

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032520\
 Data File : BF119526.D
 Acq On : 26 Mar 2020 4:21
 Operator : CG/JU
 Sample : L1994-06 10X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

Manual Integrations
 APPROVED

Quant Time: Mar 26 07:35:14 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 18 15:11:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.84	152	282042	20.00	ng	-0.02
21) Naphthalene-d8	8.13	136	1058901	20.00	ng	-0.02
39) Acenaphthene-d10	9.89	164	538759	20.00	ng	-0.02
64) Phenanthrene-d10	11.37	188	971929	20.00	ng	-0.02
76) Chrysene-d12	14.02	240	551037	20.00	ng	-0.02
87) Perylene-d12	15.49	264	604131	20.00	ng	-0.01

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System Monitoring Compounds

5) 2-Fluorophenol	5.44	112	197098	11.12	ng	-0.02
7) Phenol-d6	6.45	99	255878	11.31	ng	-0.02
23) Nitrobenzene-d5	7.40	82	151123	7.76	ng	-0.02
42) 2,4,6-Tribromophenol	10.67	330	66179	11.91	ng	-0.02
45) 2-Fluorobiphenyl	9.20	172	328610	9.04	ng	-0.02
79) Terphenyl-d14	12.96	244	327779	11.65	ng	-0.02

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Target Compounds

						Qvalue
31) Naphthalene	8.15	128	193652	3.554	ng	97
52) Acenaphthene	9.92	154	231187	6.871	ng	98
55) Dibenzofuran	10.09	168	251712	5.218	ng	99
58) Fluorene	10.43	166	325771	9.131	ng	99
71) Phenanthrene	11.40	178	1918534	38.068	ng	99
72) Anthracene	11.45	178	747482	14.593	ng	97
73) Carbazole	11.60	167	159989	3.156	ng	99
75) Fluoranthene	12.59	202	2446747	44.860	ng	99
78) Pyrene	12.82	202	2004676	44.329	ng	100
81) Benzo(a)anthracene	14.00	228	1009013	28.159	ng	99
83) Chrysene	14.04	228	849832	22.980	ng	98
86) Indeno(1,2,3-cd)pyrene	16.95	276	619926m	17.799	ng	
88) Benzo(b)fluoranthene	15.06	252	1248420m	30.935	ng	
89) Benzo(k)fluoranthene	15.08	252	440822m	11.472	ng	
90) Benzo(a)pyrene	15.42	252	957460	26.107	ng	98
91) Dibenzo(a,h)anthracene	16.96	278	148727	4.636	ng	94
92) Benzo(g,h,i)perylene	17.39	276	549562	17.053	ng	96

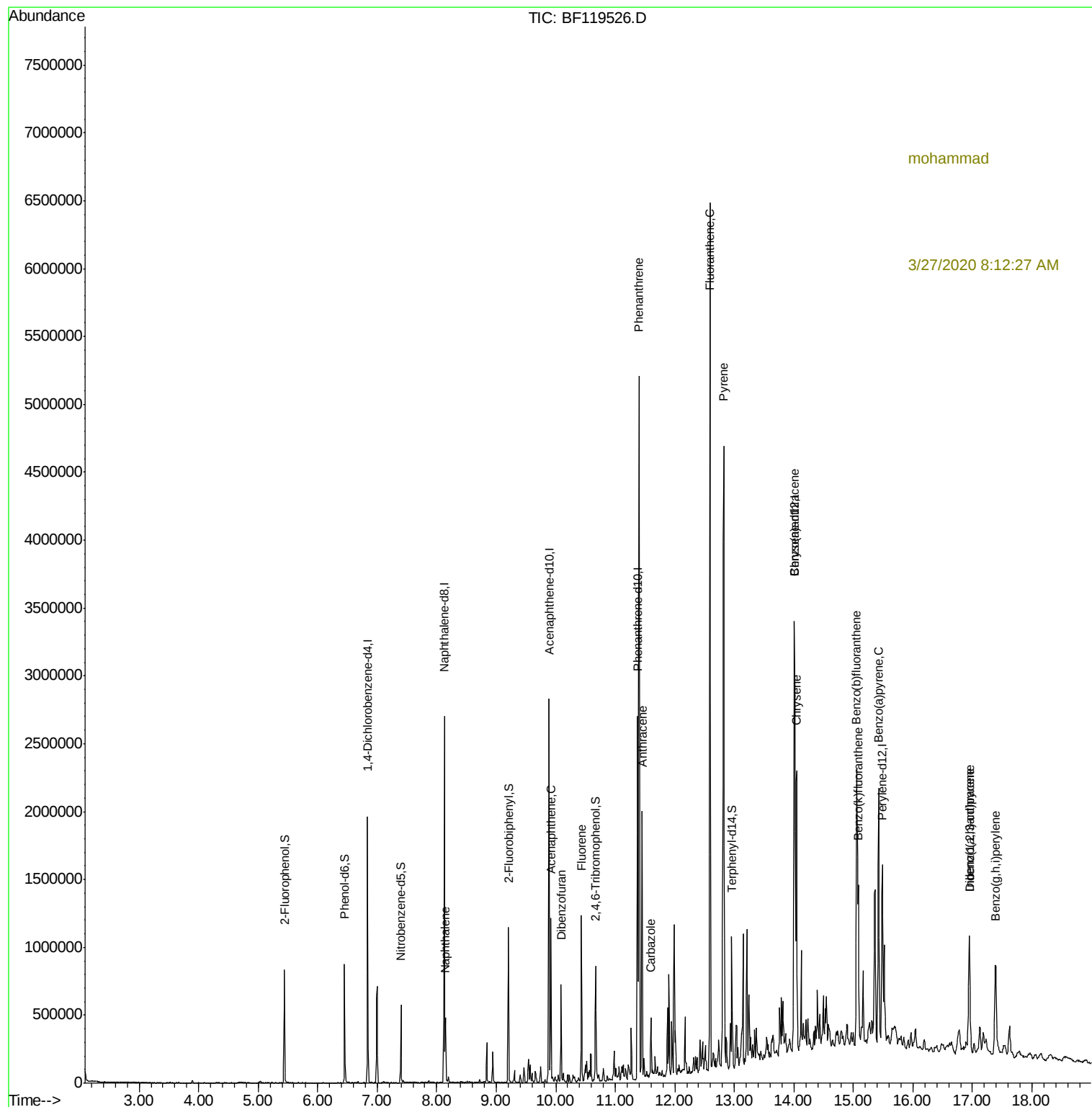
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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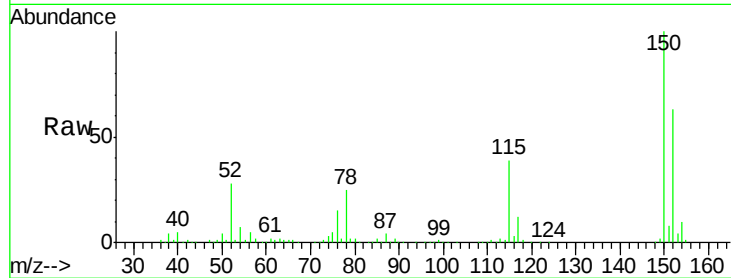


#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.84 min Scan# 808
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

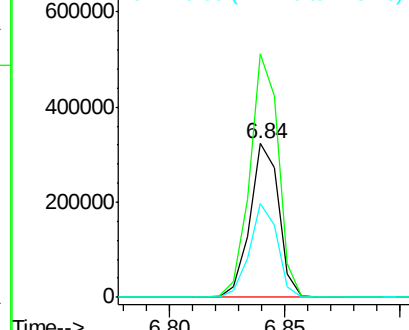
Instrument :
 BNA_F
 ClientSampled :
 TP-3A

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	123.9	185.9
115	61.1	47.8	71.6

Manual Integrations
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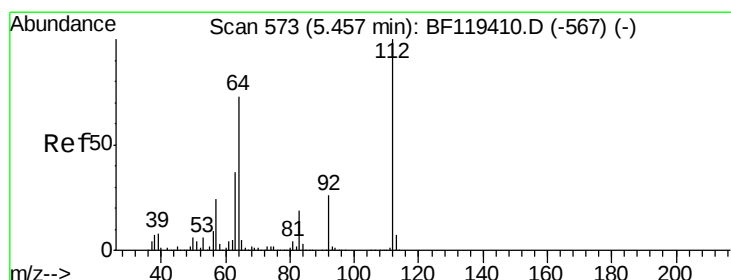
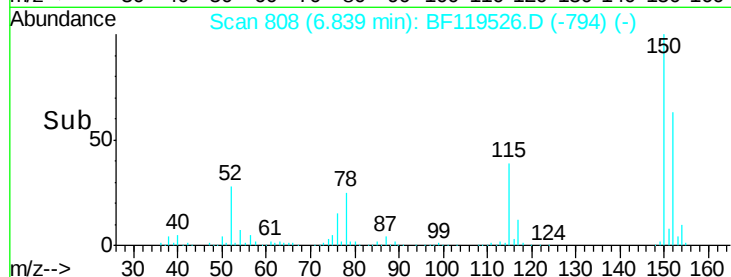


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



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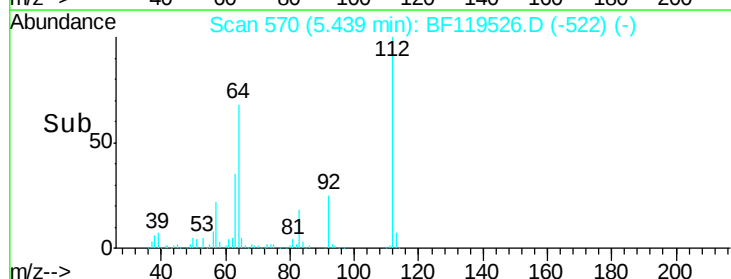
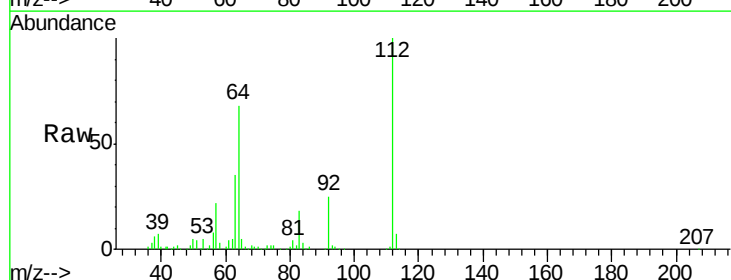
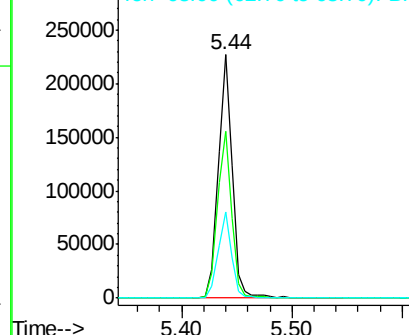
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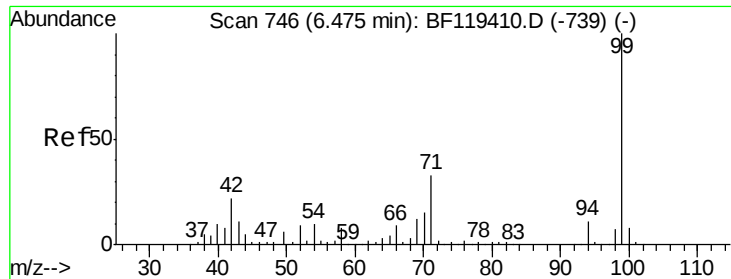


#5
 2-Fluorophenol
 Concen: 11.125 ng
 RT: 5.44 min Scan# 570
 Delta R.T. -0.02 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.4	58.1	87.1
63	35.4	29.7	44.5

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: 11.306 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampled :

TP-3A

Tot Ion: 99 Resp: 255878

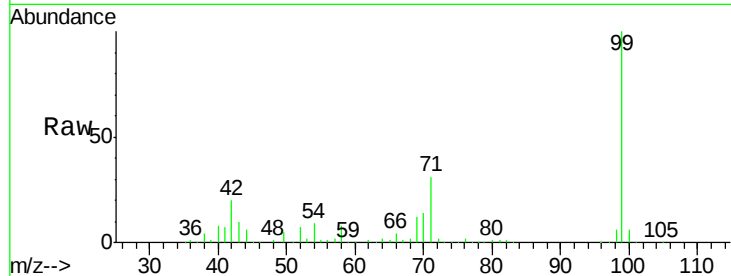
Ion Ratio Lower Upper

99 100

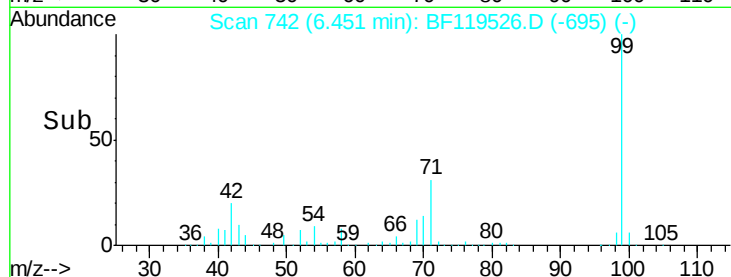
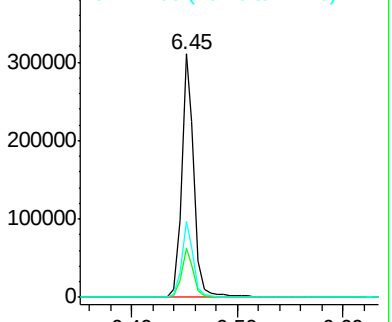
42 20.3 17.8 26.6

71 31.0 26.0 39.0

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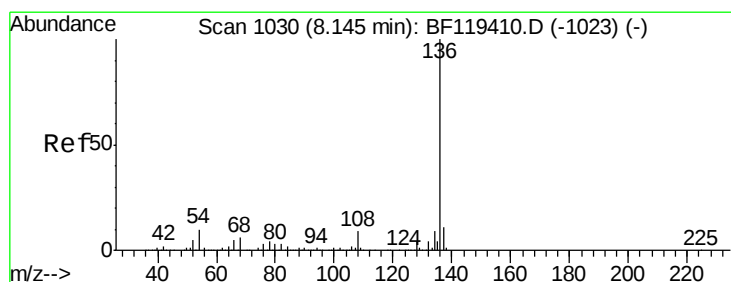


Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.13 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Tgt Ion: 136 Resp: 1058901

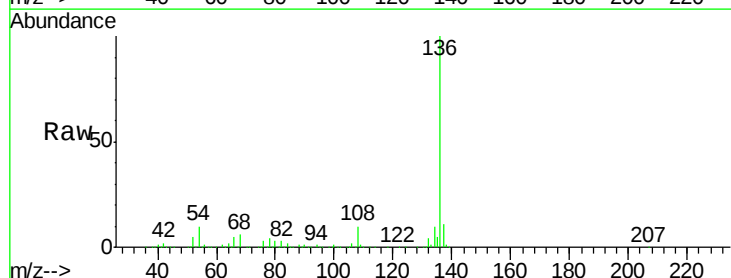
Ion Ratio Lower Upper

136 100

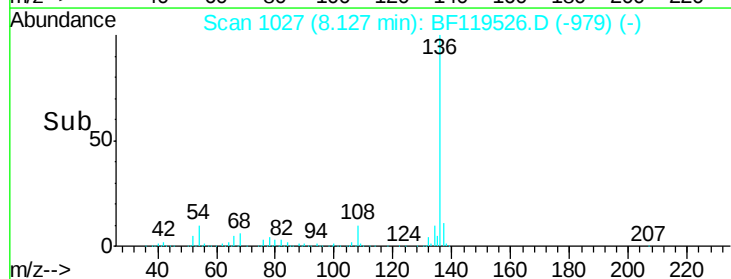
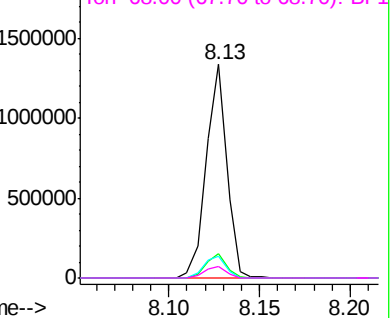
137 11.1 8.4 12.6

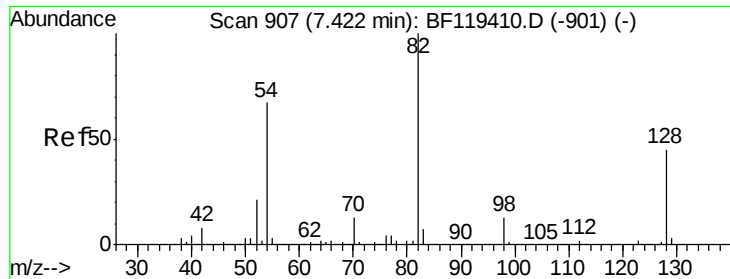
54 10.1 8.3 12.5

68 5.6 4.9 7.3



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



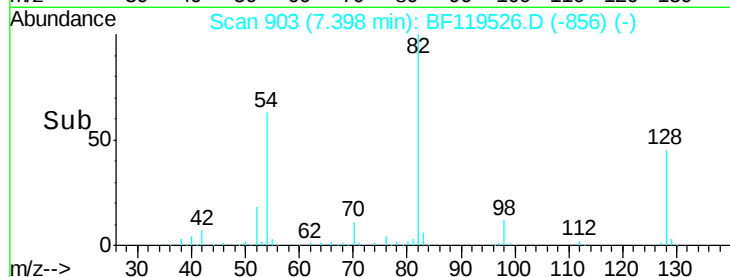
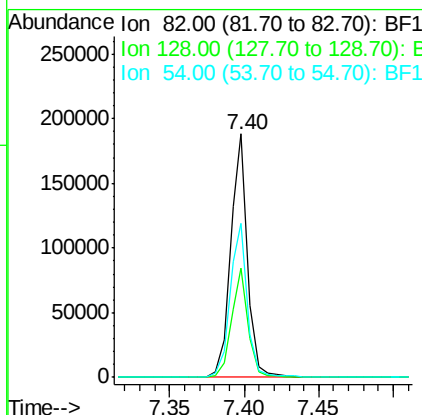
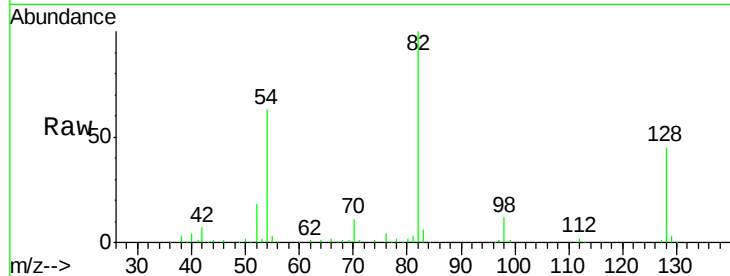


#23
Nitrobenzene-d5
Concen: 7.756 ng
RT: 7.40 min Scan# 903
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Instrument :
BNA_F
ClientSampleId :
TP-3A

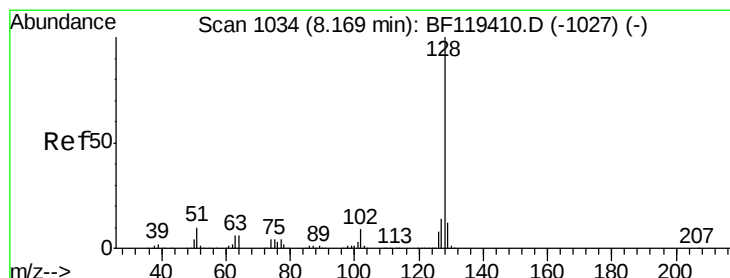
Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	44.7	35.8	53.8	
54	63.3	53.4	80.0	

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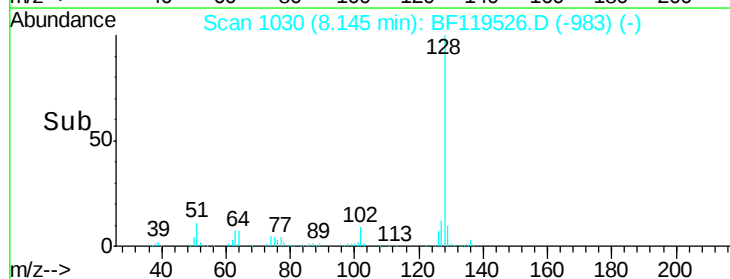
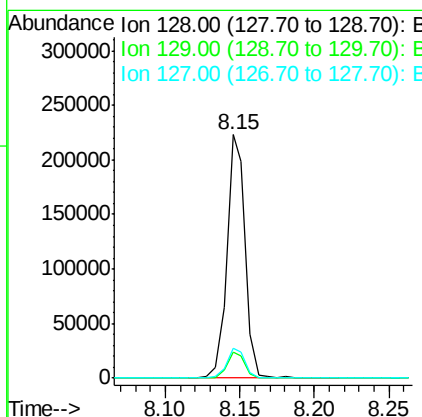
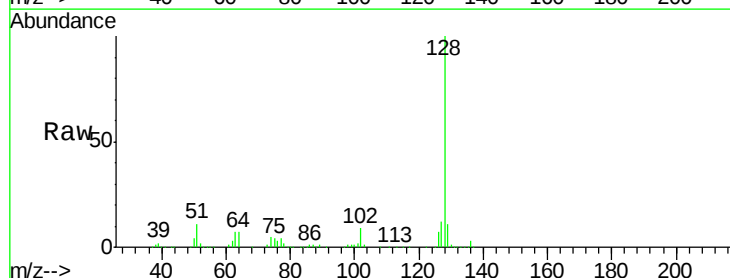
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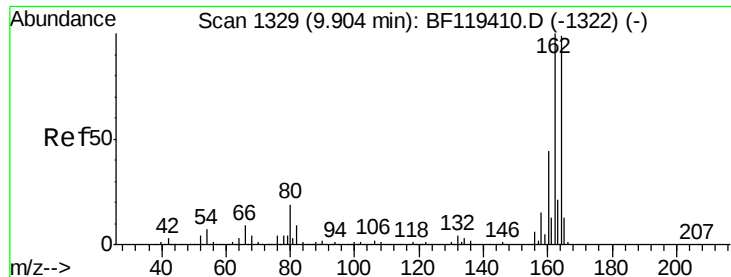
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#31
Naphthalene
Concen: 3.554 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.5	9.3	13.9	
127	12.3	11.0	16.4	



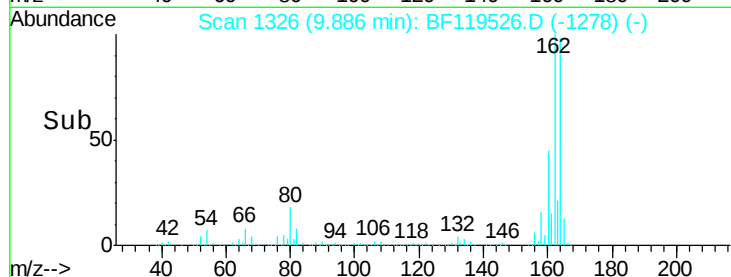
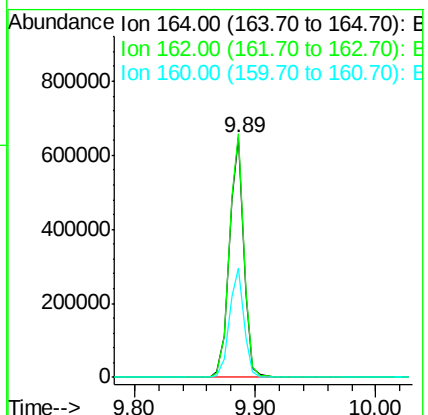
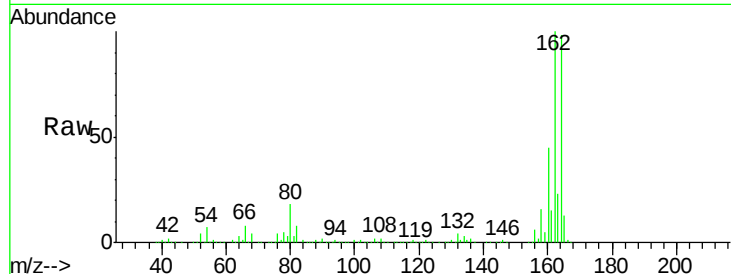


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Instrument :
BNA_F
ClientSampleId :
TP-3A

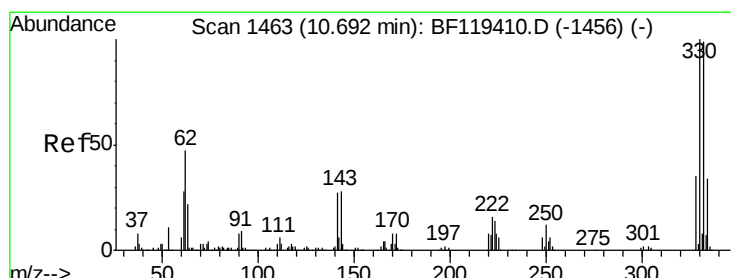
Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	101.7	538759	80.7	121.1
160	45.6		35.5	53.3

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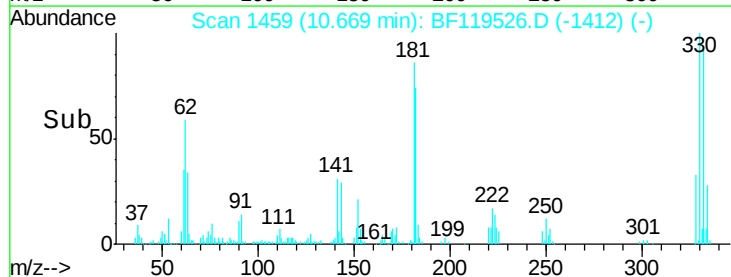
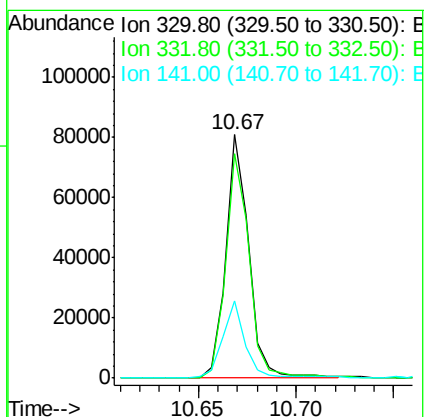
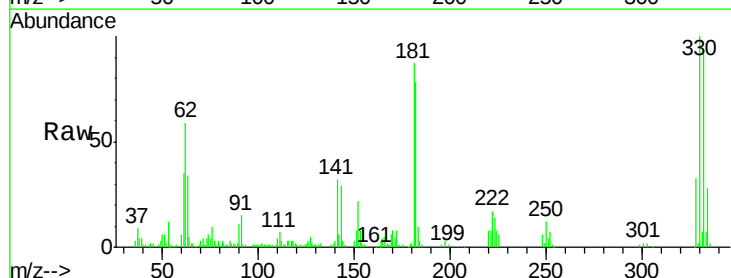
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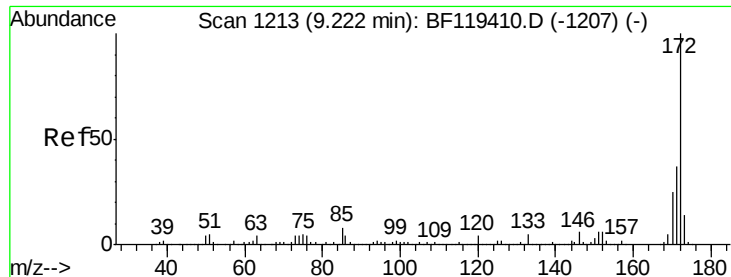
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#42
2,4,6-Tribromophenol
Concen: 11.907 ng
RT: 10.67 min Scan# 1459
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	66179		
332	94.7		77.6	116.4
141	31.1		26.6	40.0



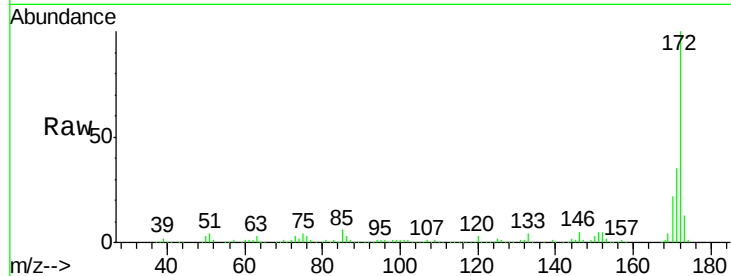


#45
2-Fluorobiphenyl
Concen: 9.036 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

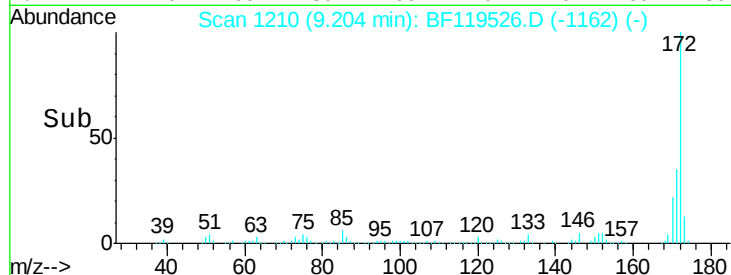
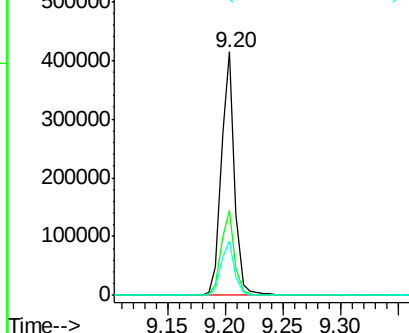
Instrument :
BNA_F
ClientSampled :
TP-3A

Tot Ion	Ratio	Resp	Lower	Upper
172	100	328610		
171	34.8		29.9	44.9
170	22.2		20.1	30.1

Manual Integrations
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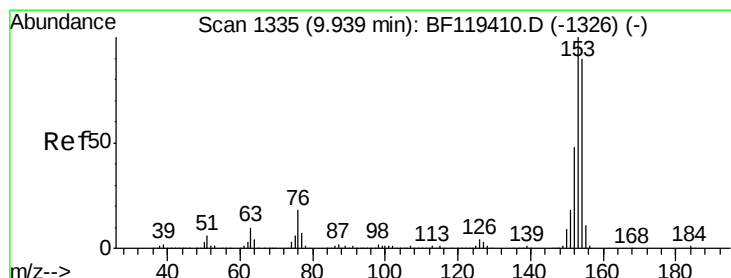


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E



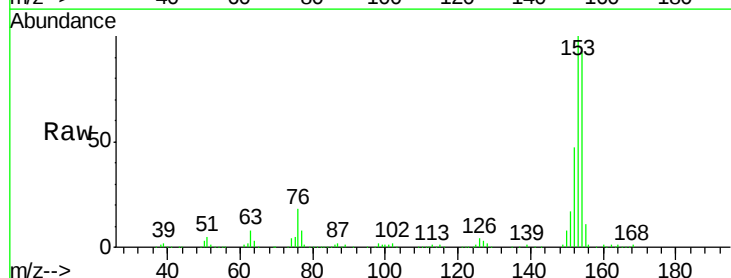
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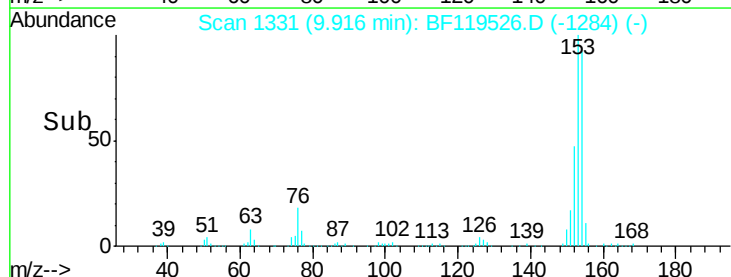
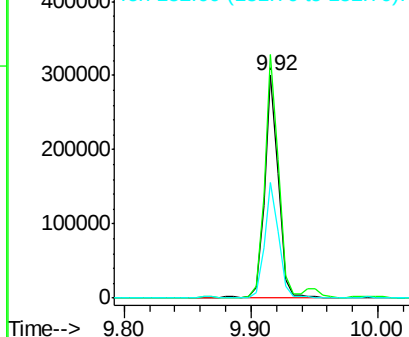


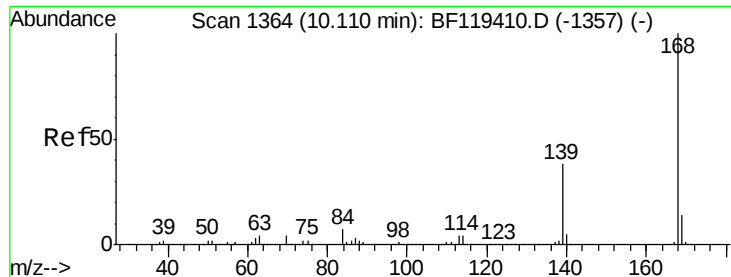
#52
Acenaphthene
Concen: 6.871 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	231187		
153	109.3		89.0	133.6
152	51.9		43.1	64.7



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



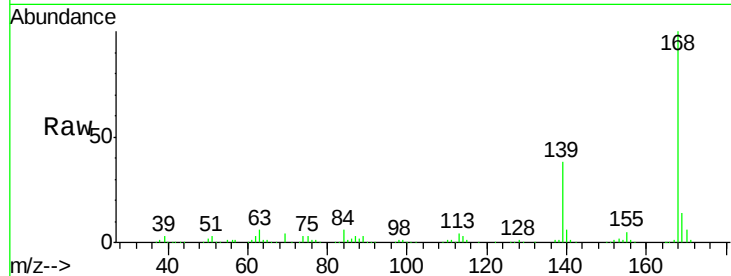


#55
Dibenzenofuran
Concen: 5.218 ng
RT: 10.09 min Scan# 1360
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

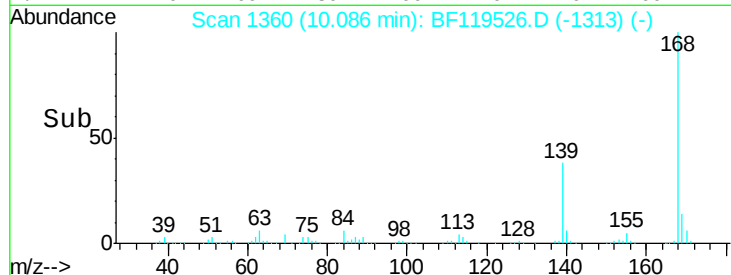
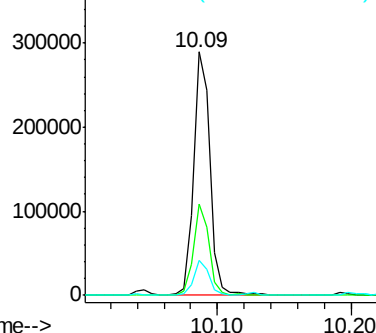
Instrument :
BNA_F
ClientSampled :
TP-3A

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.2	45.4
169	14.3	11.1	16.7

Manual Integrations
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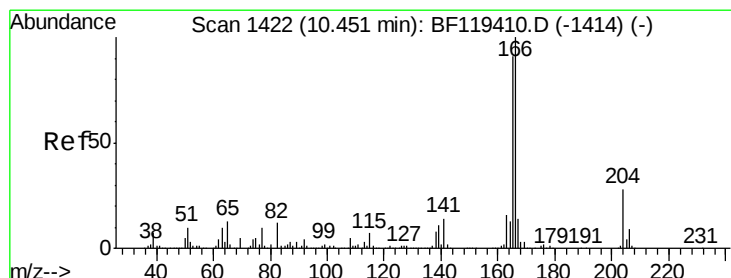


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



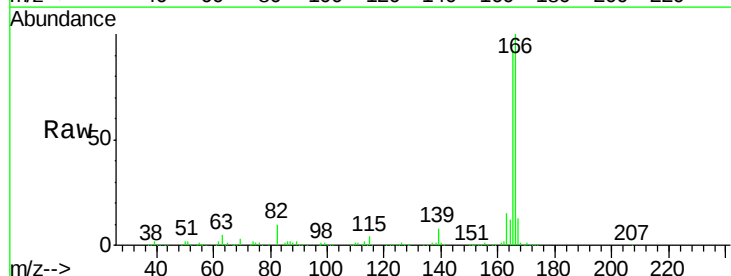
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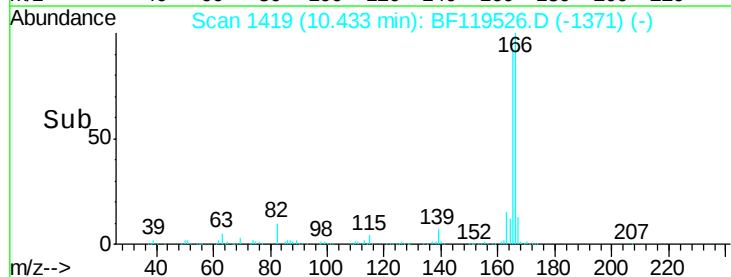
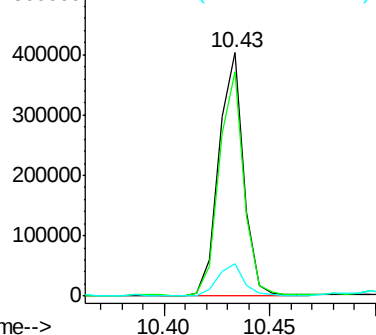


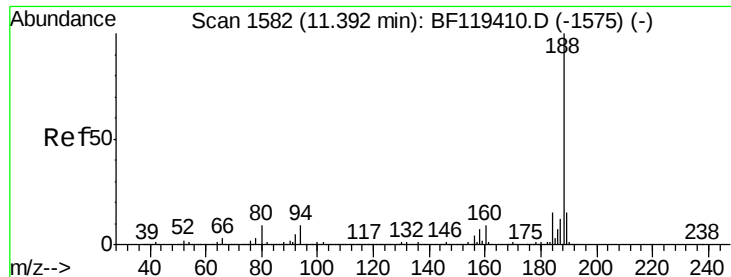
#58
Fluorene
Concen: 9.131 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.4	73.1	109.7
167	13.3	11.0	16.6



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

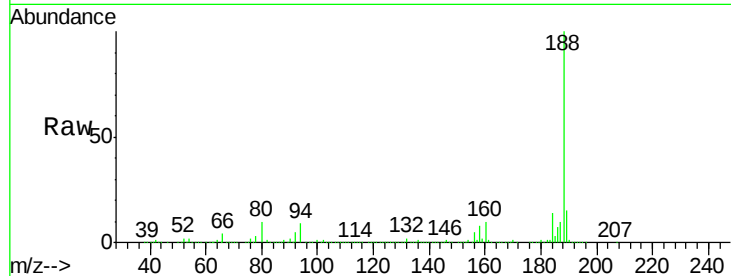
BNA_F

ClientSampled :

TP-3A

Tot Ion:	188	Resp:	971929
Ion Ratio	Lower	Upper	
188	100		
94	9.1	7.1	10.7
80	9.9	7.5	11.3

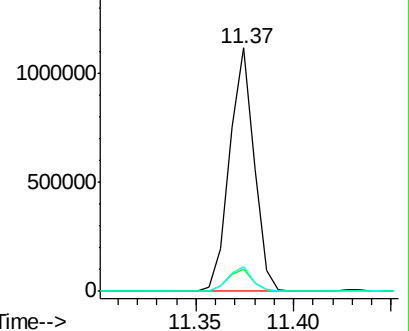
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Abundance Ion 188.00 (187.70 to 188.70): E

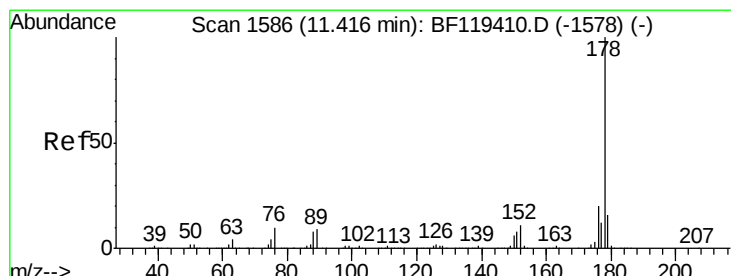
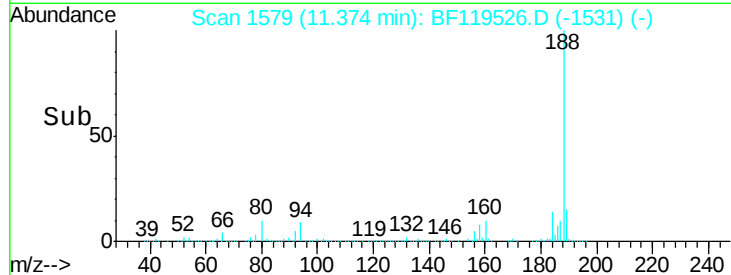
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



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#71

Phenanthrene

Concen: 38.068 ng

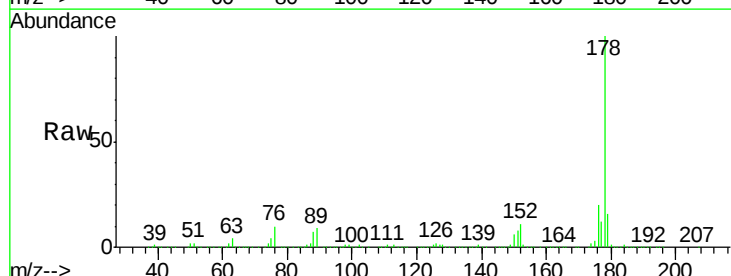
RT: 11.40 min Scan# 1583

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

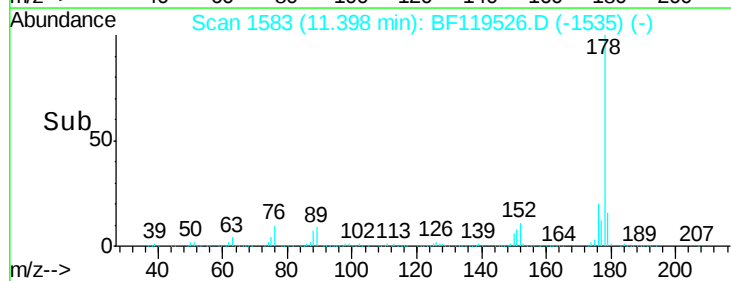
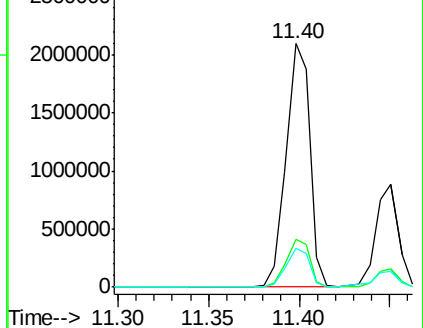
Tgt Ion:	178	Resp:	1918534
Ion Ratio	Lower	Upper	
178	100		
176	19.6	16.2	24.4
179	16.1	12.9	19.3

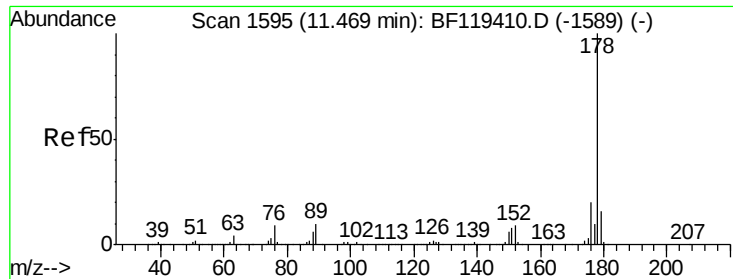


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 14.593 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

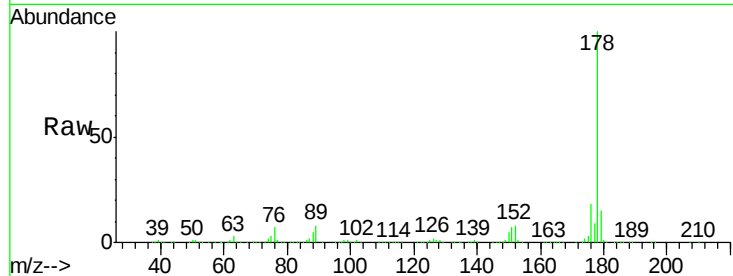
BNA_F

ClientSampled :

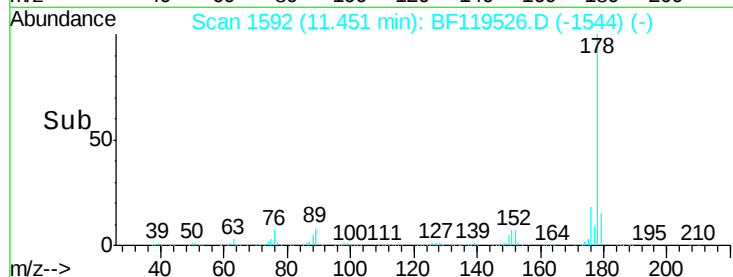
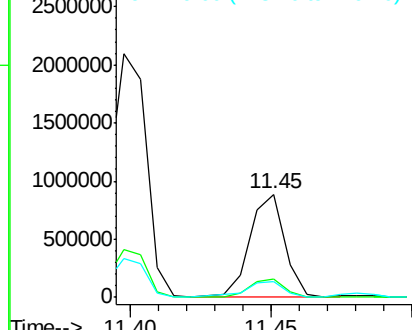
TP-3A

Tot Ion:	178	Resp:	747482
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.6	23.4
179	14.8	13.1	19.7

Manual Integrations
APPROVED

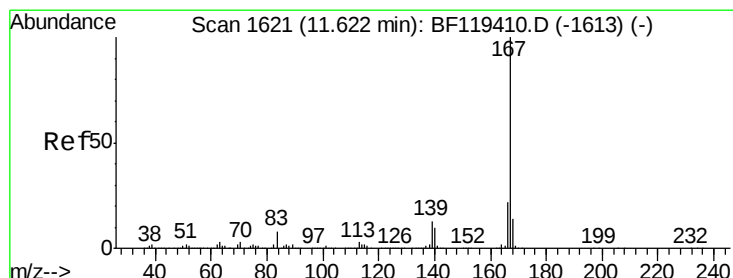


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



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#73

Carbazole

Concen: 3.156 ng

RT: 11.60 min Scan# 1617

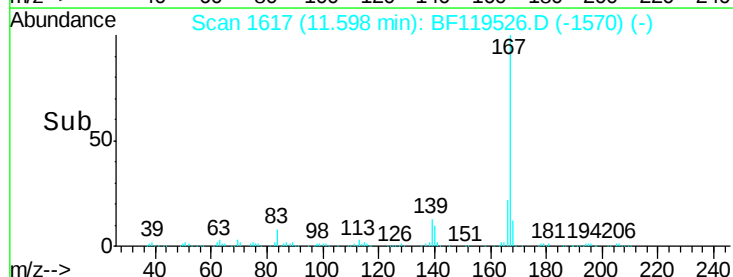
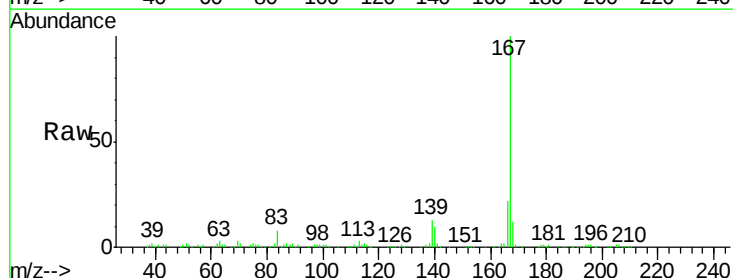
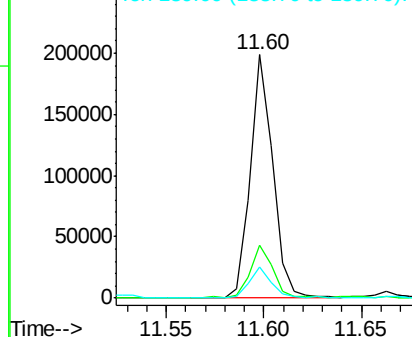
Delta R.T. -0.02 min

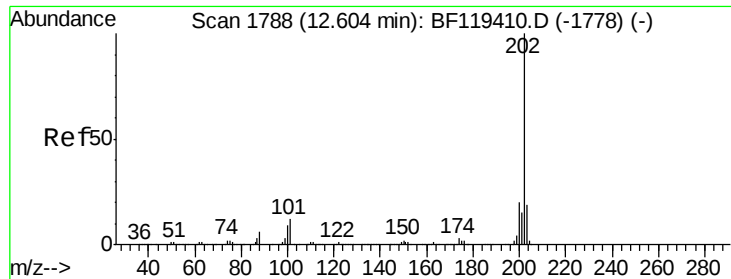
Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Tgt Ion:	167	Resp:	159989
Ion Ratio	Lower	Upper	
167	100		
166	22.0	17.8	26.6
139	13.0	10.2	15.4

Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 44.860 ng

RT: 12.59 min Scan# 1786

Delta R.T. -0.01 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

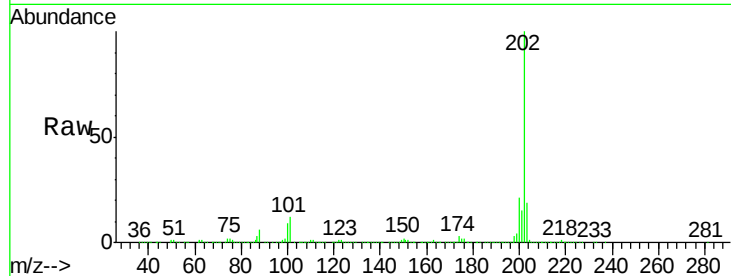
BNA_F

ClientSampled :

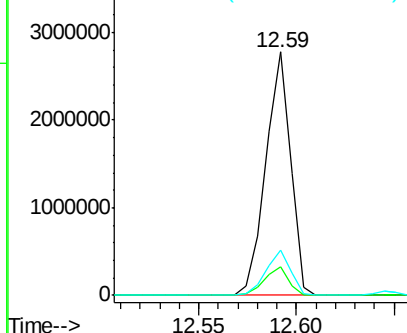
TP-3A

Tot Ion:	202	Resp:	2446747
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	32.4
203	18.6	0.0	38.5

Manual Integrations
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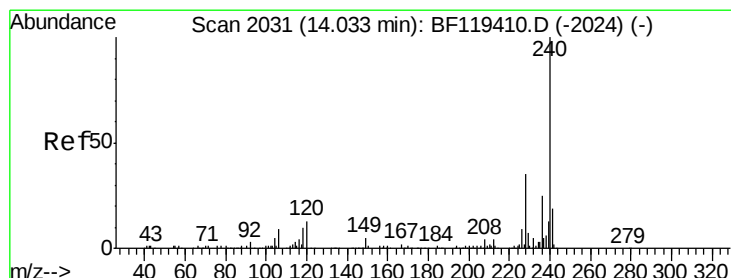
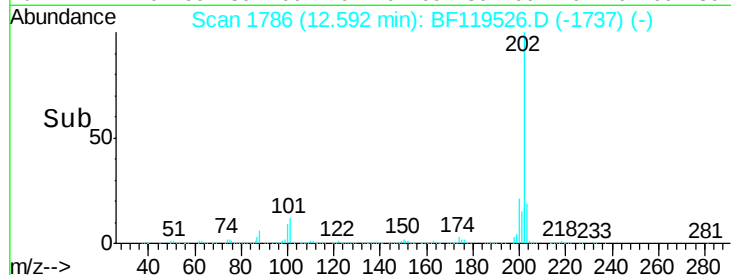


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



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#76

Chrysene-d12

Concen: 20.000 ng

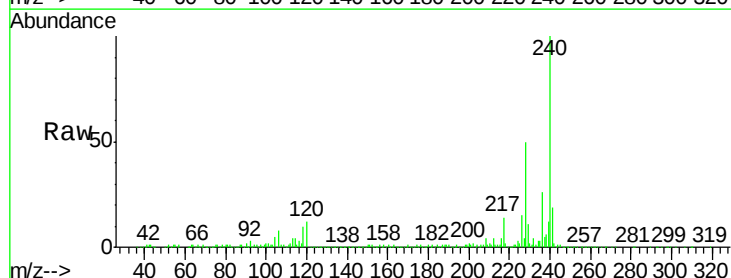
RT: 14.02 min Scan# 2028

Delta R.T. -0.02 min

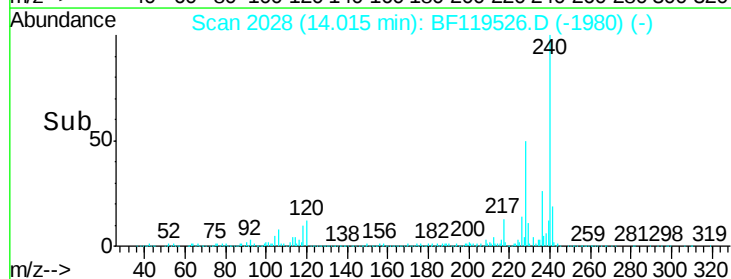
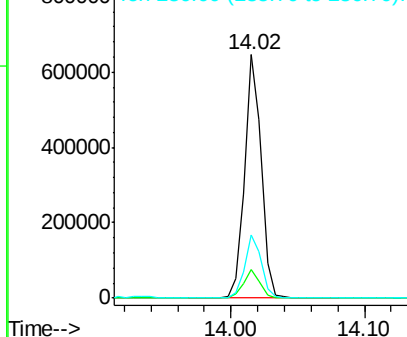
Lab File: BF119526.D

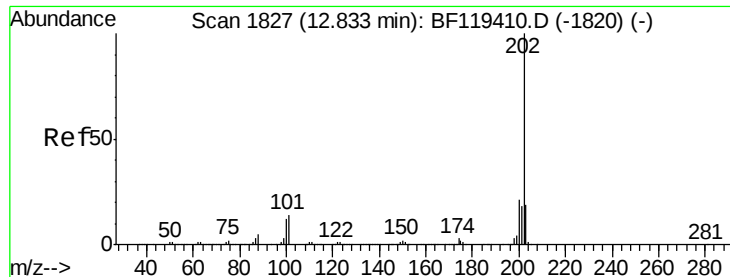
Acq: 26 Mar 2020 4:21

Tgt Ion:	240	Resp:	551037
Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.2	15.4
236	25.9	20.4	30.6



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



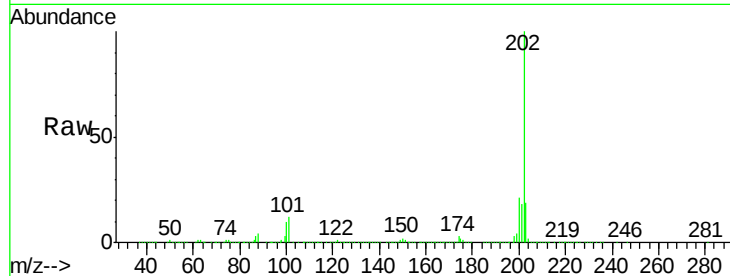


#78
Pvrene
Concen: 44.329 ng
RT: 12.82 min Scan# 1825
Delta R.T. -0.01 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

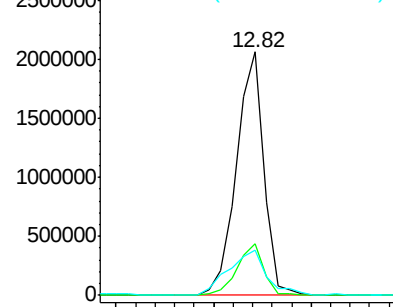
Instrument :
BNA_F
ClientSampled :
TP-3A

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	18.6	14.8	22.2

Manual Integrations
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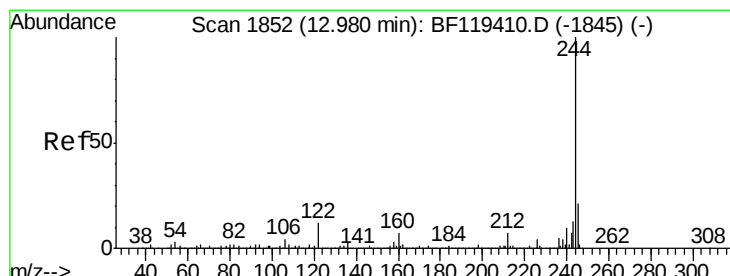
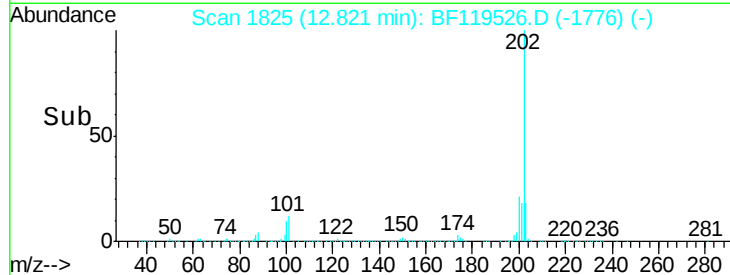


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



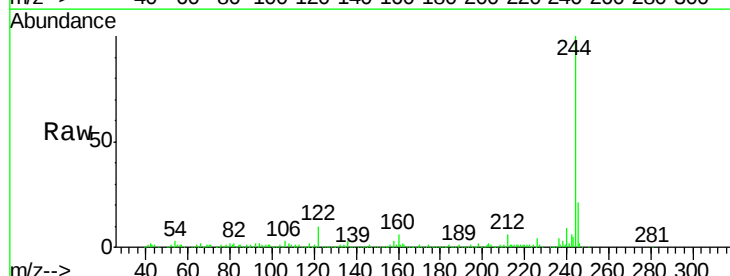
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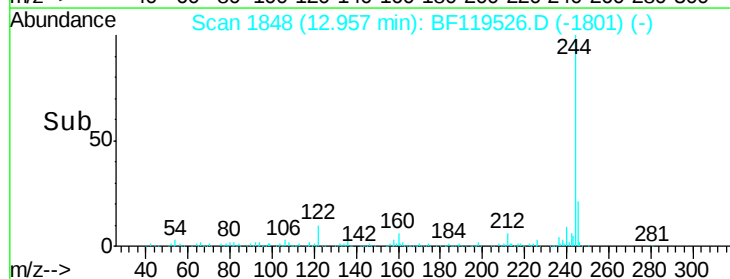
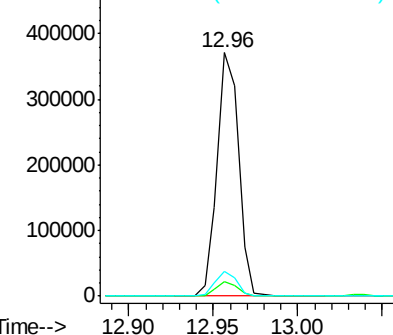


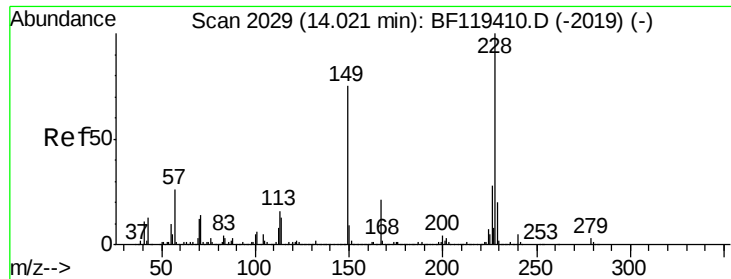
#79
Terphenyl-d14
Concen: 11.654 ng
RT: 12.96 min Scan# 1848
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	5.8	5.7	8.5
122	10.2	9.8	14.8



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 28.159 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

Instrument :

BNA_F

ClientSampleId :

TP-3A

Tot Ion:228 Resp: 1009013

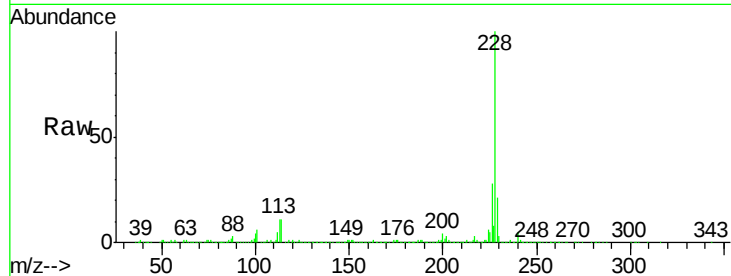
Ion Ratio Lower Upper

228 100

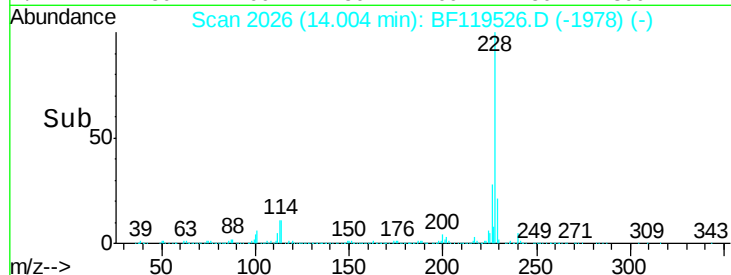
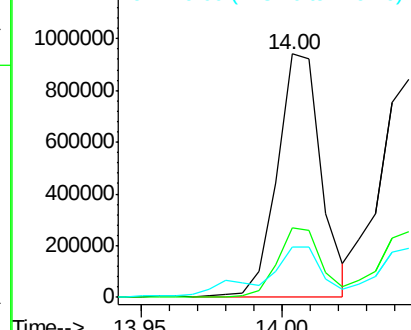
226 28.5 22.3 33.5

229 20.9 16.3 24.5

Manual Integrations
APPROVED

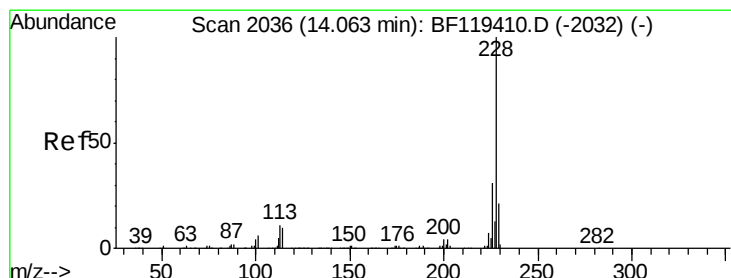


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



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#83

Chrysene

Concen: 22.980 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.02 min

Lab File: BF119526.D

Acq: 26 Mar 2020 4:21

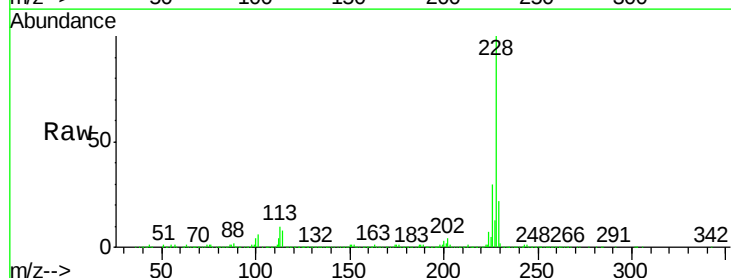
Tgt Ion:228 Resp: 849832

Ion Ratio Lower Upper

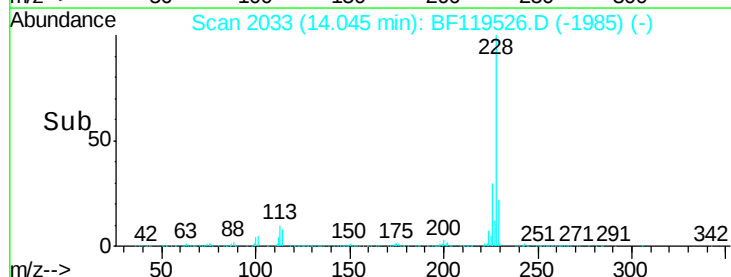
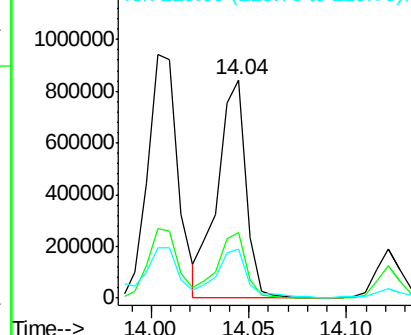
228 100

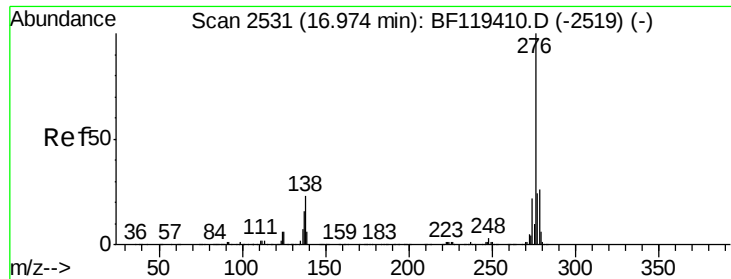
226 29.9 24.8 37.2

229 22.2 16.6 25.0



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



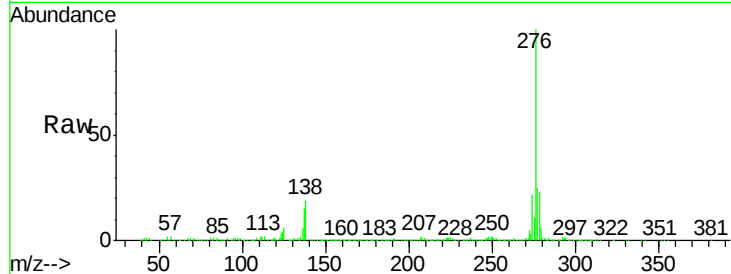


#86
Indeno(1,2,3-cd)pyrene
Concen: 17.799 ng
RT: 16.95 min Scan# 2527
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

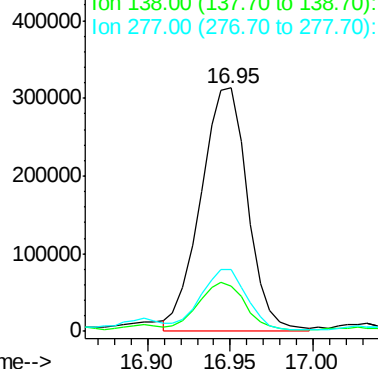
Instrument :
BNA_F
ClientSampleId :
TP-3A

Tot Ion	Ratio	Lower	Upper
276	100		
138	4.0	21.3	31.9#
277	4.4	20.2	30.2#

Manual Integrations
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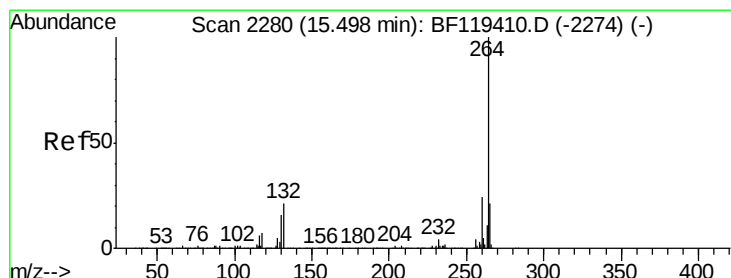
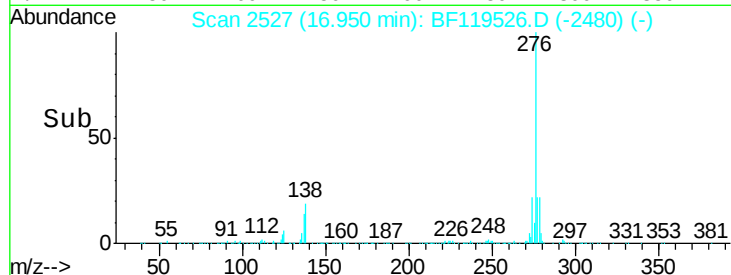


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



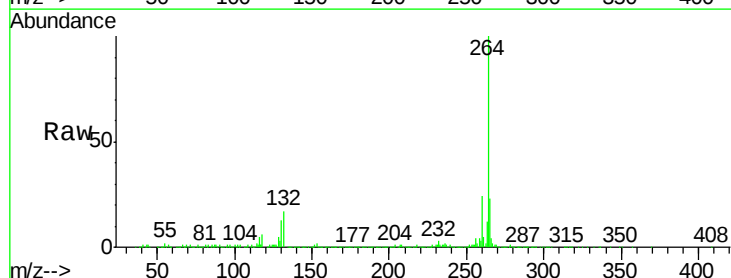
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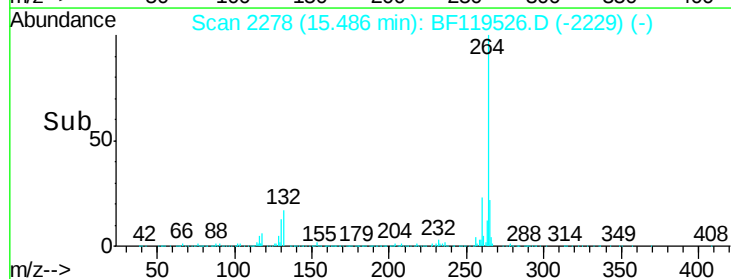
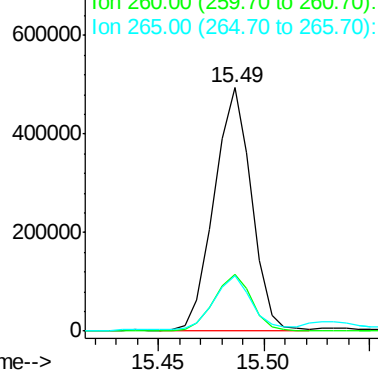


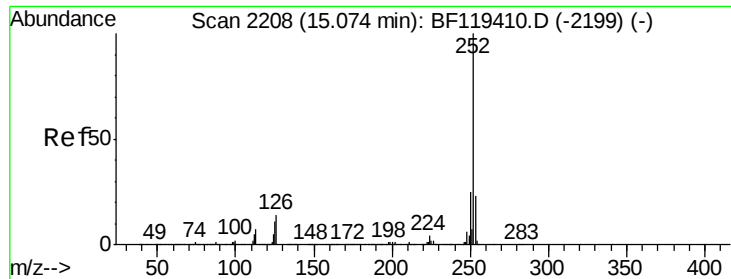
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.7	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



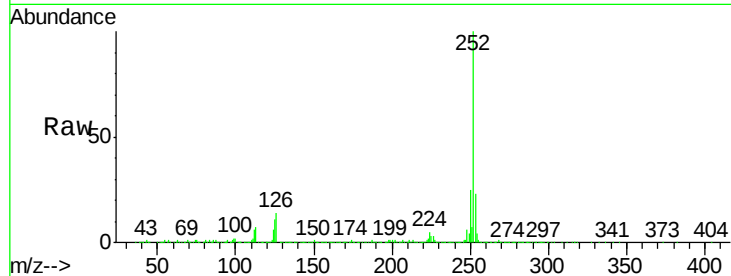


#88
Benzo(b)fluoranthene
Concen: 30.935 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

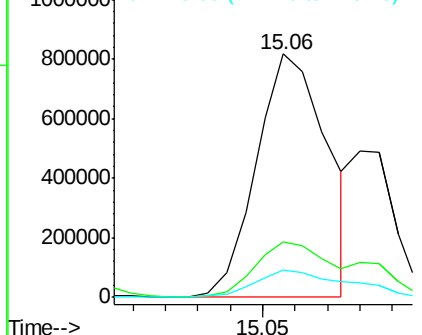
Instrument :
BNA_F
ClientSampled :
TP-3A

Tot Ion:252 Resp: 1248420
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.4
125 11.3 8.8 13.2

Manual Integrations
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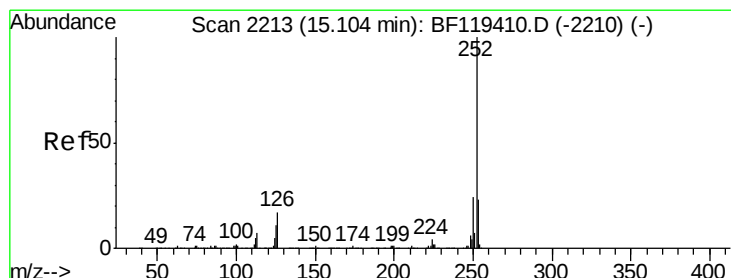
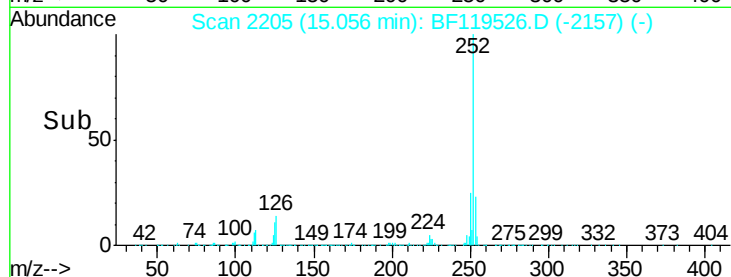


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



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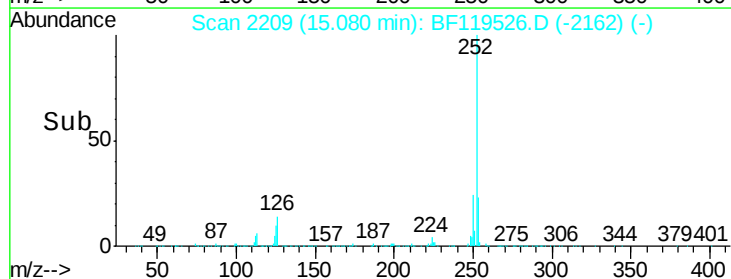
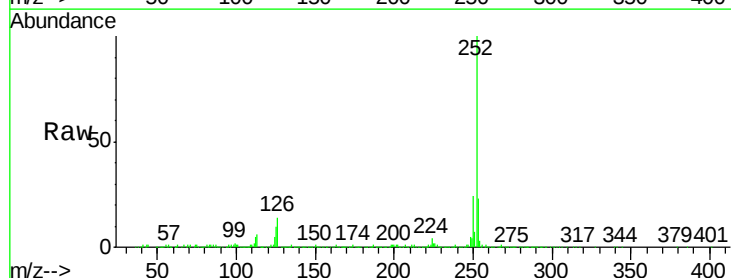
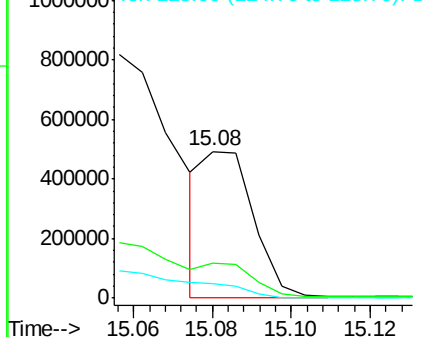
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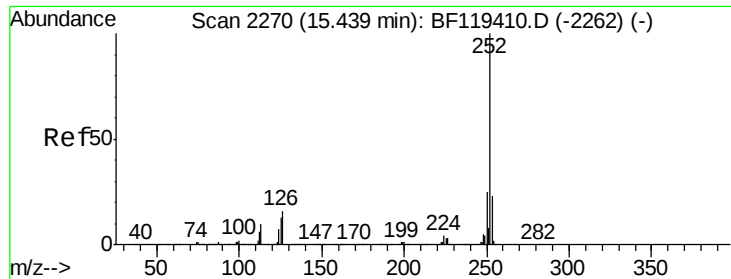


#89
Benzo(k)fluoranthene
Concen: 11.472 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion:252 Resp: 440822
Ion Ratio Lower Upper
252 100
253 23.5 18.2 27.4
125 10.3 9.0 13.4

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



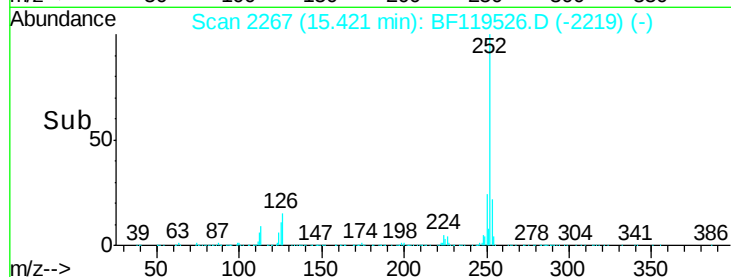
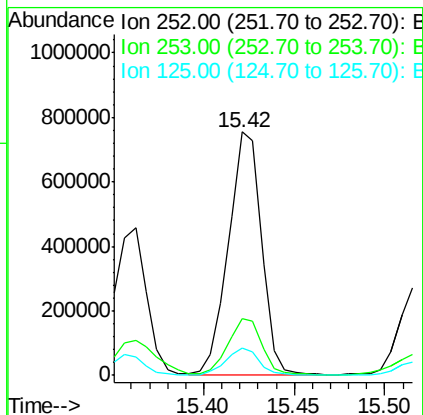
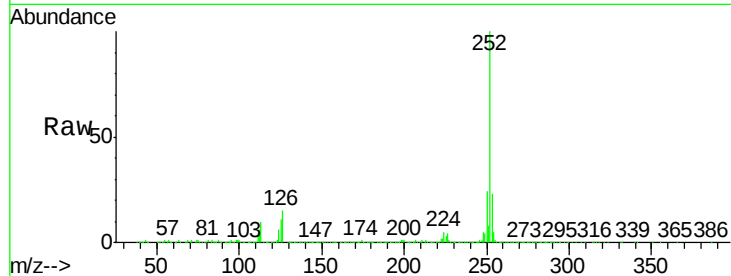


#90
Benzo(a)pyrene
Concen: 26.107 ng
RT: 15.42 min Scan# 2267
Delta R.T. -0.02 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Instrument :
BNA_F
ClientSampleId :
TP-3A

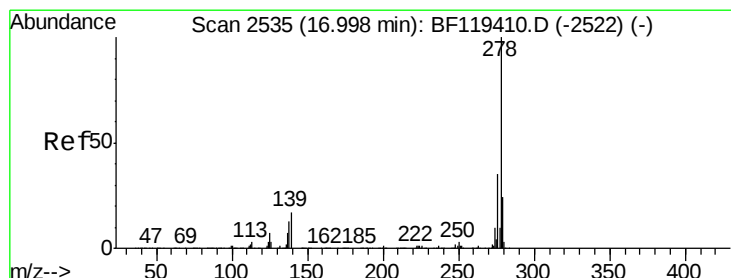
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.2	27.4
125	11.3	10.2	15.2

Manual Integrations
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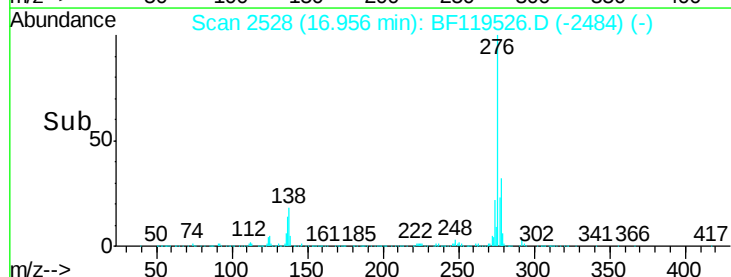
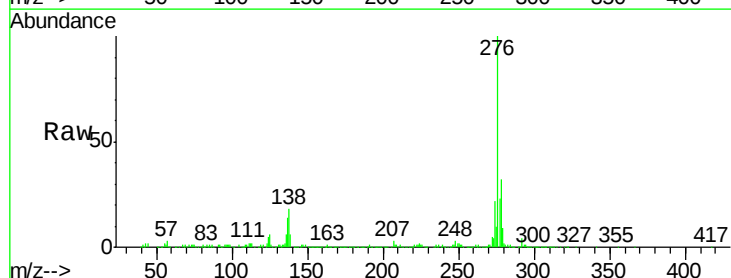
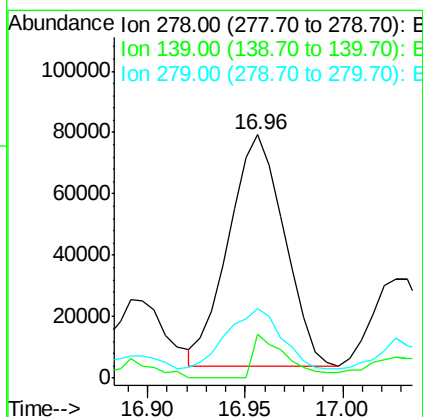
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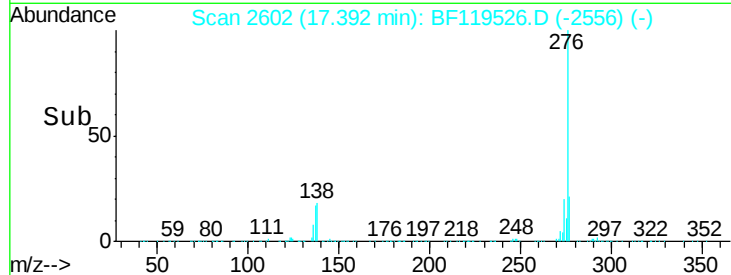
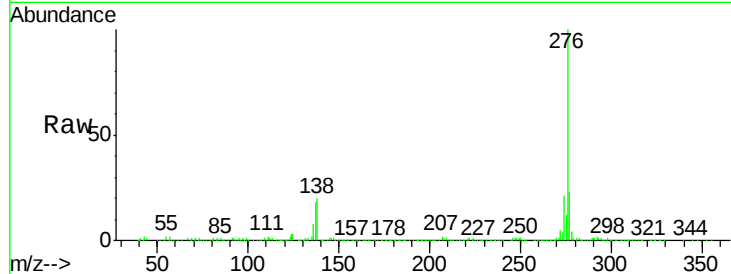
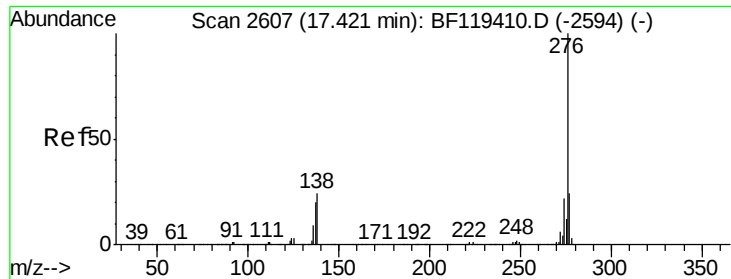
3/27/2020 8:12:27 AM



#91
Dibenzo(a,h)anthracene
Concen: 4.636 ng
RT: 16.96 min Scan# 2528
Delta R.T. -0.04 min
Lab File: BF119526.D
Acq: 26 Mar 2020 4:21

Tgt Ion	Ratio	Lower	Upper
278	100		
139	18.1	13.7	20.5
279	28.6	19.2	28.8



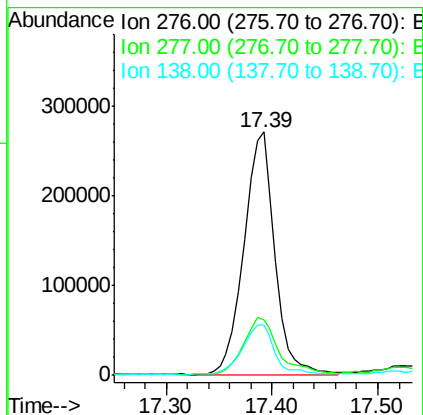


#92
 Benzo(a,h,i)perylene
 Concen: 17.053 ng
 RT: 17.39 min Scan# 2602
 Delta R.T. -0.03 min
 Lab File: BF119526.D
 Acq: 26 Mar 2020 4:21

Instrument :
 BNA_F
 ClientSampleId :
 TP-3A

Tot Ion:	276	Resp:	549562
Ion Ratio	Lower	Upper	
276	100		
277	22.7	18.8	28.2
138	20.5	19.1	28.7

Manual Integrations
 APPROVED



mohammad

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