

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
 Data File : BF114378.D
 Acq On : 18 May 2019 4:41
 Operator : JU/SJ
 Sample : K2866-04DL 2X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-2DL

Manual Integrations
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Quant Time: May 18 06:48:42 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	175360	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	713397	20.00	ng	0.00
39) Acenaphthene-d10	9.89	164	341212	20.00	ng	0.00
64) Phenanthrene-d10	11.38	188	612062	20.00	ng	0.01
76) Chrysene-d12	14.03	240	405365	20.00	ng	0.00
87) Perylene-d12	15.50	264	367680	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	644777	59.17	ng	0.00
7) Phenol-d6	6.49	99	869824	67.49	ng	0.00
23) Nitrobenzene-d5	7.41	82	373624	29.39	ng	0.00
42) 2,4,6-Tribromophenol	10.68	330	167211	47.40	ng	0.00
45) 2-Fluorobiphenyl	9.20	172	935707	41.48	ng	0.00
79) Terphenyl-d14	12.96	244	828667	42.14	ng	0.00
Target Compounds						
50) Dimethylphthalate	9.60	163	124328	4.964	ng	Qvalue # 98
52) Acenaphthene	9.92	154	197744	9.551	ng	96
58) Fluorene	10.43	166	139656	5.955	ng	98
71) Phenanthrene	11.41	178	1960394	65.835	ng	99
72) Anthracene	11.46	178	456101	15.250	ng	98
73) Carbazole	11.61	167	69014	2.420	ng	# 83
74) Di-n-butylphthalate	11.93	149	288324	8.775	ng	# 96
75) Fluoranthene	12.60	202	1795596	55.996	ng	99
78) Pyrene	12.84	202	2735404	83.883	ng	98
81) Benzo(a)anthracene	14.02	228	1135393	43.305	ng	99
83) Chrysene	14.06	228	1030014	40.076	ng	100
86) Indeno(1,2,3-cd)pyrene	16.99	276	239929	10.563	ng	97
88) Benzo(b)fluoranthene	15.07	252	721774m	30.641	ng	
89) Benzo(k)fluoranthene	15.10	252	276002m	12.755	ng	
90) Benzo(a)pyrene	15.44	252	568530	27.424	ng	98
91) Dibenzo(a,h)anthracene	16.99	278	86793	5.038	ng	# 90
92) Benzo(g,h,i)perylene	17.43	276	233560	13.529	ng	97

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

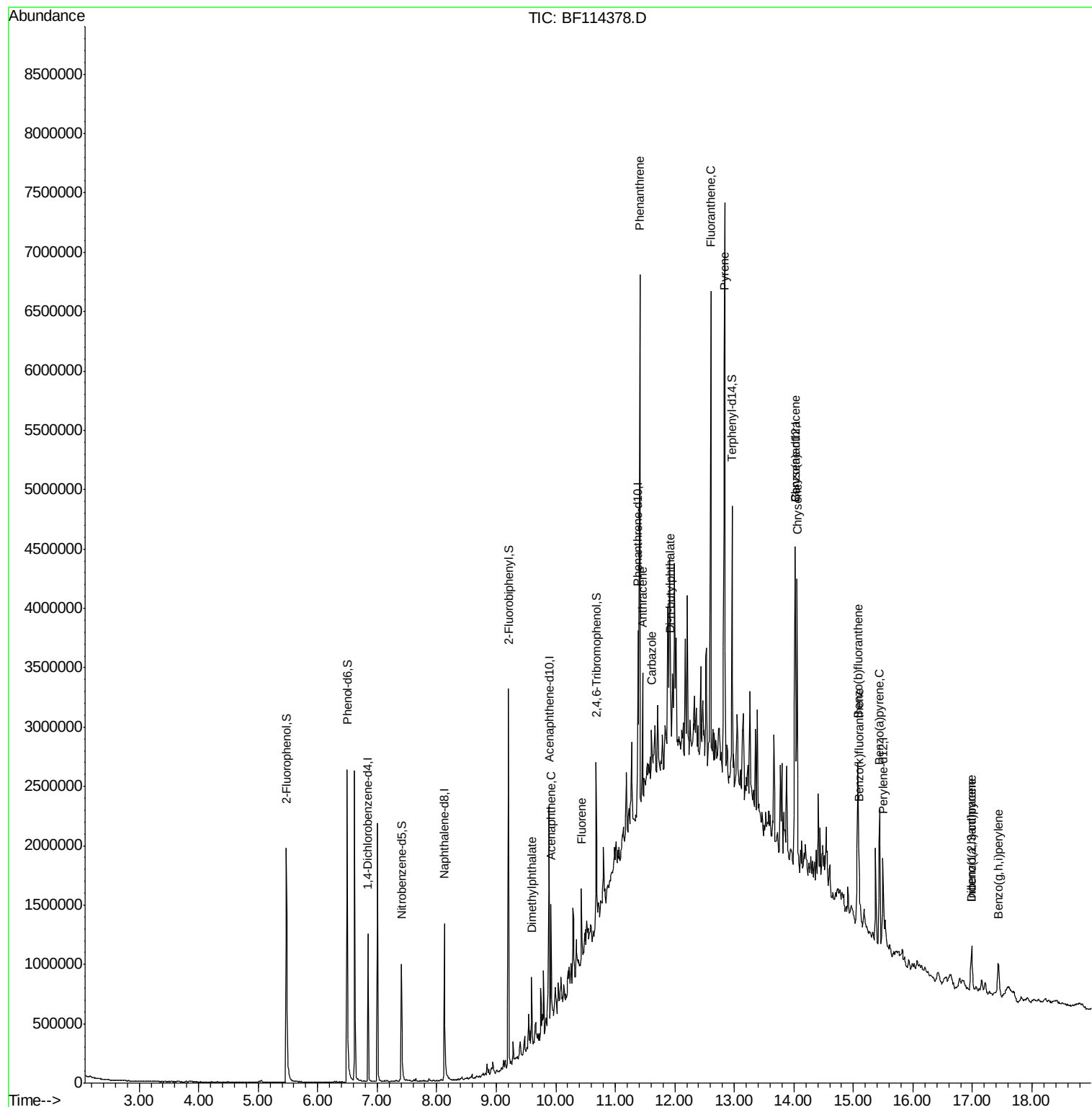
Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF051719\
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ALS Vial : 38 Sample Multiplier: 1

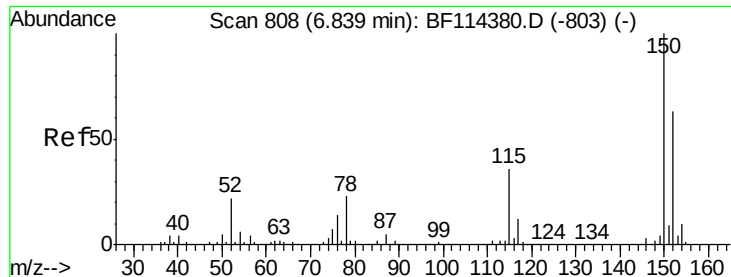
Instrument :
BNA_F
ClientSampled :
RO-COMP-2DL

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Quant Time: May 18 06:48:42 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
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#1

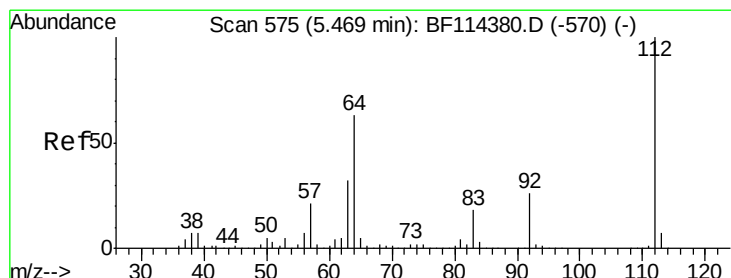
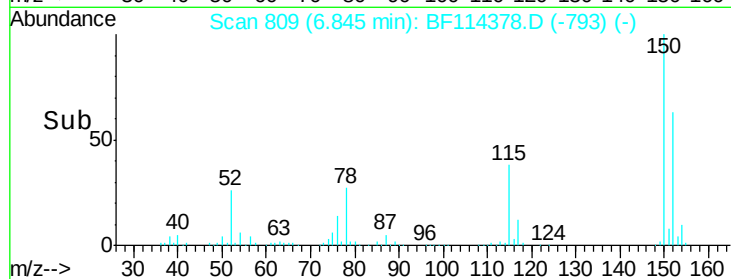
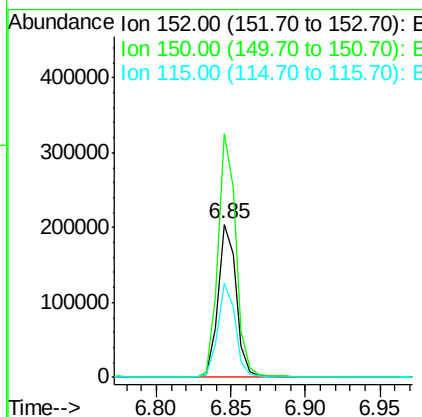
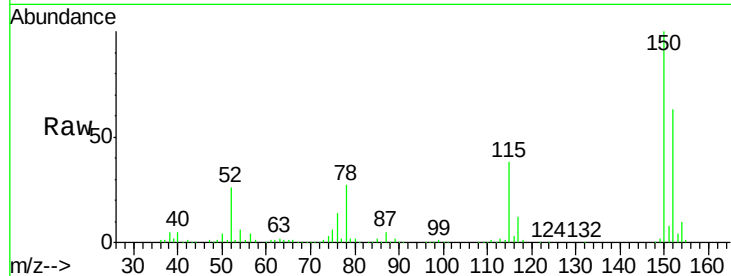
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Instrument :
BNA_F
ClientSampleId :
RO-COMP-2DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.9	124.3	186.5
115	61.1	49.1	73.7

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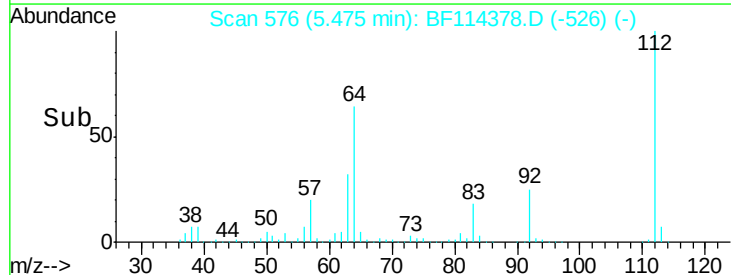
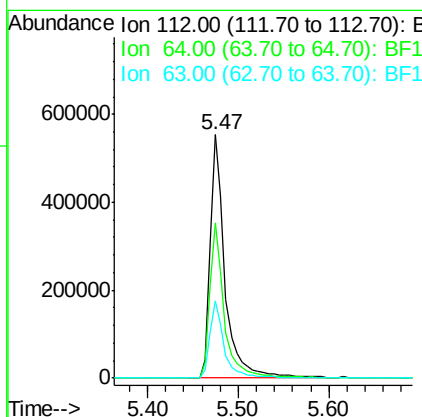
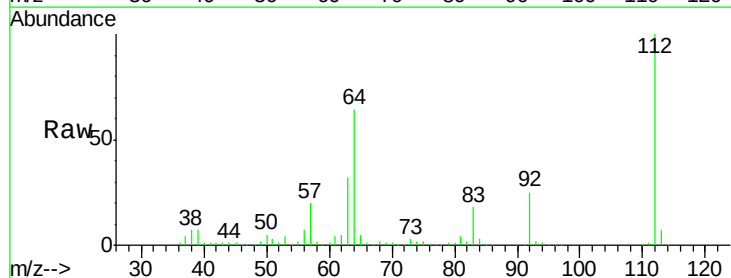
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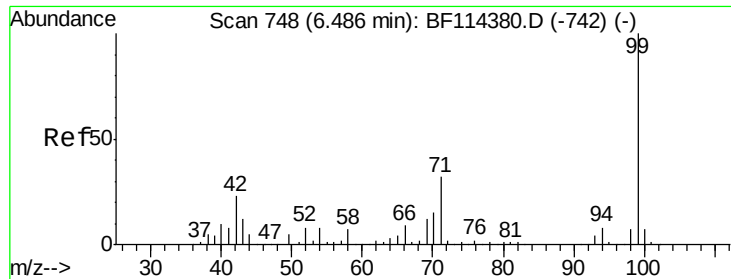


#5

2-Fluorophenol
Concen: 59.171 ng
RT: 5.47 min Scan# 576
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.8	49.0	73.6
63	31.5	24.6	37.0





#7

Phenol-d6

Concen: 67.490 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.00 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

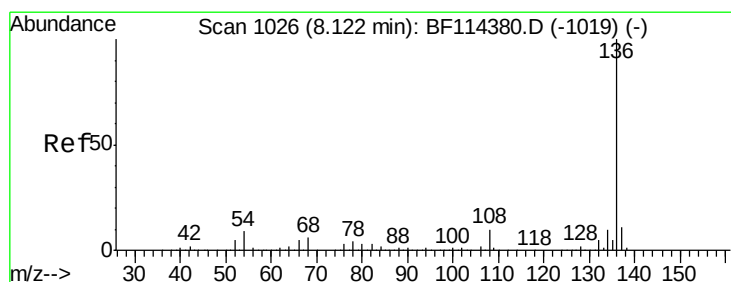
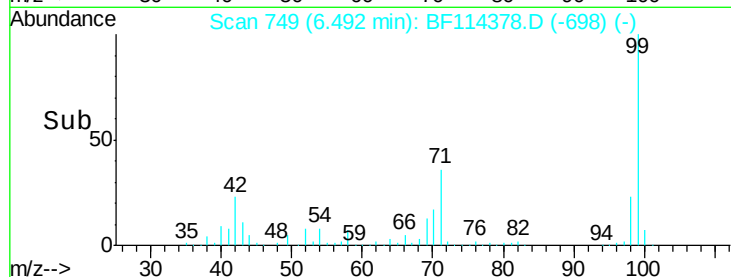
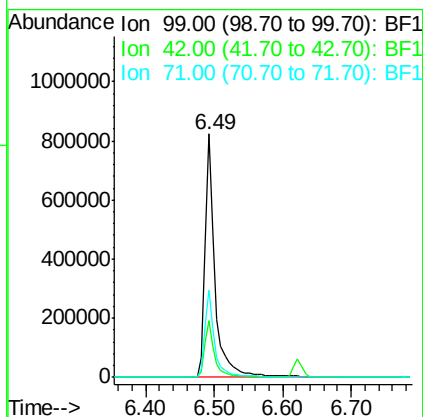
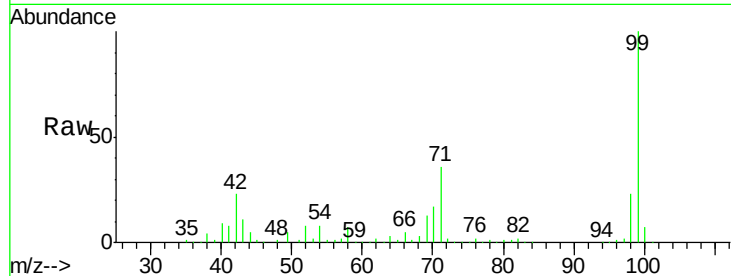
ClientSampled :

RO-COMP-2DL

Tgt Ion:	99	Resp:	869824
Ion Ratio	Lower	Upper	
99	100		
42	23.5	17.9	26.9
71	35.7	26.2	39.2

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#21

Naphthalene-d8

Concen: 20.000 ng

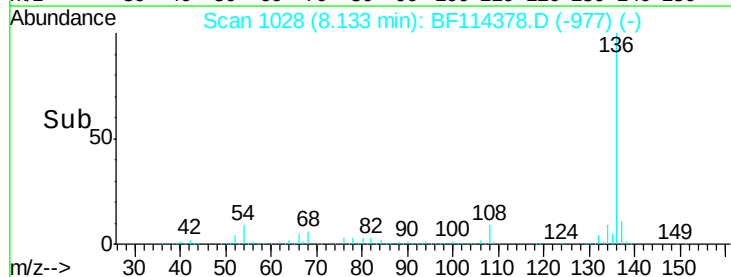
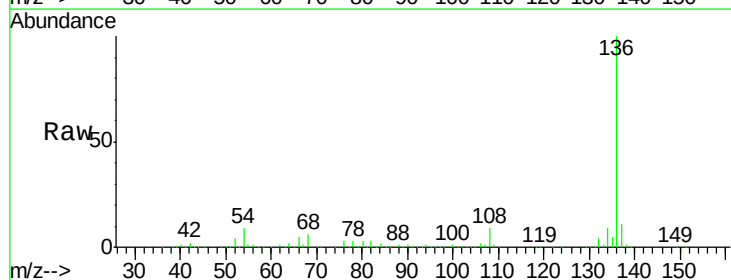
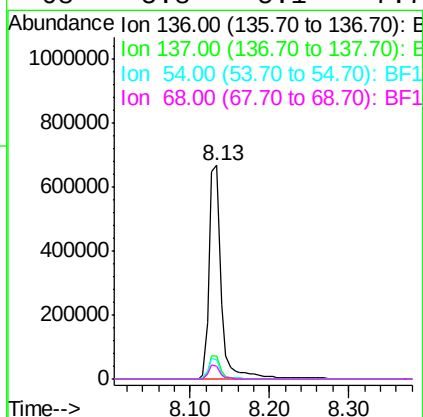
RT: 8.13 min Scan# 1028

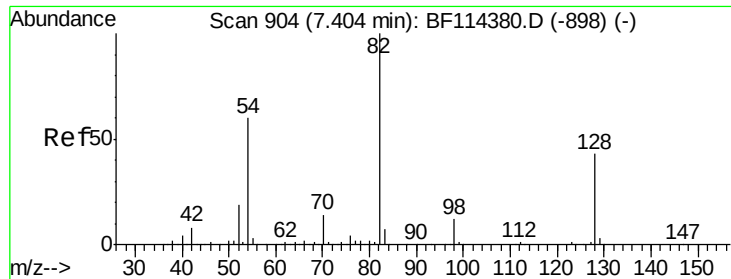
Delta R.T. -0.00 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Tgt Ion:	136	Resp:	713397
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.8	13.2
54	8.7	7.8	11.8
68	5.8	5.1	7.7





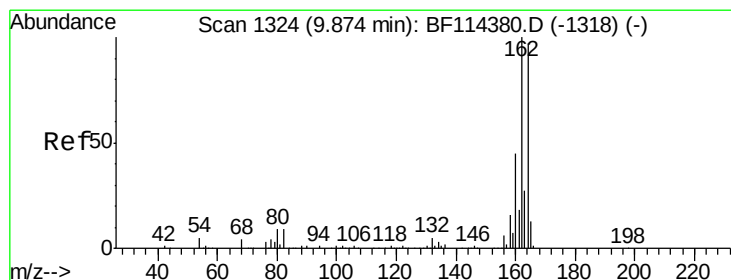
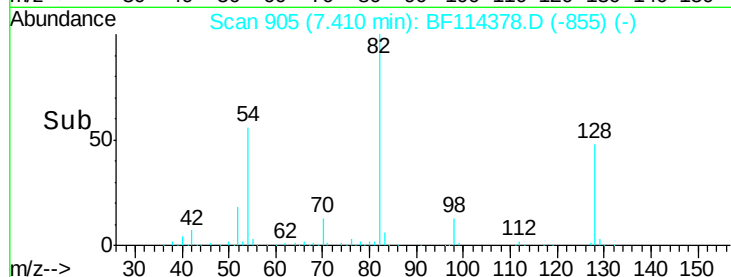
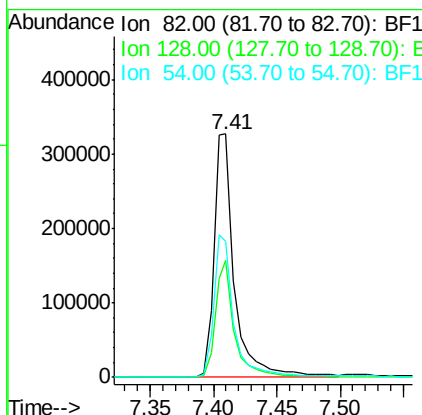
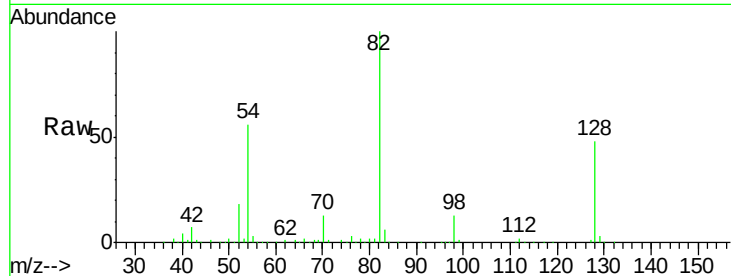
#23
Nitrobenzene-d5
Concen: 29.391 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Instrument :
BNA_F
ClientSampleId :
RO-COMP-2DL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.2	35.5	53.3
54	56.1	48.5	72.7

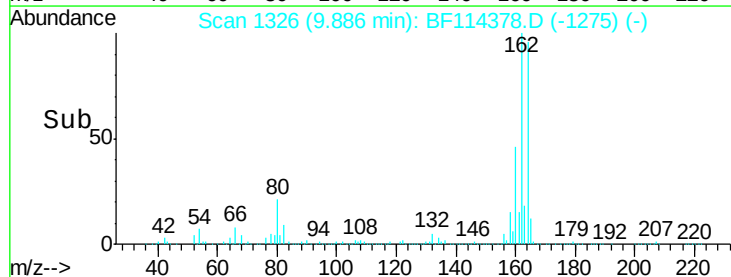
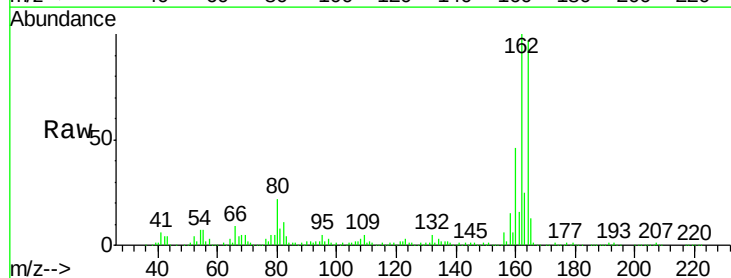
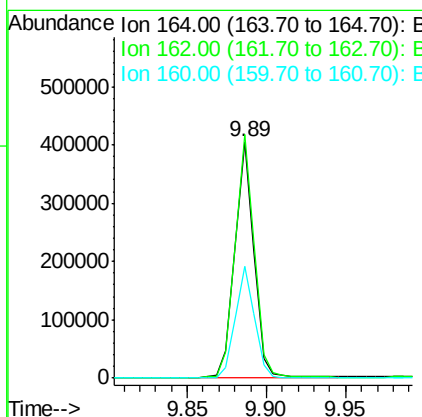
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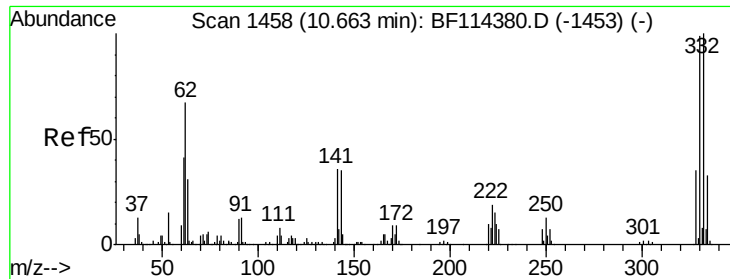
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	80.6	120.8
160	47.2	36.5	54.7





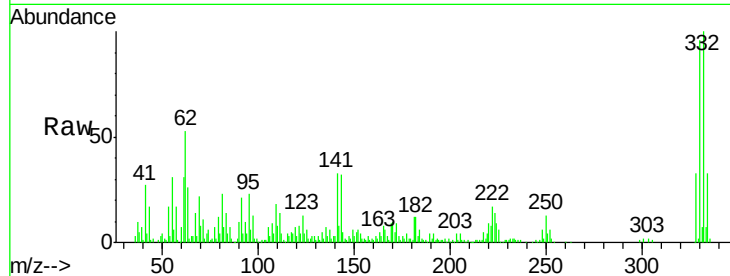
#42
 2,4,6-Tribromophenol
 Concen: 47.401 ng
 RT: 10.68 min Scan# 1461
 Delta R.T. 0.01 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

Instrument :
 BNA_F
 ClientSampled :
 RO-COMP-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	167211		
332	104.0	81.4	122.2	
141	38.0	26.6	40.0	

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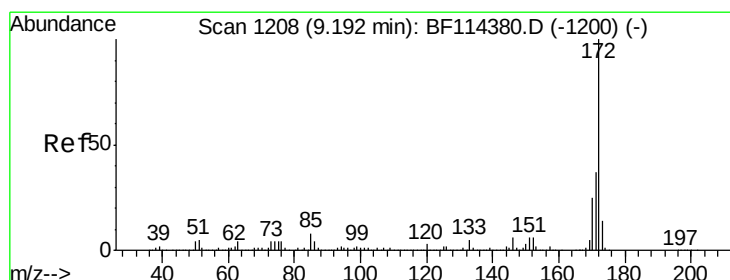
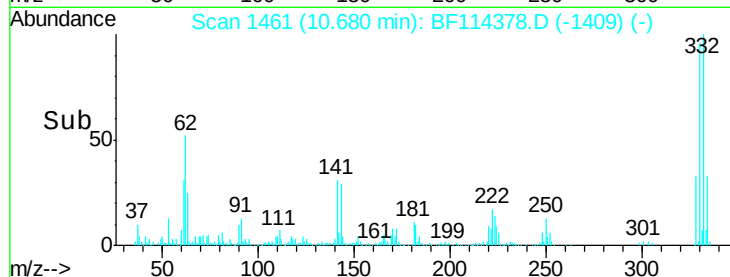
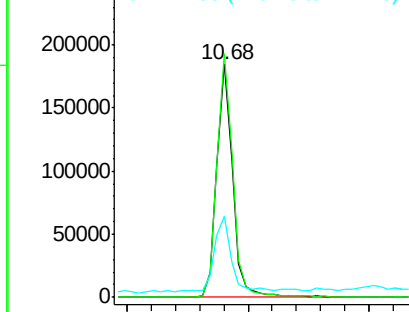


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 41.482 ng
 RT: 9.20 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

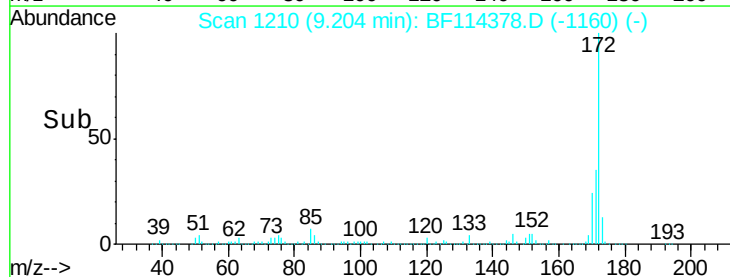
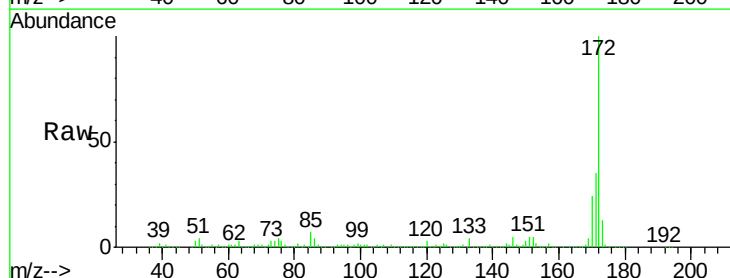
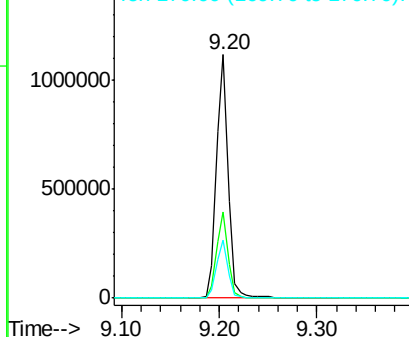
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	935707		
171	35.5	30.7	46.1	
170	23.6	20.5	30.7	

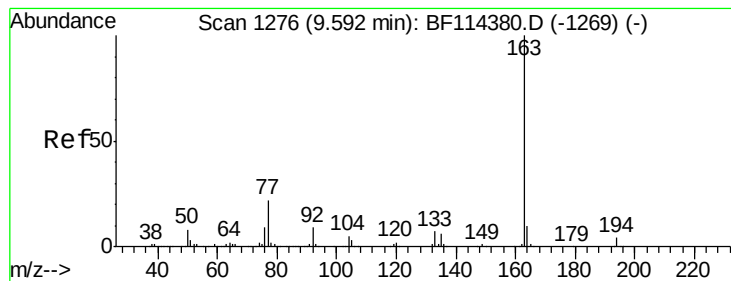
Abundance

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: 4.964 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

ClientSampleId :

RO-COMP-2DL

Tgt Ion:163 Resp: 124328
Ion Ratio Lower Upper

163 100

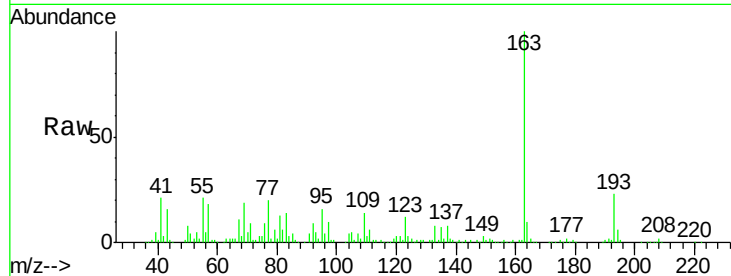
194 6.4 3.4 5.0#

164 10.4 8.2 12.2

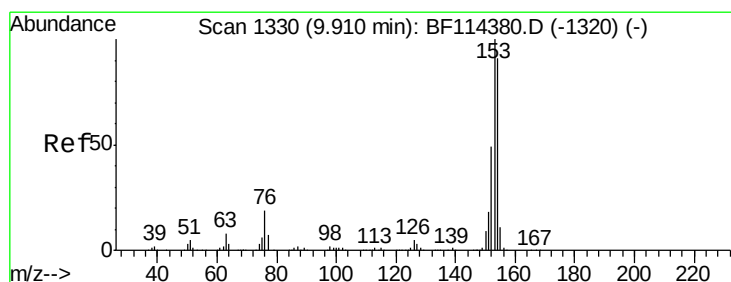
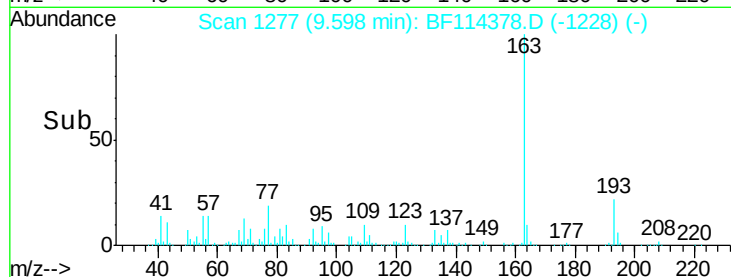
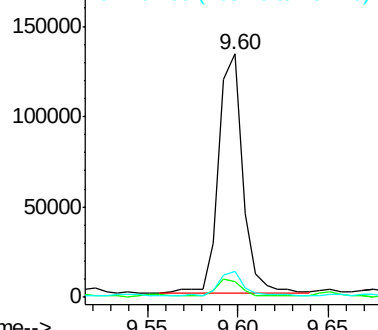
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Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E



#52

Acenaphthene

Concen: 9.551 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF114378.D

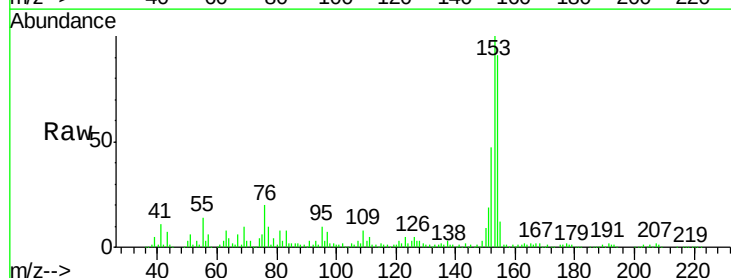
Acq: 18 May 2019 4:41

Tgt Ion:154 Resp: 197744
Ion Ratio Lower Upper

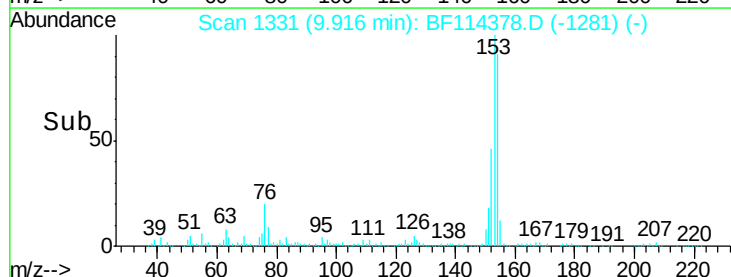
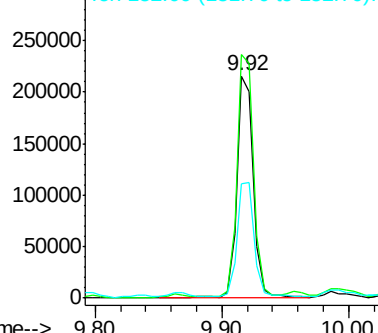
154 100

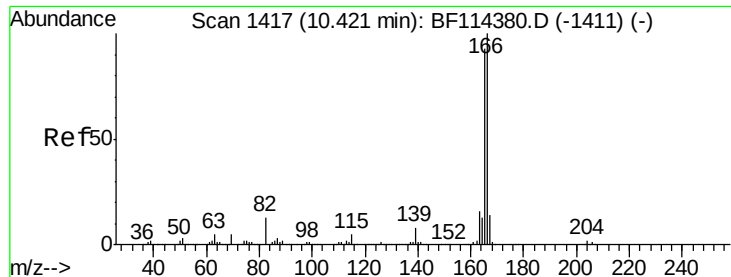
153 109.5 90.5 135.7

152 51.3 43.4 65.2



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





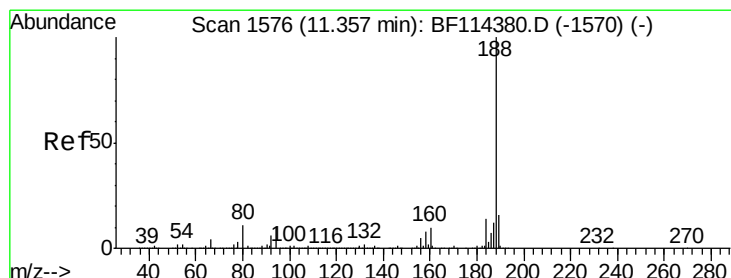
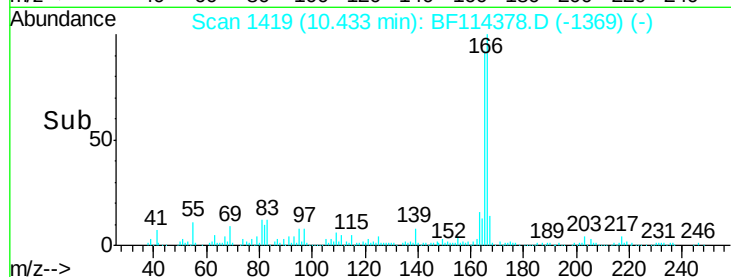
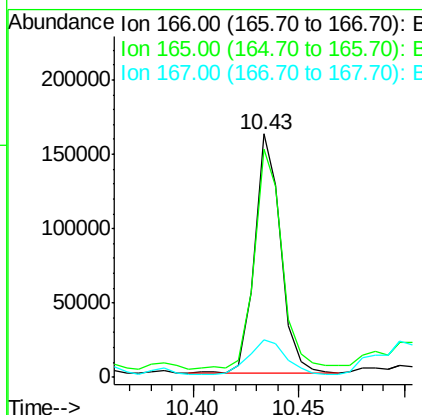
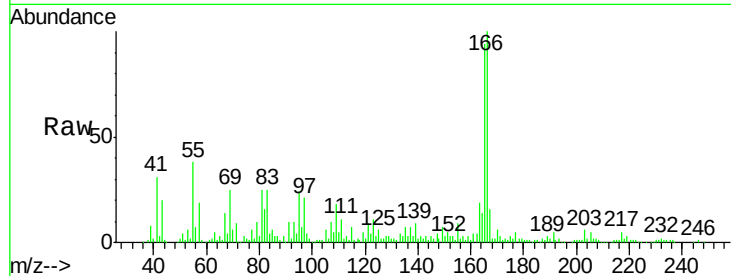
#58
Fluorene
Concen: 5.955 ng
RT: 10.43 min Scan# 1419
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Instrument :
BNA_F
ClientSampleId :
RO-COMP-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	139656		
165	93.7	76.1	114.1	
167	15.6	11.1	16.7	

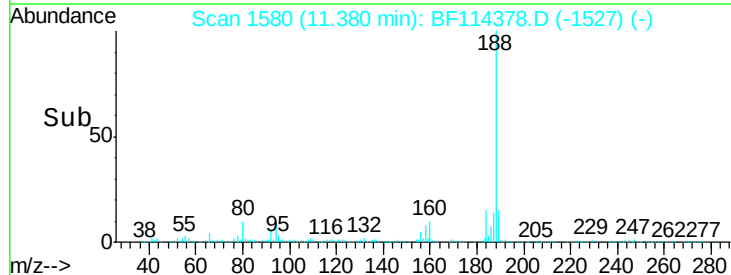
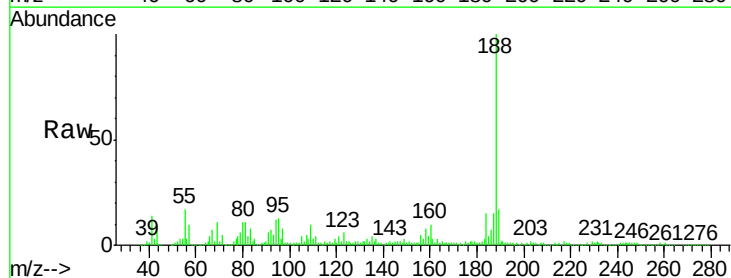
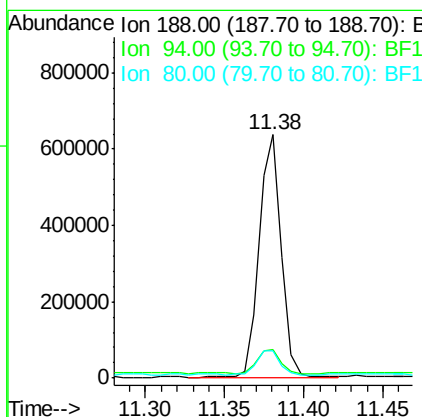
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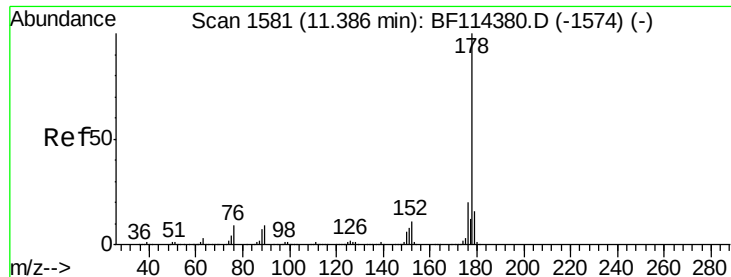
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.38 min Scan# 1580
Delta R.T. 0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	612062		
94	11.6	8.4	12.6	
80	11.4	9.2	13.8	





#71

Phenanthrene

Concen: 65.835 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

ClientSampled :

RO-COMP-2DL

Tgt Ion:178 Resp: 1960394

Ion Ratio Lower Upper

178 100

176 20.2 16.4 24.6

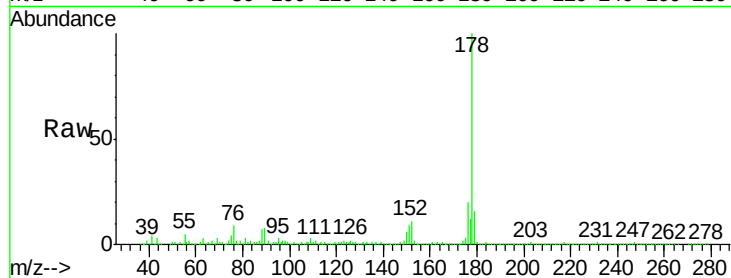
179 16.1 13.2 19.8

Manual Integrations

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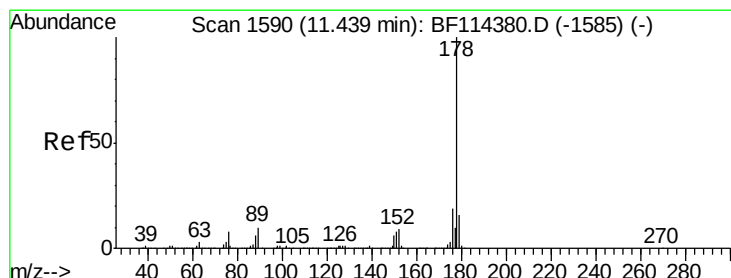
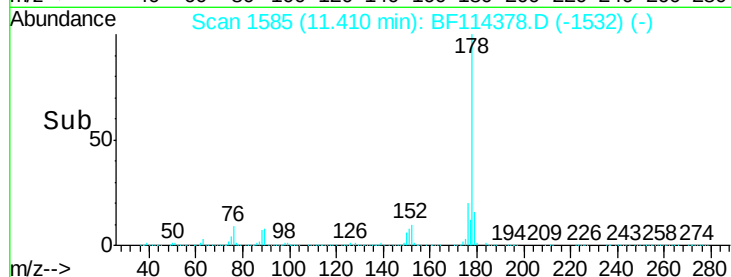
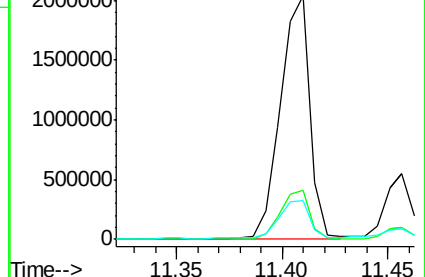
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 15.250 ng

RT: 11.46 min Scan# 1593

Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

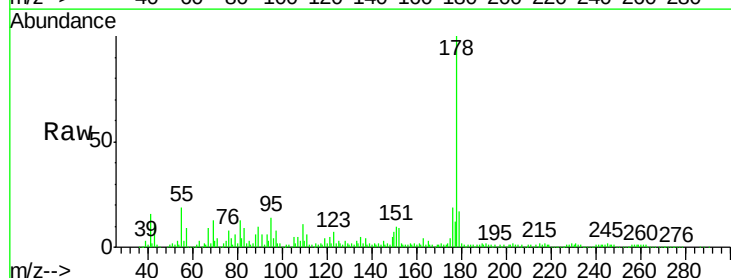
Tgt Ion:178 Resp: 456101

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

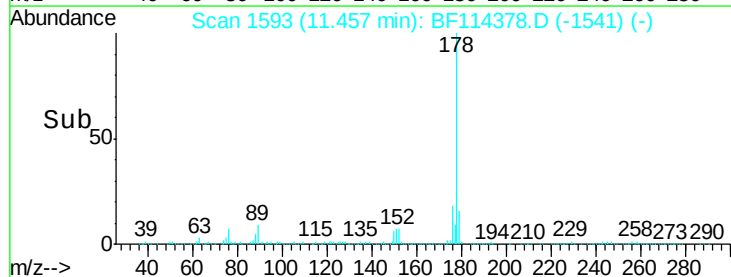
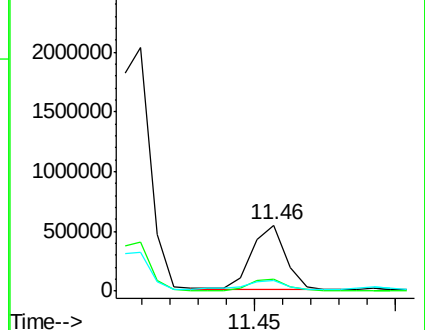
179 16.6 13.0 19.4

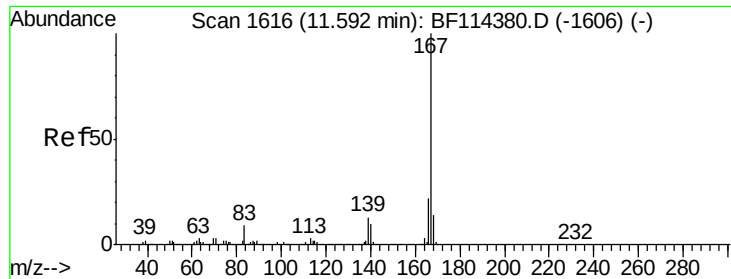


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 2.420 ng

RT: 11.61 min Scan# 1619

Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

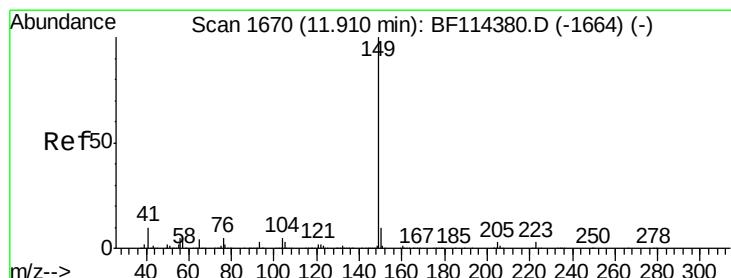
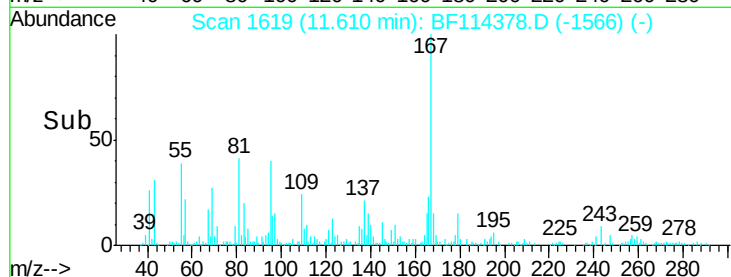
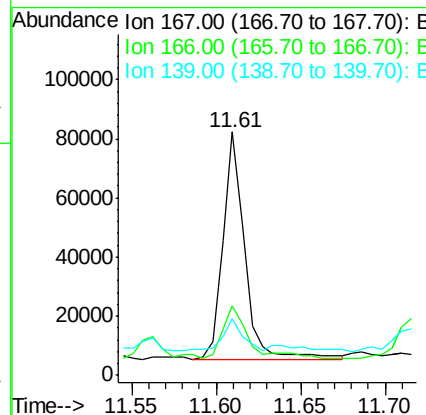
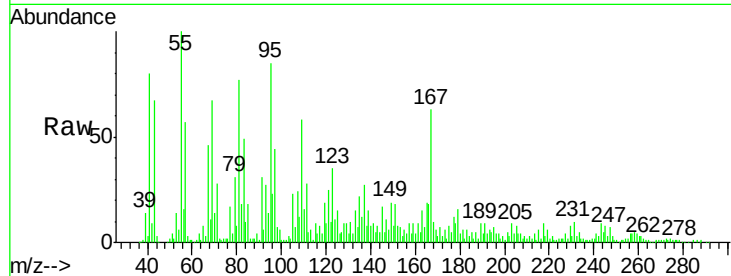
ClientSampled :

RO-COMP-2DL

Tgt Ion:	167	Resp:	69014
Ion Ratio	Lower	Upper	
167	100		
166	28.6	18.2	27.2#
139	23.2	10.6	16.0#

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#74

Di-n-butylphthalate

Concen: 8.775 ng

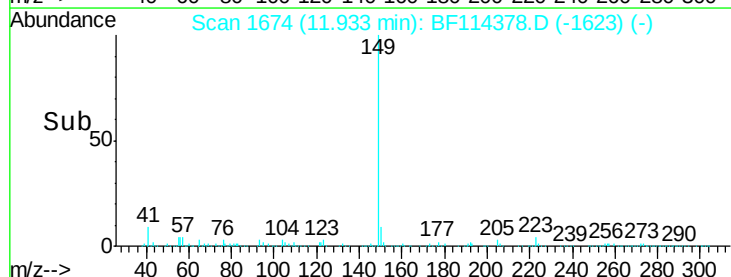
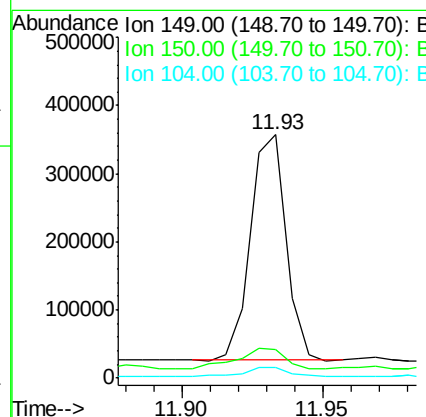
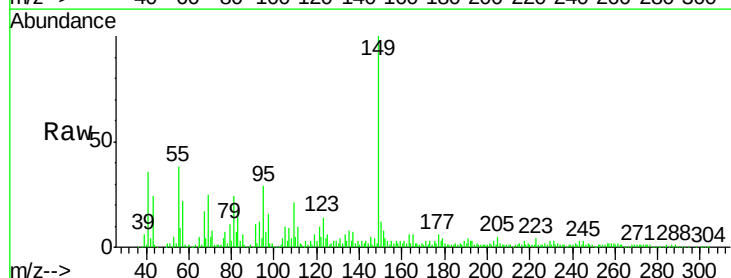
RT: 11.93 min Scan# 1674

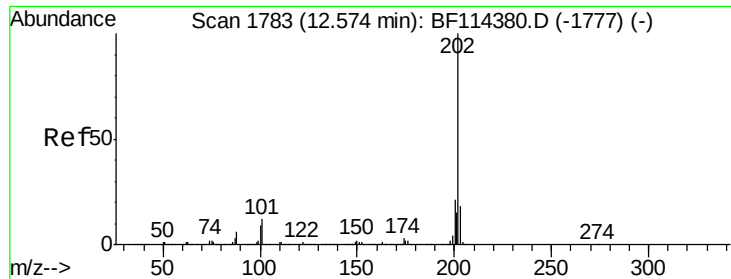
Delta R.T. -0.00 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Tgt Ion:	149	Resp:	288324
Ion Ratio	Lower	Upper	
149	100		
150	11.6	7.7	11.5#
104	4.5	3.6	5.4





#75

Fluoranthene

Concen: 55.996 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.02 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

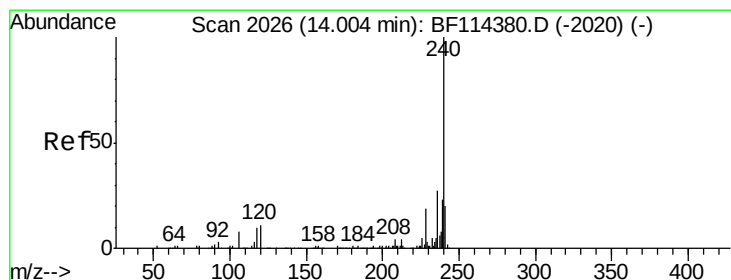
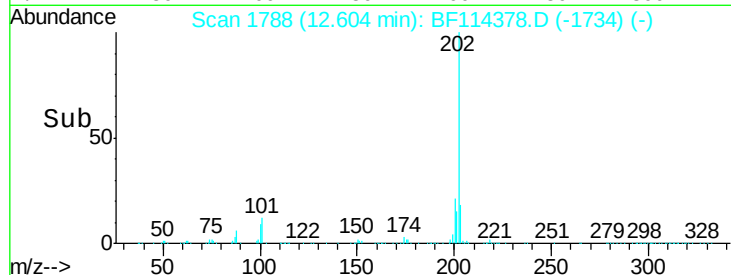
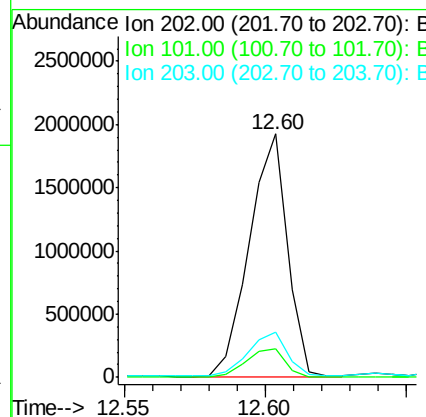
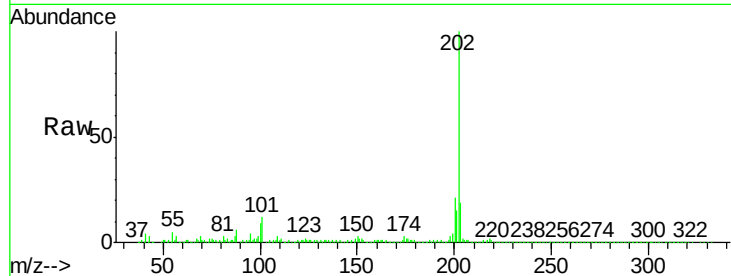
ClientSampleId :

RO-COMP-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1795596		
101	11.9	0.0	31.0	
203	18.8	0.0	38.4	

Manual Integrations
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#76

Chrysene-d12

Concen: 20.000 ng

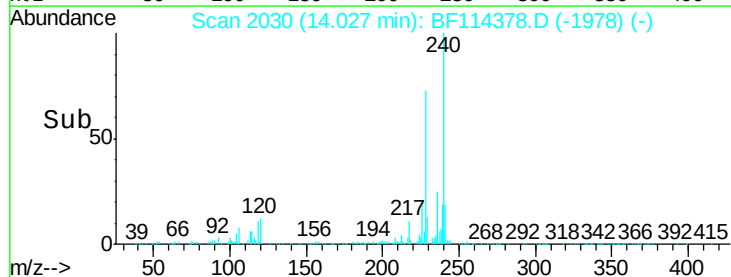
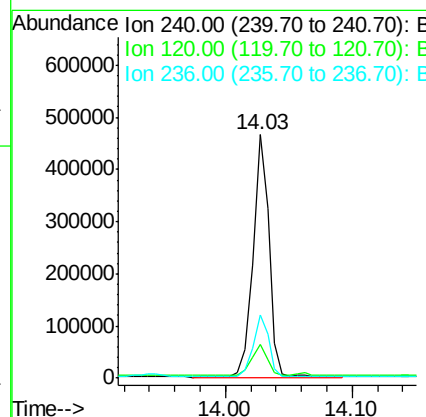
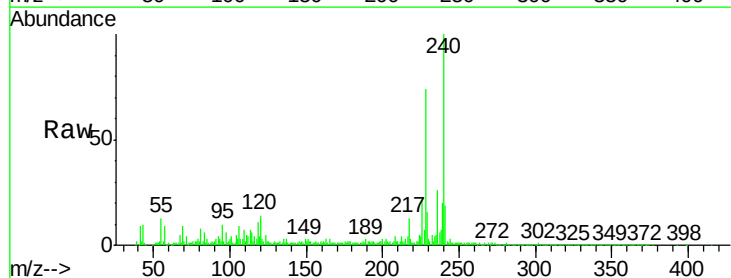
RT: 14.03 min Scan# 2030

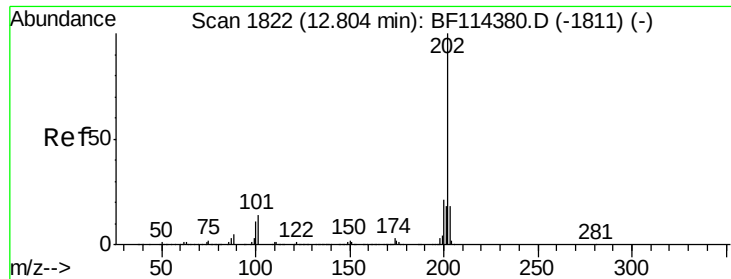
Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	405365		
120	13.6	8.3	12.5#	
236	26.1	20.8	31.2	





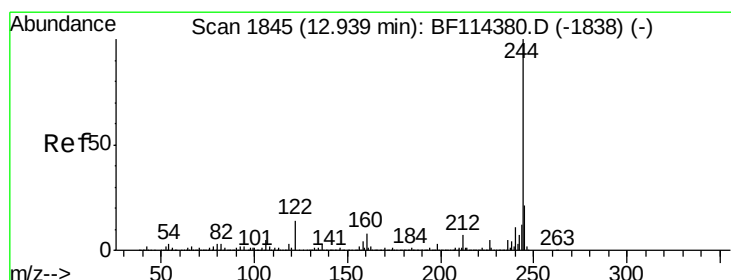
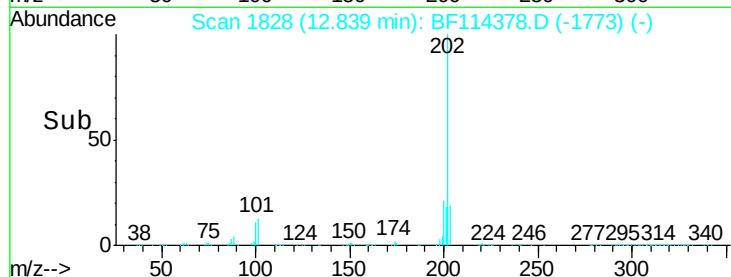
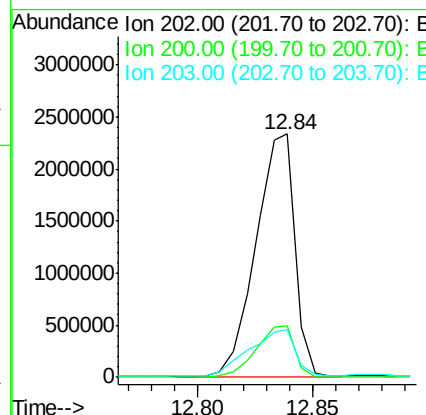
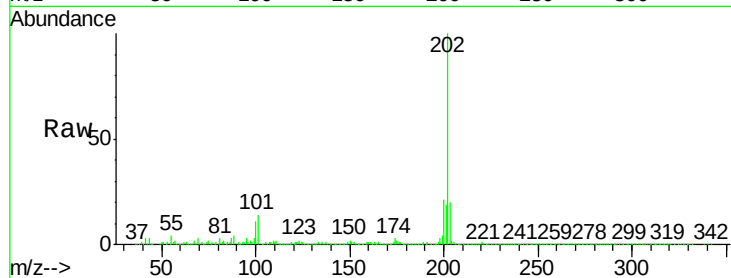
#78
 Pyrene
 Concen: 83.883 ng
 RT: 12.84 min Scan# 1828
 Delta R.T. 0.02 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-2DL

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	19.5	14.5	21.7

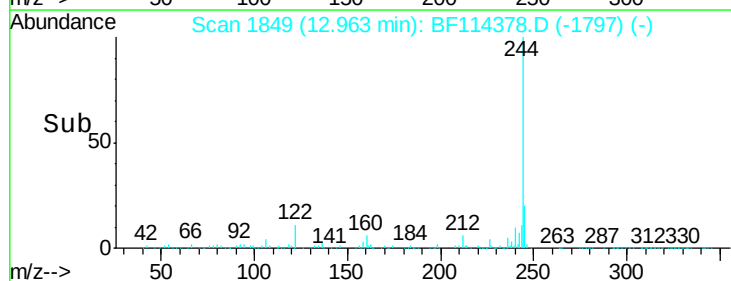
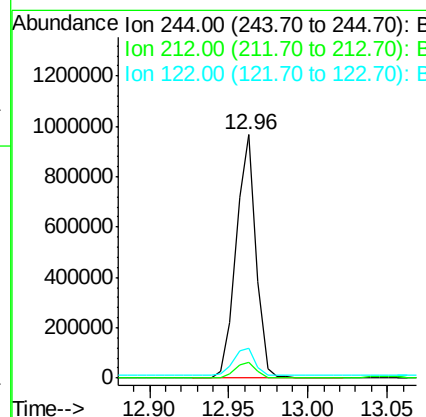
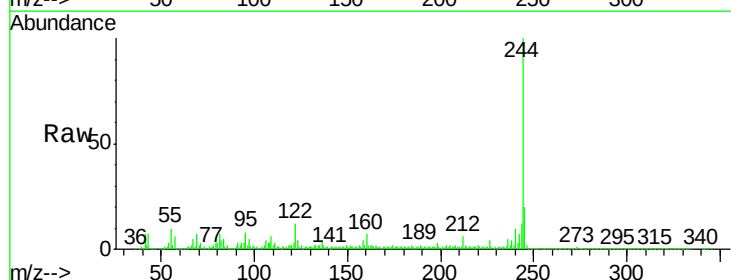
Manual Integrations
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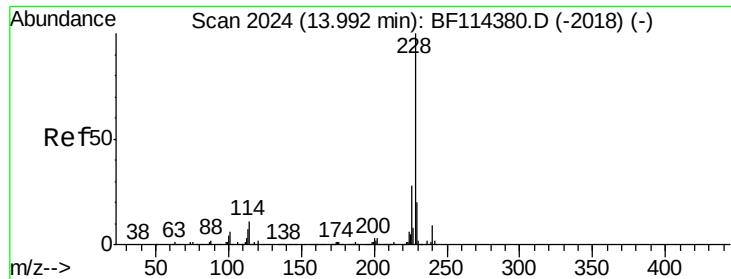
mohammad
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#79
 Terphenyl-d14
 Concen: 42.141 ng
 RT: 12.96 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.8	8.6
122	12.0	9.4	14.2





#81

Benzo(a)anthracene

Concen: 43.305 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

ClientSampled :

RO-COMP-2DL

Tgt Ion:228 Resp: 1135393

Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.2

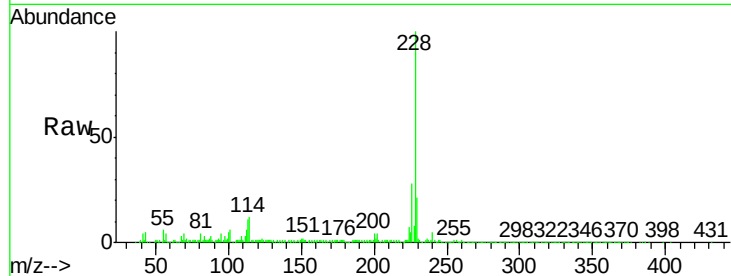
229 21.4 16.4 24.6

Manual Integrations

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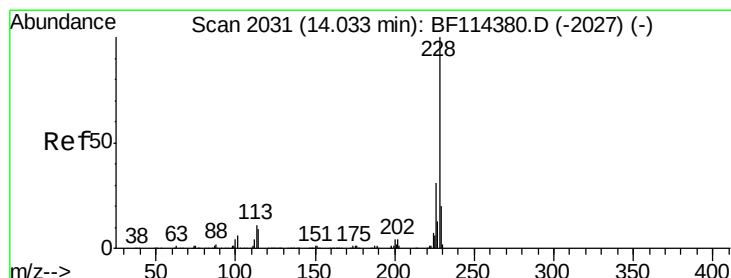
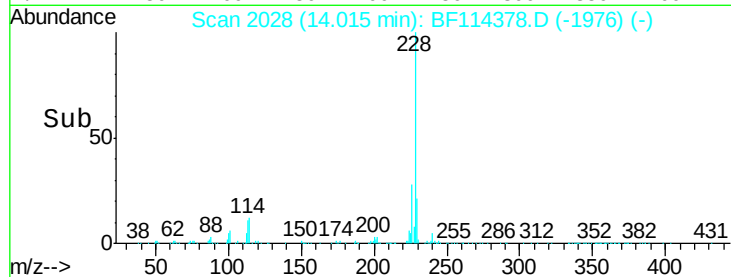
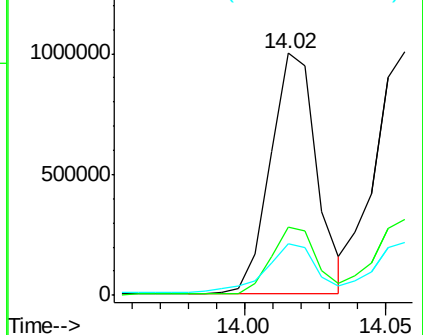
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 40.076 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Tgt Ion:228 Resp: 1030014

Ion Ratio Lower Upper

228 100

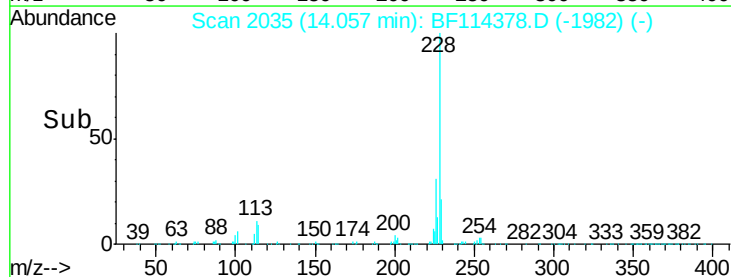
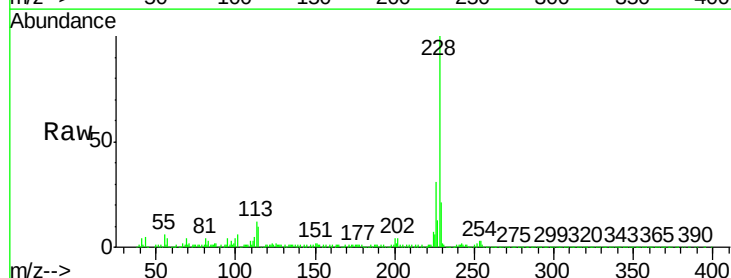
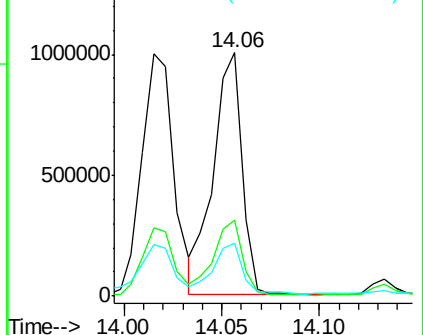
226 31.2 25.0 37.6

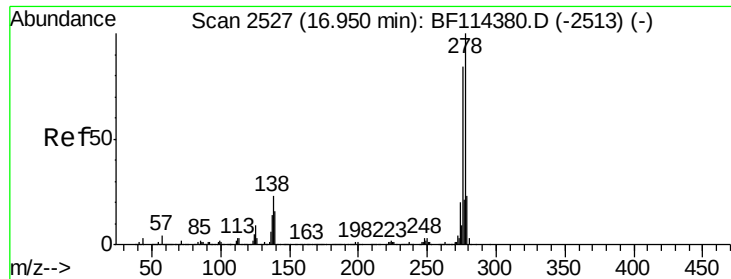
229 21.5 17.0 25.6

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





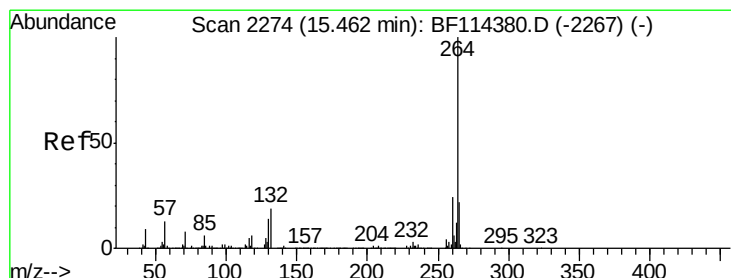
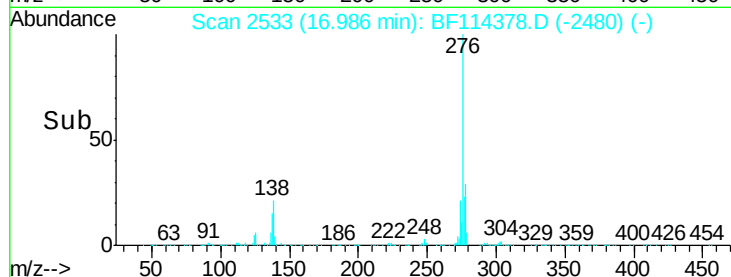
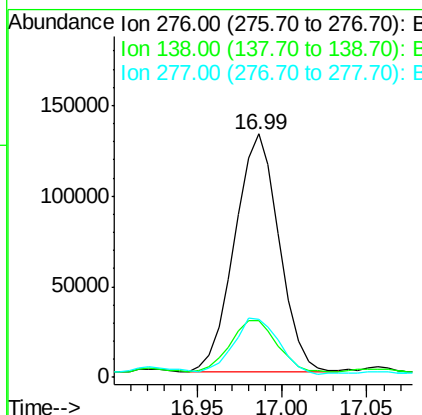
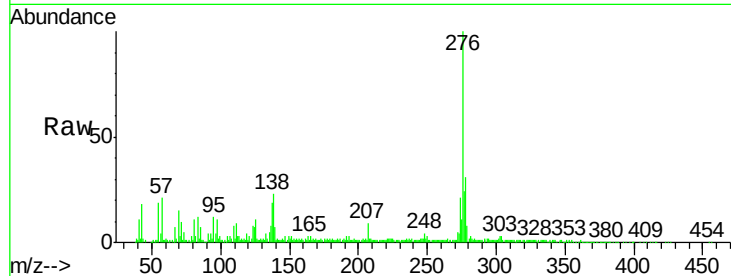
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 10.563 ng
 RT: 16.99 min Scan# 2533
 Delta R.T. 0.01 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

Instrument :
 BNA_F
 ClientSampleId :
 RO-COMP-2DL

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	239929		
138	23.5	20.2	30.2	
277	23.7	20.0	30.0	

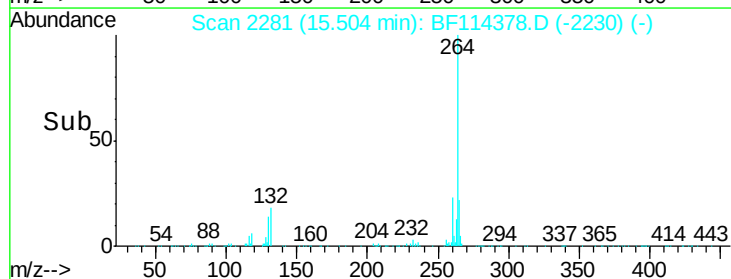
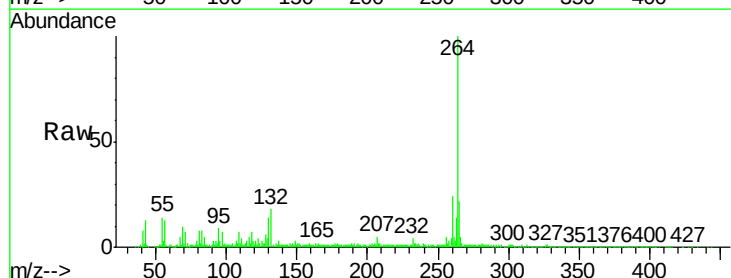
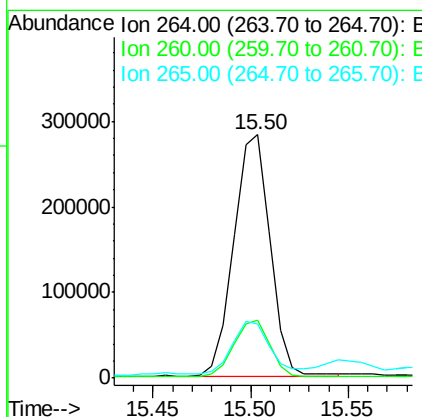
Manual Integrations
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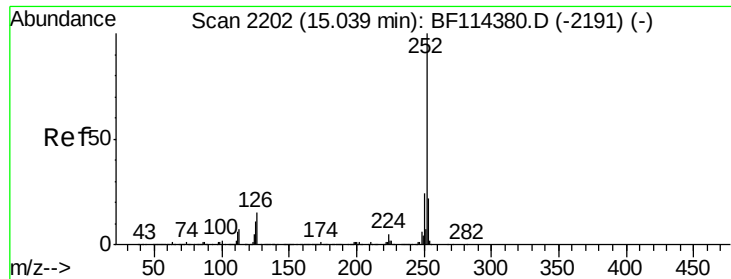
mohammad
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#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.50 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: BF114378.D
 Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	367680		
260	23.6	19.4	29.0	
265	22.4	16.9	25.3	





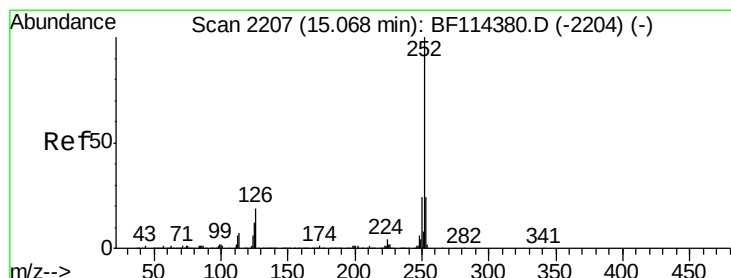
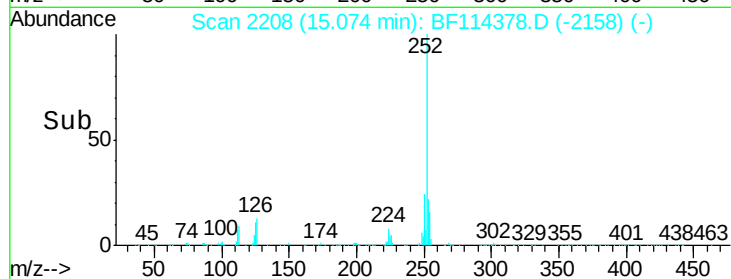
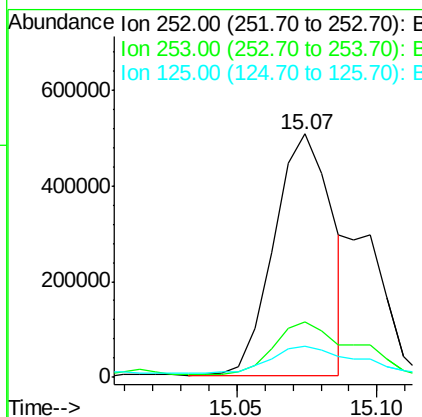
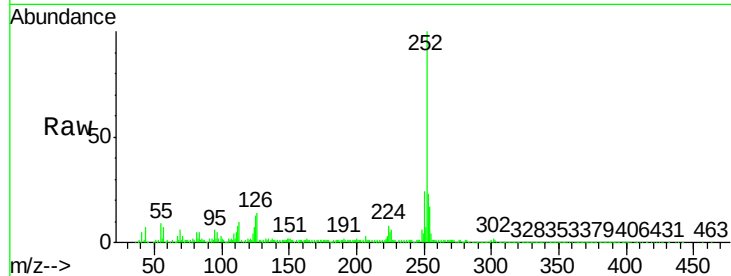
#88
Benzo(b)fluoranthene
Concen: 30.641 ng m
RT: 15.07 min Scan# 2208
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Instrument :
BNA_F
ClientSampleId :
RO-COMP-2DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	12.7	8.3	12.5#

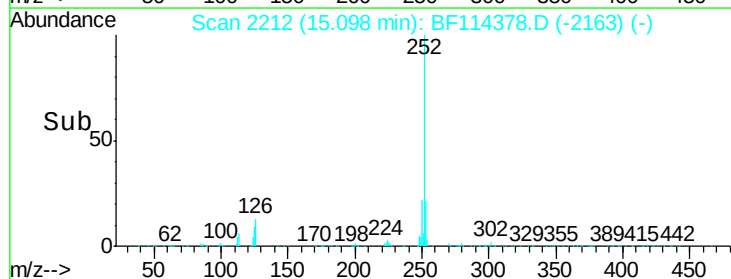
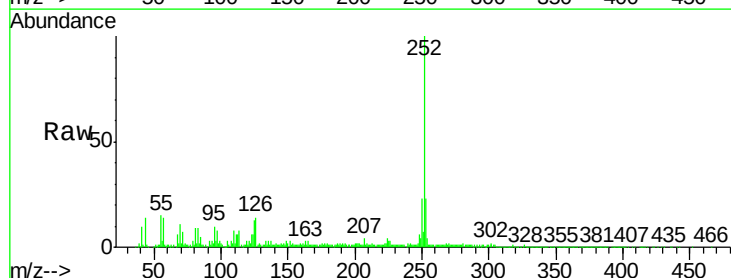
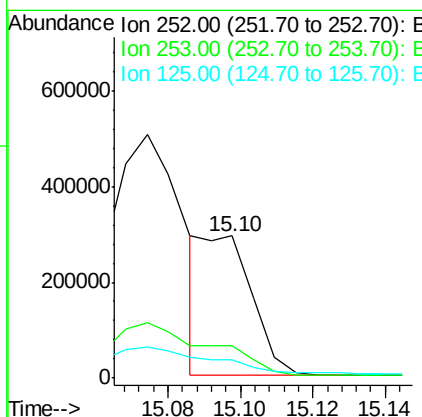
Manual Integrations
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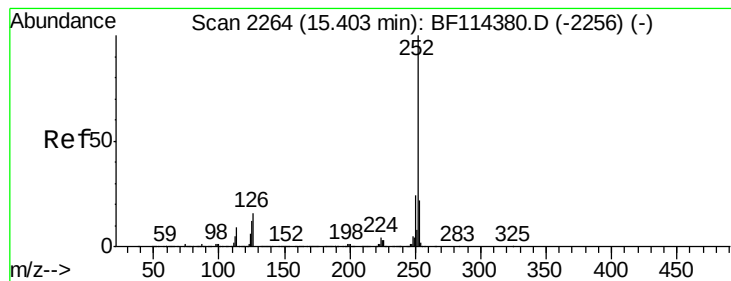
mohammad
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#89
Benzo(k)fluoranthene
Concen: 12.755 ng m
RT: 15.10 min Scan# 2212
Delta R.T. -0.01 min
Lab File: BF114378.D
Acq: 18 May 2019 4:41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	12.6	8.6	13.0





#90

Benzo(a)pyrene

Concen: 27.424 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

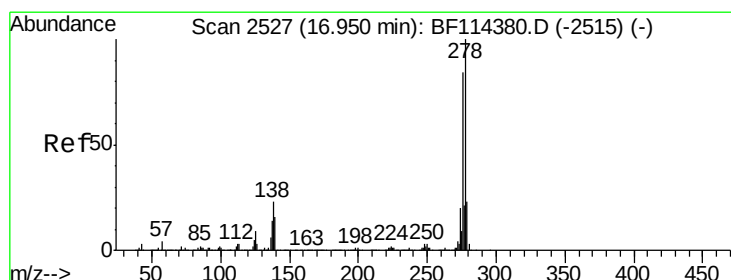
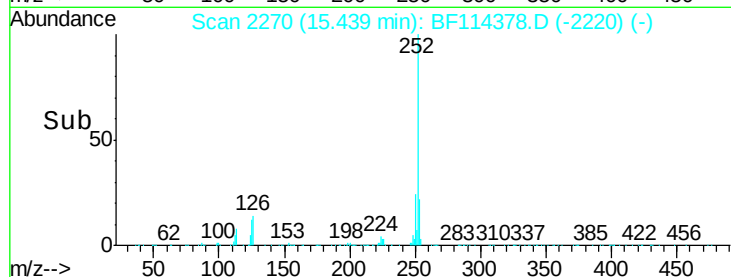
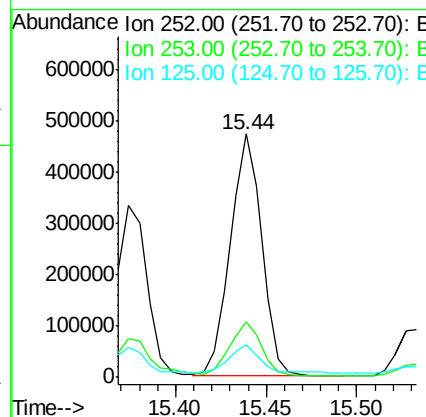
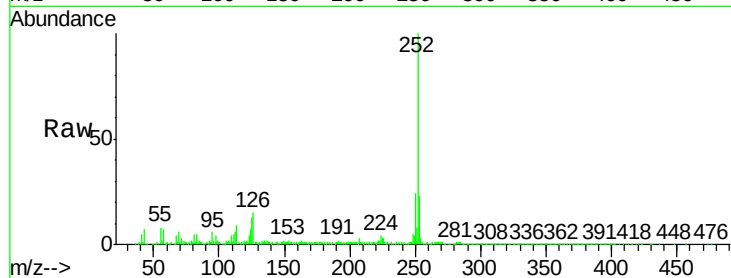
ClientSampleId :

RO-COMP-2DL

Tgt Ion:	252	Resp:	568530
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.1	27.1
125	13.5	9.5	14.3

Manual Integrations
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#91

Dibenzo(a,h)anthracene

Concen: 5.038 ng

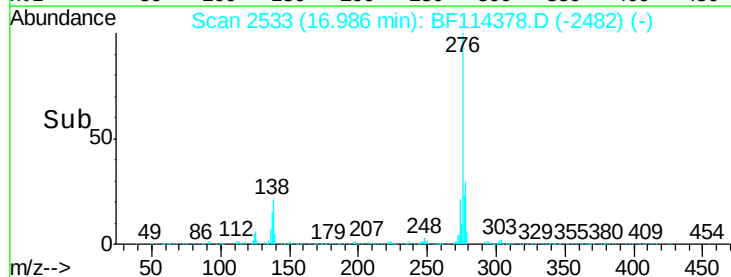
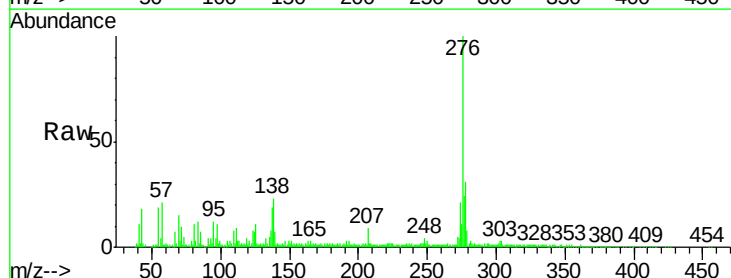
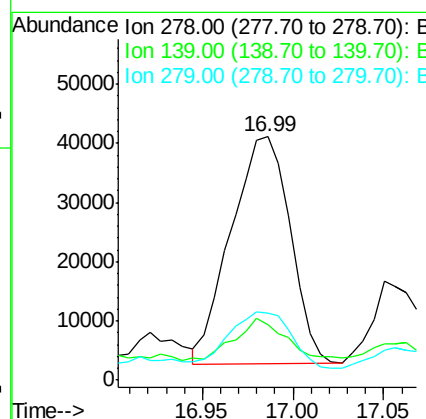
RT: 16.99 min Scan# 2533

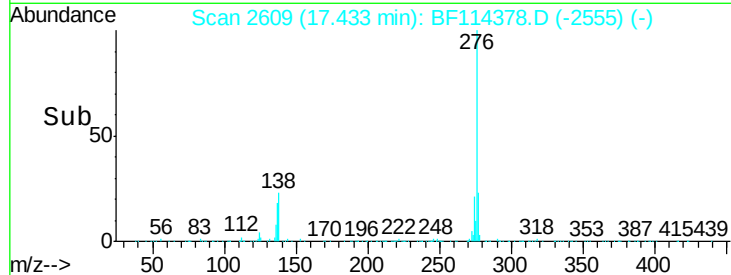
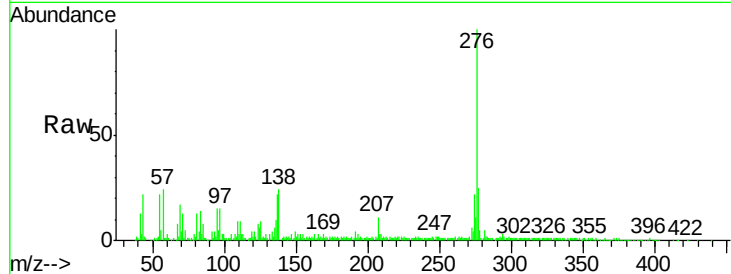
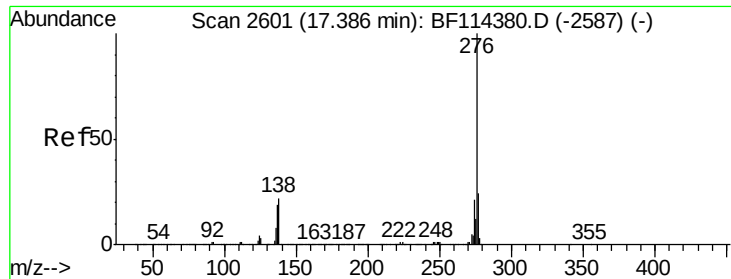
Delta R.T. -0.00 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Tgt Ion:	278	Resp:	86793
Ion Ratio	Lower	Upper	
278	100		
139	22.8	13.5	20.3#
279	27.4	19.0	28.6





#92

Benzo(g,h,i)perylene

Concen: 13.529 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.02 min

Lab File: BF114378.D

Acq: 18 May 2019 4:41

Instrument :

BNA_F

ClientSampleId :

RO-COMP-2DL

Tgt Ion:	276	Resp:	233560
Ion Ratio	Lower	Upper	
276	100		
277	24.8	19.0	28.4
138	24.2	17.8	26.6

Manual Integrations
APPROVED

mohammad
5/21/2019 2:16:55 PM

