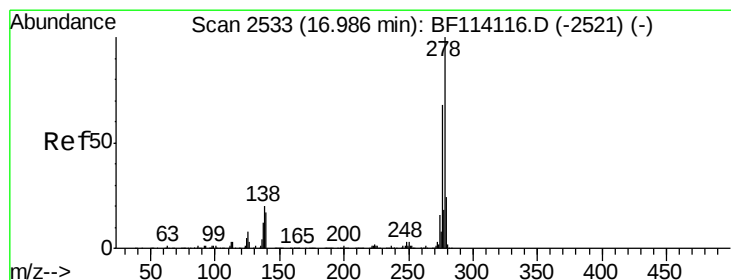
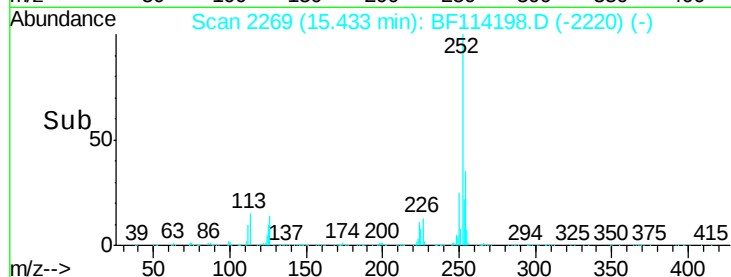
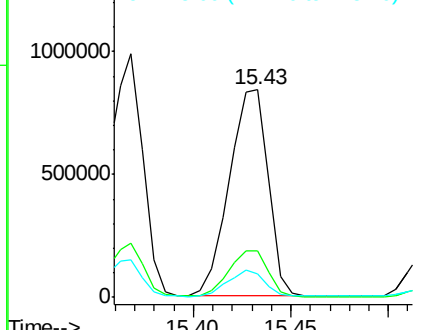
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	11.4	9.5	14.3

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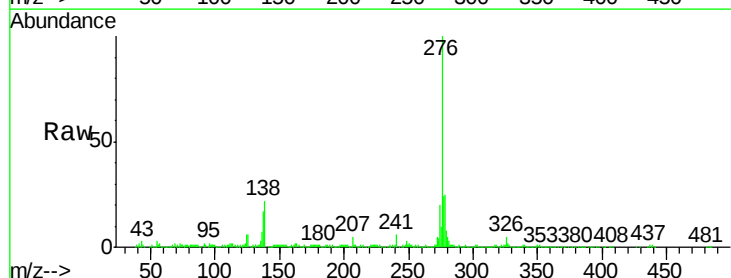


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

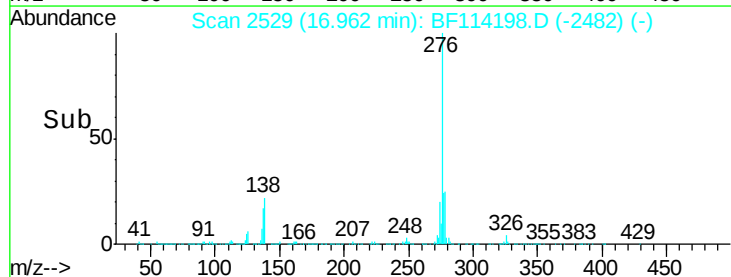
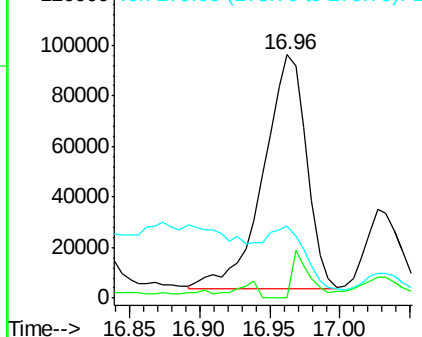


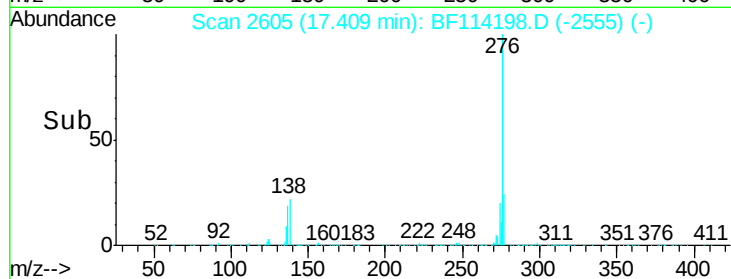
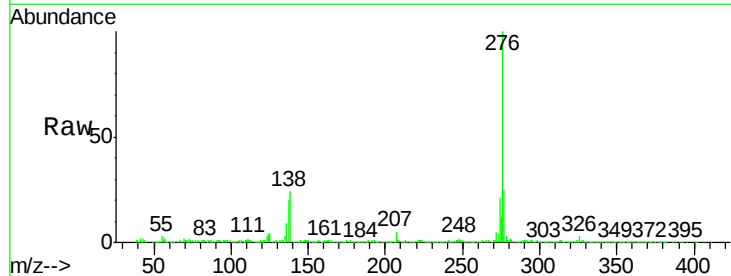
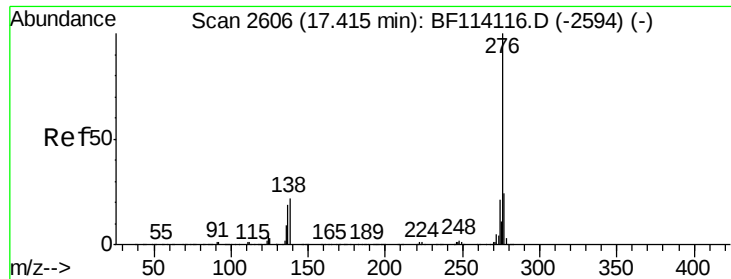
#91
Dibenzo(a,h)anthracene
Concen: 6.649 ng m
RT: 16.96 min Scan# 2529
Delta R.T. -0.02 min
Lab File: BF114198.D
Acq: 12 May 2019 17:48

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.5	20.3#
279	29.8	19.0	28.6#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#92
 Benzo(a,h,i)perylene
 Concen: 28.484 ng
 RT: 17.41 min Scan# 2605
 Delta R.T. -0.01 min
 Lab File: BF114198.D
 Acq: 12 May 2019 17:48

Instrument :
 BNA_F
 ClientSampleId :
 P026-SS010-0002-01

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.0	28.4
138	23.8	17.8	26.6

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