

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG051220\
 Data File : BG045363.D
 Acq On : 13 May 2020 15:34
 Operator : CG/JU
 Sample : L2502-01 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-050820

Manual Integrations
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mohammad
 5/14/2020 11:54:18 AM

Quant Time: May 13 16:12:19 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 11:40:01 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.97	152	71133	20.00	ng	0.00
21) Naphthalene-d8	10.78	136	289943	20.00	ng	0.00
39) Acenaphthene-d10	14.62	164	208292	20.00	ng	0.00
64) Phenanthrene-d10	17.37	188	422416	20.00	ng	0.00
76) Chrysene-d12	21.62	240	353170	20.00	ng	0.00
87) Perylene-d12	24.79	264	397690	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.55	112	47934	11.13	ng	0.00
7) Phenol-d6	7.14	99	79436	12.41	ng	0.00
23) Nitrobenzene-d5	9.13	82	52295	8.23	ng	0.00
42) 2,4,6-Tribromophenol	16.11	330	36597	11.37	ng	0.00
45) 2-Fluorobiphenyl	13.24	172	133360	9.39	ng	0.00
79) Terphenyl-d14	19.98	244	180893	11.16	ng	0.00
Target Compounds						
31) Naphthalene	10.83	128	42837	2.701	ng	Qvalue # 93
37) 2-Methylnaphthalene	12.44	142	38586m	3.134	ng	
38) 1-Methylnaphthalene	12.66	142	34045	2.929	ng	96
52) Acenaphthene	14.68	154	44420	3.332	ng	92
55) Dibenzofuran	15.01	168	41347	2.127	ng	# 91
58) Fluorene	15.66	166	72332	4.556	ng	97
71) Phenanthrene	17.41	178	732289	33.735	ng	98
72) Anthracene	17.49	178	220273	10.116	ng	98
73) Carbazole	17.76	167	50396	2.281	ng	99
75) Fluoranthene	19.42	202	1209561	47.791	ng	98
78) Pyrene	19.78	202	1134923	46.613	ng	99
81) Benzo(a)anthracene	21.61	228	560657	24.493	ng	98
83) Chrysene	21.67	228	513586	23.352	ng	97
86) Indeno(1,2,3-cd)pyrene	28.38	276	296089	10.140	ng	97
88) Benzo(b)fluoranthene	23.80	252	573378	23.017	ng	100
89) Benzo(k)fluoranthene	23.85	252	217893m	9.197	ng	
90) Benzo(a)pyrene	24.64	252	454324	19.317	ng	99
91) Dibenzo(a,h)anthracene	28.42	278	80273m	3.387	ng	
92) Benzo(a,h,i)perylene	29.49	276	286421	12.055	ng	97

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

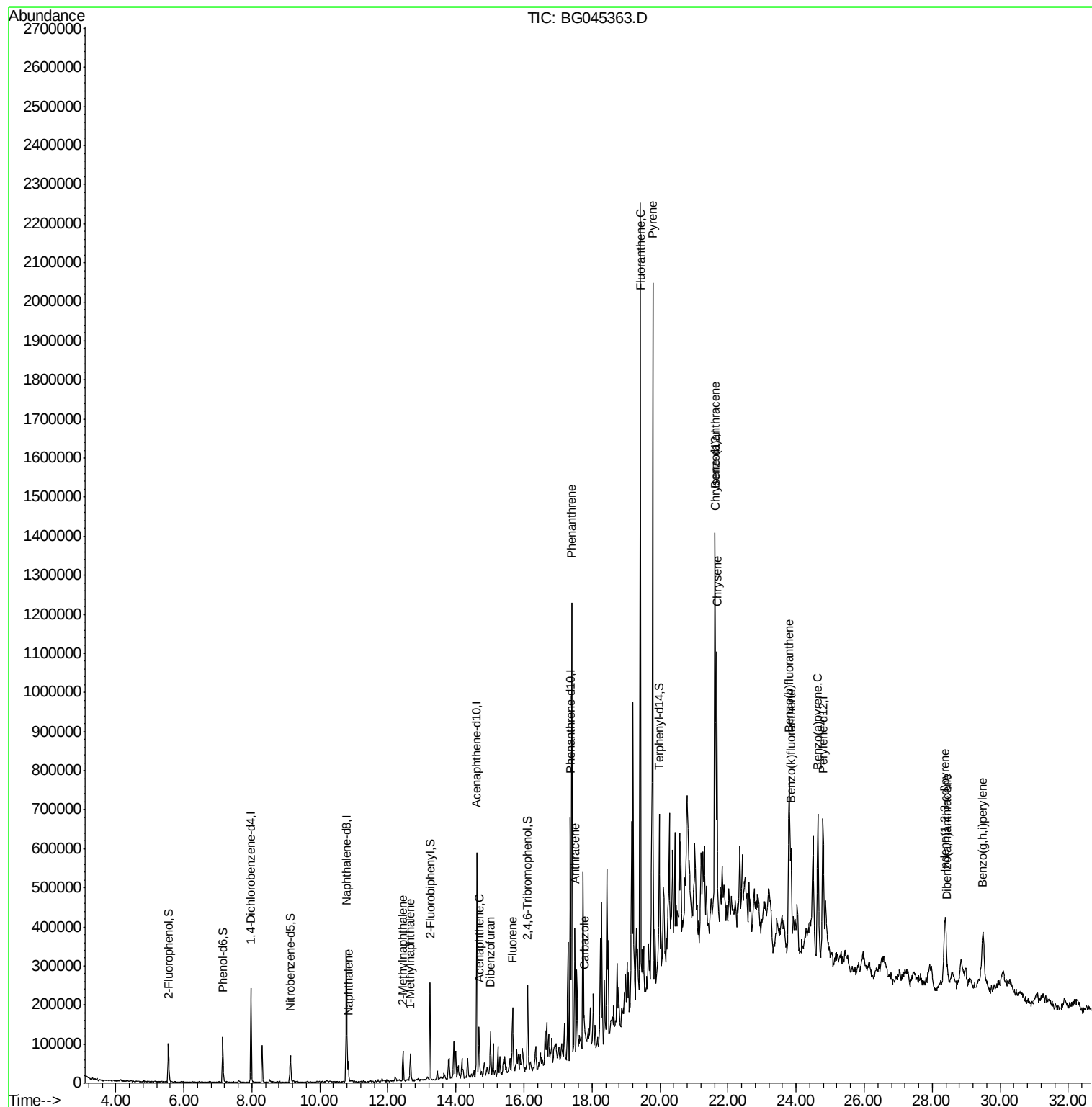
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG051220\
Data File : BG045363.D
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

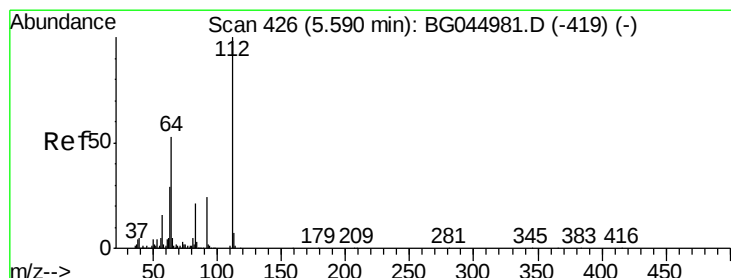
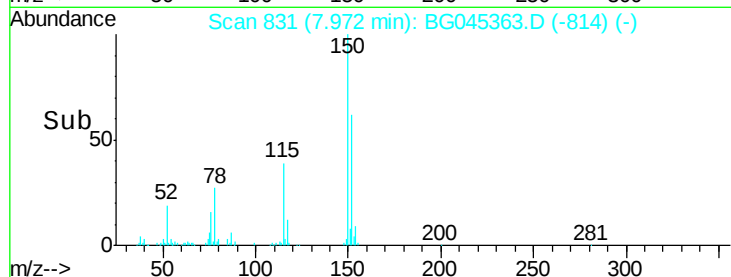
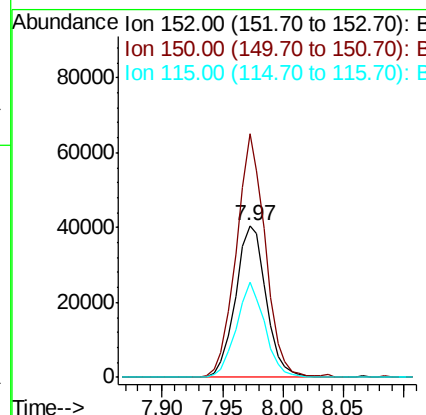
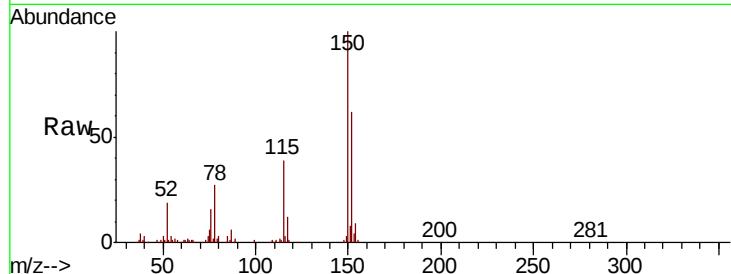
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.4	123.6	185.4
115	63.1	49.1	73.7

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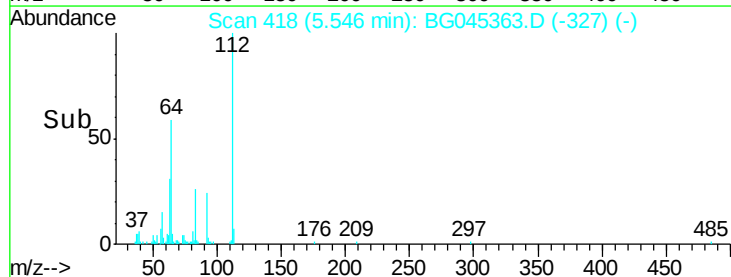
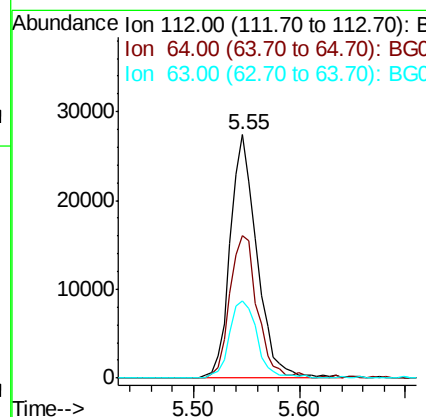
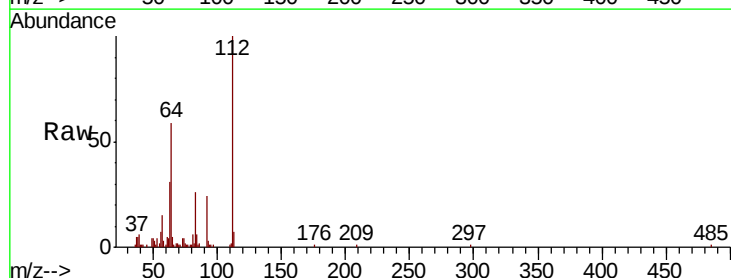
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#5

2-Fluorophenol
Concen: 11.125 ng
RT: 5.55 min Scan# 418
Delta R.T. 0.01 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.8	42.4	63.6
63	31.5	23.1	34.7





#7

Phenol-d6

Concen: 12.409 ng

RT: 7.14 min Scan# 690

Delta R.T. 0.01 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

Instrument :

BNA_G

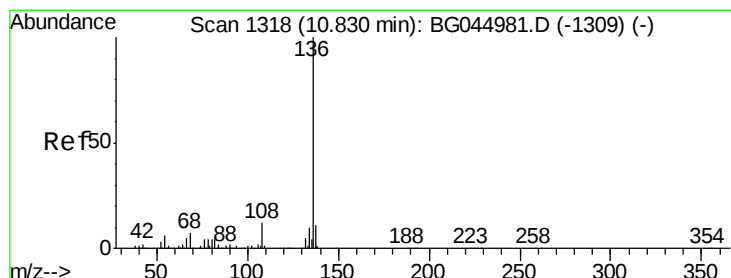
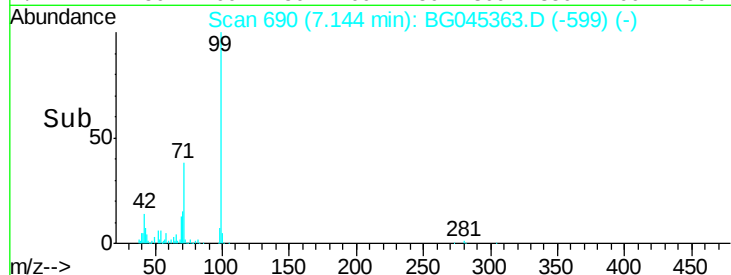
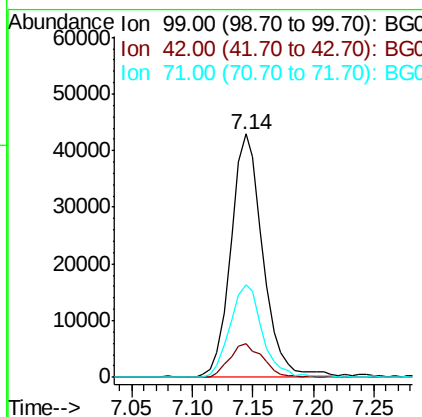
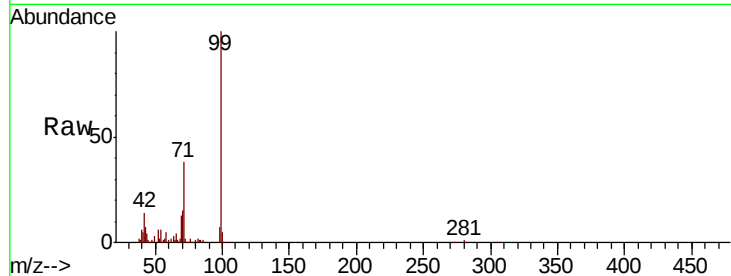
ClientSampleId :

PL-01-050820

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		79436		
42	13.7	11.3	16.9		
71	38.0	28.3	42.5		

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#21

Naphthalene-d8

Concen: 20.000 ng

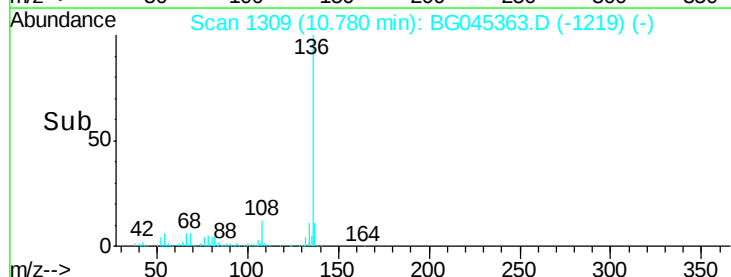
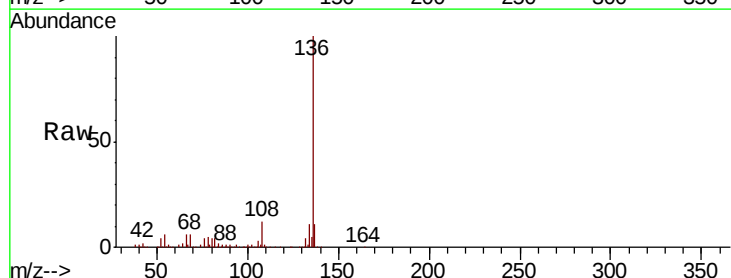
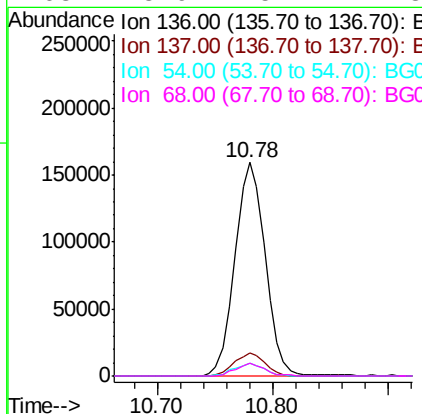
RT: 10.78 min Scan# 1309

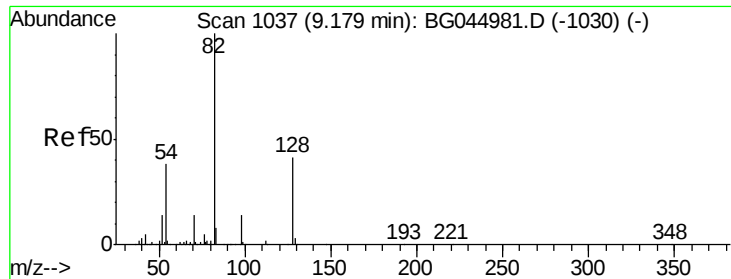
Delta R.T. -0.00 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		289943		
137	11.1	8.6	13.0		
54	6.1	4.8	7.2		
68	5.9	5.2	7.8		





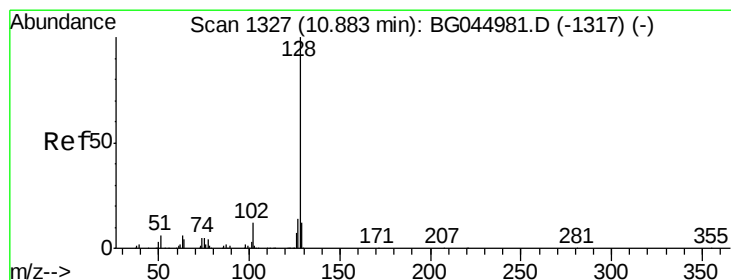
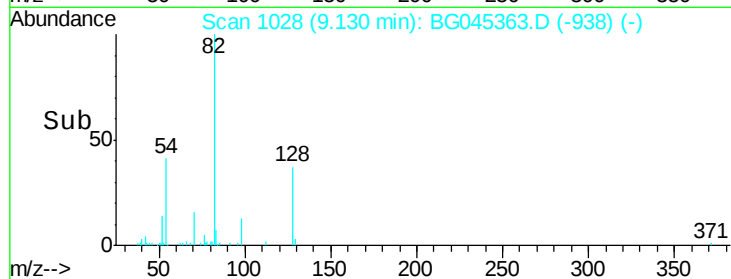
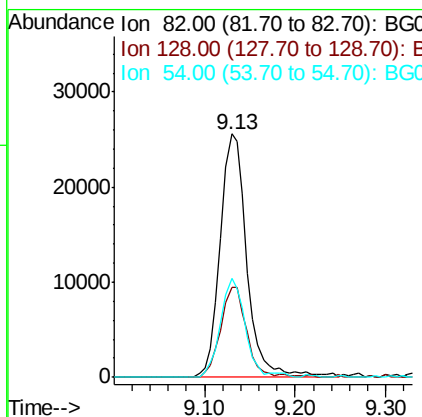
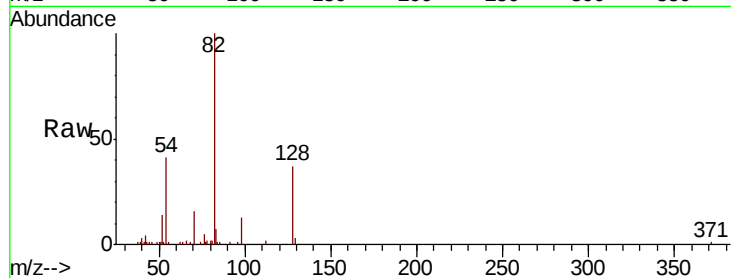
#23
 Nitrobenzene-d5
 Concen: 8.230 ng
 RT: 9.13 min Scan# 1028
 Delta R.T. -0.00 min
 Lab File: BG045363.D
 Acq: 13 May 2020 15:34

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-050820

Tot Ion	Ratio	Lower	Upper
82	100		
128	36.8	33.0	49.4
54	40.8	30.4	45.6

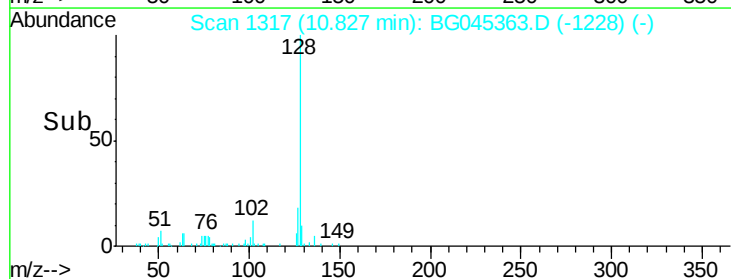
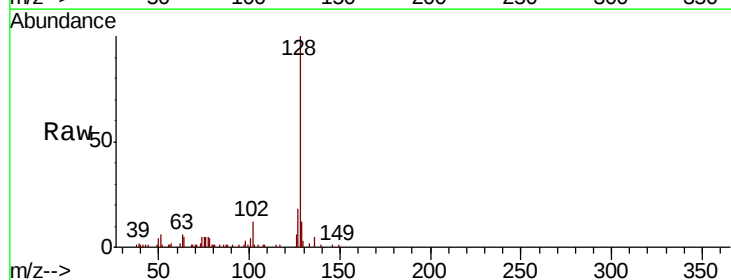
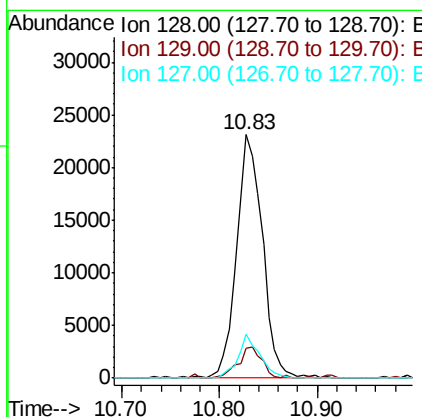
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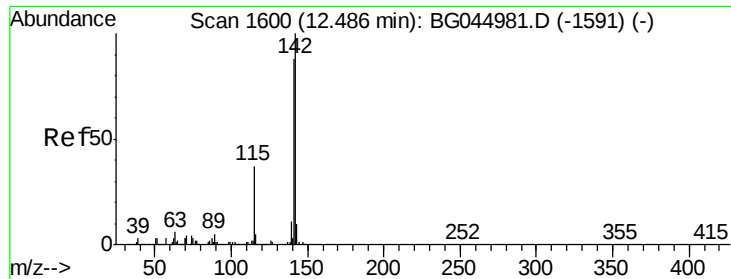
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#31
 Naphthalene
 Concen: 2.701 ng
 RT: 10.83 min Scan# 1317
 Delta R.T. -0.01 min
 Lab File: BG045363.D
 Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.4	14.2
127	18.3	10.8	16.2#





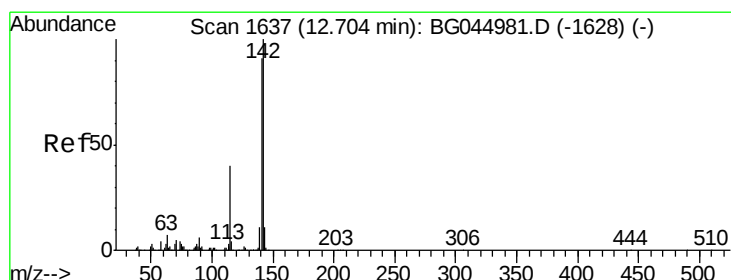
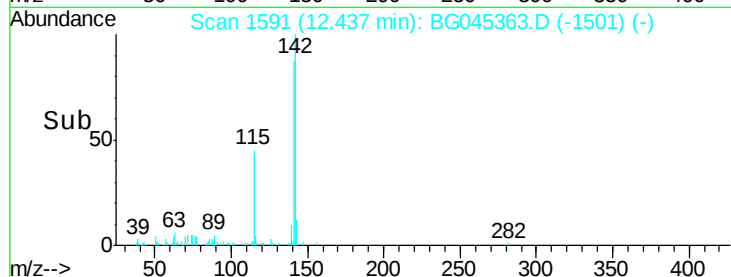
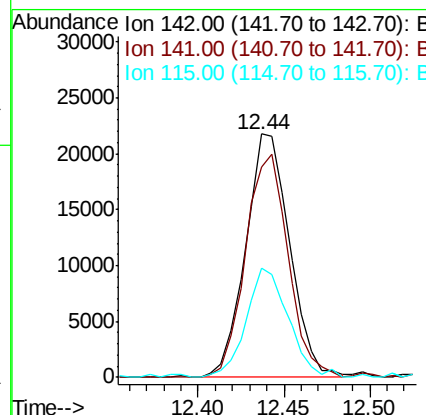
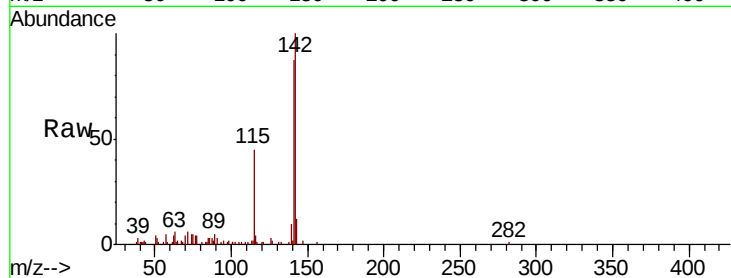
#37
2-Methylnaphthalene
Concen: 3.134 ng m
RT: 12.44 min Scan# 1591
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.3	105.5
115	44.7	29.8	44.6#

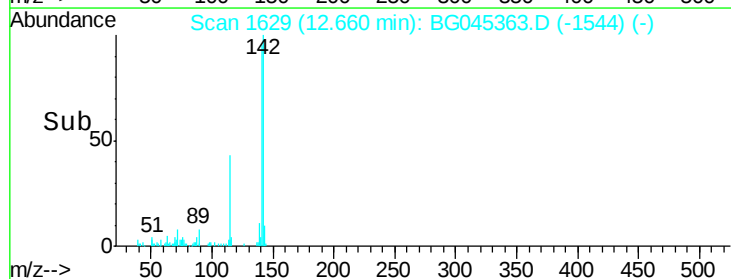
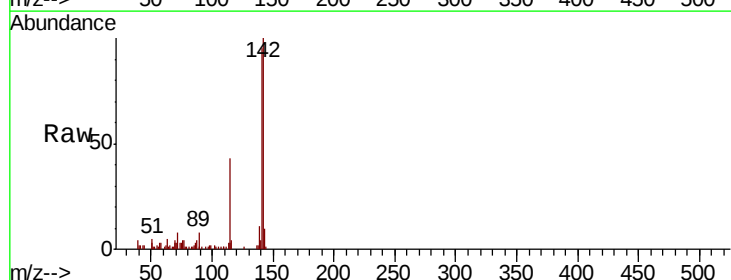
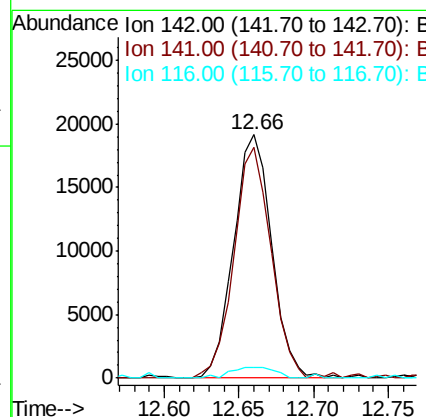
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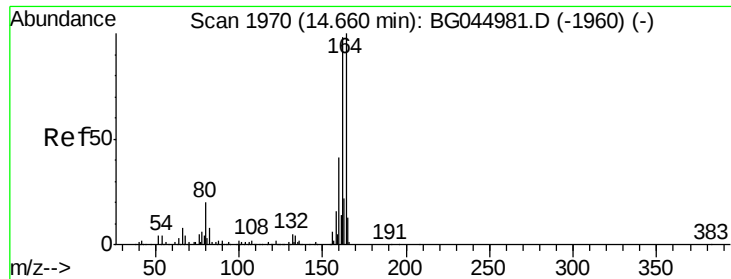
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#38
1-Methylnaphthalene
Concen: 2.929 ng
RT: 12.66 min Scan# 1629
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.9	72.7	109.1
116	4.2	3.1	4.7





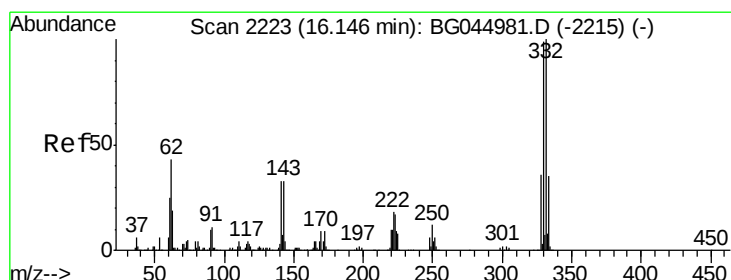
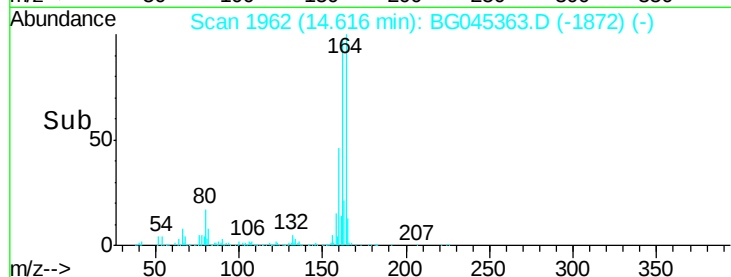
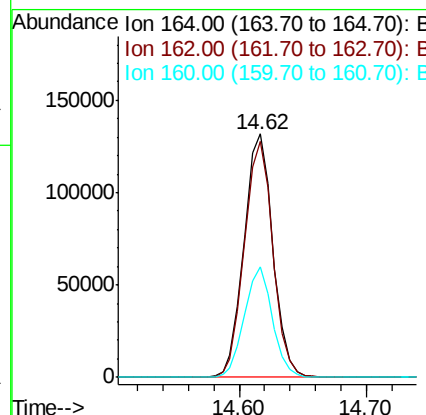
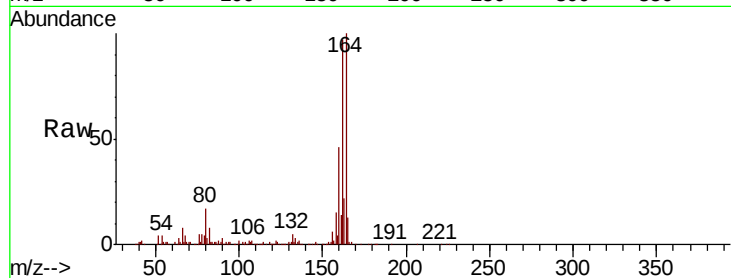
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.62 min Scan# 1962
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
164	100		
162	97.0	78.7	118.1
160	45.6	32.8	49.2

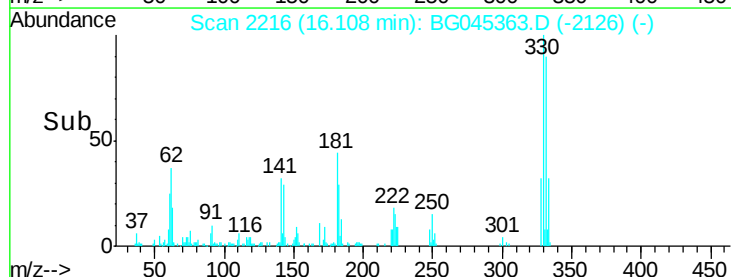
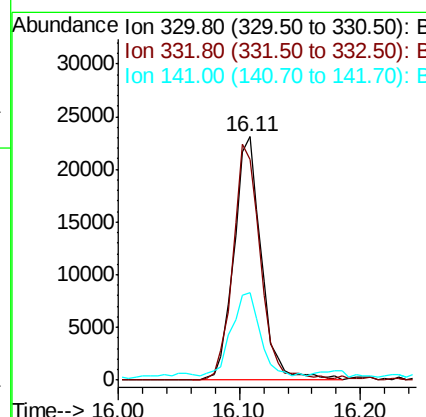
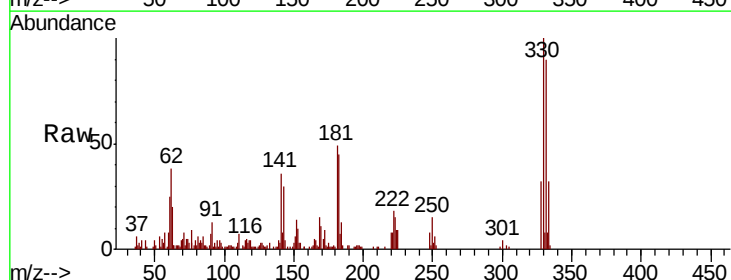
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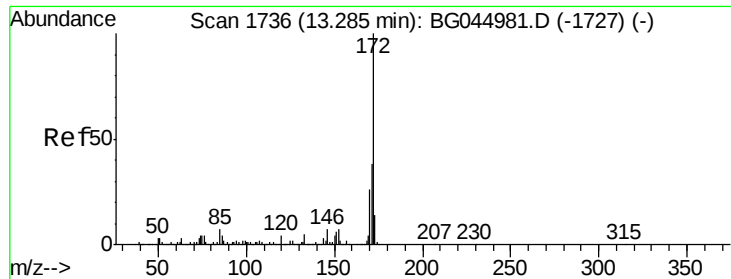
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#42
2,4,6-Tribromophenol
Concen: 11.373 ng
RT: 16.11 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	79.1	118.7
141	37.0	27.1	40.7





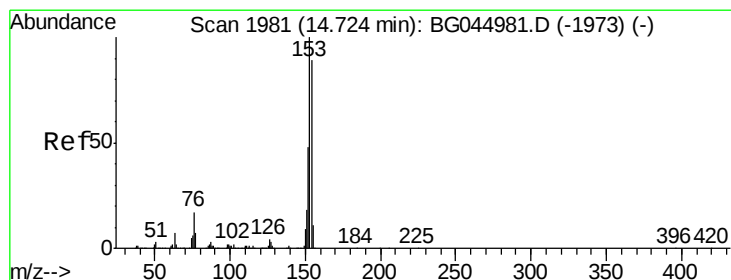
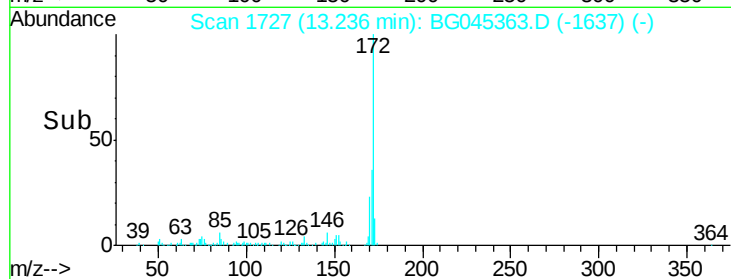
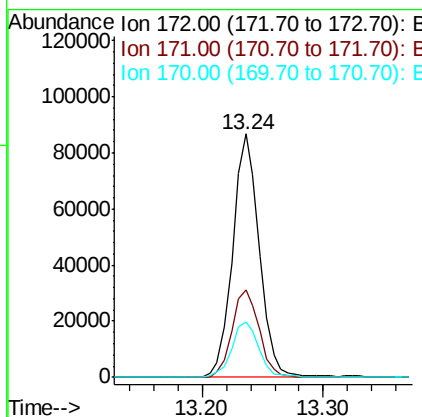
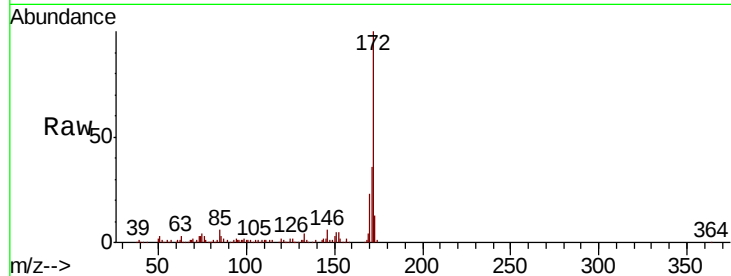
#45
2-Fluorobiphenyl
Concen: 9.388 ng
RT: 13.24 min Scan# 1727
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Resp	Lower	Upper
172	100	133360		
171	35.7		30.6	46.0
170	22.8		20.5	30.7

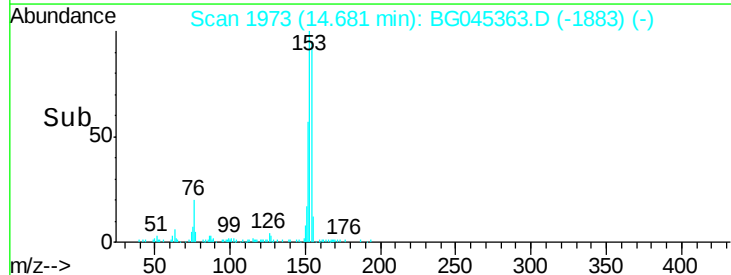
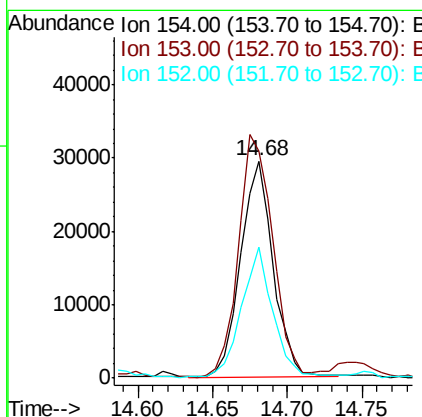
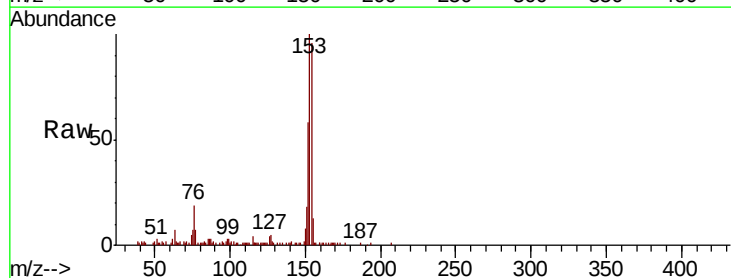
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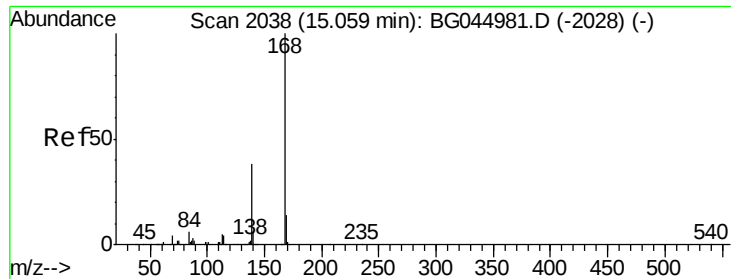
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#52
Acenaphthene
Concen: 3.332 ng
RT: 14.68 min Scan# 1973
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	44420		
153	104.6		89.7	134.5
152	60.1		43.1	64.7





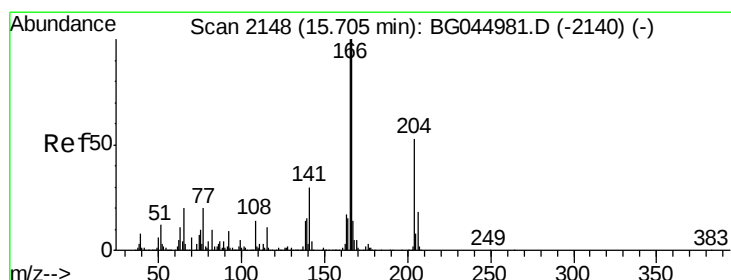
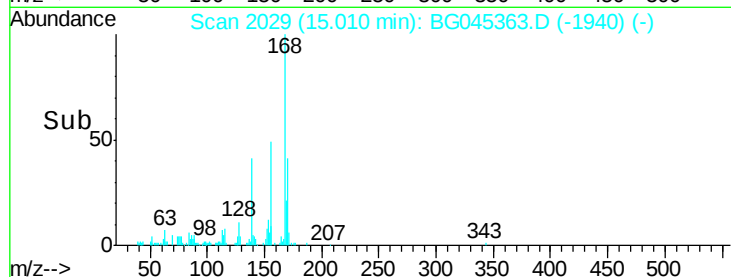
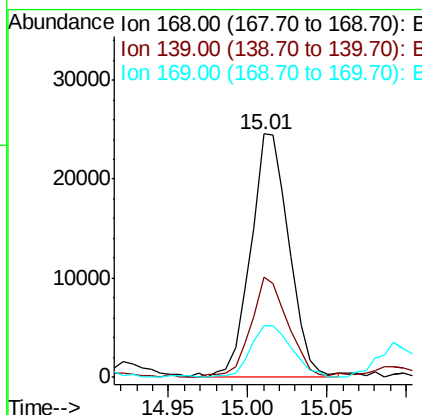
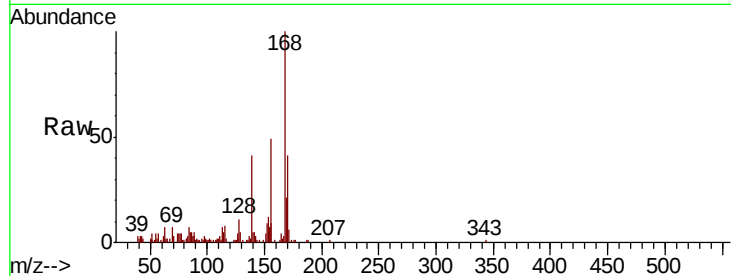
#55
Dibenzenofuran
Concen: 2.127 ng
RT: 15.01 min Scan# 2029
Delta R.T. -0.01 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.4	30.4	45.6
169	20.9	11.0	16.4

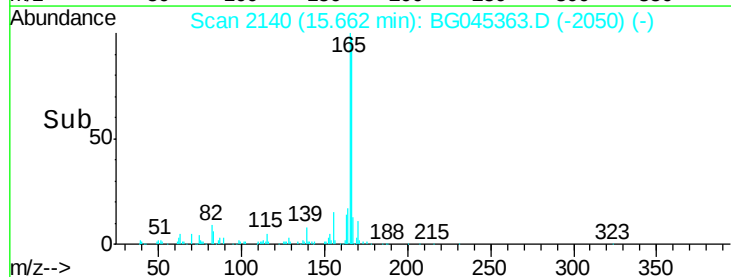
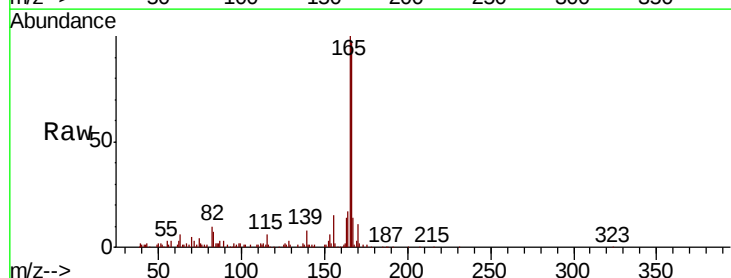
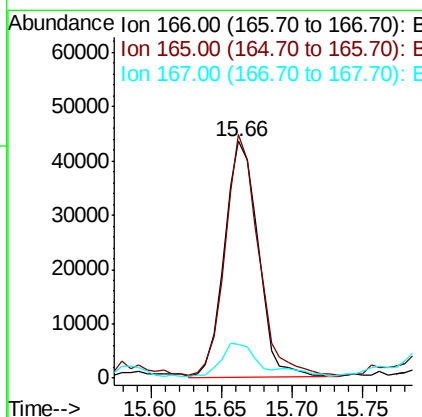
Manual Integrations
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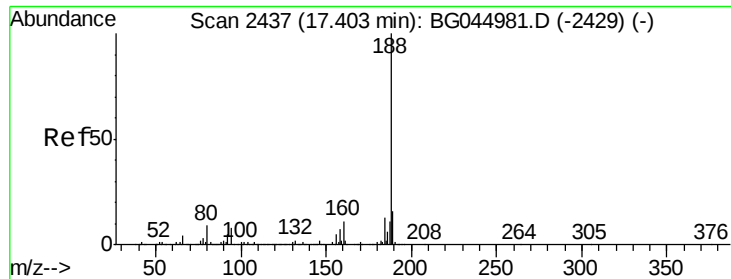
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#58
Fluorene
Concen: 4.556 ng
RT: 15.66 min Scan# 2140
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
166	100		
165	102.8	79.9	119.9
167	14.0	11.4	17.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.37 min Scan# 2430

Delta R.T. -0.00 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

Instrument :

BNA_G

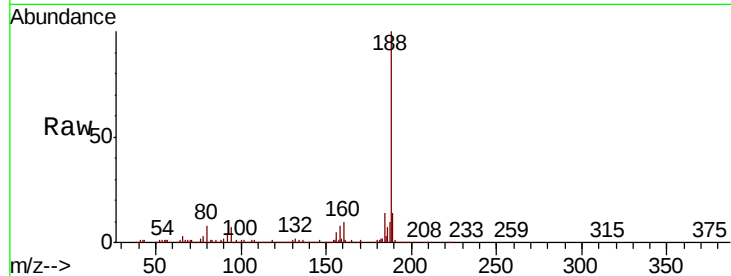
ClientSampleId :

PL-01-050820

Tot Ion:	188	Resp:	422416
Ion Ratio	Lower	Upper	
188	100		
94	6.6	6.2	9.4
80	7.8	7.0	10.6

Manual Integrations
APPROVED

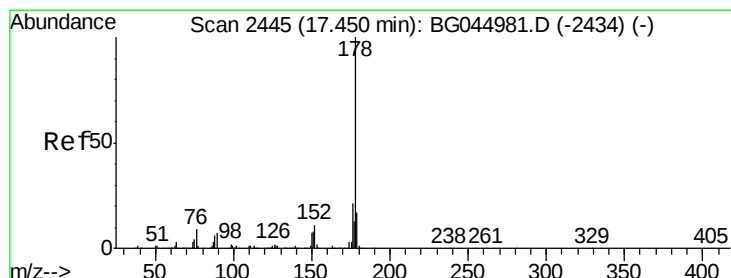
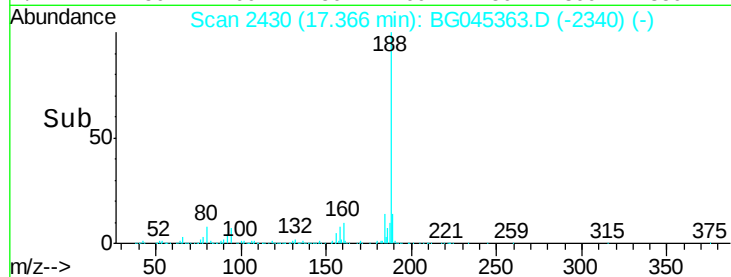
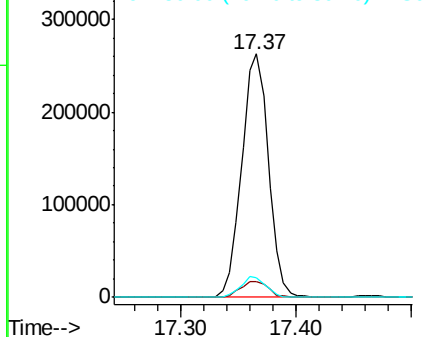
mohammad
5/14/2020 11:54:18 AM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#71

Phenanthrene

Concen: 33.735 ng

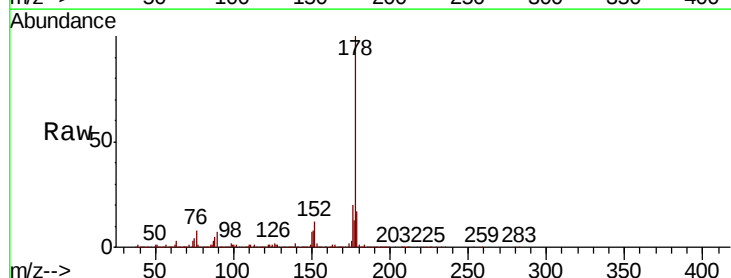
RT: 17.41 min Scan# 2437

Delta R.T. -0.00 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

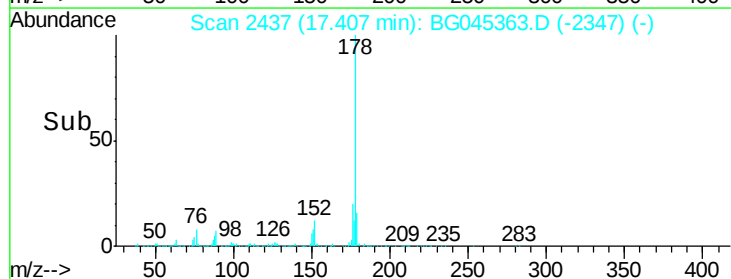
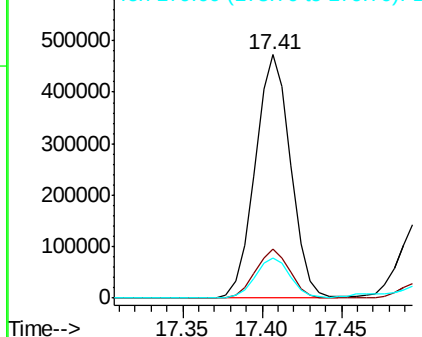
Tgt Ion:	178	Resp:	732289
Ion Ratio	Lower	Upper	
178	100		
176	19.9	16.8	25.2
179	16.7	13.2	19.8

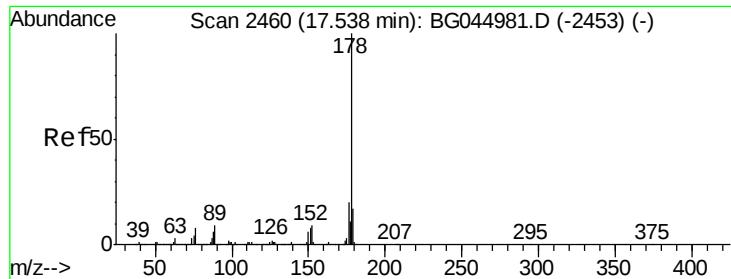


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 10.116 ng

RT: 17.49 min Scan# 2452

Delta R.T. -0.00 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

Instrument :

BNA_G

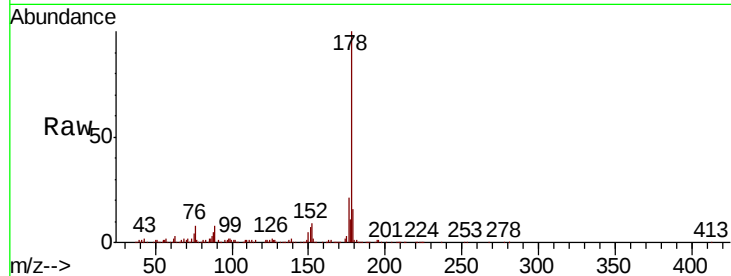
ClientSampleId :

PL-01-050820

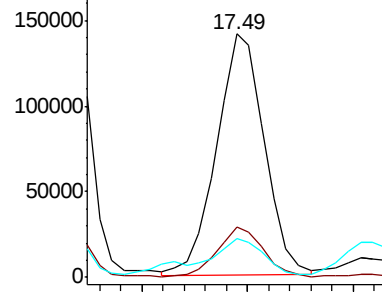
Tot Ion:	178	Resp:	220273
Ion Ratio	Lower	Upper	
178	100		
176	20.6	16.0	24.0
179	16.1	13.6	20.4

Manual Integrations
APPROVED

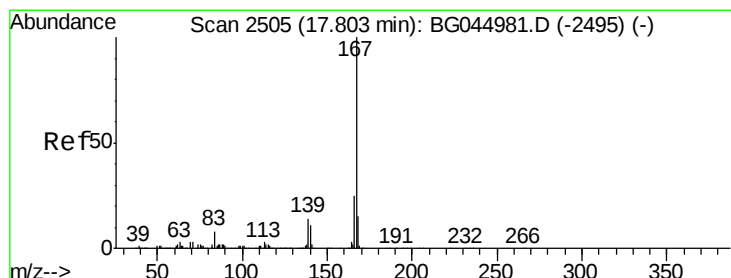
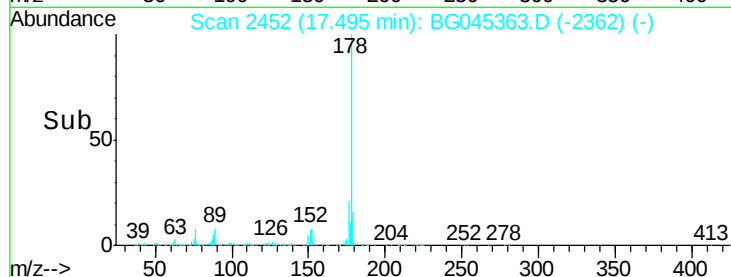
mohammad
5/14/2020 11:54:18 AM



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



Time-->



#73

Carbazole

Concen: 2.281 ng

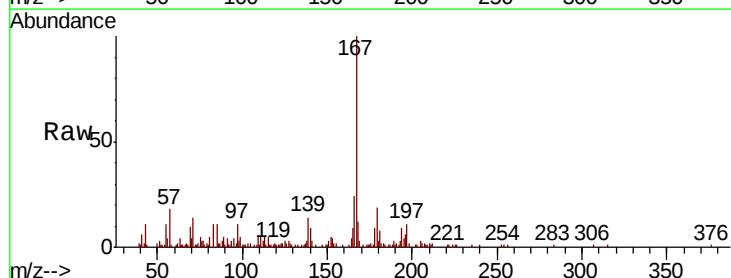
RT: 17.76 min Scan# 2498

Delta R.T. -0.00 min

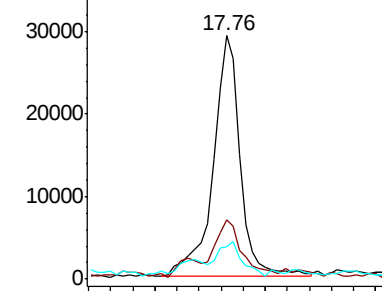
Lab File: BG045363.D

Acq: 13 May 2020 15:34

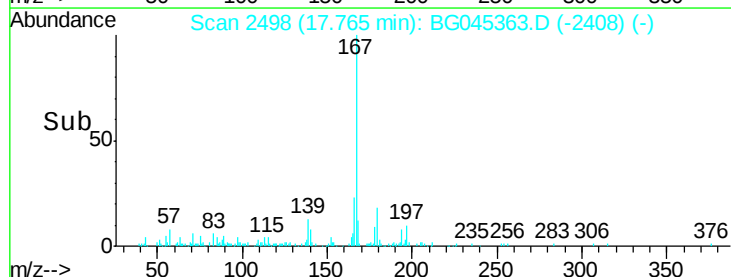
Tgt Ion:	167	Resp:	50396
Ion Ratio	Lower	Upper	
167	100		
166	24.3	19.8	29.6
139	13.5	10.9	16.3

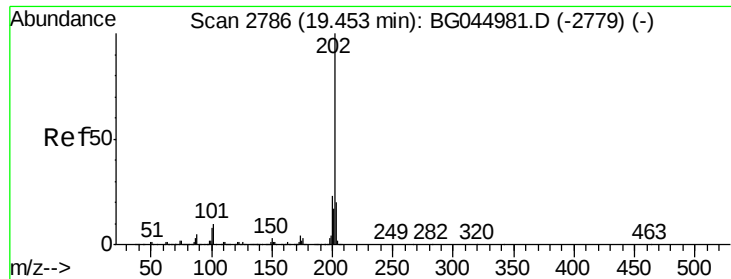


Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



Time-->





#75

Fluoranthene

Concen: 47.791 ng

RT: 19.42 min Scan# 2780

Delta R.T. 0.01 min

Lab File: BG045363.D

Acq: 13 May 2020 15:34

Instrument :

BNA_G

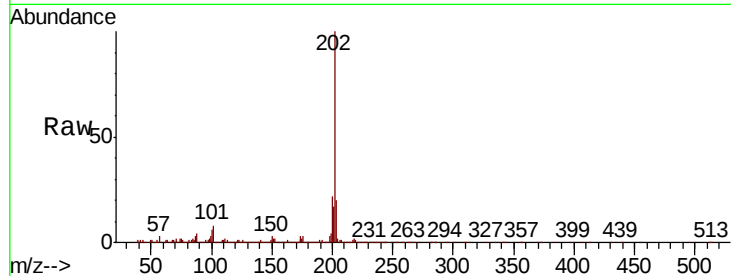
ClientSampleId :

PL-01-050820

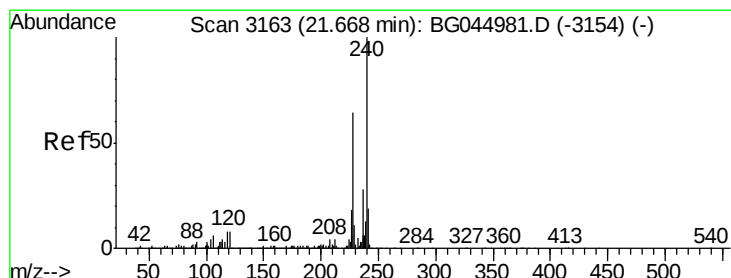
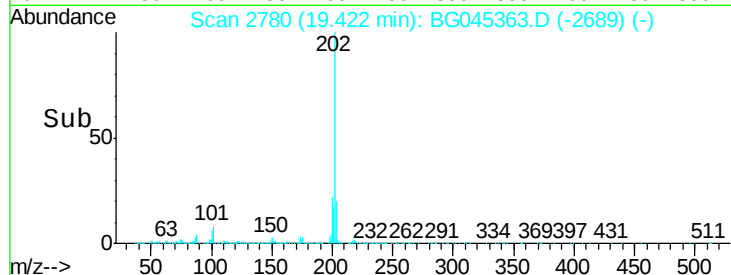
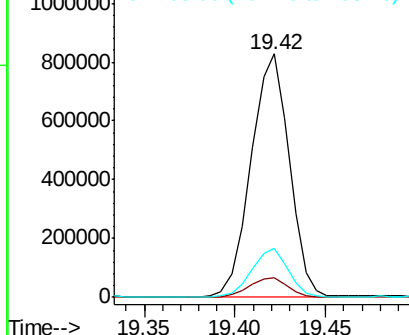
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		1209561		
101	7.8	0.0	29.6		
203	20.2	0.0	39.7		

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



#76

Chrysene-d12

Concen: 20.000 ng

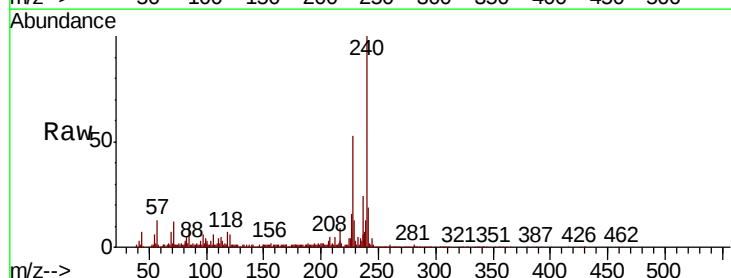
RT: 21.62 min Scan# 3155

Delta R.T. -0.00 min

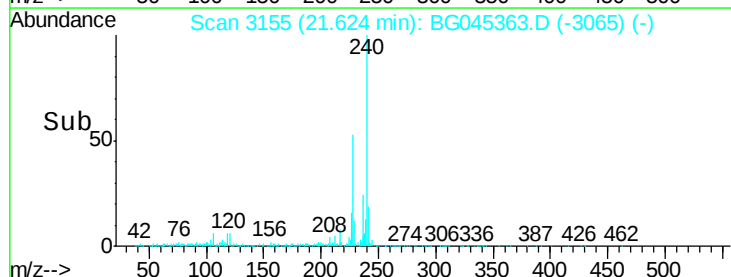
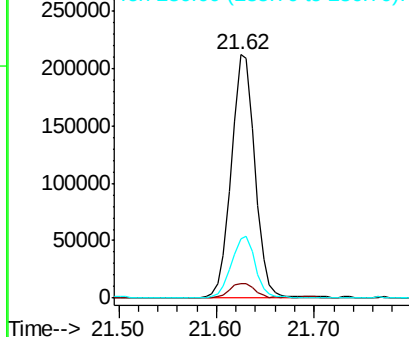
Lab File: BG045363.D

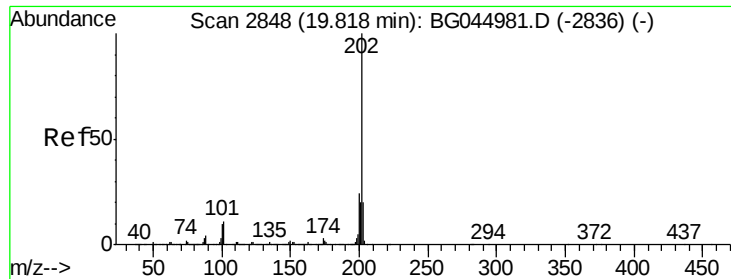
Acq: 13 May 2020 15:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		353170		
120	6.2	6.6	10.0#		
236	24.4	22.2	33.2		



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





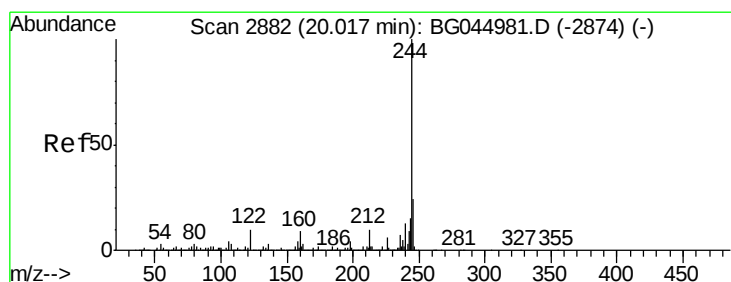
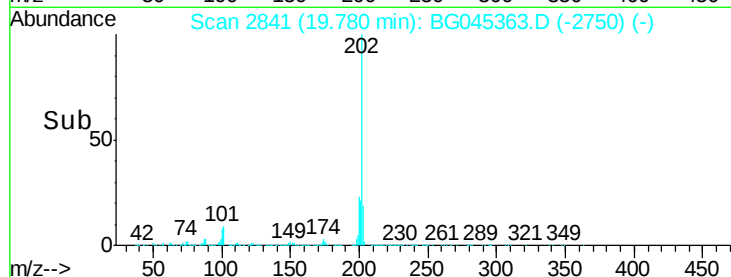
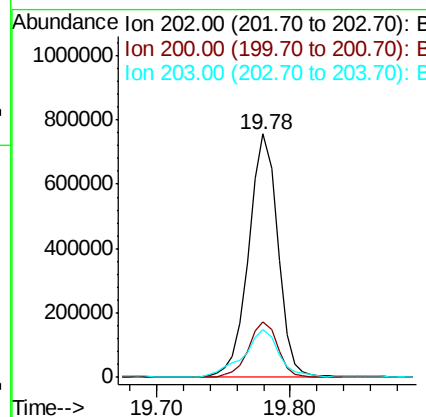
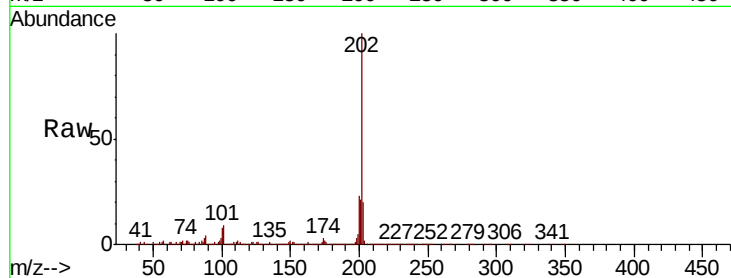
#78
Pvrene
Concen: 46.613 ng
RT: 19.78 min Scan# 2841
Delta R.T. 0.01 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
202	100		
200	22.9	19.0	28.6
203	19.7	16.1	24.1

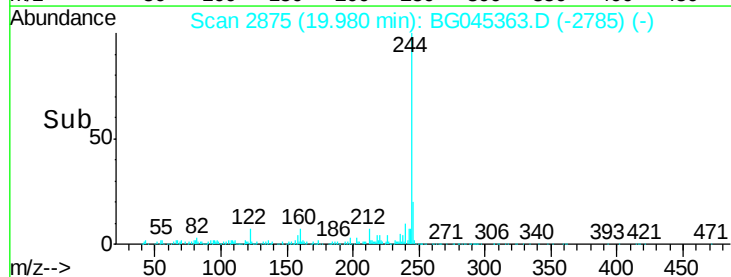
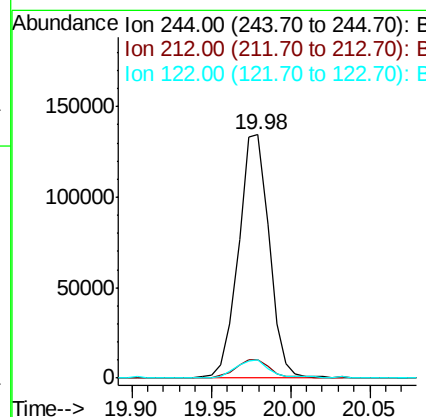
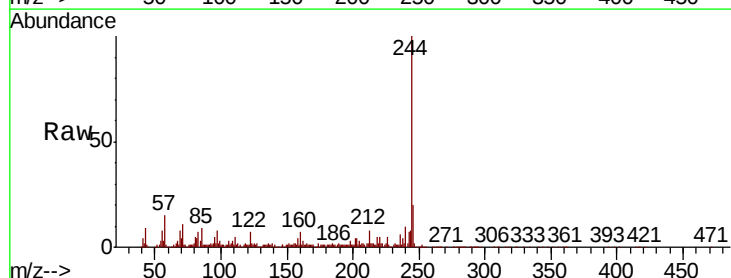
Manual Integrations
APPROVED

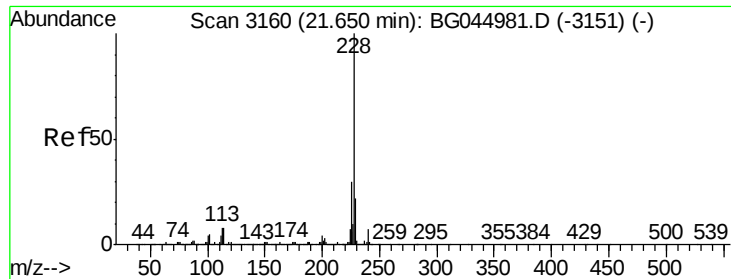
mohammad
5/14/2020 11:54:18 AM



#79
Terphenyl-d14
Concen: 11.164 ng
RT: 19.98 min Scan# 2875
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.6	7.9	11.9#
122	7.4	7.7	11.5#





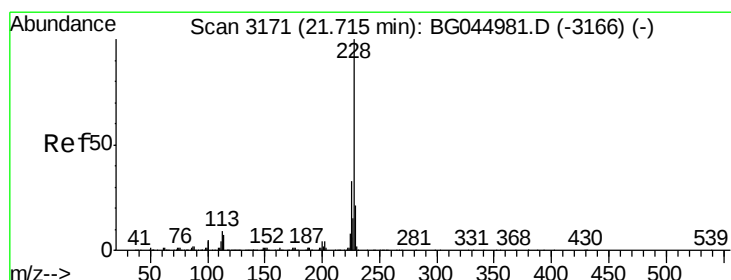
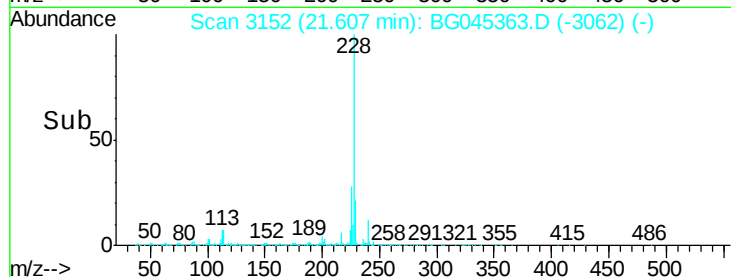
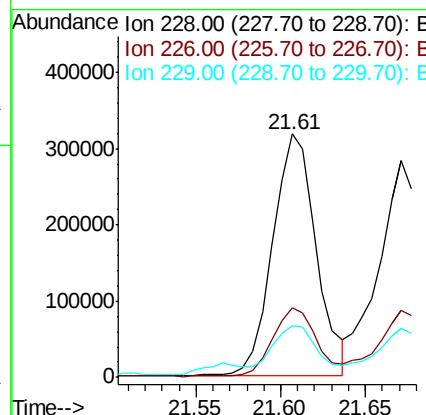
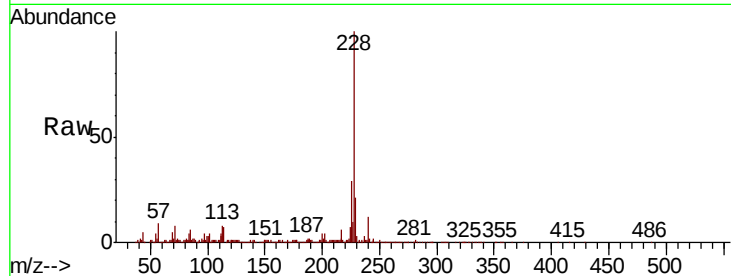
#81
Benzo(a)anthracene
Concen: 24.493 ng
RT: 21.61 min Scan# 3152
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.5	24.0	36.0
229	21.1	17.5	26.3

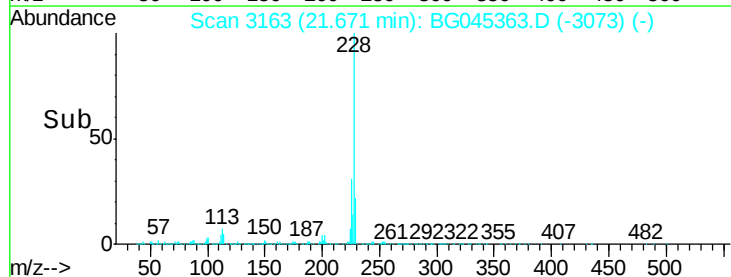
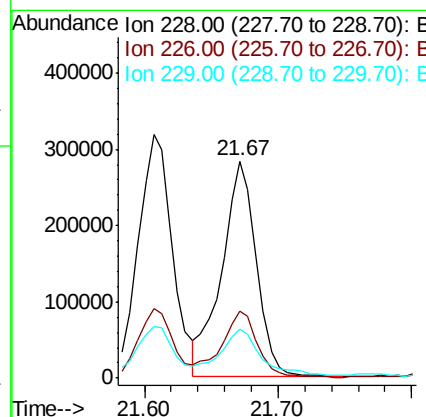
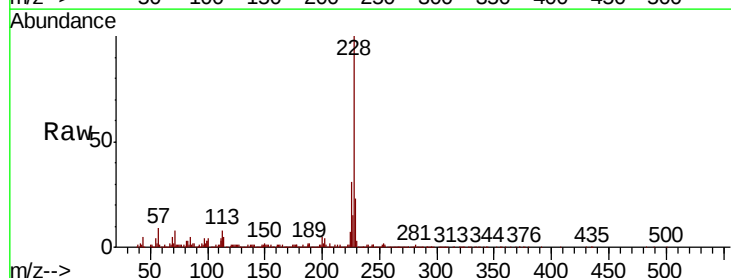
Manual Integrations
APPROVED

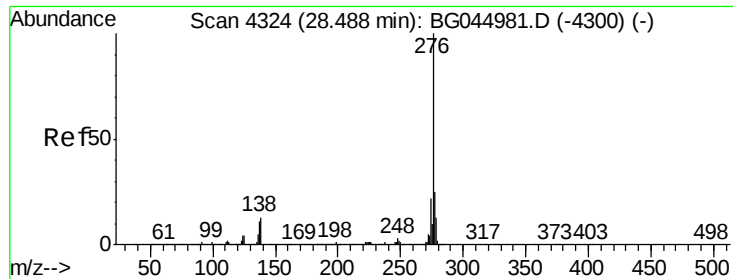
mohammad
5/14/2020 11:54:18 AM



#83
Chrysene
Concen: 23.352 ng
RT: 21.67 min Scan# 3163
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	26.2	39.4
229	22.6	17.0	25.6





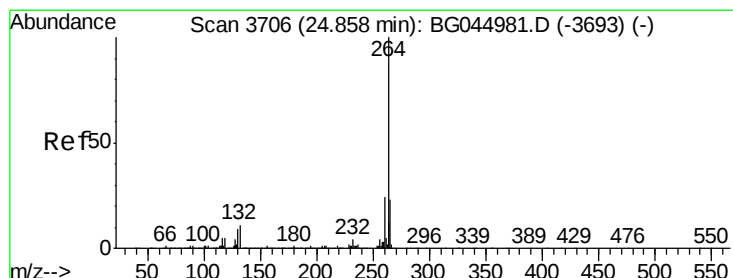
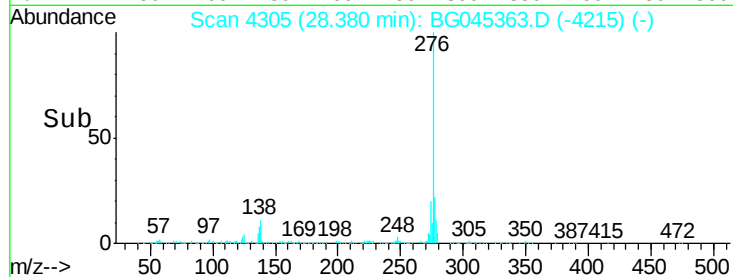
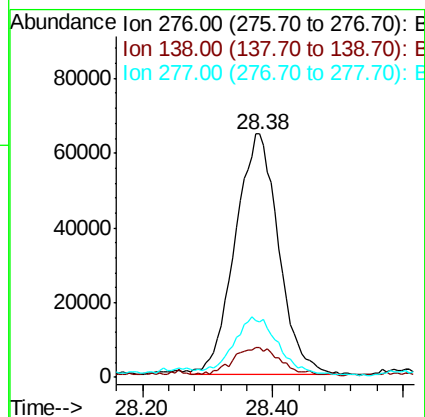
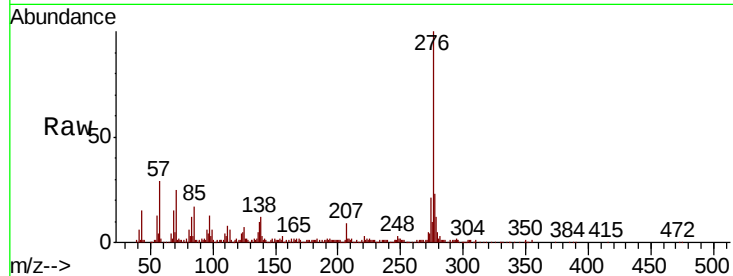
#86
Indeno(1,2,3-cd)pyrene
Concen: 10.140 ng
RT: 28.38 min Scan# 4305
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Resp	Lower	Upper
276	100	296089		
138	11.0		9.6	14.4
277	24.2		20.6	31.0

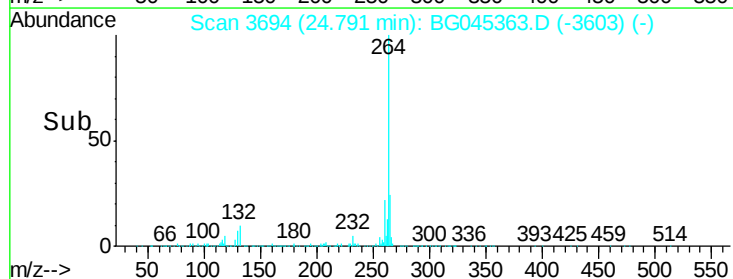
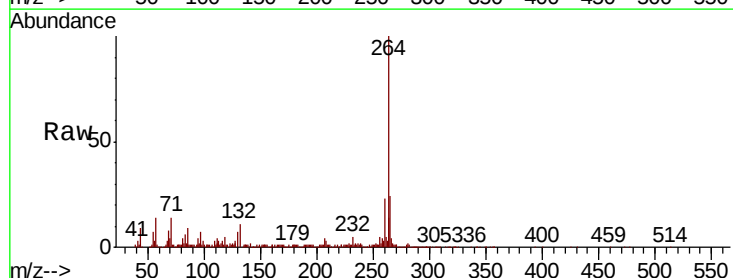
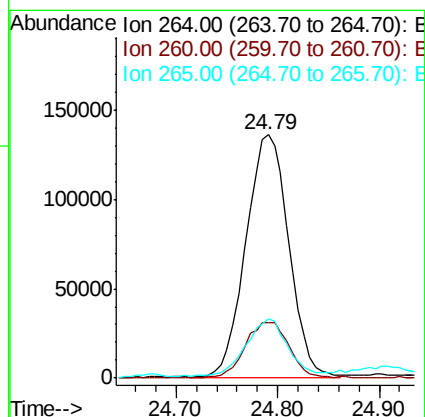
Manual Integrations
APPROVED

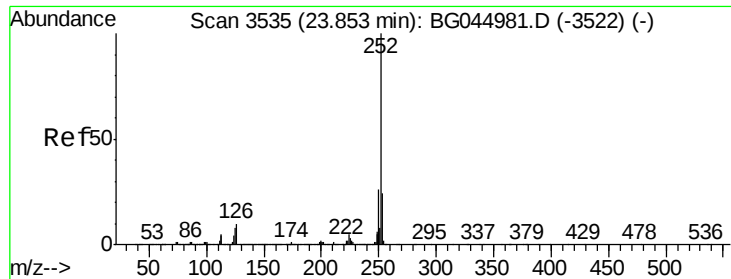
mohammad
5/14/2020 11:54:18 AM



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.79 min Scan# 3694
Delta R.T. 0.01 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	397690		
260	22.6		19.2	28.8
265	24.5		19.0	28.4





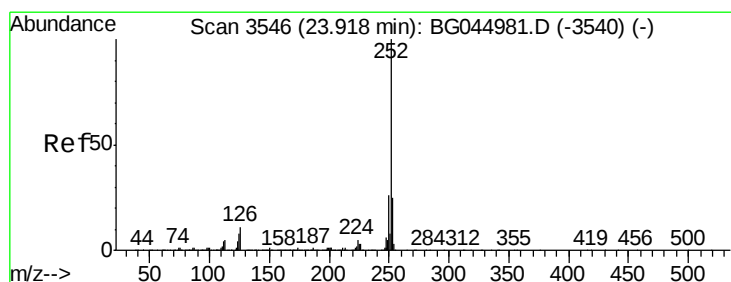
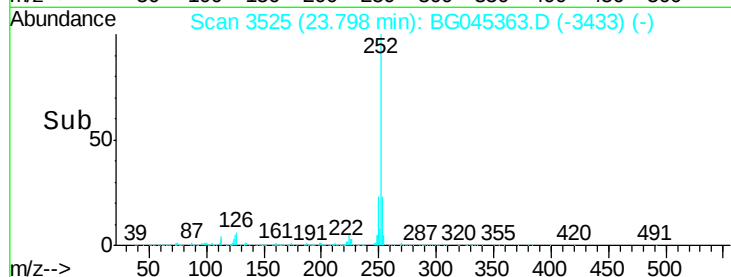
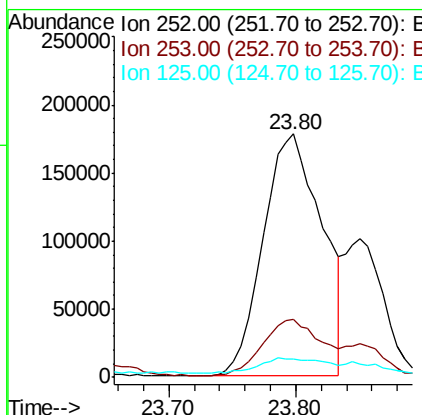
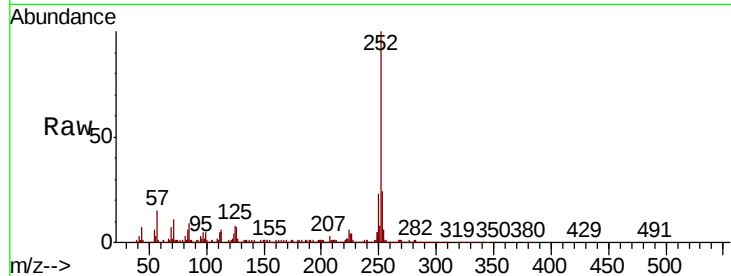
#88
Benzo(b)fluoranthene
Concen: 23.017 ng
RT: 23.80 min Scan# 3525
Delta R.T. 0.01 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.8	28.2
125	7.7	6.2	9.4

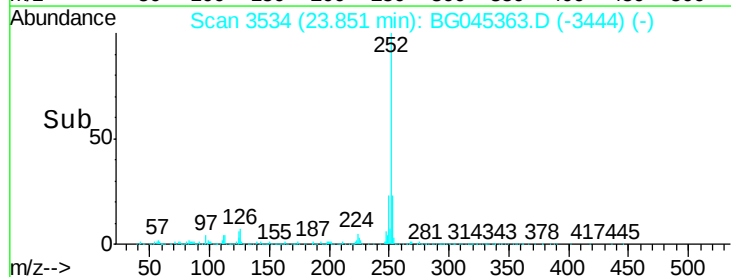
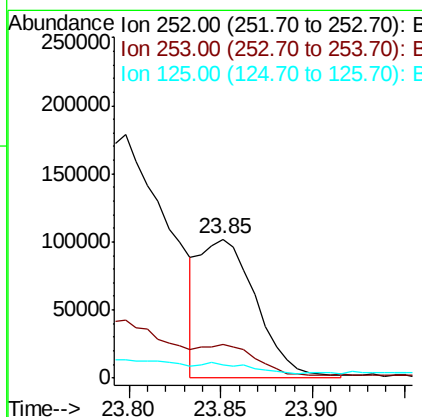
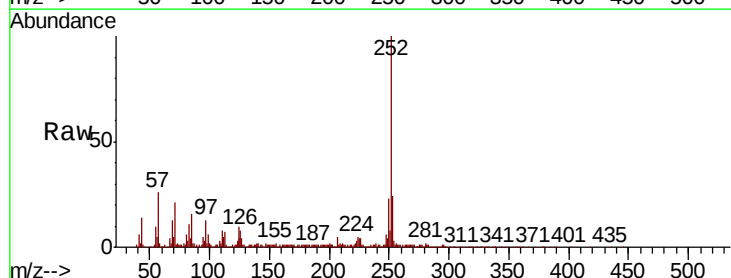
Manual Integrations
APPROVED

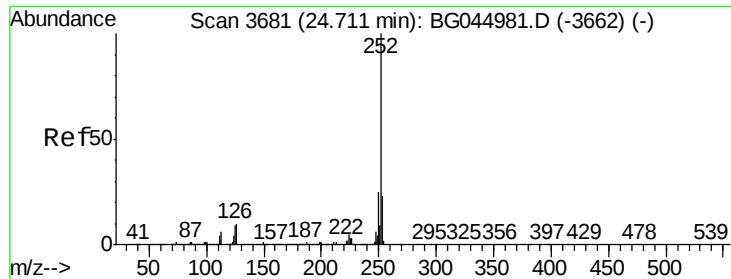
mohammad
5/14/2020 11:54:18 AM



#89
Benzo(k)fluoranthene
Concen: 9.197 ng m
RT: 23.85 min Scan# 3534
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	19.2	28.8
125	9.7	5.9	8.9#





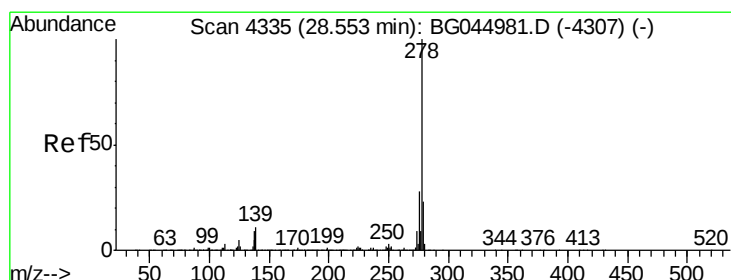
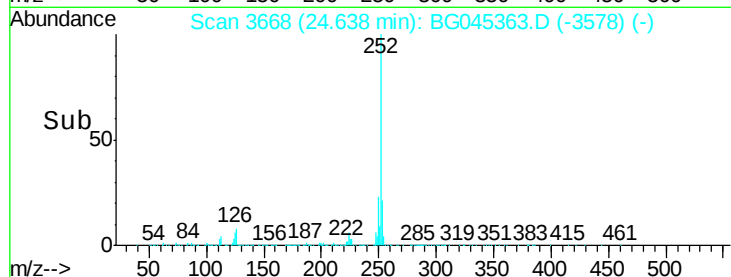
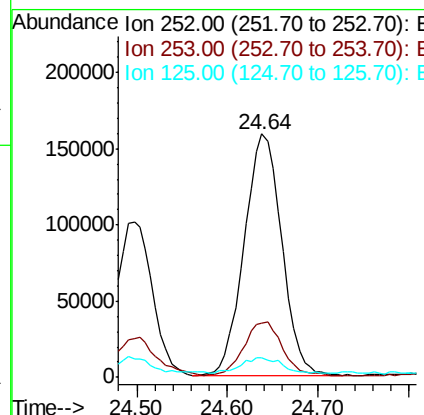
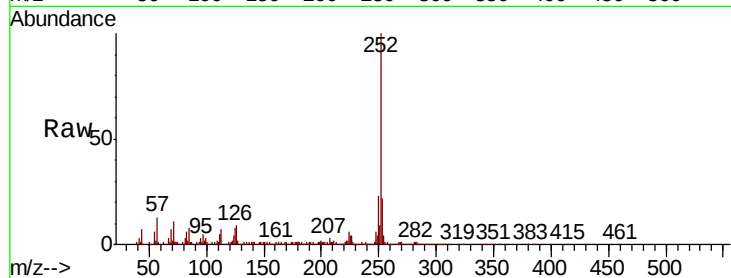
#90
Benzo(a)pyrene
Concen: 19.317 ng
RT: 24.64 min Scan# 3668
Delta R.T. -0.00 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Instrument :
BNA_G
ClientSampleId :
PL-01-050820

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.3	27.5
125	7.9	7.0	10.6

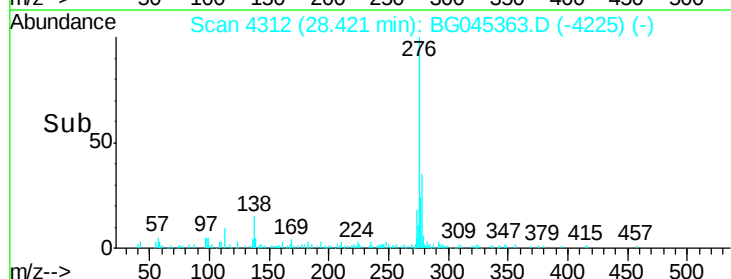
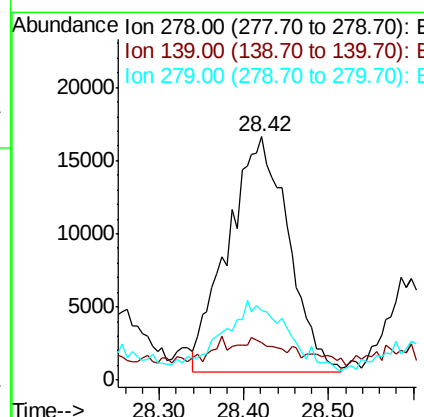
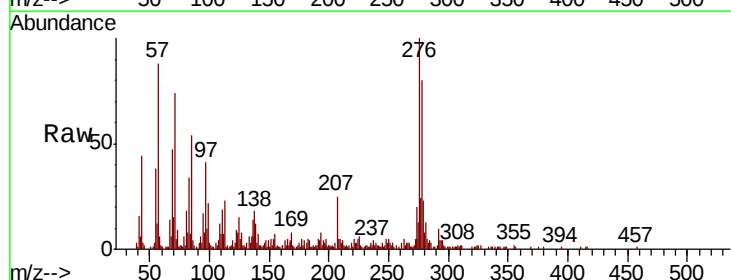
Manual Integrations
APPROVED

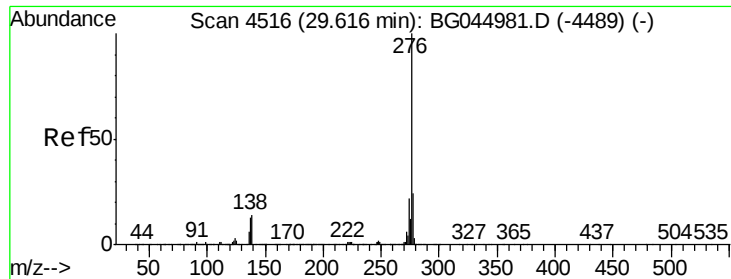
mohammad
5/14/2020 11:54:18 AM



#91
Dibenzo(a,h)anthracene
Concen: 3.387 ng m
RT: 28.42 min Scan# 4312
Delta R.T. -0.02 min
Lab File: BG045363.D
Acq: 13 May 2020 15:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.6	9.0	13.6#
279	28.5	18.4	27.6#





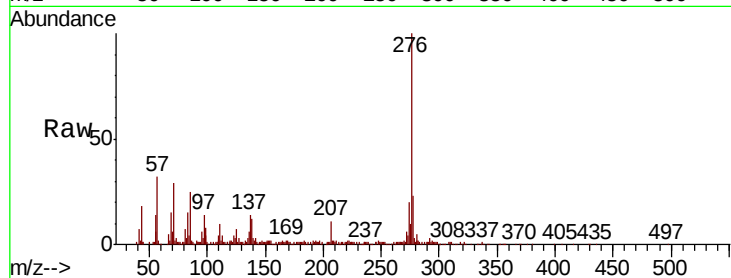
#92
 Benzo(a,h,i)perylene
 Concen: 12.055 ng
 RT: 29.49 min Scan# 4494
 Delta R.T. -0.01 min
 Lab File: BG045363.D
 Acq: 13 May 2020 15:34

Instrument :
 BNA_G
 ClientSampleId :
 PL-01-050820

Tot Ion:	276	Resp:	286421
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.3	28.9
138	12.0	11.4	17.2

Manual Integrations
 APPROVED

mohammad
 5/14/2020 11:54:18 AM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

