

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082919\
 Data File : BG042567.D
 Acq On : 29 Aug 2019 16:16
 Operator : HP/JU
 Sample : K4568-12
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-19-COMP

Manual Integrations
 APPROVED

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 8/30/2019 7:57:47 PM

Quant Time: Aug 29 17:07:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 22 14:29:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.00	152	27198	20.00	ng	0.00
21) Naphthalene-d8	10.82	136	106844	20.00	ng	0.00
39) Acenaphthene-d10	14.66	164	85314	20.00	ng	0.00
64) Phenanthrene-d10	17.41	188	211907	20.00	ng	0.00
76) Chrysene-d12	21.69	240	237979	20.00	ng	0.00
87) Perylene-d12	24.94	264	290489	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	226667	168.79	ng	0.00
7) Phenol-d6	7.17	99	303363	167.24	ng	0.00
23) Nitrobenzene-d5	9.17	82	173651	112.31	ng	0.00
42) 2,4,6-Tribromophenol	16.16	330	236382	194.94	ng	0.00
45) 2-Fluorobiphenyl	13.28	172	524923	104.06	ng	0.00
79) Terphenyl-d14	20.03	244	1024250	93.05	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.19	94	6719	3.643	ng	78
31) Naphthalene	10.87	128	27597	5.563	ng	98
37) 2-Methylnaphthalene	12.48	142	11648	2.924	ng	98
38) 1-Methylnaphthalene	12.70	142	10436	2.758	ng	82
50) Dimethylphthalate	14.11	163	66150	10.746	ng	99
52) Acenaphthene	14.72	154	22674	5.220	ng	98
55) Dibenzofuran	15.06	168	32289	4.490	ng	100
58) Fluorene	15.71	166	35964	6.118	ng	99
71) Phenanthrene	17.45	178	528974	50.255	ng	99
72) Anthracene	17.55	178	107871	10.266	ng	100
73) Carbazole	17.82	167	39342	4.201	ng	97
75) Fluoranthene	19.47	202	568911	44.287	ng	97
78) Pvrene	19.83	202	547426	37.520	ng	98
81) Benzo(a)anthracene	21.67	228	258082	17.827	ng	98
83) Chrysene	21.74	228	237357	17.001	ng	99
86) Indeno(1,2,3-cd)pyrene	28.66	276	135706	7.152	ng	96
88) Benzo(b)fluoranthene	23.91	252	282767	17.706	ng	99
89) Benzo(k)fluoranthene	23.97	252	104856m	6.831	ng	
90) Benzo(a)pvrene	24.79	252	232196	15.322	ng	99
91) Dibenzo(a,h)anthracene	28.69	278	31589	2.059	ng	92
92) Benzo(g,h,i)perylene	29.81	276	130033	8.473	ng	98

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

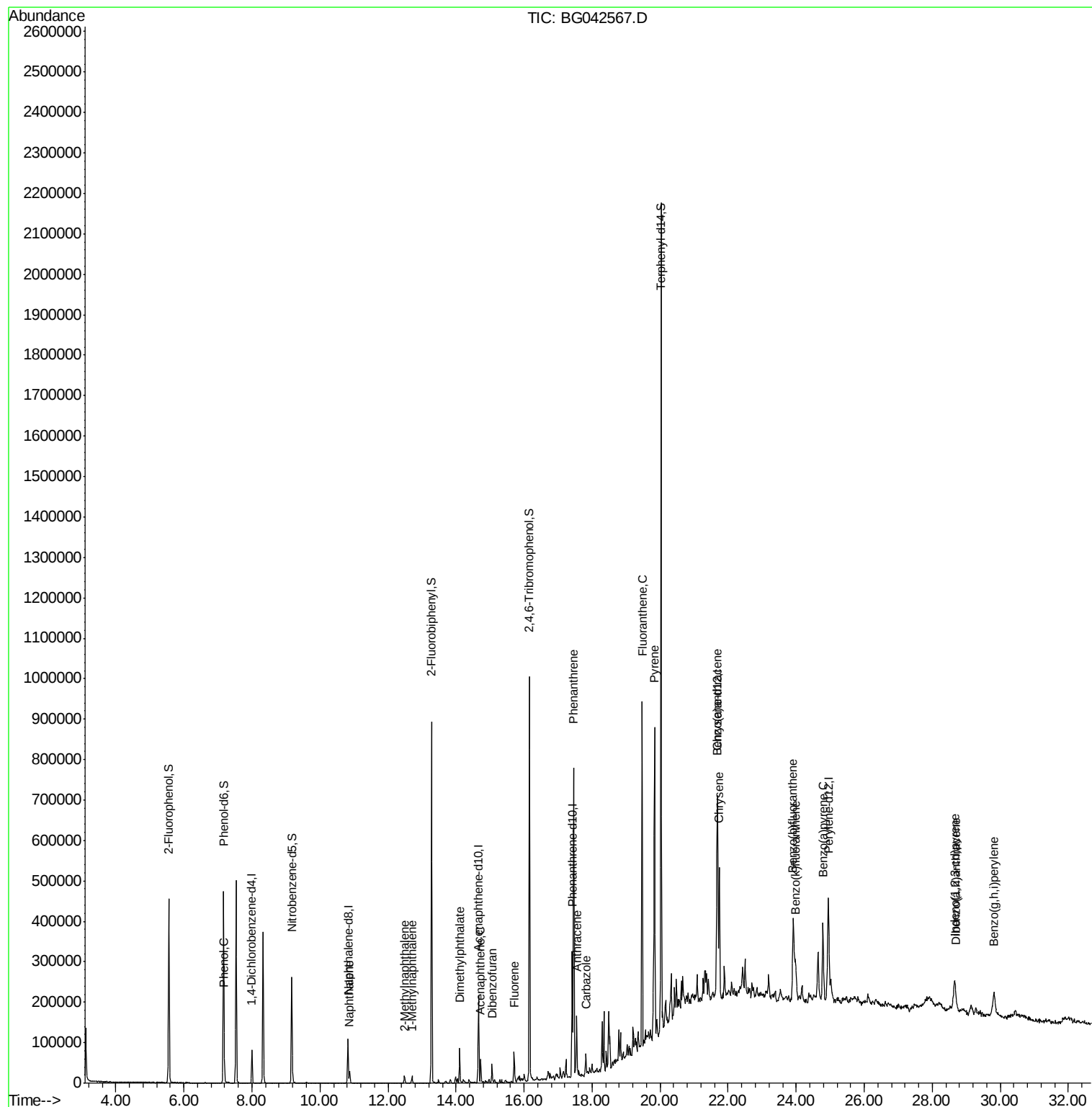
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082919\
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#1

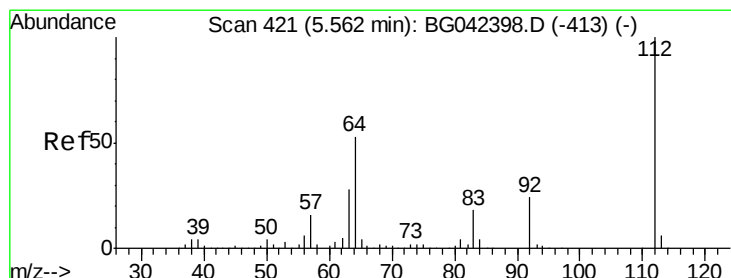
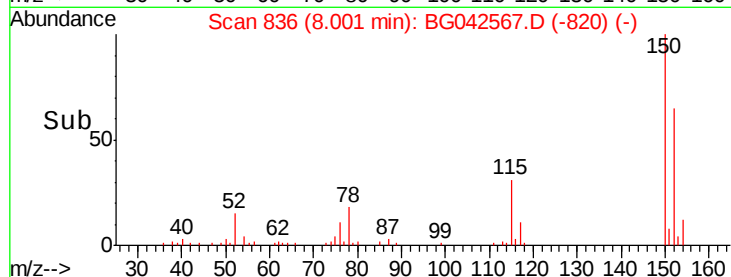
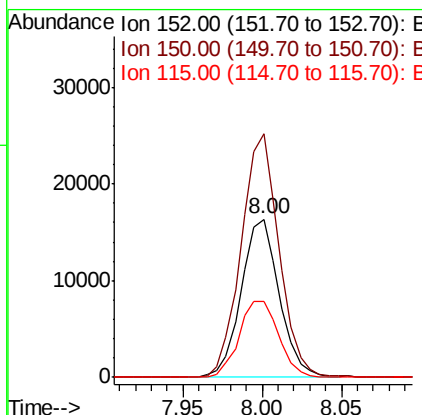
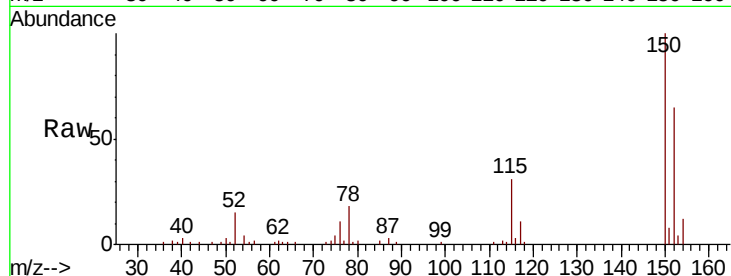
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.4	188.0
115	47.7	38.5	57.7

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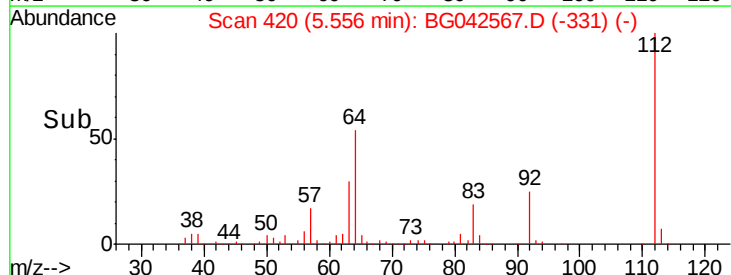
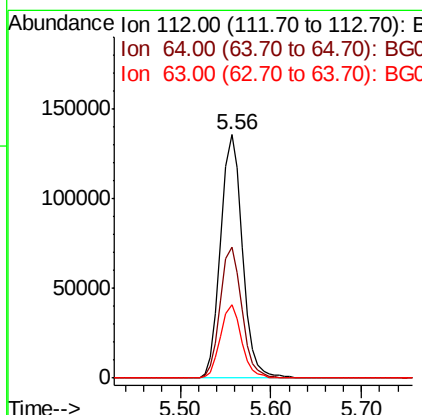
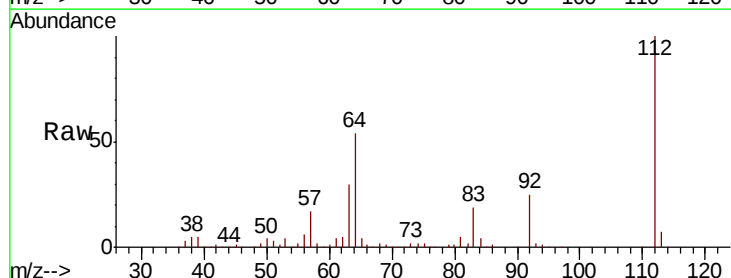
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#5

2-Fluorophenol
Concen: 168.787 ng
RT: 5.56 min Scan# 420
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.9	42.8	64.2
63	30.0	22.7	34.1





#7

Phenol-d6

Concen: 167.236 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

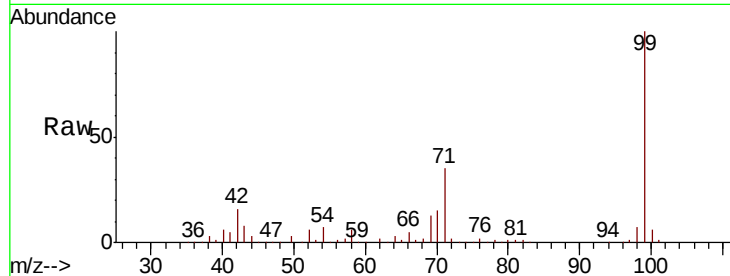
ClientSampleId :

SB-19-COMP

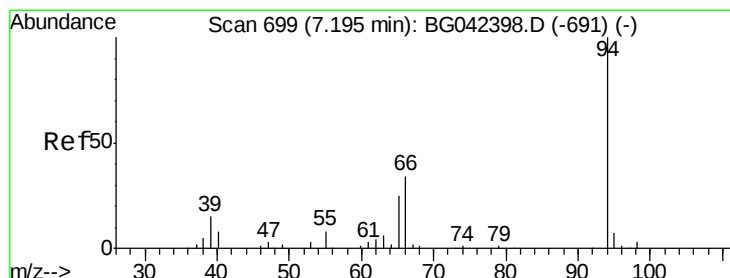
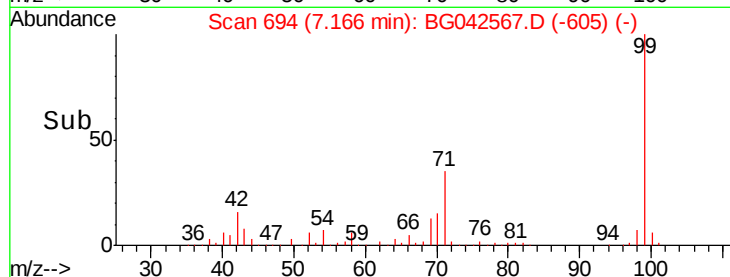
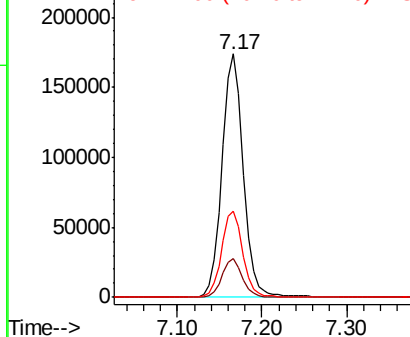
Tot Ion:	99	Resp:	303363
Ion Ratio	Lower	Upper	
99	100		
42	15.7	12.0	18.0
71	35.5	26.3	39.5

Manual Integrations
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Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#10

Phenol

Concen: 3.643 ng

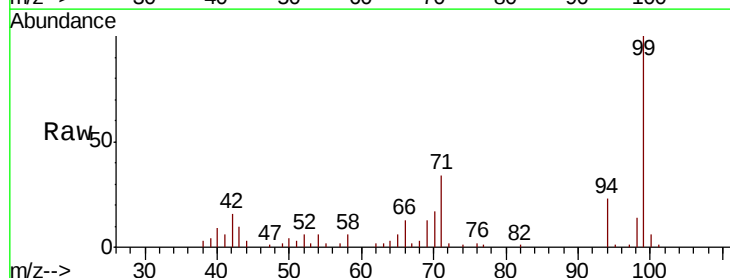
RT: 7.19 min Scan# 698

Delta R.T. -0.01 min

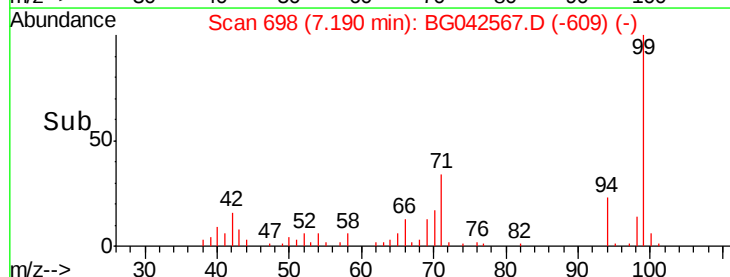
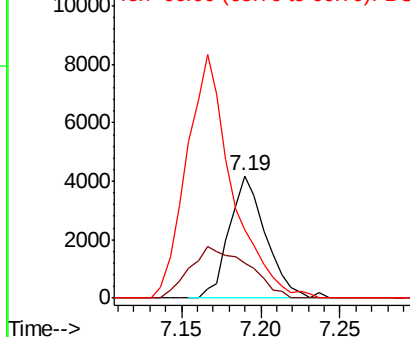
Lab File: BG042567.D

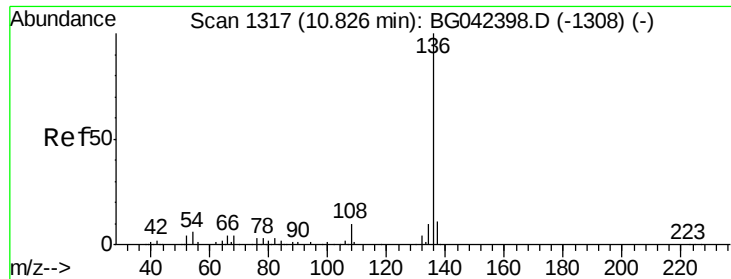
Acq: 29 Aug 2019 16:16

Tgt Ion:	94	Resp:	6719
Ion Ratio	Lower	Upper	
94	100		
65	28.1	5.6	45.6
66	55.7	16.0	56.0



Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.82 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

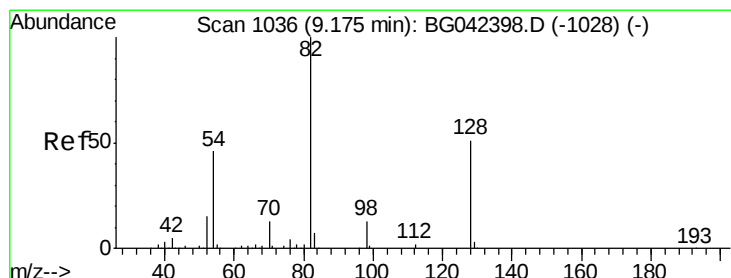
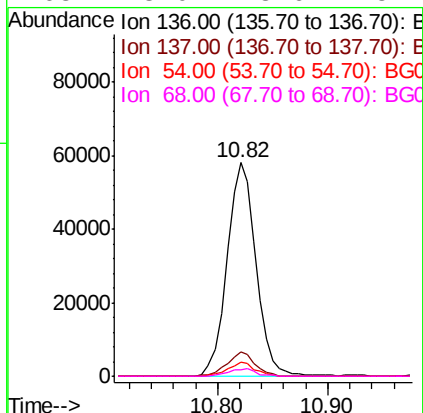
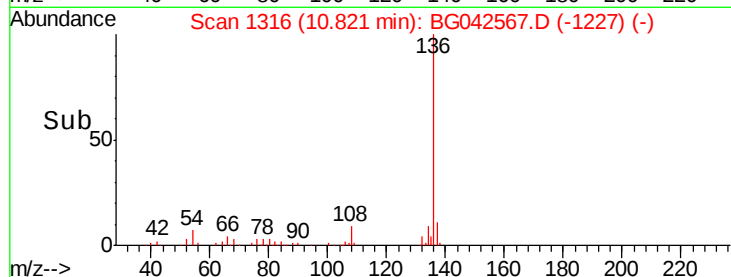
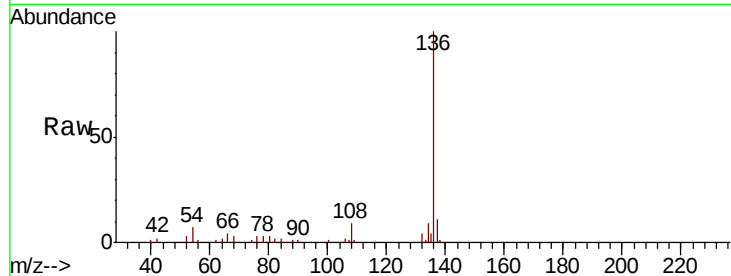
ClientSampleId :

SB-19-COMP

Tot Ion	Ratio	Resp	Lower	Upper
136	100	106844		
137	11.2	8.7	13.1	
54	6.7	4.9	7.3	
68	3.0	3.6	5.4	

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#23

Nitrobenzene-d5

Concen: 112.313 ng

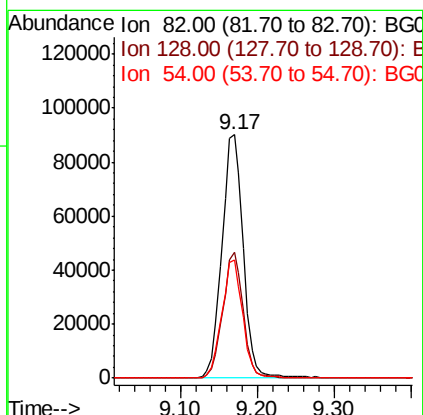
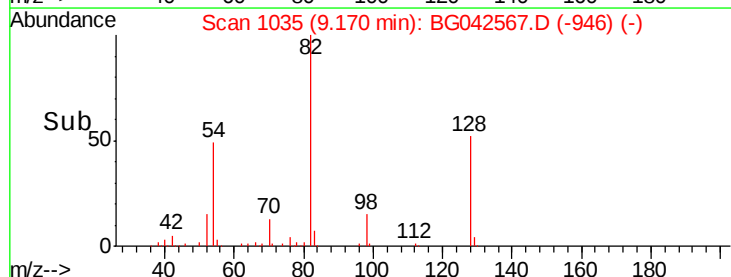
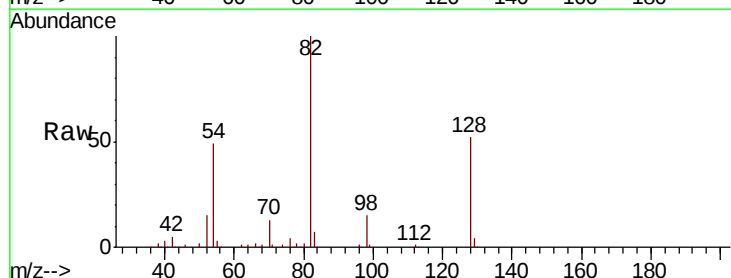
RT: 9.17 min Scan# 1035

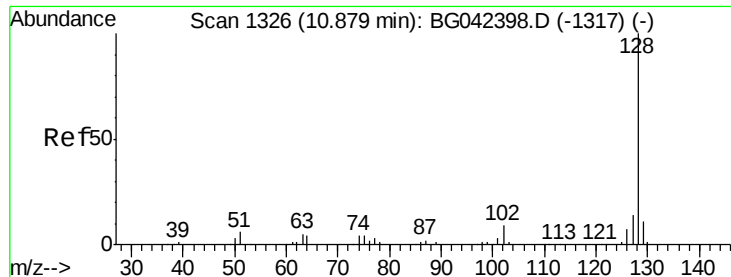
Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	173651		
128	51.5	40.7	61.1	
54	48.8	36.3	54.5	





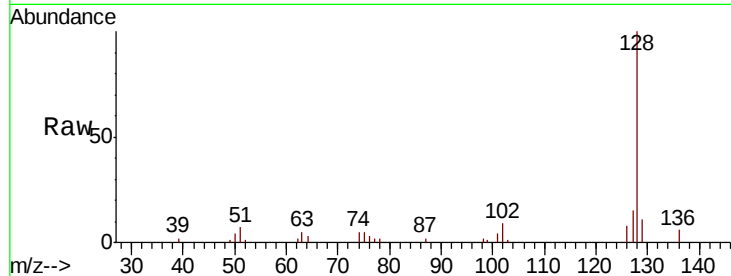
#31
Naphthalene
Concen: 5.563 ng
RT: 10.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	15.5	11.4	17.0

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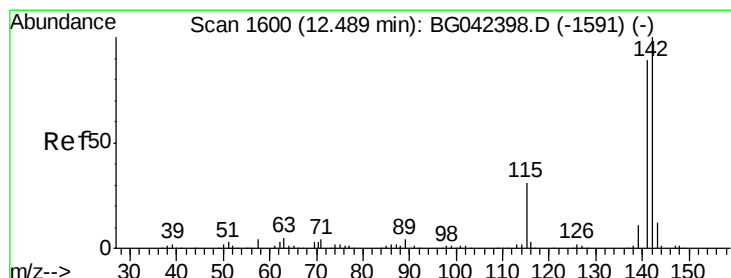
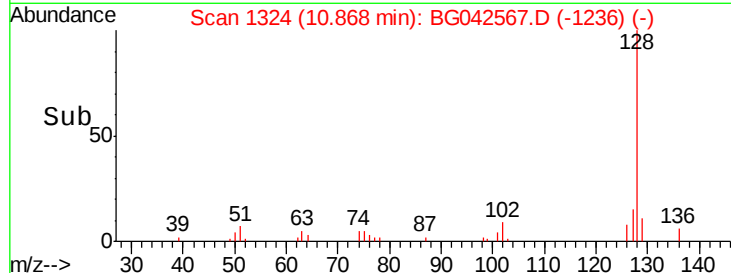
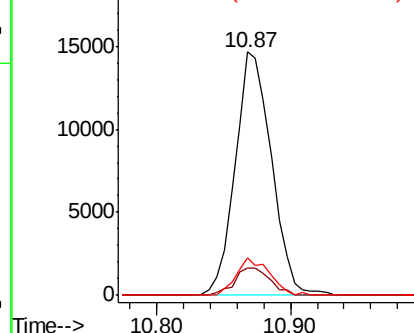


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37
2-Methylnaphthalene
Concen: 2.924 ng
RT: 12.48 min Scan# 1599
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

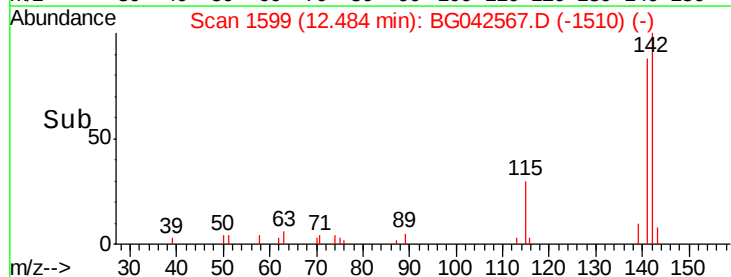
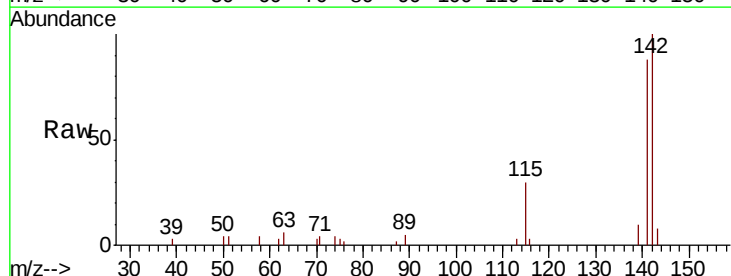
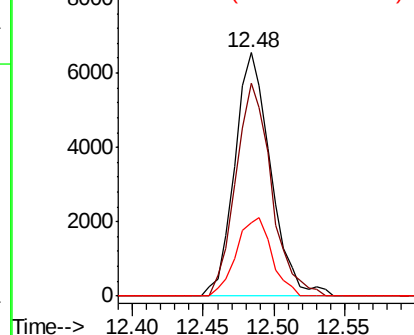
Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.4	107.2
115	30.2	25.2	37.8

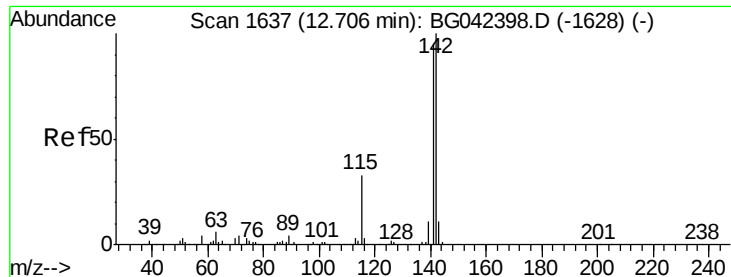
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





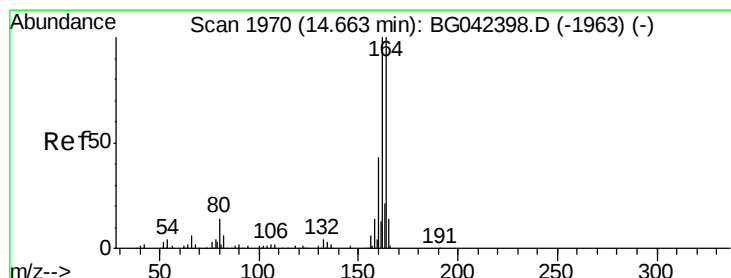
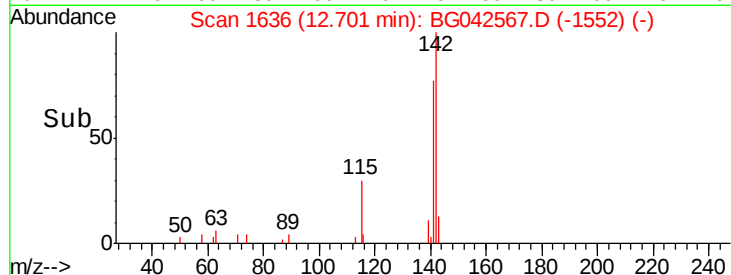
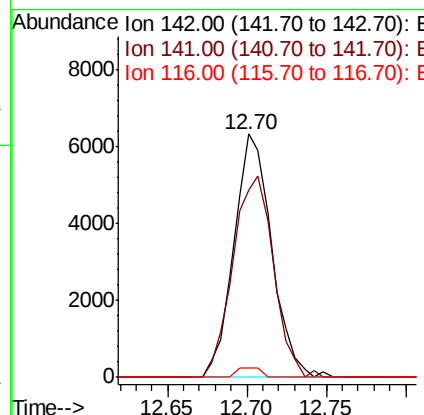
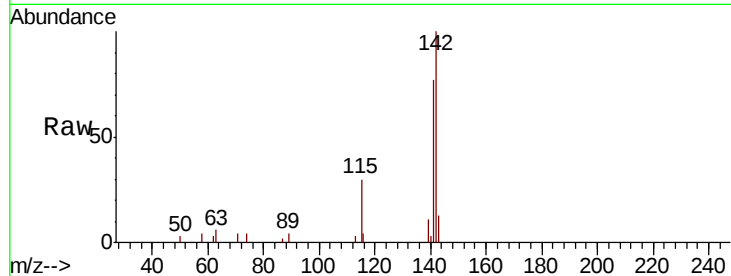
#38
1-Methylnaphthalene
Concen: 2.758 ng
RT: 12.70 min Scan# 1636
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	76.7	76.2	114.2
116	3.9	2.8	4.2

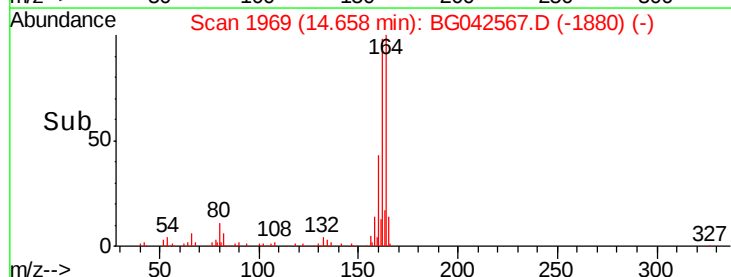
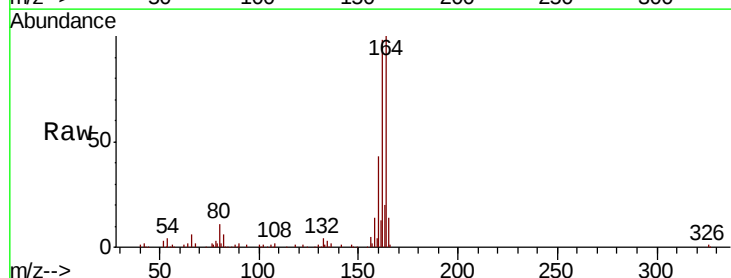
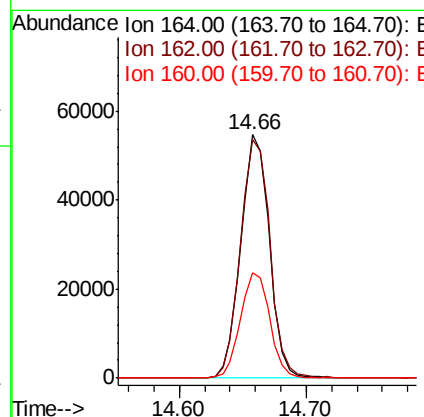
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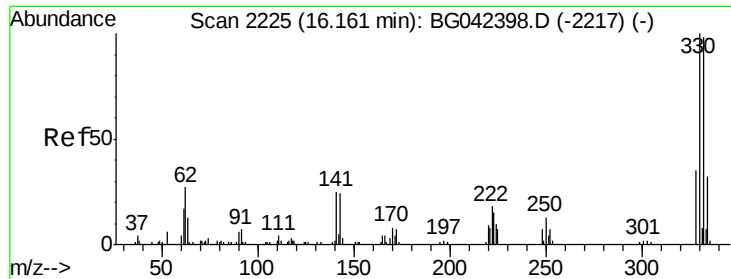
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#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.66 min Scan# 1969
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.0	79.9	119.9
160	43.0	34.3	51.5





#42

2,4,6-Tribromophenol

Concen: 194.938 ng

RT: 16.16 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

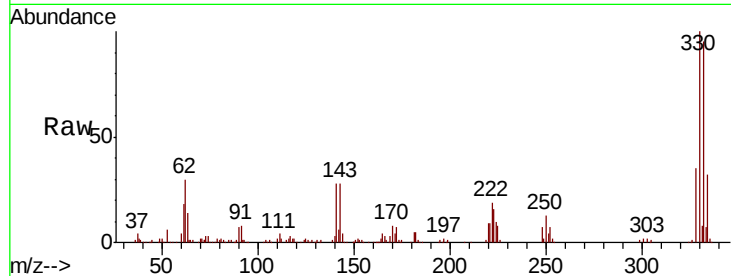
ClientSampleId :

SB-19-COMP

Tot Ion:	330	Resp:	236382
Ion Ratio	Lower	Upper	
330	100		
332	96.6	77.4	116.0
141	27.5	21.4	32.0

Manual Integrations
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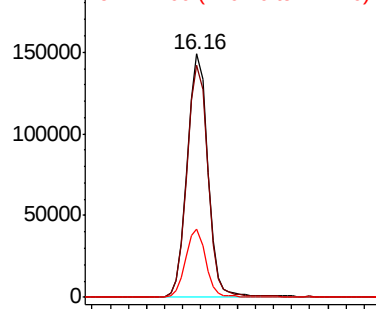


Abundance

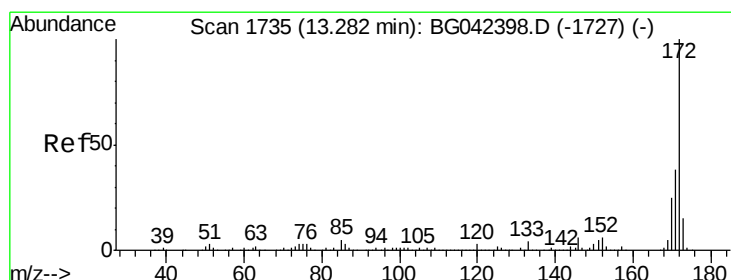
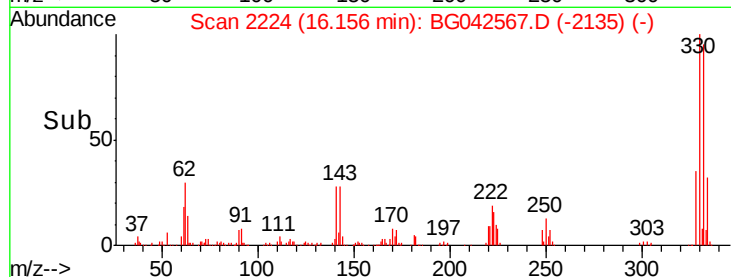
Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->



#45

2-Fluorobiphenyl

Concen: 104.062 ng

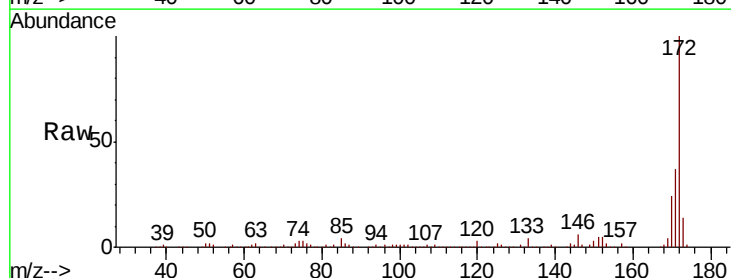
RT: 13.28 min Scan# 1734

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion:	172	Resp:	524923
Ion Ratio	Lower	Upper	
172	100		
171	37.0	30.5	45.7
170	24.1	20.2	30.2

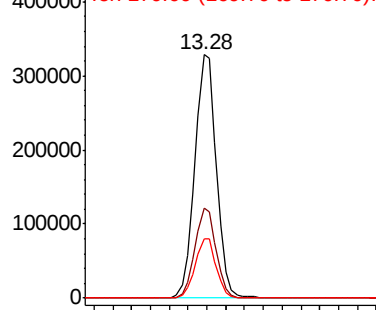


Abundance

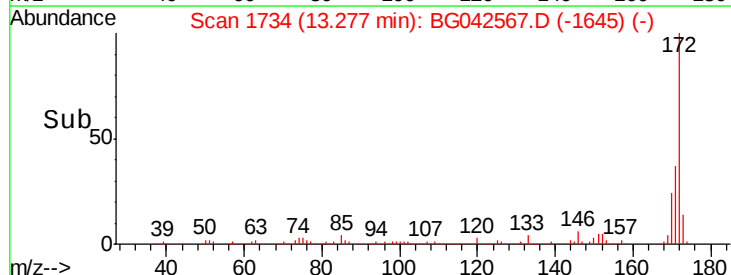
Ion 172.00 (171.70 to 172.70): E

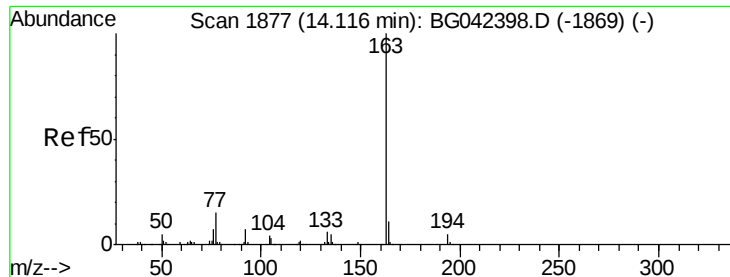
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->





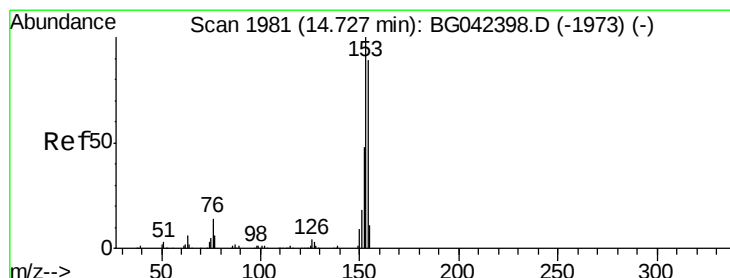
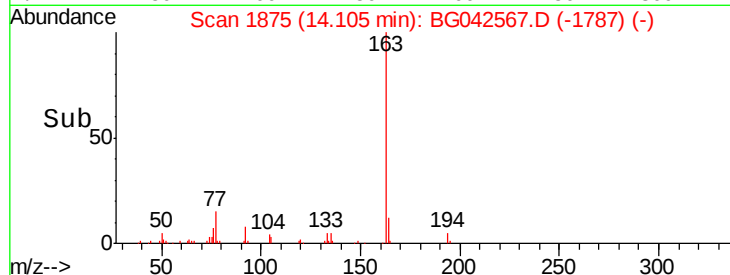
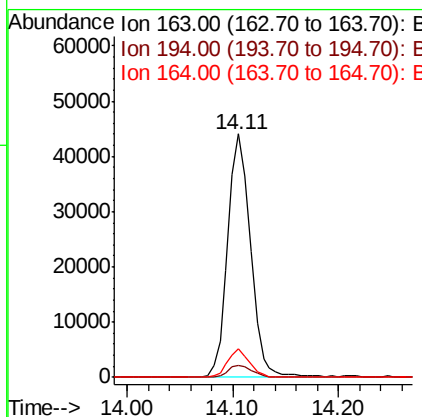
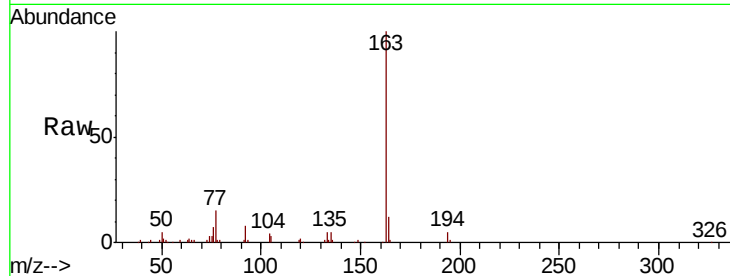
#50
Dimethylphthalate
Concen: 10.746 ng
RT: 14.11 min Scan# 1875
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Resp	Lower	Upper
163	100	66150		
194	5.1	4.2	6.2	
164	11.7	8.8	13.2	

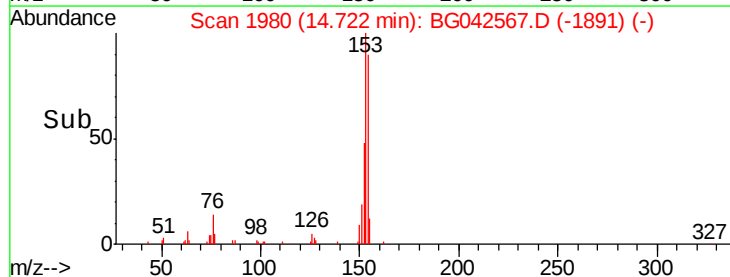
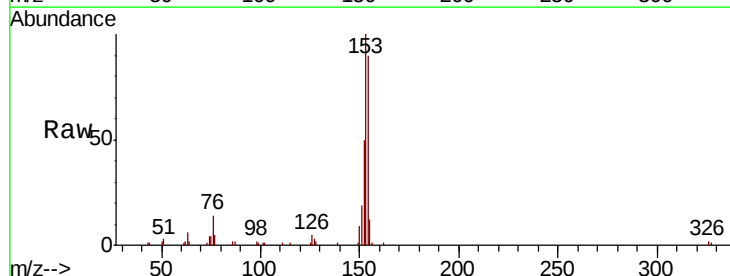
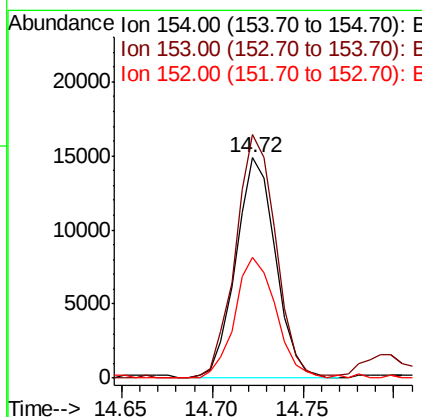
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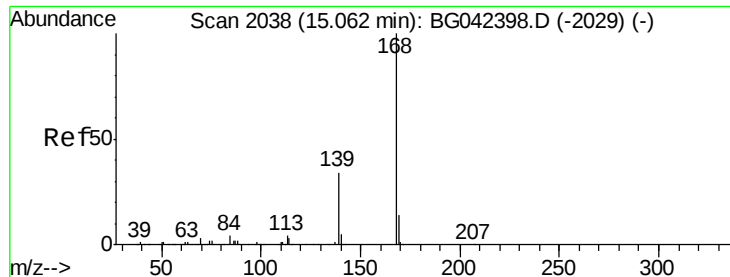
Jagrut
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#52
Acenaphthene
Concen: 5.220 ng
RT: 14.72 min Scan# 1980
Delta R.T. -0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	22674		
153	110.6	90.2	135.4	
152	54.8	43.2	64.8	





#55

Dibenzenofuran

Concen: 4.490 ng

RT: 15.06 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

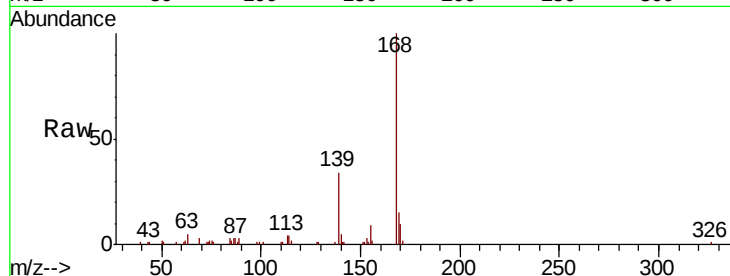
ClientSampleId :

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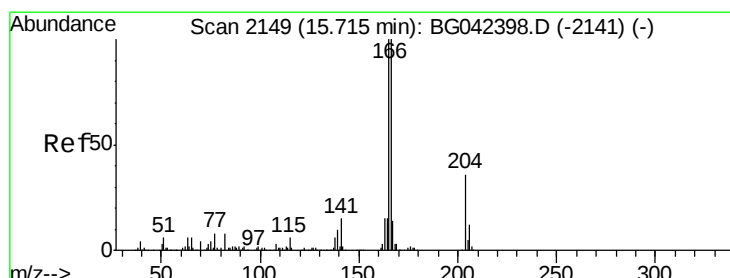
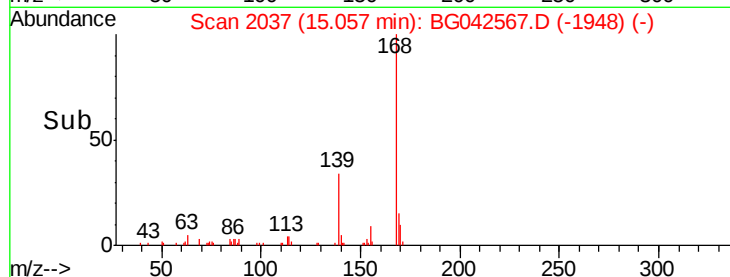
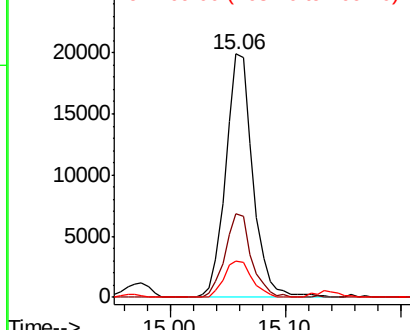
Tot Ion:	168	Resp:	32289
Ion Ratio	Lower	Upper	
168	100		
139	34.1	27.2	40.8
169	14.8	11.5	17.3

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



#58

Fluorene

Concen: 6.118 ng

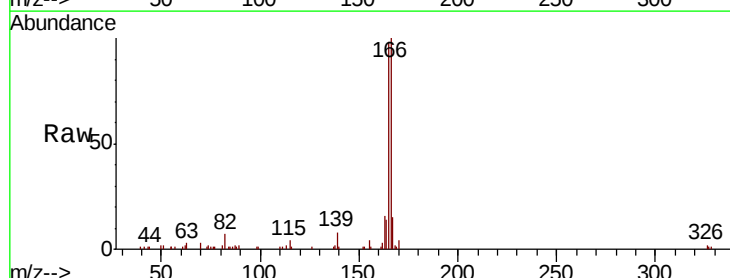
RT: 15.71 min Scan# 2148

Delta R.T. -0.01 min

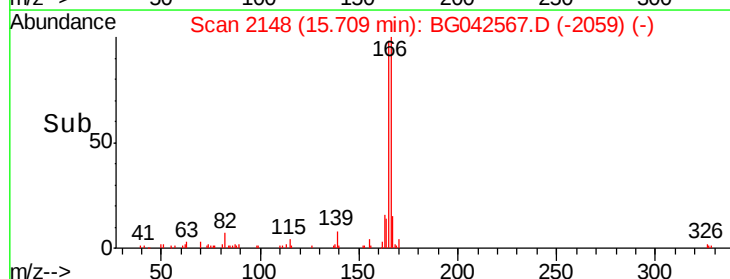
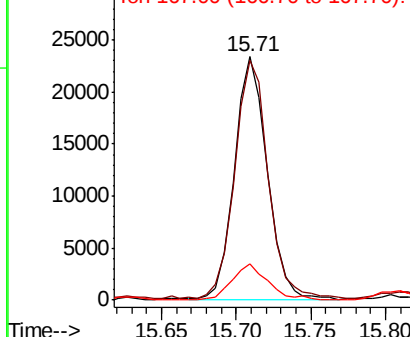
Lab File: BG042567.D

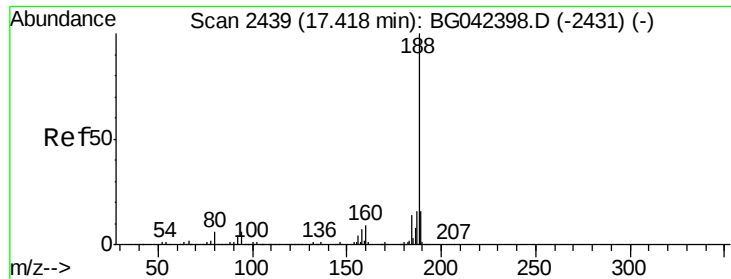
Acq: 29 Aug 2019 16:16

Tgt Ion:	166	Resp:	35964
Ion Ratio	Lower	Upper	
166	100		
165	98.3	79.7	119.5
167	14.7	10.9	16.3



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: 17.41 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

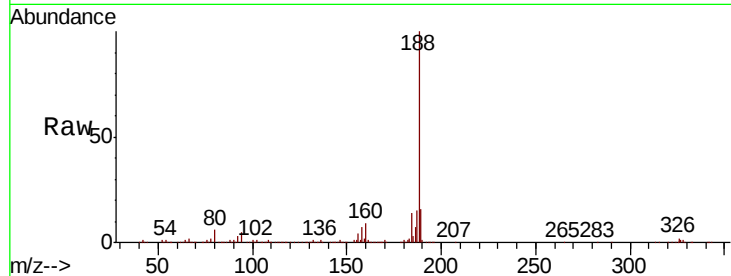
ClientSampleId :

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Tot Ion:	188	Resp:	211907
Ion Ratio	Lower	Upper	
188	100		
94	5.3	4.5	6.7
80	5.6	4.9	7.3

Manual Integrations
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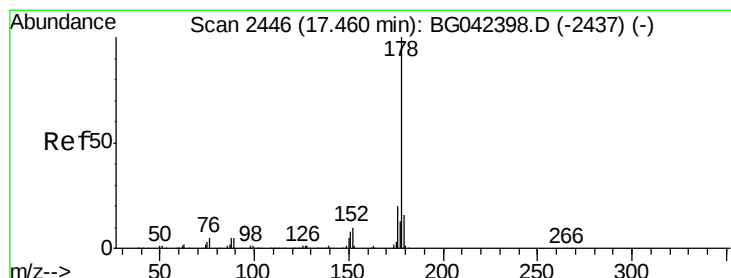
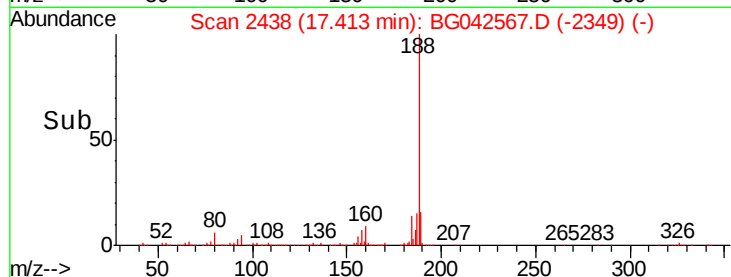
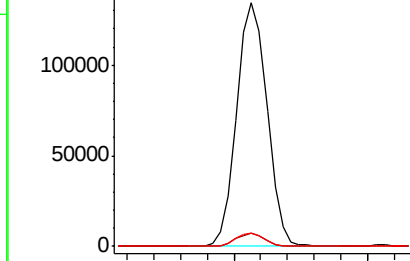
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#71

Phenanthrene

Concen: 50.255 ng

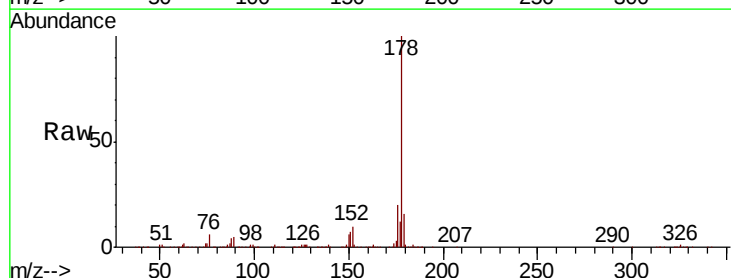
RT: 17.45 min Scan# 2445

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

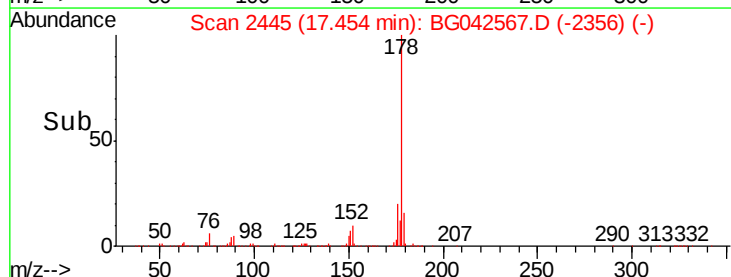
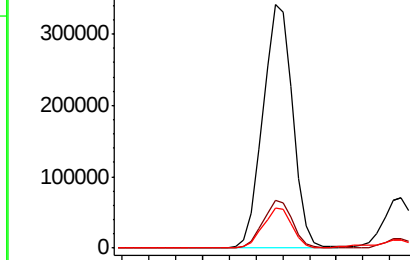
Tgt Ion:	178	Resp:	528974
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.9	23.9
179	16.5	12.7	19.1

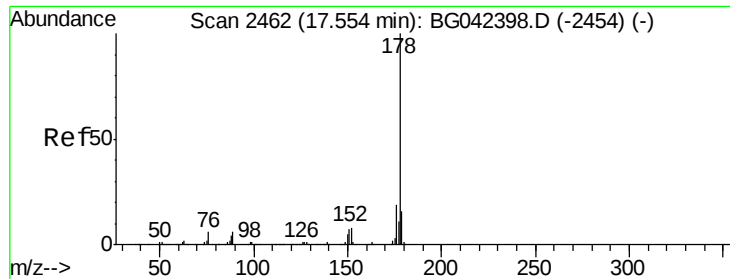


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 10.266 ng

RT: 17.55 min Scan# 2461

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

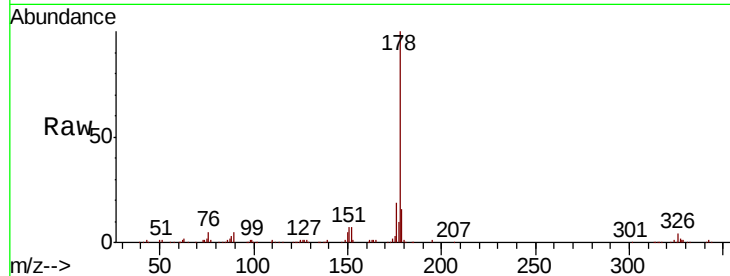
ClientSampleId :

SB-19-COMP

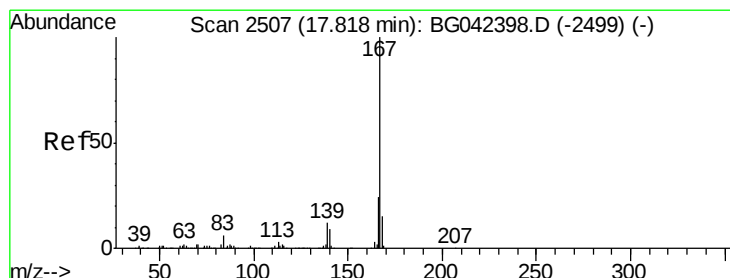
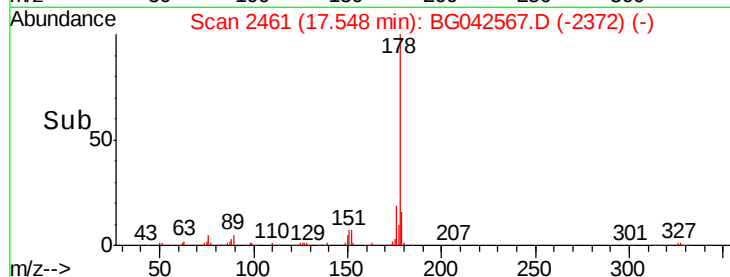
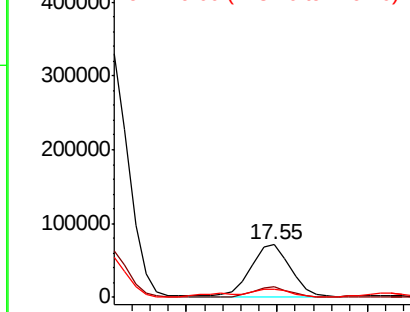
Tot Ion:	178	Resp:	107871
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.5	23.3
179	16.1	12.9	19.3

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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



#73

Carbazole

Concen: 4.201 ng

RT: 17.82 min Scan# 2507

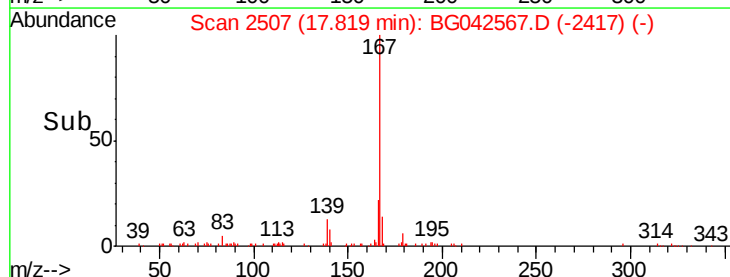
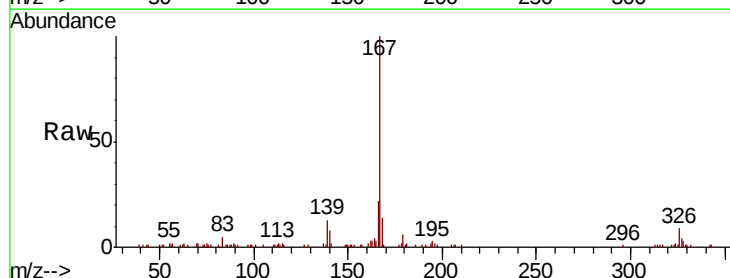
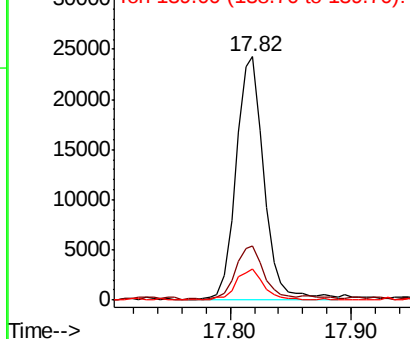
Delta R.T. 0.00 min

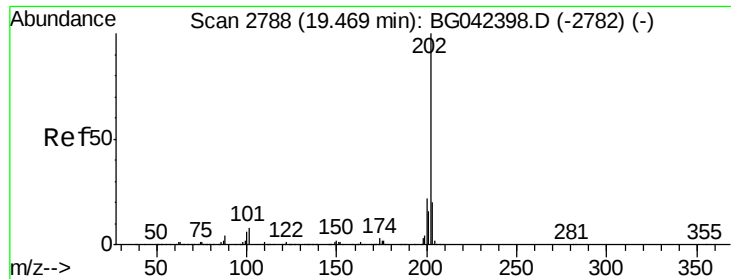
Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion:	167	Resp:	39342
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.9	28.3
139	12.7	9.8	14.6

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: 44.287 ng

RT: 19.47 min Scan# 2788

Delta R.T. 0.00 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

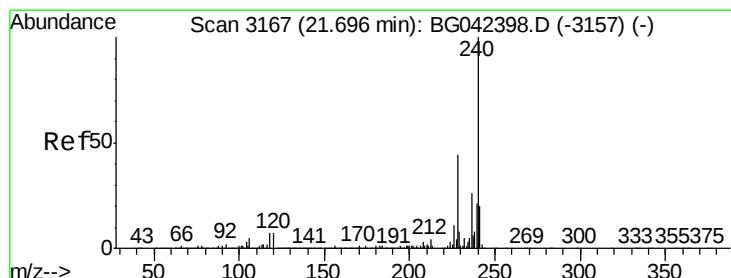
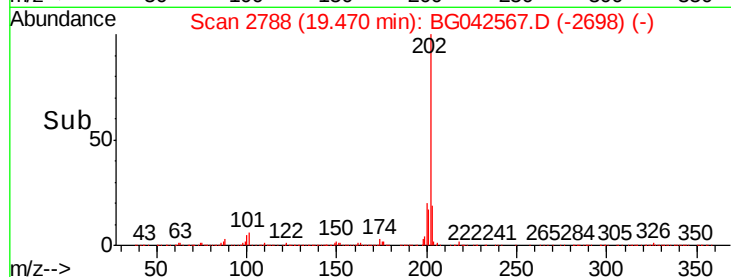
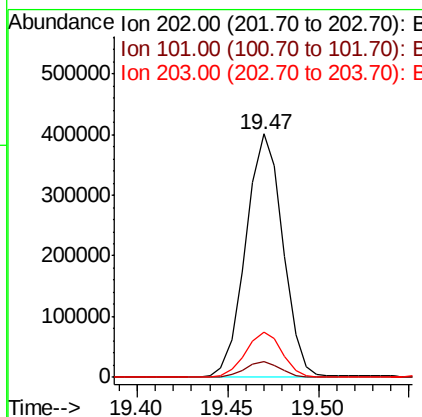
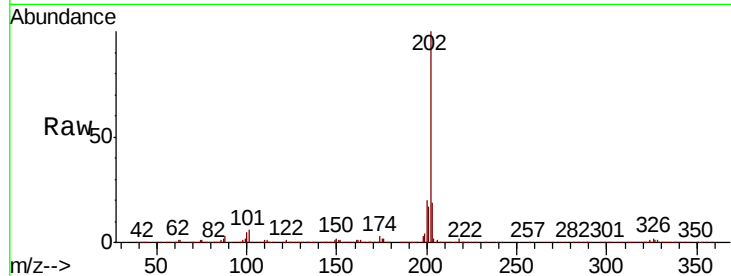
ClientSampleId :

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Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	6.4	0.0	28.3
203	18.6	0.0	39.6

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#76

Chrysene-d12

Concen: 20.000 ng

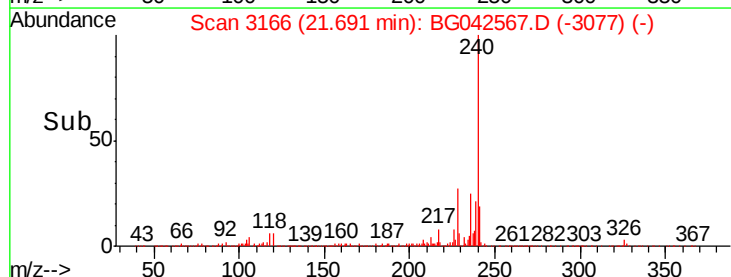
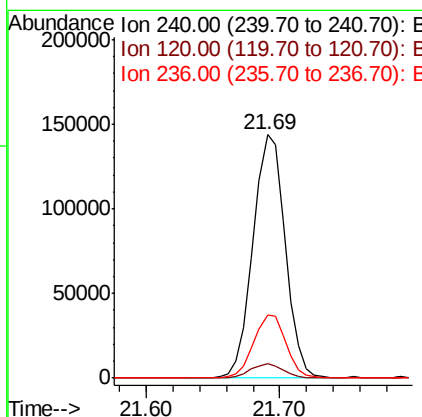
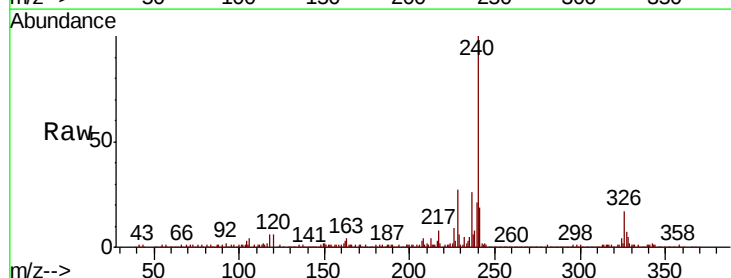
RT: 21.69 min Scan# 3166

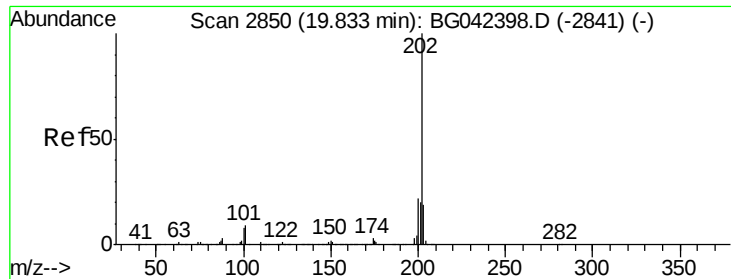
Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	6.1	5.7	8.5
236	25.7	21.0	31.4





#78

Pvrene

Concen: 37.520 ng

RT: 19.83 min Scan# 2850

Delta R.T. 0.00 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

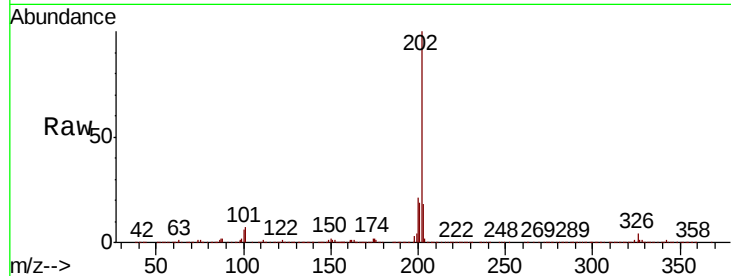
ClientSampleId :

SB-19-COMP

Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.8	26.6
203	18.5	15.5	23.3

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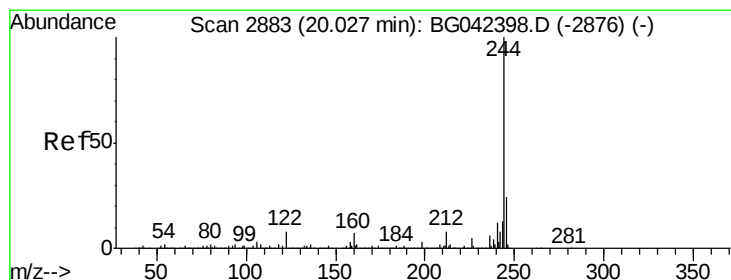
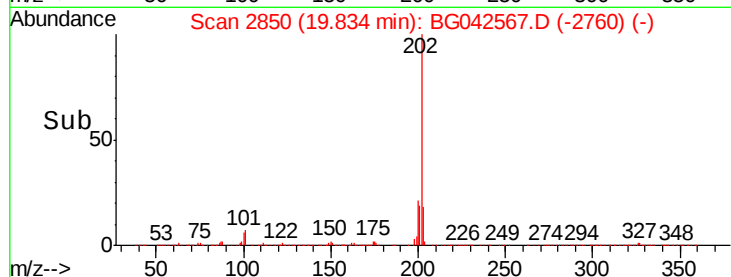
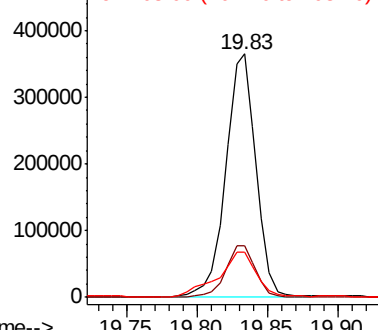


Abundance

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



#79

Terphenyl-d14

Concen: 93.048 ng

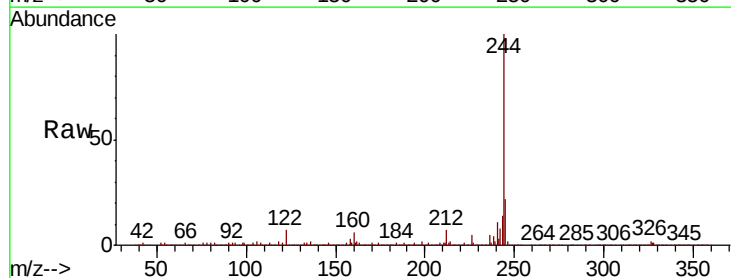
RT: 20.03 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	6.6	6.7	10.1#

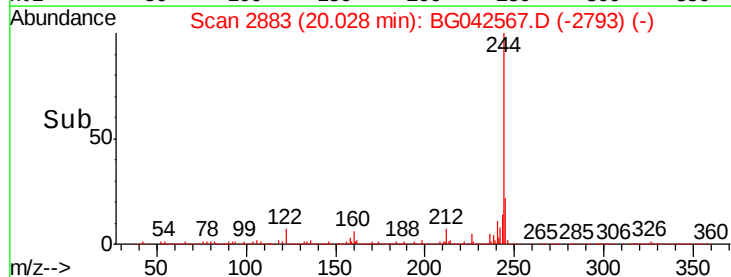
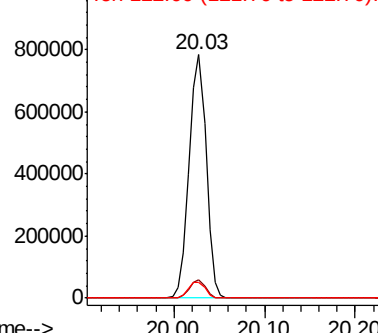


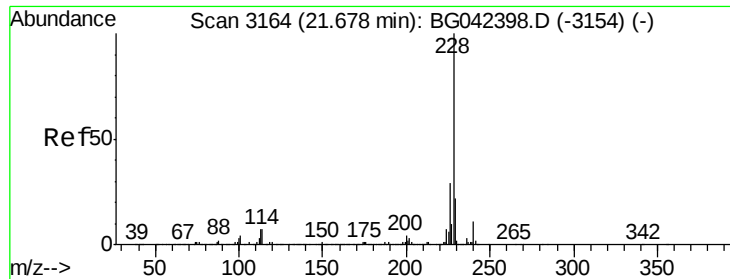
Abundance

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: 17.827 ng

RT: 21.67 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

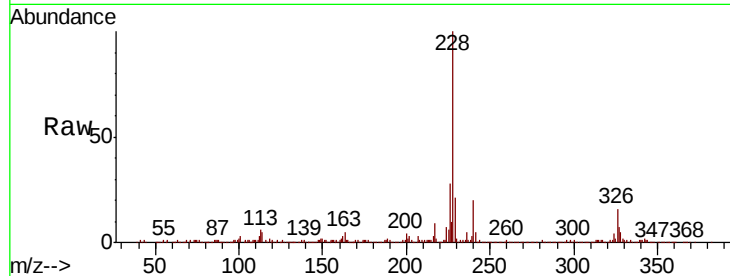
ClientSampleId :

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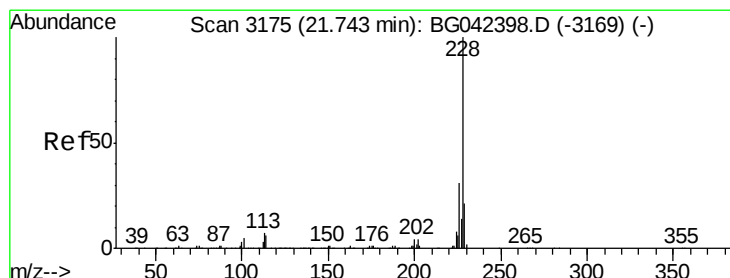
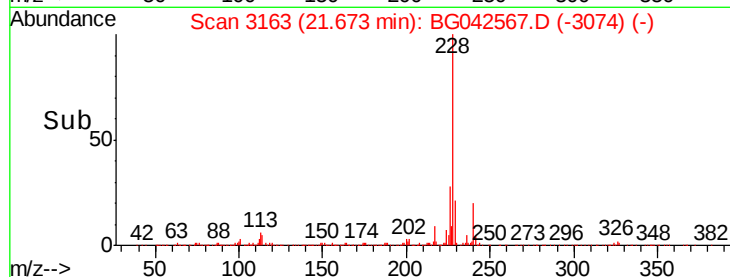
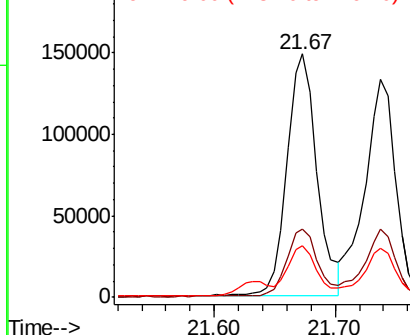
Tot Ion:	228	Resp:	258082
Ion Ratio	Lower	Upper	
228	100		
226	28.2	23.4	35.2
229	21.2	17.4	26.2

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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: 17.001 ng

RT: 21.74 min Scan# 3174

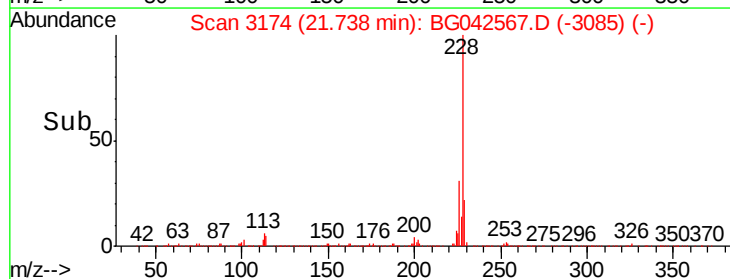
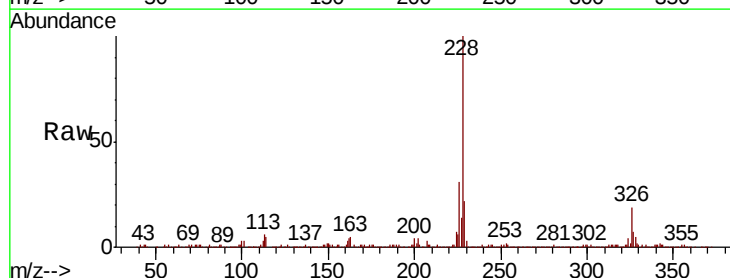
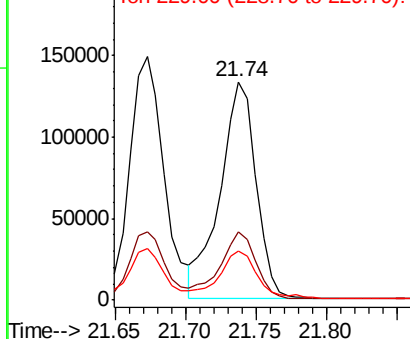
Delta R.T. -0.01 min

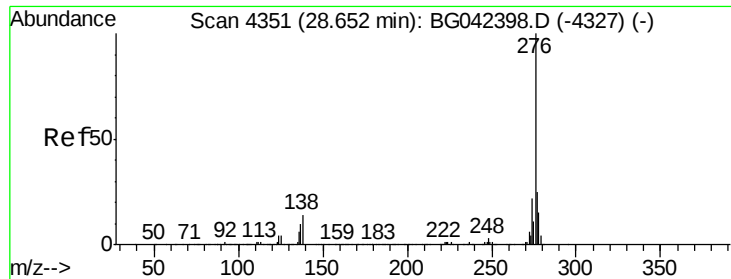
Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion:	228	Resp:	237357
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.9	37.3
229	22.4	16.9	25.3

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





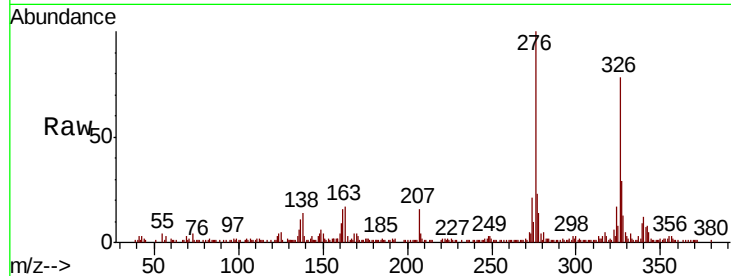
#86
Indeno(1,2,3-cd)pyrene
Concen: 7.152 ng
RT: 28.66 min Scan# 4352
Delta R.T. 0.01 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Lower	Upper
276	100		
138	13.6	9.2	13.8
277	24.7	21.0	31.6

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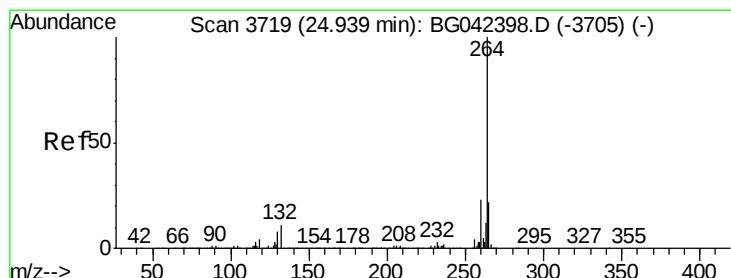
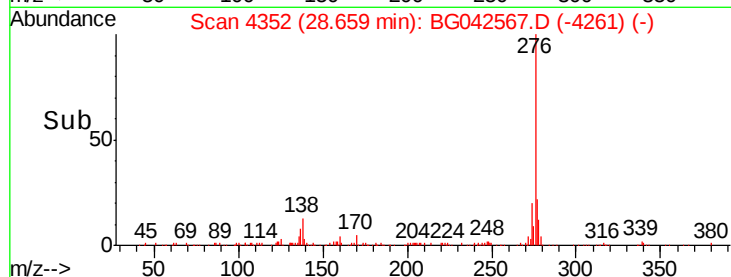
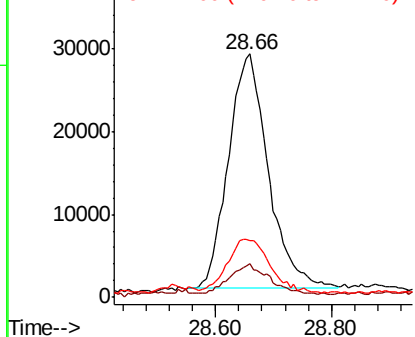


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
Perylene-d12
Concen: 20.000 ng
RT: 24.94 min Scan# 3719
Delta R.T. 0.00 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

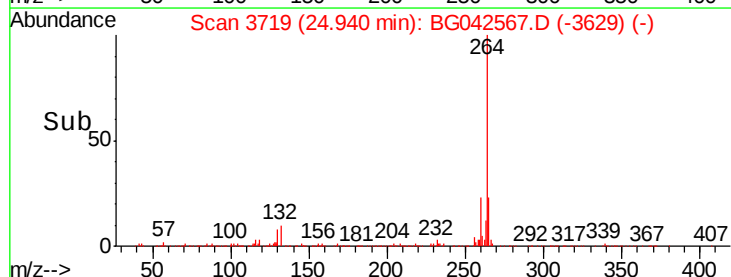
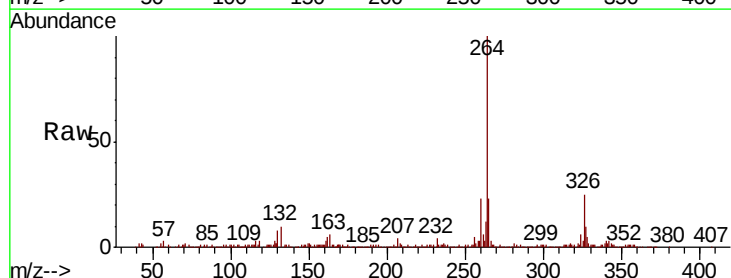
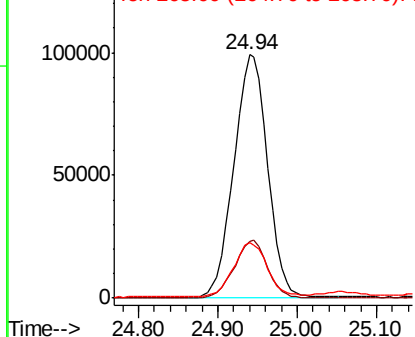
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.5	27.7
265	22.8	17.6	26.4

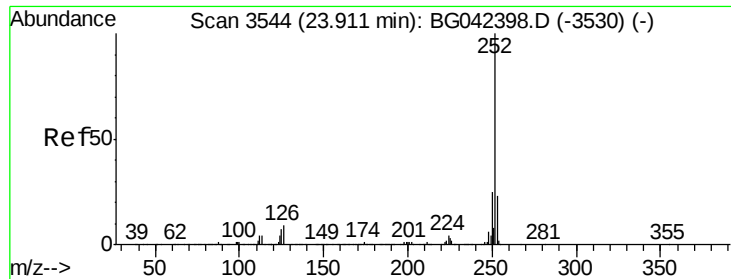
Abundance

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: 17.706 ng

RT: 23.91 min Scan# 3544

Delta R.T. 0.00 min

Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Instrument :

BNA_G

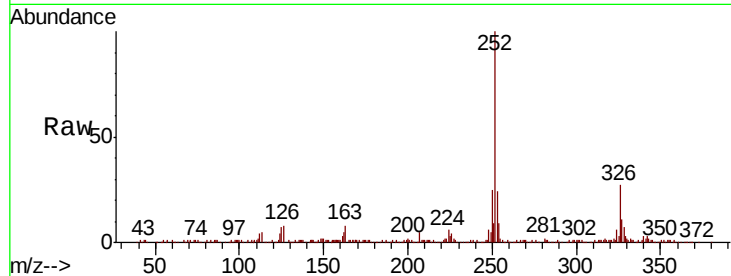
ClientSampled :

SB-19-COMP

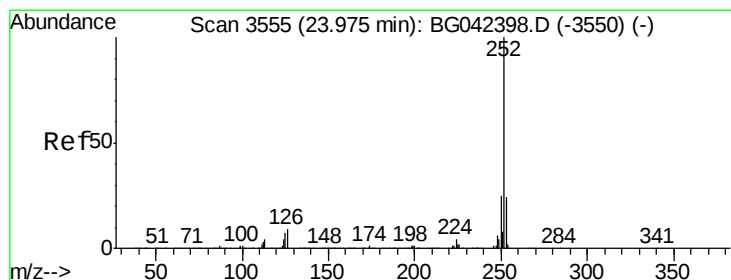
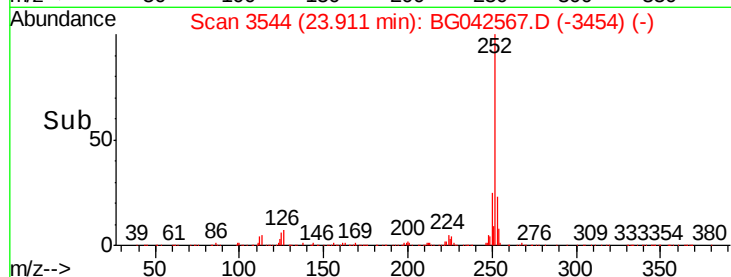
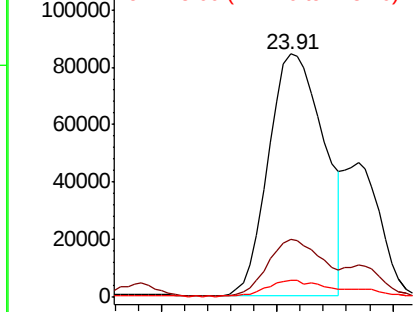
Tot Ion:	252	Resp:	282767
Ion Ratio	Lower	Upper	
252	100		
253	23.9	18.6	27.8
125	7.2	5.6	8.4

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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



#89

Benzo(k)fluoranthene

Concen: 6.831 ng m

RT: 23.97 min Scan# 3554

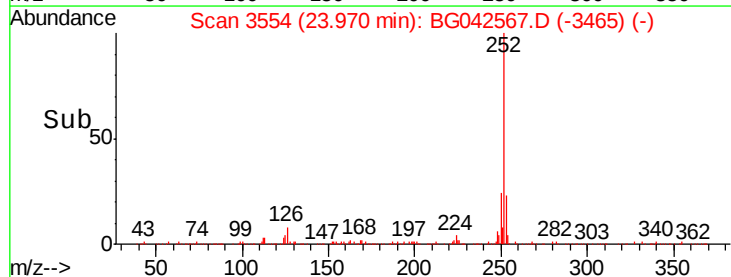
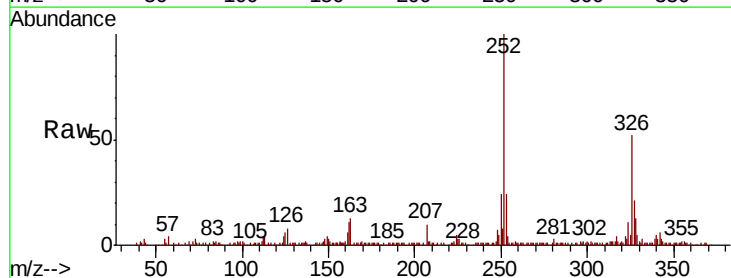
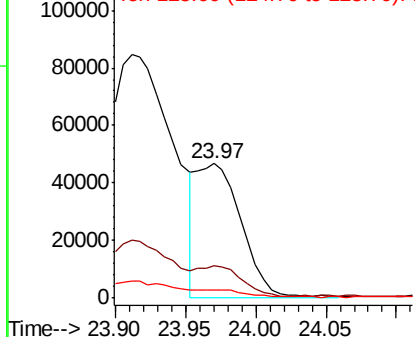
Delta R.T. -0.01 min

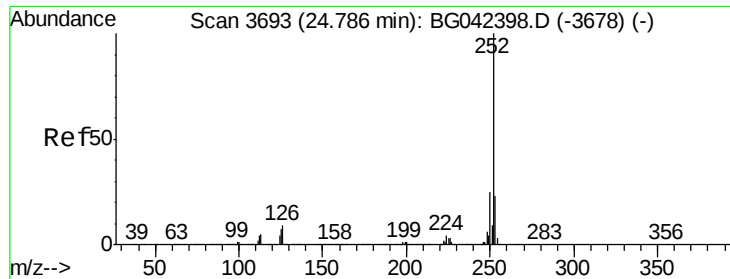
Lab File: BG042567.D

Acq: 29 Aug 2019 16:16

Tgt Ion:	252	Resp:	104856
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.6	27.8
125	6.1	5.8	8.6

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





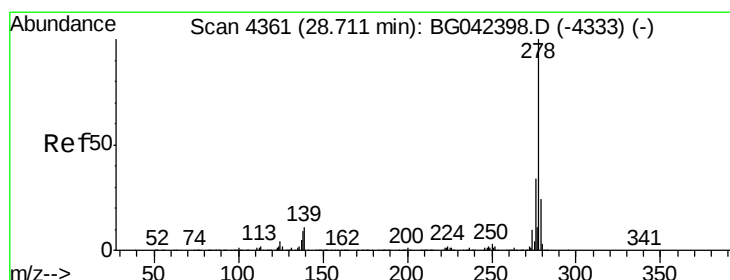
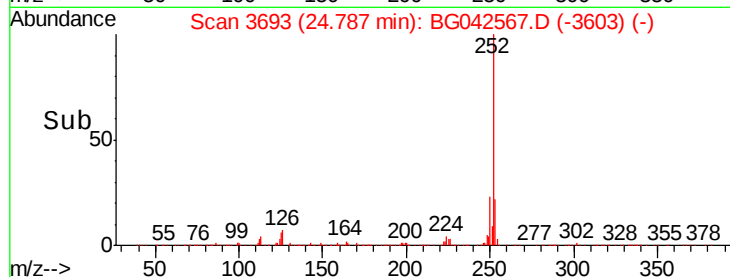
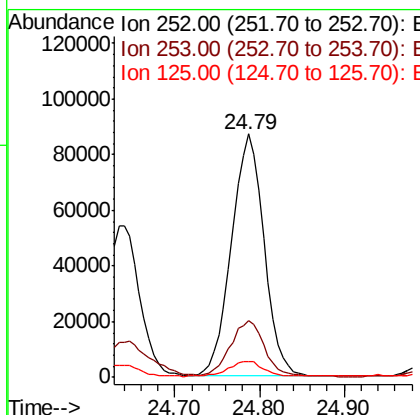
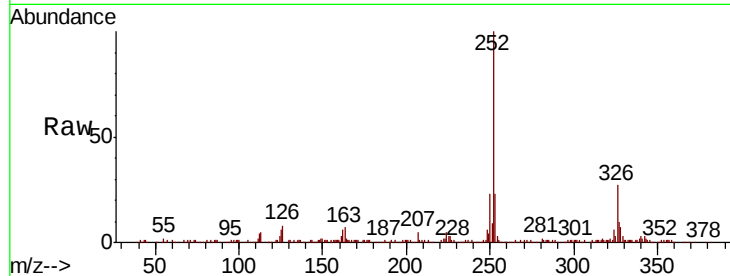
#90
Benzo(a)pyrene
Concen: 15.322 ng
RT: 24.79 min Scan# 3693
Delta R.T. 0.00 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Instrument :
BNA_G
ClientSampleId :
SB-19-COMP

Tot Ion	Ratio	Resp	Lower	Upper
252	100	232196		
253	23.3		18.4	27.6
125	6.2		6.0	9.0

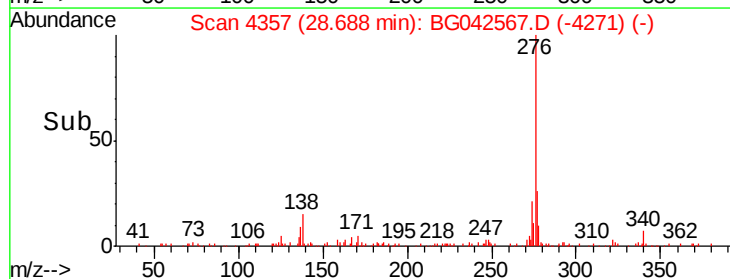
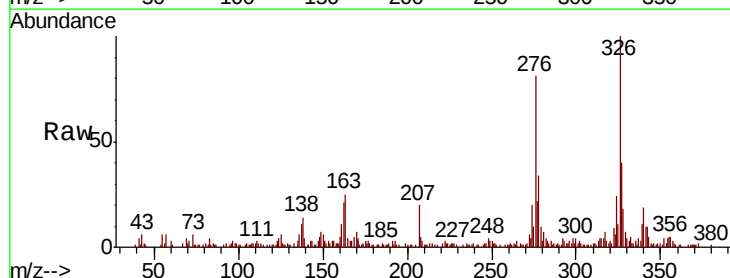
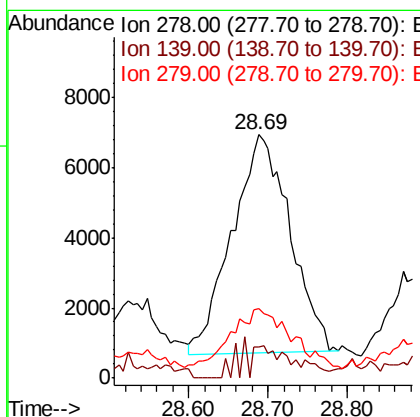
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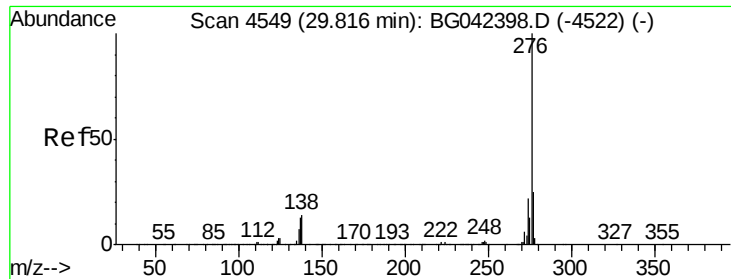
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#91
Dibenzo(a,h)anthracene
Concen: 2.059 ng
RT: 28.69 min Scan# 4357
Delta R.T. -0.02 min
Lab File: BG042567.D
Acq: 29 Aug 2019 16:16

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	31589		
139	12.9		8.8	13.2
279	28.4		19.1	28.7





#92
 Benzo(a,h,i)perylene
 Concen: 8.473 ng
 RT: 29.81 min Scan# 4548
 Delta R.T. -0.01 min
 Lab File: BG042567.D
 Acq: 29 Aug 2019 16:16

Instrument :
 BNA_G
 ClientSampleId :
 SB-19-COMP

Tot Ion:	276	Resp:	130033
Ion Ratio	Lower	Upper	
276	100		
277	26.0	19.8	29.8
138	14.5	11.4	17.0

Manual Integrations
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